Town of Shelburne
Request for Proposal
Single axle Cab & Chassis Truck complete with Snow Plow Equipment
RFP #05-2022

TOWN OF SHELBURNE

RFP 05-2022

Single Axle Cab & Chassis Truck complete with Snow Plow Equipment

SUBMITTED BY

COMPANY _____

ADDRESS _____

_____

_____

TELEPHONE _____

FAX _____

E-MAIL _____

DATE _____

PROPOSAL REQUIRMENTS:

DATE AND PLACE FOR RECEIVING SUBMISSIONS:

Request for Proposal to be addressed by email only to Carey Holmes, Treasurer at cholmes@shelburne.ca with the subject line clearly stating RFP 05-2022 Submission.

Emails must be sent no later than **3:00 p.m. (15:00 hours) local time**, on the specified closing date; August 29, 2022. Late bids will not be accepted.

August 2nd, 2022	Request for Proposal Issued
August 24th, 2022 by 4:30 pm *(questions & addendums (if any))*	Deadline for electronic questions to Municipality wthomson@shelburne.ca from Interested Suppliers; Replies will be circulated to all Suppliers: Addendums (if necessary) will be the responsibility of the bidder to download from the town website at shelburne.ca or merx.com
August 29th, 2022 (3:00 pm) EST	Closing date for Proposal Submissions
September 09th, 2022	The Municipality will award the Request for Proposal and notify the successful Proponent

2. PROPOSAL FORMAT:

Proposals will not be considered unless:

- Received by date and time specified – August 29th, 2022 – 3:00 pm EST
- Received signed Free Proposal signed by Proponent with authority to binds the Company
- Specifications of new Single Axle Cab & Chassis Truck complete with Snow Plow Equipment
- Company Profile including Certifications and Accreditations along with relevant experience
- References of similar projects from previous/existing Vendors.
- Copy of Contractor's current insurance certificates.
- WSIB clearance certificate.

3. PROPOSAL EVALUATION CRITERIA:

Proposals will be assessed on the information provided in the proposal. Evaluation will be based upon the following items:

- Cost Proposal- 25 points
- Project Understanding – 25 points
- Team and Project Manager -25 points
- Experience and References – 25 points

- **Note: Lowest or Any Proposal not necessarily accepted.**

4. WITHDRAWAL OF PROPOSALS:

A Proponent may, without prejudice to himself, withdraw his tender at any time up to twenty-four (24) hours before the time set for the closing of the tender. Such withdrawal shall be made in writing and be received by the Town within the specified time. The Proponent who has withdrawn their proposal may submit a new Proposal but must be received by the Town on or before the closing date and time. After closing, the Proposals are final and binding on the Proponent.

5. TOWN'S RIGHT TO ACCEPT OR REJECT:

The Town of Shelburne reserve the right to reject any proposal, even if that proposal is the lowest in dollar amounts and may award the contract to the Proponent that the evaluation team finds the most appropriate. The Town will not be liable for any incurred costs that may arise from submitting the proposal.

It is not the intention of the Town to award this RFP to any Supplier who does not furnish satisfactory evidence that he/she has the ability and experience in this class of work, and that he has sufficient capital and plant to enable him to prosecute and complete the same successfully, and to complete it in the time stated in this Tender. It will be the Supplier's responsibility to clarify any details in questions before submitting a proposal.

All questions, technical or otherwise, pertaining to this Request for Proposal should be directed by email only:

Will Thomson
Manager of Operations, Parks and Facilities
wthomson@shelburne.ca

The Town of Shelburne will not bear any fault for any oral communications. The Town reserves the right to re-tender the Project or potentially negotiate a contract with a suitable Proponent.

Proponents are required to disclose their legal status as to whether they are a Federal, Provincial or Foreign Corporation, a partnership or an individual and to state the names and addresses of the responsible officers or partners.

6. INSTALLATION DATE:

The Proponent is responsible for providing a firm installation date.

7. TOWN'S AUTHORITY:

The Director of Development & Operations shall be the Contract Administrator as identified in Ontario Provincial Standards (O.P.S.) Section GC 3.01 of the General Conditions. It is mutually agreed between the parties of this Contract that the Town's Director of Development & Operations or designated representative, shall supervise, direct and approve all work included herein, and in all cases shall decide every question which may arise relative to the execution of the work to be performed under this Contract as per Section GC 7.0 – Contractor's Responsibilities and Control of the work.

8. FAILURE OR DEFAULT OF PROPONENT:

If the Proponent, for any reason, fails or defaults in respect of any matter or thing which is an obligation of the Proponent under the terms of the RFP, the Town may disqualify the Proponent from the RFP and/or from competing for future bid opportunities (RFTs/RFQs/RFPs/etc.) issued by the Town. In addition, the Town may at its option either: 1. Consider that the Proponent has withdrawn any offer made, or abandoned the Agreement if the offer has been accepted, whereupon the acceptance, if any, of the Town shall be null and void; or 2. Require the Proponent to pay the Town the difference between its Proposal and any other Proposal which the Town accepts, if the latter is for a greater amount and, in addition, pay the Town any cost which the Town may have incurred, by reason of the Proponent's failure or default, and further, the Proponent will indemnify and save harmless the Town its officers, employees and agents from all loss, damage, liability, cost, charge and expense whatever, which it, they or any of them may suffer, incur due to the failure of the proponent.

9. ADDENDUM:

If an addendum is found to be necessary, it will be released to all companies that have picked up and an RFP. If the Town revises this RFP, any revisions will be included on this Addendum. The Addendum shall advise any changes to the Proposal submission date if more time is allowed for all Proponents to revise their proposals. It will be the responsibility of all Proponents to download from Town website or Merx.com.

10. WORKPLACE SAFETY AND INSURANCE BOARD:

A Certificate of Clearance from the Workplace Safety and Insurance Board (WSIB) must be provided prior to the commencement of the project, providing adequate proof that all payment by the Proponent have been made.

The Proponent clearly understands and agrees that they are **not**, nor is anyone hired by the Proponent, covered by the Corporation of the Town of Shelburne under the Workplace Safety & Insurance Board Act, The Unemployment Act, or any other Act, whether Provincial or Dominion, in respect of the Proponent, their employees and operations, and shall upon request furnish the Town with such satisfactory evidence that the Proponent has complied with the provisions of any such Acts.

The Town of Shelburne is not to be deemed the employer of the supplier or their personnel under any circumstances whatsoever.

11. INSURANCE:

The party to whom this Contract is awarded shall supply the Town with proof of insurance and a copy of the policy, prior to signing of the Proponent by Town officials, and provide coverage throughout the term of the Proposal in the amounts outlined below.

Comprehensive General Liability Insurance with a minimum limit of liability of $5,000,000.00 inclusive of any one occurrence. Comprehensive General Liability Insurance shall cover all operations and liability assumed under the Contract with the Town. The Comprehensive General Liability Insurance shall include premises and operations liability, Proponent's contingency liability with respect to the operations of Sub-contractors completed operations liability and automobile liability (owned, non-owned or hired units).

All premiums and expense incurred with this insurance shall be paid for by the Contractor. Failure to maintain adequate insurance, the Proponent shall be totally responsible for all claims for damage.

12. INDEMNIFICATION:

The Proponent shall indemnify and save harmless the Corporation of the Town of Shelburne, its elected officials, officers, employees and agents from and against all losses and all claims, demands, payments, suits, actions, recoveries and judgements of every nature and description made, brought or recovered against the Town by reason of any act or omission of the Proponent, his agents or employees, in the execution of his work. This indemnity shall be in addition to and not in lieu of any insurance to be provided by the successful proponent in accordance with the RFP.

13. LIMITS AND LAWS/CONFORMITY TO LEGISLATION:

The Proponent shall obtain, and pay for all required permits from Federal, Provincial and Municipal Authorities having jurisdiction over the work. The Proponent shall comply with all applicable laws, ordinances, rules and regulations including but not limited to, Occupational Health and Safety Act, the Labour Act, Environmental Protection Act and Highway Traffic Act.

