

**Corporation of the  
Township of Southgate  
185667 Grey Road 9  
Dundalk, Ontario  
N0C 1B0**



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[info@southgate.ca](mailto:info@southgate.ca)**

Appendix D

## **Bid Response – Equipment & Vehicle Purchases**

**Equipment:** New 2026 Single Axle Plow Truck (Automatic) (Diesel) - one 48,000 lb. G.V.W Cab and Chassis

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Name of Company

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Address

Telephone #

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Name of Person with Signing Authority

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Position of Person with Signing Authority (Please print using ink or type)

Bid documents received at:

**Township of Southgate  
[tenders@southgate.ca](mailto:tenders@southgate.ca)  
Attn: John Watson  
185667 Grey Road 9,  
Dundalk, Ontario N0C 1B0**

**Township Contact/Project Liaison:** Paul Stevenson

**Email address:** [pstevenson@southgate.ca](mailto:pstevenson@southgate.ca)

### **Notice to Bidders Regarding this Document**

Contractors are advised to carefully read the clauses in this document as a Contract Agreement and confirm acceptance of same with approval below:

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Witness

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Signature of Signing Authority

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

# Instructions to Bidders - Equipment & Vehicle Purchases

## Project Information

Electronic tenders document clearly marked "**17 - New 2026 Single Axle Plow Truck (Automatic) (Diesel) - one 48,000 lb. G.V.W Cab and Chassis**" must be addressed to the following:

**tenders@southgate.ca**

Attention: John Waston

185667 Grey Road 9,

Dundalk, Ontario N0C 1B0

**Submission deadline is May 7, 2026 at 2:00pm**

## Scope of Equipment Requirements

The intent of this bid is to Purchase a new 2026 Single Axle Plow Truck (Automatic) (Diesel) - one 48,000 lb. G.V.W Cab and Chassis

## Equipment Delivery Location

Location: Dundalk Depot

Address: 75 Dundalk St

Address: Dundalk ON PC: N0C 1B0

## Township Contacts

Any questions or concerns arising out of this procurement document, should be addressed to:

Name & Title: John Watson Public Works Manager Roads & Waste

Phone: 519-923-2110 x:250

Email Address: jwtatson@southgate.ca

All questions and requests for interpretation or clarification are to be made in email to John Watson and shall use the subject line:

"17 - New 2026 Single Axle Plow Truck (Automatic) (Diesel) - one 48,000 lb. G.V.W Cab and Chassis".

## **Proposal Opening**

The opening of the submissions shall commence just after 2:00pm on May 7, 2026 unless the CAO or designate acting reasonably postpones the start to some later hour, but the opening shall continue once started, until the last bid is opened.

The opening will be held virtually, please use the following link to access the opening.

### **Zoom Meeting Link:**

<https://zoom.us/j/91019736171?pwd=cXGstLffZYKrFb958ftbo38kcs3Qj3.1>

Meeting ID: 910 1973 6171

Passcode: 184411

### **Project Timelines**

The Township of Southgate approximate project timelines are as follows:

- i. Procurement Closing date: May 7, 2026
- ii. Commencement of Bid Evaluations: May 8, 2026
- iii. Recommendation to Council for Approval: May 20, 2026
- iv. Notification of Successful Contractor: May 21, 2026

### **Payment Terms**

Each bid proposal shall provide a payment terms based on the bid price submitted for the equipment related to deposits and delivery payment schedule.

## **General Conditions – Equipment & Vehicle Purchases**

### **Extent**

The Contractor shall be liable for all costs of providing the equipment as specified, delivery, accessories, options and documentation materials as part of the bid proposal.

### **Contractor's Responsibility**

Upon notification of acceptance of the contract and before the final approval of the equipment order confirmation, the contractor must provide the Township of Southgate with an acceptable delivery schedule.

### **Protection of Property**

The Supplier will be responsible for any damage that may occur relative to the equipment until delivery to the Township location and staff inspection and final acceptance. Any damage done to Southgate's or surrounding property must be made good to the satisfaction of Southgate.

### **Applicable Legislation**

- A. The Contractor shall comply with all applicable Provincial and Federal legislation and regulations, including the Occupational Health & Safety Act and pertinent Southgate by-laws.
- B. Municipal Freedom of Information and Protection of Privacy Act – Any personal information provided in this document will be used for selection purposes only as per the Municipal Freedom of Information and Protection of Privacy Act.
- C. Accessibility for Ontarians with Disabilities Act, 2005 – The successful contractor must follow the Township of Southgate Accessible Customer Service Policy under the AODA, 2005 and provide proof that training requirements have been met.

### **Termination**

If, at the discretion of the Township of Southgate, there is default by the Contractor of any of the terms contained herein, Southgate shall have the right to terminate the contract upon giving the Contractor twenty-one (21) days notice to address the concerns or issues to successfully complete the project.

Upon termination of the contract, the balance of the contract price shall be forfeited.

### **Acceptance or Rejections**

- Lowest or any Bid proposal is not necessarily accepted.
- All Bid proposals must provide pricing for each of their submissions.

Southgate reserves the right to award the equipment purchase to the contractor with the best proposal for the Township of Southgate. Southgate also reserves the right to reject any or all bids or award the contract to other than the lowest bid received, if in Southgate's opinion, it is in the best interest of the Township.

### **Proposals to Include**

- a) Description of Firm - Firm's brief history with highlights of services provided.
- b) Curriculum Vitae/Experience - An outline of qualifications and experience of the company related to service quality, response time, reliability/uptime guarantees, equipment maintenance and part availability.
- c) Equipment Features - A description of the equipment, specifications, ergonomics, options and inclusion of a feature's analysis comparison.
- d) Equipment/Delivery Schedule - An outline of the approach proposed to meet the requested schedule(s).

## **Evaluation and Selection – Equipment & Vehicle Purchases**

### **Selection Process**

Proposals will be assessed based on information provided by the Respondent at the time of submission. The evaluation of Proposals will be conducted by an Evaluation Committee comprised of staff members from the Township of Southgate. The Evaluation Committee reserves the right to interview and facilitate presentations in order to gain additional detail outside of the proposals received.

### **Evaluation Criteria**

Proposals will be assessed against the following criteria. The Township reserves the right to shortlist firms for further evaluation and interviews which may alter the final scoring results. Proposals will be scored based on meeting or exceeding the expectations of the established evaluation criteria.

	<b>Evaluation Criteria</b>	<b>Weight Factor</b>
1.	Qualifications and Experience of Company	10
2.	Design of Equipment and Features	20
3.	Delivery Schedule	10
4.	Equipment Cost	50
	Total	100

**Note:** Weight factors may be changed based on the type of procurement process, the type or items being purchased and the importance of pricing versus other evaluation criteria.

The Township reserves the right to reject any or all proposals. The Township also reserves the right to not proceed with the equipment procurement without stating reason thereof.

Selection of a proposal(s) will be based on all the above criteria and any other relevant information provided by the Respondent(s).

All proposals are to be submitted with the understanding that the selection of a proposal for discussion by the Evaluation Committee shall not thereby result in the formation of a contract. Nor shall it create any obligation on the Township to enter further discussions.

Respondents shall include in their proposal a minimum of three (3) project references demonstrating these attributes, preferably in projects of a similar equipment use to that specified herein. The equipment procurement will be awarded to the respondent who, in the sole judgment of the Township, provides the best overall value. The Township will not be obligated to select the lowest cost or any proposal.

The Township reserves the right to conduct reference checks on the Respondents, the results of which may affect the award decision. The Township reserves the right to negotiate equipment features and attachment requirements with the awarded supplier. These negotiations may affect the price proposal.