14. INFORMAL PROPOSALS:

Proposals that are incomplete, conditional, illegible, or obscure or that contain additions not called for, reservations, erasures, alterations or irregularities of any kind, may be rejected as informal. Bidders are required to fill in all the blanks.

15. CONFIDENTIALITY:

In accordance with the Municipal Freedom of Information and Protection of Privacy Act. R.S.O. 1990, as amended, Proponents are advised that all correspondence provided by a Proponent responding to this RFP as hereby collected under the authority of the Municipal Act, 2001 and will be used exclusively in the RFP process.
The Town will treat all proposals as confidential within the boundaries of the Municipal Freedom of Information and Protection of Privacy Act (MFIPPA) but may be released pursuant to the Act.
All public reports approved by the Town of Shelburne will become public information. Notwithstanding the foregoing, Proponents recognize and agree that the Town will not be liable in any way for any losses that the Proponent may suffer from the disclosure of information to third parties.

16. CONFLICT OF INTEREST:

The Proponent must disclose to the Town any potential conflict of interest that might compromise the project. In the case where there might be a conflict of interest, the Town may refuse to consider the proponent. The proponent must fully disclose any potential conflict of interest with a Town employer, board member or commission that may have a financial gain with the awarding of the contract and state the nature of that interest.

17. NON-COLLUSION:

A Proponent is prohibited from any communication, directly or indirectly, with any other Proponent/Agent or representative of the Proposal. If a breach is discovered, the Town reserves the right to disqualify the Proposal.

18. PAYMENT:

Once the project has started, payment shall be monthly, based on work completed to date and provided the work has been satisfactorily completed. The Proponent shall show its HST Registration number on each invoice. The amount of HST being charged shall be shown separately on all invoices. Prices contained in submission are to be in Canadian Funds, and to include all necessary labour, travel, and equipment required for execution of the work.

SCHEDULE A - TRUCK

RFP 05-2022
Single Axle Cab & Chassis Truck

(A) SPECIFICATION FOR TRUCK:

1.	YEAR / MAKE	MODEL – SET BACK AXLE

2. VEHICLE WEIGHT:

(a)	G.V.W. – 19,500 kg.	SPECIFY				kg
(b)	The allowable G.V.W. as supplied shall be shown on a metal/mylar tag	YES		NO		
(c)	Chassis Weight - 5,000 kg. min.	SPECIFY				kg

3. **ENGINE**: Diesel High Torque 330 H.P. minimum

MAKE		MODEL				
(a)	Number of cylinders: 6 IN LINE six	SPECIFY YES: _____ NO: _____				
(b)	Peak H.P. – 330	SPECIFY:	HP @			RPM
(c)	Net H.P. – 330	SPECIFY:	HP @			RPM
(d)	Gross Torque - 1,150 lb. ft. min.	SPECIFY	lb.ft.@			RPM
(e)	Net Torque	SPECIFY	lb.ft. @			RPM
(f)	Engine Weight	SPECIFY				lb
(g)	Displacement	SPECIFY				litres
(h)	Air Cleaner - Heavy Duty - Dual element	SPECIFY				
(i)	Driver in-dash control for engine air intake for summer / winter operations.	YES		NO		
(j)	Oil Filter - full flow type mounted on the engine (remote location not acceptable) - 2L capacity	SPECIFY CAPACITY				litres
	Alternator - shall be a brushless 145 amp.	SPECIFY				

(k)	min. capacity(3SI) high current output at low idle speed					
(l)	Governor - engine governor, electronic		YES		NO	
(m)	Battery - Three maintenance free 12 volt batteries to be supplied and shall have a total cranking capacity of 1900 CCA @ 0° F	SPECIFY CCA				
(n)	**If batteries are mounted behind the cab, they shall be clear of sanding equipment and wing tower**		YES		NO	
(o)	For the hydraulic pump; P.T.O. must be front mounted. Crankshaft shall be provided with an adapter for P.T.O drive Pumps to have cab-mounted, driver-operated disconnect.		YES		NO	
NOTE:	Where a crankshaft is located low enough to allow the front mounted pumps to operate with sufficient clearance below the radiator, crankshaft access permitted through radiator. SPECIFY whether crank adaptor locate below O.E.M. rad or has cut-out through bottom of rad for access. SPECIFY:_____					
(p)	Extend life Anti-freeze - 40°C		YES		NO	
(q)	Fan clutch – temperature controlled Type:		YES		NO	
(r)	High temperature and low pressure engine protection alarm bell or buzzer device		YES		NO	
(s)	Radiator stone screen & guard in behind grille.		YES		NO	
(t)	Air compressor 16.5 CFM Type:		YES		NO	
(u)	Fuel water separator.		YES		NO	

4. TRANSMISSION:

(a)	Transmission – Allison 6 speed 3000 RDS P Automatic		YES		NO	
(b)	Transmission minimum torque	SPECIFY				
(c)	Auxiliary transmission cooler.	YES NO				
(d)	Locking main differential operator controlled dash mounted switch.		YES		NO	
(e)	Synthetic transmission fluid.		YES		NO	
(f)	Transmission temperature gauge – dash mounted.		YES		NO	

5. CHASSIS

(a)	Wheel base approx 180", Cab to axle approx 102". To be confirmed with box supplier NOTE: Clear effective / usable C.A. required.	YES	NO
(b)	Front axle capacity at ground - 20,000 lb	YES	NO
(c)	Rear suspension - 31,000 lbs.	YES	NO
(e)	Heavy duty front shock absorbers & front springs shall be supplied	YES	NO
(f)	Front Springs shall be Heavy Duty multi leaf 10,000lbs each @ ground.	YES	NO
(g)	Rear Axle – heavy duty helper springs 4,500 lbs auxiliary	YES	NO

6. CAB:

(a)	Conventional cab with a full front tilt hood, stationary CHROME grill separate from hood fixed in front of rad, rock guard and bug screen, hood service hatches that will not interfere with a front mounted P.T.O. / tandem front mount pumps.	YES	NO
(b)	Air ride Cab. Colour keyed cab valance panels (fill in panels below cab) Colour keyed exterior sun visor w/LED clearance lights Right passenger door comes with lower Fresnel window R.H cab mounted look down convex mirror All windows to be O.E.M tinted In-cab O.E.M mounted fire extinguisher, first aid kit and triangle reflector kit 18 " tilt/telescopic steering wheel Suspended accelerator, brake pedals 2 " in-dash cup holders Medium grey interior	YES	NO
(c)	For sound (Max 80 D.B.A.) interior cab noise and heat protection, premium interior pkg. w/insulated / padded door panels, cloth headliner and complete back wall panel. Heavy duty insulated rubber floor mats.	YES	NO
(d)	Heavy duty, high back, 100% **CLOTH** Seats with foam rubber cushions	SPECIFY	
(e)	Both seats shall be a BOSTRUM, Talladega 914 Model (or equivalent) with arm rests, and must have a fully adjustable air ride suspension, with fore/aft leg reach setting, front seat cushion height adjustment for leg support and manually adjustable lumbar supports.	SPECIFY	

(f)	Power windows with driver and passenger controls on doors.	YES		NO	
(g)	HEAVY DUTY floor mats – rubber	YES		NO	
(h)	Interior sun visors - dual adjustable	YES		NO	
(i)	Windshield wipers - shall be **Heavy Duty** with intermittent feature and have winter wiper blades.	YES		NO	
(j)	Mirrors: Two outside power and heated mirrors 6”x16” chrome or stainless steel west coast style with L.E.D. lights and two 8” convex mirrors west coast type, Cab mount, both heated. SPECIFY: _____	YES		NO	
(k)	The mirrors shall be electrically heated to prevent fogging and ice build up.	YES		NO	
(l)	Fresh air heater and defroster with 3 speed fan and side window defrosters plus 2 directional fans one for passenger window and one for driver windshield.	YES		NO	
(m)	Factory installed, cab pressurizing air conditioning shall be supplied	YES		NO	
(n)	Electronic engine throttle / cruise control shall be supplied.	YES		NO	
(o)	Fuel gauge shall be supplied	YES		NO	
(p)	Voltmeter shall be supplied	YES		NO	
(q)	Water temperature gauge shall be supplied	YES		NO	
(r)	Oil pressure gauge shall be supplied complete with an automatic low oil pressure engine light & alarm.	YES		NO	
(s)	Tachometer shall be supplied	YES		NO	
(t)	Air filter restriction gauge shall be mounted in the dash	YES		NO	
(u)	Engine hour meter shall be supplied	YES		NO	
(v)	Grab bars on each side to assist easy entry and exit	YES		NO	
(w)	Air Horns - shall be supplied complete with snow shields	YES		NO	
(x)	Muffler to be mounted on the truck frame and not interfere with snow plow equipment. Vertical exhaust stack – chromed – not to protrude past rear corner of cab on passenger side. Stack to have elbow at top. Specify where O.E.M. DPF is located: _____ _____.	YES YES		NO NO	
(y)	The exhaust stack shall have a heat guard for burn protection	YES		NO	
(z)	O.E.M. in-dash AM – FM weather radio shall be supplied	YES		NO	
(aa)	Rubber fender extensions on each front wheel opening to help check road spray shall be supplied. O.E.M. full width lower front ¼ fender mud flaps /guards required to keep road debris off of fuel tank / cab entry steps.	YES YES		NO NO	

(bb)	Inner fender splash guards / sound abatement designed to keep engine area free of road dirt.	YES		NO	
(cc)	The electrical system should be supplied with circuit breakers instead of fuses.	YES		NO	

7. FRAME:

(a)	Rear axle to rear of frame distance approx. 60 in. after frame and verified with body manufacture.	SPECIFY
(b)	Frame shall be supplied as follows:- **Or Equivalent**	

MAKE	FRAME	REINFORCING	MATERIAL YIELD STRENGTH	SECTION MODULUS	RESISTANCE BENDING MOMENT
	14.12x3.06x.312	Double Channel	120,000	30.0	3,300,000
	10 1/2x3 1/2x5/16	10 13/16x3 13/16x5/16	120,000	31.10	3,421,000

Resisting bending moment (Section Modulus x yield strength) shall be 3,100,000 lb. in. min. Section Modulus shall be 28.0 minimum.

SPECIFY	
FRAME SIZE	
REINFORCING SIZE	
MATERIAL YIELD STRENGTH	
SECTION MODULUS	
RESISTANCE BENDING MOMENT 18" FRONT FRAME EXTENSION w/1/4" channel reinforcement.	

(c)	A MTO cross member shall be installed within 10 in. of rear of cab to transfer snow plow wing push to each frame rail. NOTE: MTO x-member to be to MTO drawing.	YES		NO	
(d)	Left side of frame shall be kept clear 90 in. forward of centre of rear axles for the sander spinner assembly.	YES		NO	

8. STEERING

(a)	Power steering shall be supplied with heavy duty dual steering boxes	YES		NO	
(b)	There shall be a filter for the steering fluid and it shall be serviceable without dismantling any power steering components	YES		NO	

9. AXLES

(a)	Front axle shall be 20,000 lb. capacity min.	CAPACITY				lb
(b)	Rear axle shall be 23,000 lb. capacity min. with 31,000 lb. suspension.	CAPACITY				lb
(c)	Rear axle shall use synthetic oil & magnetic oil plug supplied	YES		NO		
(d)	Rear axle shall be single speed with limited slip differential.	YES		NO		
(e)	Front axle: SET BACK – Specify: Distance from front bumper > centre of front axle: _____".	YES		NO		
(f)	Road speed at rated RPM in top gear shall be l00 Km/hr approximately	SPECIFY SPEED				km/hr
(g)	Rear axle ratio	SPECIFY				

10. BRAKES

(a)	Service Brakes - full air brakes shall be supplied with ABS	YES		NO		
(b)	Front brakes, size 16 1/2 x 6 in. min. shall be supplied. S Cam type	SPECIFY TYPE SIZE				mm
(c)	Rear brakes, size 16.5 x 7 in., min. shall be supplied. S. Cam type with two 3030 brake chambers. With long stroke life maxi pots	SPECIFY TYPE SIZE				mm
(d)	Brakes shall be in accordance with MVS 121 U.S. Standards	YES		NO		
(e)	Bendix Westinghouse AD-9 air dryer to be supplied. SPECIFY: _____ Location: _____.	YES		NO		
(f)	**Brake chambers on rear drive axle shall not extend beyond rear tires i.e. inverted**	YES		NO		
(g)	Low Pressure Indicator to be supplied	YES		NO		
(h)	Automatic drain valves with heater shall be supplied to drain moisture from the air tank	YES		NO		
(i)	Alcohol injector to be supplied on the brake system in an accessible location.	YES		NO		

11. WHEELS AND TIRES

(a)	10 bolt Hub Pilot Wheels c/w Teflon Spacer Plate	YES		NO		
(b)	Rims and tires shall be of the tubeless type	YES		NO		
(c)	Front Wheel rim size shall be 22.5 x 12.25 in. Powder coated – Grey.	SPECIFY SPECIFY				
(d)	Front tire size shall be 425/65R x 22.5	SPECIFY				

(e)	Front tires shall be 20 ply Michelin	SPECIFY				
(f)	Dual rear wheels shall be supplied		YES		NO	
(g)	Rear wheel rim size shall be 22.5 x 8.25 in. Powder coated – Grey.	SPECIFY SPECIFY				
(h)	Rear tires shall be 16 ply – Michelin M&S	SPECIFY				

12. PAINT

(a)	Paint shall be YELLOW, PPG HSB945543, DELFLEET SPU9000 Base Clear or approved equal.	YES		NO	

13. FUEL TANK

(a)	80 U.S. gallon (minimum) 'non polished' aluminium tank shall be supplied. **Tank shall not extend beyond rear of cab.** This area may be needed for spinner modifications SPECIFY: gallons	YES		NO	
(b)	Tank shall be mounted on left hand side and shall include a helper step fastened to bottom of tank	YES		NO	

14. LIGHTS & WARNING DEVICES

(a)	Two, fender mounted, 4 in. diameter amber directional lights, facing front	YES		NO	
(b)	Rear red directional lights shall be supplied	YES		NO	
(d)	Five identification streamlined cab lights shall be supplied (LED)	YES		NO	
(e)	Four-way flashers shall be supplied	YES		NO	
(f)	Back-up lights shall be supplied	YES		NO	
(g)	102 DBA back-up alarm	YES		NO	
(h)	Unit to have completely sealed lighting system with corrosion proof and water proof junction box and lamps	YES		NO	
(i)	Individual wires to each lamp, no splicing	YES		NO	
(j)	All wires protected with polyethylene tubing	YES		NO	
(k)	Sealed 7 wire trailer plug wiring to rear of chassis frame with electric brake controller in cab.	YES		NO	
(m)	O.E.M. auxiliary plow wiring harness under hood for plow lights c/w O.E.M. in dash headlight switch.	YES		NO	
(n)	O.E.M. 2 way radio mounting bracket w/power supply and ground.	YES		NO	
(o)	1250 watt plug in block heater – plug in to be located under cab on drivers' side.	YES		NO	

15. WARRANTY AND SERVICE LITERATURE

(a)	Signed Manufacturers factory warranty shall be supplied	YES		NO	
(b)	Shop Manual and Parts Book shall be supplied including Shop Manual for Engine	YES		NO	

NOTE:	This specification lists only the major details of a unit, therefore it is the supplier's responsibility to deliver a fully-equipped vehicle with compatible components to provide dependable efficient service.

16. OPTIONS

CPL automatic lubrication system for chassis and plow equipment. Note: Town wants to approve the location of canister / pump before installation. Groeneveld only.	YES _____ No _____
TRADE-IN: 2009 International – with Viking Proline II – Reversible Viking Poly plow 11ft wing (**Purchasers Discretion**)	YES _____ No _____ Value $ _____ (Refer to page 13)

17. DELIVERY DATE:

(a)	Delivery date of completed unit to the Municipality's Public Works Yard at 124 Luxton Way, Shelburne: _____.	

NOTE:	Complete manufacturer's literature and specifications shall accompany each quotation
	These specification sheets shall be completed and returned with the quotation form
	The unit shall be delivered complete with snow plow equipment as specified in RFP 05-2022.
	Licensing shall be done by the truck dealer and invoiced separately to Town at time of delivery. Annual Inspection Sticker supplied by truck dealer.
	All warranty to start when put into service or licensed by the Town.
	When this truck is being built, all components and accessories must be placed so they will not interfere with each other and situated with the operators' safety and comfort in mind.
	Turning radius profile to be submitted w/bid submission.
	Please include prices for any available options that may be beneficial

SCHEDULE B – SNOW PLOW UNIT

(A) SPECIFICATION

1.	**MAKE**	**MODEL**	
	Viking	**VCL36R1245C**	

POWER REVERSIBLE PLOW

These specifications describe a hydraulic ram reversible snow plow with ultra high molecular polymer moldboard and safety trip edge with torsion style trip springs. YES:_____NO:_____

SPECIFY: MAKE: _____*MODEL:* _____

In the straight ahead bulldozing position it shall be possible to clear an 12' wide path. YES:_____ NO:_____

The plow will be hydraulic ram reversible from 42 degrees right to 42 degrees left allowing the plow to perform at all angles in between. YES:_____ NO:_____

Set at a 35 degree angle the plow will clear a path of 8'-9" wide. YES:_____ NO:_____

A 10 gauge steel backup plate will provide reinforcement for the 3/8" polymer moldboard material. YES:_____ NO:_____

The moldboard height shall be a constant 38" over the entire length of the plow. YES:_____ NO:_____

Moldboard braces shall be of telescopic design. YES:_____ NO:_____

Connection points of the telescope brace to the moldboard, the drive frame to the moldboard, and the hydraulic power angling cylinders to the moldboard and the "A" frame will be fitted with spherical bushings. YES:_____NO:_____

The spherical bushings will provide free oscillation of the moldboard plus or minus a minimum of 30 degrees on each side of its drive points. YES:_____NO:_____

All spherical bushings will be grooved for lubrication and fitted with grease fittings. YES:_____NO:_____

Drive frame will be "A" style, manufactured of 3 1/2" x 3 1/2" x 1/4" minimum square structural tube. YES:_____ NO:_____

Drive frame stiffeners will be ½" minimum. YES:_____ NO:_____

Integral heavy duty self-leveling device capable of keeping the cutting edge parallel to the road surface while in the carrying position regardless of the degree of angle. YES:_____ NO:_____

Push point spacing will be 30 ½" center to center to suit standard push frame. YES:_____ NO:_____

A safety trip edge will provide protection from road hazards. this mechanism will provide a pivoting movement of the blade when hitting an obstacle. YES:_____NO:_____

The trip edge will be designed and manufactured as a one section trip assembly. Multiple sectional trip edges with lock out bolts or pins required for conversion to a one-section trip is not acceptable. YES:_____NO:_____

Hydraulic power angling cylinders(2), 3" base diameter by 20" Stroke to provide reversing action. YES:_____NO:_____

Cylinders to be nitrated and must be 'HARDENED CHROMED'. YES:_____ NO:_____

A crossover relief valve will provide cushion impact protection. YES:_____ NO:_____

Hydraulic hoses will be complete with hydraulic quick disconnects. YES:_____ NO:_____

All steel to be shot blasted, epoxy primed and finish paint to be Medium Gloss BLACK. YES:_____ NO:_____

Drive frame to be complete with QUICK-ATTACH swivel. YES:_____ NO:_____

½" x 12" rubber deflector bolted across top of moldboard. YES:_____ NO:_____

Flag staff on each end of plow. YES:_____NO:_____

Standard ½" cutting edge. YES:_____NO: _____

One curb runner right side VCL. YES:_____NO:_____

One curb runner left side VCL. YES:_____ NO:_____

The plow shall be fitted with two cast steel mushroom push frame shoes. YES:_____ NO:_____

Salt Saver underbody plow VCLUB11FL32
plus Trip Section9'30 degrees743 lbs.2000 lbs.
@ 1000 PSI hydraulic pressure YES:_____NO: _____

CONTROLS AND VALVES

Proportional featherable air controls shall be supplied one for each of the eight valve sections. YES:_____ NO:_____

An air dryer lubricator and air protection valve shall be installed in the air control system. YES:_____ NO:_____

The air control mounting stand will be fully adjustable and located between the driver and passenger seat within easy view and reach of either occupant. YES:_____ NO:_____

Adjustable control stand to be mounted at rear of cab wall on floor between drivers and passengers seats for ease of removing engine cover and to allow more room in cab. YES:_____NO:_____

Hydraulic valves will be sectional stackable. YES:_____NO:_____

The valve stack will include the following six, plus the main hydraulic valve bank for a total of SEVEN. YES:_____NO:_____

Specify N^{o} of Bosch-Rexroth M4 valve sections _____

1 D.A. Plow Lift
1 D.A. Tilt Front Harness
1 D.A. Front of Wing
1 D.A. Rear of Wing
1 D.A. Wing Slide
1 D.A. Reversible Plow
1 S.A. Body Hoist

The valve stack will be mounted back of cab. YES:____ NO:_____

Tandem Dry Mode Front Mount Hydraulic Pumps

1) The hydraulic pump supplied shall be Bosch-Rexroth 71cc variable displacement front mount pump. YES:_____ NO:_____
Specify:
Model:_____Make:_____

2) Pump mounting plate and splined drive shaft shall be supplied. YES:_____NO:_____

3) The pump shall be driven from the crankshaft. YES:_____ NO:_____

4) 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:_____

5) Hydraulic hoses to connect pump shall be supplied. Their size shall be adequate for quick operation of all hydraulic operations and shall be 2 ply braided steel SAE100RS, with swivels on both ends. YES:_____NO:____

6) The drive shaft shall be supplied with spline long enough to allow telescopic retraction of the shaft in order to change fan belt without removing the pump. YES:_____ NO:____

7) Driveshaft to be machined 'balanced' tube driveshaft. YES:_____ NO:____

8) The hydraulic system must be set up so all other hydraulic functions do not " rob " the sander equipment. YES:_____NO:____

9) Single stage one section hydraulic GEAR pumps will not be acceptable. YES:_____NO:____

10) There will be no flow divider valves used to split oil flows between spreader and plow / wing functions. YES:_____NO:____

HYDRAULIC DETACHABLE PLOW HARNESS

Full Hydraulic Detachable Front Plow harness Viking VCL500 HD or equivalent demonstrated to and approved by the Town of Shelburne. YES_____NO_____

Specify Make_____ Model:_____

The harness shall be mounted at the frontend of the frame, and shall be bolted to the cheekplates, YES_____ NO_____

The lifting frame shall be bolted to the push plate and shall be braced to conform with M.T.O. standards. YES_____ NO_____

The front plate will be one solid piece of 3/8" steel plate with cut out of sufficient size to allow cooling of the chassis radiator. YES_____ NO_____

Overall height of the front plate will be 49" with a 5 1/4" 90^0 bend at the top and a 2" 90^0 bend at the bottom. YES_____NO_____

Overall width of the front plate will be 57 1/2" at the top and 40" at the bottom.	YES_____NO_____
Lifting Ram Diameter - 4" minimum	Specify:_____
Lifting Ram Stroke - shall be 10" minimum	Specify_____
Lift ram shall be double acting	YES____NO____
The cylinder rod shall be fully chrome plated.	YES____NO____
Lift or grab link for nose chain shall be 18" minimum	YES____NO____
Drive ears shall be 30 1/2" center to center.	YES____NO____
Plow lift yoke 3/4" steel plate, braced with two 1/4"x2" flat bar diagonal braces.	YES____NO____
Two mounting locations in lift yoke to provide location for mounting of plow hydraulic lift cylinder in winter operation position and stored summer position.	YES____NO____
Mounting plate for plow lift cylinder, lift yoke and lift yoke braces and 1/2" steel plate 100% welded to front plate.	YES____NO____
Lift yoke brace mounting plates positioned to provide minimum 23.5" span	YES____NO____
Height to lower drive connection shall be 19" when mounted, truck empty.	YES____NO____
Cheekplates to match truck frame shall be supplied and shall be compatible for plow.	YES____NO____
Fasteners attaching cheekplates to chassis frame rails will be minimum grade 8N.C. hex head bolts.	YES____NO____
Three grab links shall be supplied.	YES____NO____
Two sealed beam Halogen type headlamps, with high and low beam shall be supplied.	YES____NO____

Spacing and height of headlamps shall be in compliance with ES-401. YES____NO____

Two new turn signals shall be installed in the location shown in ES-401 and the chassis shall be equipped with factory plug in wiring harness. YES____NO____

The wired shall be protected by looms. YES____NO____

The plow lights and signals shall be equipped with "Quick-Tack" ends YES____NO____

The plow and wing front harness to be easily and quickly attachable or detachable as one unit. YES____NO____

When detached it shall reduce the weight of the vehicle and improve operating safety and driving convenience. YES____NO____

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 (cheekplate). The assembly remains permanently with the vehicle even after the female coupler has been detached. YES____NO____

Side (cheek) plates: The side plates are to 1/2" standard and attached to the chassis side rails. YES____NO____

Swing arm: the male swing arm to be rotated on the shaft and the hub ends are to be guided by four anti-friction polymer discs in the mounting bracket. YES____NO____

The swing arm to be operated by two double acting hydraulic cylinders with the following specifications:
Piston diameter - 2 1/2" YES____NO____
Piston rod diameter - 1 1/18" YES____NO____
Stroke - 6" YES____NO____

The rod is to be hard chrome plated and buffed. These cylinders shall permit the front harness to tilt forward by disengaging the top and engaging the bottom hydraulic operated lock pins. The truck hood (cab) can be tilted forward for easy access to the engine without detaching the front harness from the truck. YES____NO____

All cylinders to be hardened chromed. YES____NO____

Hydraulic locking shall be achieved by two double acting, double ended hydraulic cylinders. YES____NO____

One cylinder shall provide upper locking and the other cylinder shall perform the lower locking function. YES____NO____

The lock cylinder control valve shall be a double acting two spool mono block valve. YES____NO____

For safety, the lock cylinder valve shall be mounted in a position to allow the operator visibility of the hydraulic lock pins while performing the lock or unlock function
(front L.H. corner of cab and chassis). YES____NO____

Two independent in cab feather joystick controls will be pedestal mounted inside the chassis cab, one control will operate exclusively the plow lift function and the second control will operate exclusively the hydraulic power tilt function. YES____NO____

Hydraulic hose quick disconnects shall be flush face, no spill, quick couplings. YES____NO____

Hydraulic quick couplers to be supplied and installed complete with protective dust caps and plugs, installed on all hydraulic hoses that will require disconnecting to detach the front harness plow and wing. YES____NO____

All structural steel plate used in the plow harness will be 44W complying with CSA G400.21. YES____NO____

Tensile strength will be 65-90 KSI and the minimum yield strength will be 44 KSI. YES____NO____
Specify Tensile Strength: _____
Specify Yield Strength: _____

All steel prepped and painted Industrial black. YES____NO____

6” sealed beam work light at front of harness off to the side, below halogen headlight, roadside only! Separate marked switch in cab on floor pedestal. YES____NO____

Harness to have two (2) pairs of drive ears 100% welded, spaced at 30 ½” standard centers. YES____NO____

Three sets of plow drive bar connection holes located in drive ears height to lower drive connection 19" mounted with truck empty. YES____NO____

Plow push frame to be attached by means of Quick Attach pockets at drive ears with drop in pins. YES____NO____

Licence plate provision at top of harness on driver's side plus on main main harness cheek when detach removed from chassis in off season. YES____NO____

Cut bumper ends and re-install to chassis. YES____NO____

Upper and lower lock pins valves at front of chassis on drivers' side to be housed in weatherproof Poly Nema 13 box. YES____NO____

VIKING 8" FRONT WING POST ***Specify: Make:_____***

Specify Model: _____

The rear wing slide and 3" dia x 36" stroke D.A. ram shall be on the outside of the rear mast beam, to operate the wing braces. YES____NO____

The design and construction of the wing post shall be in compliance with MTO ES403, or be equivalent design approved by the MTO. Brace "A" ES403 shall be replaced by a second sturdy cross member. This cross-member shall be bolted to both cheekplates. Alternate braces must be approved. YES____NO____

The wing post shall be made of 8" I-Beam, 18.4 lb./ft., minimum. Cross member shall be of heavy construction to sustain snow- plowing operation in severe conditions. YES____NO____

The wing post, when mounted, shall not be higher than the wing tower. YES____NO____

The sheave pin shall be provided with a grease fitting and an Oilite bushing. YES____NO____

A safety stop, limited slide travel shall be supplied. YES____NO____

Lifting cable shall not be mounted to the hinge pin an 8" grab link shall be located halfway between upper and lower position of bolt "D" as shown on ES403. YES____NO____

Front slide shall be provided with a tip-over, arrangement. A spring shall be included to return the blade to normal position

after it has tripped YES____NO____

Bottom of wing post shall be approx. 11" from the ground, truck empty, and shall be protected by a shoe. YES____NO____

A 3" x 30" stroke D.A. cylinder shall be mounted on the inside of the front post and shall operate the front wing slide through 2 (6" dia) sheaves and a cable. YES____NO____

Cross member must be bolted to wing post. YES____NO____

6" overhang shall be left on cross-members to allow lateral movement for mounting the wing post on future trucks. YES____NO____

Guide bars for the slide shall be welded 100% up 2' from bottom. YES____NO____

Design and quality must be approved by the MTO. YES____NO____

The wing post and cross member shall be painted BLACK. YES____NO____

A parts manual shall be supplied with each unit. YES____NO____

12" Grote #12020 convex mirror shall be mounted on extended 10" bracket to back side of post to enable driver to view down the curbside of the truck. YES____NO____

Two (2) 6" front post lights on18" adjustable bracket c/w separate in-cab switches. YES____NO____

Aeon rubber helper spring kit installed to factory chassis springs on curbside to aid in winging operation. YES____NO____

FULL HYDRAULIC SNOW PLOW
REAR WING TOWER

VIKING Model VCL 350SCL ***Specify: Make:_____***

Specify Model: _____

ADDITIONAL MTO X-MEMBER approx. 10" B.C. to be supplied & installed by body builder to compensate for rear wing tower / wing and hydraulics. YES____NO____

The harness assembly shall be of heavy construction to sustain snow plowing operations under severe conditions. YES____NO____

A reservoir of adequate capacity shall be supplied but must not interfere with the operation of the box. Valves shall be installed on outlet lines at the reservoir. YES____NO____

Bottom of wing tower shall be protected by shoe, and shall have a ground clearance of 14" minimum, truck empty**.** YES____NO____

The spacing of the holes in the slides for connecting the wing braces shall be approximately 17". YES____NO___

Approved size of ram controlling the front end of wing shall be 3" dia. x 30" stroke approx. with a cable and sheave assembly. YES____NO____

Approved size of ram controlling the rear end of wing shall be 3" dia. x 30" stroke approx. cylinder, with a cable and sheave assembly. YES____NO____

Approved size of ram controlling wing brace slide shall be 3" dia. x 36" stroke approx. and shall be double acting. YES____NO____

Sealed beam 6" wing light with separate in-cab switch shall be provided. YES____NO____

The wing tower shall be of a heavy construction and bolted to the right side of the truck chassis. YES____NO____

Wing tower shall be of 10" channel construction with a 25 degree offset and its mountings shall be sufficient to sustain snow plowing operations under severe conditions. YES____NO____

One pipe brace 2 ¾" diameter shall connect the bottom of the wing tower and the truck chassis near the forward mount of the right rear springs to reduce the shock of the truck frame. YES____NO____

The rear wing tower shall be heavily braced and gusseted to the frame cheekplate. YES____NO____

For maximum strength two channels shall be used to form a triangular support integral with the rear post. YES____NO____

The first channel shall be 4" x 66 ½" 13.8 lb/ft slopping diagonal brace. YES____NO____

The second channel shall be 4" x 40" 13.8 lb/ft horizontal brace bolted to the chassis rails and welded to the brace box. YES____NO____

Two triangular stiffeners shall be incorporated into the assembly. YES____NO____

To provide additional support the oil reservoir shall act as an auxiliary support post. YES____NO____

The 35 U.S. gallon oil reservoir shall be integral with the rear post assy. YES____NO____

Hydraulic hoses shall connect the rams of the tower with the valves in the control box. Hoses shall be two ply braided steel, SAE100R2 with swivels on both ends. YES____NO____

All sheave pins shall be provided with oil impregnated bronze bearings and grease fitting. YES____NO____

A safety chain shall be provided for securing wing when not in use. YES____NO____

Guide bars to contain the rear wing slide shall be welded 100% from the bottom up 2 feet. YES____NO____

6" wing light w/in-cab switch. YES____NO____

Two (2) adjustable needle valves B.C. to allow operator to be able to change speed of wing function modes. YES____NO____

Tower assembly to be prepped and painted BLACK. YES____NO____

Parts manual. YES____NO____

All cylinders to be HARDENED CHROMED. YES____NO____

12' STANDARD WING

Viking VCL 144WHD 12' standard wing cylinder in compliance with the following specification and approved by The Municipality.

MAKE:_____ MODEL:_____

The inside height of the wing shall be 29" minimum. YES____NO____

The outside height of the wing shall be 39" minimum. YES____NO____

Overall length of the wing shall be 12 feet. YES____NO____

The thickness of the moldboard shall be 10 U.S.S. Ga. (.1345), minimum. YES____NO____

Two drive ribs for connecting the wing brace shall be provided. YES____NO____

The drive ribs shall be located approximately 7’2” and 8’8” from the nose end of the wing. YES____NO____

The plate for mounting the wing to the wing post shall be 1” thick. YES____NO____

The mounting hole shall be far enough from the edge of the plate to avoid failure in this area. YES____NO____

Lower wing angle shall be 6” X 4” X ¾”. YES____NO____

The mounting of the nose end of the wing to the wing post shall be by means of a hinge and rectangle spring, to allow tipping over the wing. YES____NO____

Two adjustable wing braces shall be supplied. YES____NO____

The upper brace shall be of a stock release type, including a spring retraction. The spring shall provide adequate stability of the wing in normal operating conditions, and shall retract the wing from tip-over position. YES____NO____

The distance between the center of the mounting holes of the wing braces shall be as follows: YES____NO____

Upper brace – Extended 90” C.C. YES____NO____

Collapsed 60” C.C. YES____NO____

Extended distances shall be measured with spring fully retracted. YES____NO____

Lower brace – Extended 88” C.C. YES____NO____

Collapsed 58” C.C YES____NO____

One spare pin for adjusting the wing braces shall be supplied with each brace. YES____NO____

The wing shall be fitted with the following: YES____NO____

One wing HIGH WEAR blade in lieu of standard ½” cutting edge.
One wing shoe M.T.O. ES-509 YES____NO____

The top edge of the wing shall be boxed in and welded 100% to the ribs and the moldboards so as to avoid all pockets. YES____NO____

Wing prepped and painted Medium Gloss BLACK. YES____NO____

One 36” ORANGE plow marker mounted @ rear of wing. YES____NO____

Conspicuity safety tape on wing trip arms and on rear edge of wing. YES____NO____

Hydraulic Controls

1. Bosch-Rexroth M4 closed loop hydraulic control valves. YES____NO____

2. To prevent corrosion the air shifters will have a bronze sleeve. YES____NO____

3. The control valve will include the following
   7 Bosch-Rexroth M4 sections: YES____NO____
   1 D.A. Plow Lift
   1 D.A. Tilt Harness
   1 D.A. Reversible Plow
   1 D.A. Front of Wing
   1 D.A. Rear of wing
   1 D.A. Wing brace
   1 S.A. Body Hoist

4. The hydraulic control valves will be operated by proportional featherable in cab air controls. YES____NO____

5. The control panel assembly shall be of a remote design pedestal mounted and adjustable. YES____NO____

6. An oil reservoir of adequate capacity shall be supplied complete with oil filter oil level sight gauge, breather type filler cap, drain plug and oil ball valve shut off. YES____NO____

7. The complete valve stack assembly will be mounted vertically on a ¼" mounting plate, integral with the rear wing tower assembly in a powder coated Bosch-Rexroth all weather control box. YES____NO____

8. The valve mounting plate will be welded to the horizontal channel and sloping diagonal brace. YES____NO____

9. The valve assembly will be completely open and easily accessible from the drivers side of the chassis for washing and maintenance. YES____NO____

In-cab proportional featherable joystick air controls function labeled. YES____NO____

An air dryer / lubricator and protection valve will be installed in the control system. YES____NO____

The air control mounting stand will be pedestal type, fully adjustable, located between the driver and passenger seat within easy view and reach of either occupant. YES____NO____

Weather proof screw down filler /breather cap with fine mesh screen and hand clean out. YES____NO____

A removable magnetic trap shall be supplied YES____NO____

The oil return port will be fitted with a diffuser to prevent turbulence and foaming of oil on the inside of the reservoir. YES____NO____

Oil filter with 25 micron spin on element rated at 50 G.P.M. nominal capacity installed in the return line ahead of the reservoir, complete with oil condition indicator gauge. YES____NO____

Oil level and temperature gauge. YES____NO____

Low hydraulic oil level indicator w/ in cab warning light and buzzer. YES____NO____

Oil shut off ball valves YES____NO____

Hydraulic hoses 2 ply braided steel SAE 100RS, swivels both ends, tied supported to eliminate sag, properly routed and protected to eliminate abrasion. YES____NO____

Aeon 5,000 lb. capacity rubber helper spring kit installed to R.H. factory front chassis springs. YES____NO____

Grote 6" wing light with in-cab switch. YES____NO____

All steel will be shot blasted, epoxy primed and top quality BLACK finish, paint electrostatically applied. YES____NO____

ALL SEASON COMBINATION DUMP BODY / SPREADER

PROLINE2 1112 LW

General

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 chassis frame mounted with spreader discharge on the front, left side (driver's) of dump box. YES____NO____

The spreader body offered by the bidder under this specification shall be the manufacturer latest model standard commercial product and shall YES____NO____

have demonstrated and proven industry acceptance by having been manufactured and sold in significant numbers to Municipalities and Contractors, and shall be proven in service for at least one year prior to issuing of this RFP document.

The bidder if requested must be able to provide name and contact information of a least five Municipalities who currently own and operate the same make and model of spreader body that the bidder is offering in the RFP submission. YES____NO____

Viking Model PL1112LW approved by the Municipality

YES____NO____

SPECIFY: _____

MAKE: _____

MODEL: _____

Demonstration

The bidder will arrange a working demonstration of any unit offered as an approved equivalent at the municipality's location prior to the RFP closing date. YES____NO____

Dimensions

To provide optimum combination of legal payload and capacity all dimensions below are maximum / minimum and will be exactly as specified. YES____NO____

Body shall be oval shaped, permitting materials to unload by gravity flow into spreading chain. YES____NO____

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 5450lbs. **SPECIFY: _____lbs.**

Capacity

Water level capacity will be 6.6 cu. yd.

SPECIFY: _____

Water level capacity with 10" sideboards will be 9.0. cu., yd.	YES____NO____
Outside length 12'.	YES____NO____
Inside length 11'.	YES____NO____
Overall width outside 96"	YES____NO____
Overall width inside 86"	YES____NO____
Height of sides 38" from conveyor floor.	YES____NO____
Height of tailgate 46" from conveyor floor.	YES____NO____
Height of front panel 53 inches.	YES____NO____

Construction

Body shall be one piece construction for both the head board and side panels.	YES____NO____
The front head of the body will be completely clean and clear of any type of recesses or protrusions into the body including hoist doghouse, bulk-heads, etc.	YES____NO____
Body front panel will be designed to slope from the cab shield rearward down to the conveyor floor at 22 degrees from vertical.	YES____NO____
The front panel slop will be continuous and uninterrupted for the full length from top to bottom.	YES____NO____
Top rail of body will be 4" x 4" x 1/4" rectangular tubing.	YES____NO____
All body welds will be 100% continuous inside and outside.	YES____NO____
Body front head 3/16" Cor-ten "A"	YES____NO____
Body sides 3/16" Cor-ten "A"	YES____NO____
Rear vertical corner posts will be 10 ga. sheet steel, fabricated in such a	YES____NO____

way as to include provision for rear facing lighting requirements.

Rear vertical corner-posts to be tied to radius side panels and horizontal 3" x 8" x 3/8" wall HSS tube spanning the full body width. YES____NO____

Body construction shall include integral side fenders fabricated from a minimum 10 GA Cor-ten A corrosion resistant material. YES____NO____

Fenders shall be full length from front to rear of body. YES____NO____

One fender right side and one fender left side shall be integral with body. Integral fenders will fully enclose and protect optional chassis frame mounted on-board liquid storage tanks minimum capacity of 95 U.S. gallons each tank for total 190 U.S. gallons. YES____NO____

Integral fenders to be sloped away from unit to prevent any excess material spilled during loading from building / piling up. YES____NO____

Dump box access ladder shall be 15" wide, two piece fold-up ladder located at the rear curb side of body. YES____NO____

Access ladder will be manufactured from safety grip strut material. YES____NO____

Hoist

Mailhot Nitride top lift 3 stage telescopic hoist "C" series Model CS-94-5-3. YES____NO____

Hoist lift cylinder to be forward mounted three (3) stage top lift telescopic. YES____NO____

Hoist capacity shall be 20 ton @ 2,000 P.S.I. YES____NO____

Hoist cylinder will be rod sealed. YES____NO____

Special Mailhot coating to provide protection to hoist seals in spreader position. YES____NO____

Cylinder stroke shall be 94". YES____NO____

Dump box dump angle shall be variable to 50 degrees from horizontal. YES____NO____

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____

Rear hinge diameter shall be 2 ½". YES____NO____

Hoist control valve shall be air operated from inside cab. YES____NO____

The body to be equipped with a positive locking support brace integral with rear dump hinge. YES____NO____

Tailgate

Tailgate shall be double acting. YES____NO____

Tailgate height shall be 46" from conveyor floor. YES____NO____

Upper hinge plates to be offset design flame cut from 1" steel plate. YES____NO____

Tailgate shall be rectangle shaped to allow use of asphalt or stone chip spreader. YES____NO____

Construction shall be of 3/16" Cor-Ten "A" steel with 3/16" formed cross bracing. YES____NO____

Ext. vertical side support tubes to be 3 ½" x 3 ½" x ¼" wall HSS tubing YES____NO____

Latch mechanism for the tailgate shall be air trip using two air pot chambers actuated from inside cab. YES____NO____

Brake chambers directly coupled to ½" thick flame cut latches. YES____NO____

Brake chambers one right side one left side enclosed and protected by integral body fenders. YES____NO____

Spreader chains and brackets shall be supplied on tailgate and rear apron. Chain shall be grade 70 coil proof 3/8" minimum. YES____NO____

Main Conveyor

The main conveyor shall be centered and recessed along the length of dump box floor. YES____NO____

Three-piece formed construction minimum 25" wide. YES____NO____

Constructed of ¼" Cor-ten "A" YES____NO____

Conveyor floor ¼" Hardox 450 YES____NO____

The protective covers will run from the front to the rear of the body right and left side of the main conveyor. YES____NO____

The protective non-removable main conveyor link covers will cover and protect the main conveyor chain links from damage by impact at all times YES____NO____

in all operation modes.

In addition to the permanent non-removable main conveyor chain link covers a removable conveyor chain cover will be supplied. YES____NO____

The removable cover will protect the main conveyor floor and conveyor chain cross flights from damage by impact when installed. YES____NO____

The removable main conveyor cover will be manufactured from 3/8" 2 ply high temperature rubber. YES____NO____

The removable main conveyor will self-feed into place to allow fast and simple installation. YES____NO____

Self-feeding will be achieved by simply attaching the conveyor cover to a main conveyor chain cross flight at the tailgate (idler end), starting the main conveyor will pull the cover into place under the permanent non removable protective steel chain link covers. YES____NO____

The removable rubber cover will be complete with attachment brackets to couple easily and directly to main conveyor chain cross flights. YES____NO____

Removal of the rubber conveyor cover from the body will be accomplished by starting the main conveyor, which will then feed the cover out through the front material discharge gate. YES____NO____

Installation and removable of the rubber main conveyor cover into or out of the spreader body will be a one man operation. YES____NO____

Conveyor chain to be self-cleaning D667 pintle type with an average tensile strength of 21,700 PSI, spaced apart 21" on center. YES____NO____

3/8" x 1 ½" cross flights welded to every 2nd link (approx. 4.5" spacing). YES____NO____

All conveyor flights shall be 100% fully welded to the chain links. YES____NO____

Drive and idler shafts to be two (2) inches diameter. YES____NO____

Drive and idler shafts manufactured from high-resistance stress proofed SAMSON 100. YES____NO____

Drive and idler sprockets to be minimum eight-tooth cast steel. YES____NO____

All drive and idler sprockets to be minimum C1030 cast steel. YES____NO____

Main conveyor drive shall be a single 25:1 high efficiency planetary drive with high torque low speed motor. YES____NO____

The planetary drive shall deliver 34,518 IN/LB peak torque with 24,750 IN/LB continuous. YES____NO____

Planetary drive close coupled to main conveyor shaft. YES____NO____

Specify make and model of planetary:

MAKE: _____

MODEL: _____

Connection of the planetary drive shaft to the main conveyor shaft shall be accomplished via s split two piece rectangular shaped coupler assembly. YES____NO____

The upper and lower half of the coupler assembly will be bolted together by (4) 5/8" x 4 ½" N.C. Grade 8 Hex Head bolts. YES____NO____

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____

The two main conveyor drive shaft flange bearings will be bolted directly to the body long sill weldments. YES____NO____

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____

Idler end of main conveyor will also be vertical slotted drop out design as described above. YES____NO____

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. YES____NO____

The fully automated chain tensioner will eliminate the requirement for any manual chain tension adjusting mechanisms such as conventional threaded rod and nut tensioners or hydraulic grease ram tensioners. YES____NO____

Automated chain tensioning system to be centrally located between main YES____NO____

conveyor drive and idle shafts.

Access to automated conveyor chain tensioning system shall be from the side(s) of the body. YES____NO____

The flow control gate between main and cross conveyor shall be screw adjustable by hand crank from driver's side of dump body YES____NO____

The main conveyor flow control gate, will be flush and even with the front of the body, without any type of recess. YES____NO____

Underside of main conveyor to be complete with full length poly guard to prevent material spillage on to chassis components and frame rails. YES____NO____

Cross Conveyor

The cross conveyor shall be hydraulic direct drive via a single reversible 11.9 cu. in. hydraulic motor controlled by a 12V solenoid valve with in cab toggle switch. YES____NO____

A cross conveyor assembly shall be used to discharge material from main conveyor to the either left hand or right hand of chassis sides. YES____NO____

Cross conveyor assembly to mount on chassis frame independent from and in front of main combination spreader unit. YES____NO____

Cross conveyor unit shall be removable design to reduce added weight in non-spreading applications. YES____NO____

Cross conveyor weldment shall be fabricated from a minimum 3/16" Cor-Ten A corrosion resistant material. YES____NO____

Cross conveyor belt to be fabricated from 3/8" thick, 2 ply, 12" wide by 121" long molded, seamless conveyor belting. YES____NO____

Belt shall be positive drive to eliminate slippage. YES____NO____

The cross conveyor belt shall have a high temperature, asphalt application option available. YES____NO____

Cross conveyor assembly to include replaceable steel guards to prevent material from entering under belt or spilling off conveyor. YES____NO____

Cross conveyor assembly to include 4 poly runners to maintain an even belt surface, preventing material from getting under belt. YES____NO____

Cross conveyor assembly shall have snub rollers constructed with high YES____NO____

temperature, low stick, 2.5" diameter by 2.0" poly rollers, to reduce material build up under conveyor.

Cross conveyor assembly shall come with external, quick coupler wash-out connection. YES____NO____

Cross conveyor assembly shall include 5 external, greaseable flange bearings and 2 external, greaseable take up bearings YES____NO____

Cross conveyor assembly shall include 8 external grease fittings for application of grease to all bearings. YES____NO____

Cross conveyor assembly to provide provisions for mounting of material sand/salt chutes and spinner units. YES____NO____

Spinner

A polyurethane spinner with anti-coning device and spinner guard and poly chute plus fold down windrow salt chute shall be installed on left hand side (driver side) to spread ahead of rear wheels. YES____NO____

A 3.0 cu. in. hydraulic motor shall drive the spinner assembly

Specify: _____

The spinner height shall be adjustable from 20 to 28 inches below the mounting surface of the body. YES____NO____

The spinner height shall be capable of spreading evenly up to a 20 FT radius within main operating range of 0 to 15 FT radius. YES____NO____

Spinner assbly discharge rate from 100 lbs/lane mile - 2,500 lbs/mile. YES____NO____

Spinner position adjustable fore and aft horizontal along chassis frame rail. YES____NO____

Spinner assembly will be flip up style allowing the spinner to be carried in an on board stored raised position. YES____NO____

Hydraulic hoses to the spinner motor are to be complete with quick disconnect automated sealing breakaway couplers and are to be assembled so that the male end plug into the female end on the spinner motor and the hoist frame when the spinner assembly is disconnected. YES____NO____

Lighting

For improved rear visibility provision for rear lamps, stops, tails, directional and back up lights to be mounted in rear corner posts within 3" of the outside of the tailgate shall be provided. YES___NO___

3 in a row light cluster shall be supplied with mounting plate integral with dump hinge. YES___NO___

2" round red side clearance lights provided in lower rear side corner posts. YES___NO___

Mud flaps

Mud flaps shall be provided fore and aft of rear wheels, frame mounted via full width steel flat bar. YES___NO___

Paint

The dump body shall be shot blasted and epoxy primed. YES___NO___

YES___NO___

Finish paint Dupont Imron Elite polyurethane

Specify: Paint Manufacturer:_____

Paint Type:_____

Finish paint to be baked on

Asphalt Door

Asphalt door in tailgate with 14" x 25" dimensions. Cantilever handle offset to curb side to operate the sliding door. YES___NO___

Load Cover

An air tarp shall be supplied with fabricated tarp arms dimensions of 1 ½" x 2 ½" steel tubing, 1/8" mesh tarp, powered by twin air cylinders operated from in the cab.

Specify Arm Dimensions _____

Lighting and Wiring

Box lighting kit to include stop, tails, turn signals and back up lights. YES___NO___

All box lights will all be light emitting diode (LED) YES___NO___

Lights and wiring shall be completely sealed with corrosion and vapor proof lamps and junction box. YES___NO___

Strobes to be provided, one blue and one amber in upper rear body corner posts, right side and left side. YES___NO___

Body cab shield mounted blue beacon light with amber lens or two beacon lights for blue and amber separately switched in cab. YES___NO___

6" spinner light to be included. YES___NO___

Auxiliary lighting will plug directly into chassis O.E.M. connection cutting splicing soldering or shrink tubing of connection is not acceptable. YES___NO___

Specify: _____

The body operation shall be powered by the existing hydraulics of the snow plow truck harness. YES___NO___

All fittings, valves, hoses and drive shaft shall be supplied and installed. All hoses shall be equipped with swivels on both ends. YES___NO___

The hydraulic reservoir shall be of sufficient capacity to supply necessary oil supply. Reservoir must NOT interfere with the box installation. YES___NO___

All hydraulic hose 100R16 with half bend radius of standard 100RS hose. YES___NO___

Specify: _____
Make: _____
Model: _____

A combination sight/temperature gauge to allow easy checking of the hydraulic oil level in the reservoir shall be supplied. YES___NO___

A combination sight / temperature gauge to allow easy checking of the hydraulic oil in the reservoir shall be supplied. YES___NO___

Pintle hook plate and frame reinforcing rated at <30,000 MGTW c/w 2 safety chain loops. Holland PHT100A spring mounted pintle hook rated @ 20,000 MGTW installed at
____" lunette height (level ground to center of hook).

YES__NO___

Relocate O.E.M. 6 wire electrical plug @ rear of chassis into face of pintle hook plate

YES___NO___

Optional Equipment:

1). Chassis mounted ALUMINUM fenders.

$_____

2). Chassis – dump body to be CROWN rust proofed by O.E.M. Ontario plow equipment builder prior to completed unit being picked up by truck dealer.

$_____

3) 12" Wing Viking Model VCL144WHD - Metro general complete with dismount stand or floor support.

$_____

4) DiCan model DCW-12AB back-up camera system w/7" colour screen, heater and washer spray.

$_____

SCHEDULE C – PRICING SUMMARY

This quotation for the supply of ONE new **Single Axle Cab & Chassis Snow Plow Unit** is submitted by: _____

in accordance with the accompanying specifications.

I/We hereby propose and agree to supply the unit(s) for the following quotation price**:**

	Pricing Summary
Schedule A – TRUCK	$
Schedule B – SNOW PLOW UNIT	$
Air Conditioning Tax	$
Less Trade In Allowance (if applicable)	$
13 % H.S.T	$
TOTAL QUOTATION for 1 complete unit (truck and plow equipment / combo sander body) delivered to our Town Works Dept. yard.	$

RFP 05-2022
Single Axle Cab & Chassis Truck

The Company by this RFP offers to complete this Contract in accordance with the terms contained at the Total Bid Price of:

RFP:

PW-_____ Cab and Chassis complete with: *$_____. _____*

PW-_____ Combination Spreader / Dump w/Snow & Ice Removal Equipment *Figures*

_____ *dollars and* _____ *cents*
Words

Dated at _____ *this* _____*, day of* _____*, 2022.*

Signature of Authorized Person: _____

Signature of Witness: _____

_____

Name and SEAL of Company

The Above RFP is Hereby Accepted

Dated at _____ *this* _____*, day of* _____*, 2022.*

_____
Clerk

REFERENCES

List five (5) Municipalities who have been using the combination U-body/spreader offered in this RFP for a minimum period of one year

	Name of Municipality	Contact Name	Length of time Combination U body in service for	Specify model # of Comb. U Body Owned	Phone #
1					
2					
3					
4					
5					