**Part A – SINGLE AXLE CAB & CHASSIS COMPLETE WITH EQUIPMENT**

Item	Description Requirement	Compliance (yes / no)
<b>GENERAL</b>		
1.	This specification (Part A) covers a NEW and unused 2026 OR demonstrator unit with limited hours, single axle cab and chassis suitable to be fitted with a Bi-Directional snowplow, wing assembly and a combination sander/dump body as specified in Part B. If demonstrator unit, indicate number of hours: _____	
<b>MAKE</b>		
2.	Specify: Make-	
3.	Specify: Year-	
4.	Specify: Model-	
5.	Conventional Air Ride Cab	
6.	Wheelbase to suit Cab & Chassis with Equipment mounted	
<b>WEIGHT CLASS</b>		
7.	Minimum Manufacture GVWR of 48,000 lb.	Specify: lbs.
8.	Estimated tare chassis weight before body equipment install	Specify: lbs.
<b>ENGINE</b>		
9.	Diesel Engine shall be Detroit Diesel, Specify:	
10.	Specify: Model-	
11.	In-line 6-cylinder, four stroke, wet sleeve, fully electronic controlled	Specify:
12.	Displacement – minimum 9 liters	Specify: Liter
13.	Electronic engine cruise control	Specify:
14.	Torque – minimum 1,000 ft.-lbs.	Specify: ft.-lbs.
15.	Horsepower – minimum 330 hp	Specify: H. P

16.	Engine shall meet or exceed emission requirements as of the date of manufacture:	Specify:	
17.	Dash mounted driver message center capable of alerting driver to engine electronic faults	Specify:	
<b>ENGINE EQUIPMENT</b>			
18.	Heavy duty dry element type air cleaner –	Specify:	
19.	Dual air engine intake with driver-controlled dash switch (snow valve)	Specify:	
20.	Air restriction indicator with dash warning light	Specify:	
21.	Radiator coolant – Extended life anti-freeze – 40 degrees	Specify:	
22.	Premium rubber radiator and heater hoses	Specify:	
23.	Fan Clutch – on/off automatic temp controlled on/off fan clutch	Specify:	
24.	Exhaust System – R.H. horizontal muffler with chrome vertical tailpipe to exit above cab and bright stainless steel muffler tailpipe guard; 90-degree turnout elbow, chrome heat shield guard for tailpipe	Specify:	
25.	Exhaust pipe to run under the frame if protruding B.O.C.	Specify:	
26.	Exhaust stack to be no higher 12" above top of box	Specify:	
27.	Heavy Duty spin on Fuel/Water Filter – engine mounted	Specify:	
28.	Spin on engine oil filter	Specify:	
29.	Air Compressor – (minimum 13.2 CFM)	Specify:	
30.	Low coolant level indicator with audible alarm	Specify:	
31.	Block heater/Fuel heater with one, 120-volt chrome receptacle under driver's door	Specify:	
32.	Front crankshaft adaptor for install of body builders front mount pump	Specify:	
33.	Engine Brake	Specify:	
<b>Note:</b> radiator clearance required for front mount pump drive shaft			
<b>TRANSMISSION: Automatic</b>			
34.	Transmission to be Allison 3500RDS automatic with PTO provision	Specify:	
35.	Oil level sensor	Specify:	

36.	Independent transmission speed sensor with A.C. or D.C. output to be used with computerized sander unit	Specify:	
37.	Oil cooler, automatic transmission water to oil cooler	Specify:	
38.	Transmission oil temperature gauge	Specify:	
38.	Transmission to be in cab push control, ergonomically located to operator	Specify:	
39.	Transmission oil Synthetic	Specify:	
40.	Spare input / output for rugged duty series	Specify:	
41.	5-year extended warranty on transmission	Specify:	
42.	PTO Switch – dash mounted including electric over air solenoid, piping and wiring	Specify:	
43.	Heavy Duty Driveshaft	Specify:	
44.	Heavy Duty Transmission Cooler	Specify:	
<b>FRONT AXLE</b>			
45.	Capacity – 22,000 lb. front axle rating complete with shock absorbers.	Specify:	
46.	Spring bushings will be graphite bronze bushing with seals	Specify:	
47.	Front springs capacity at ground of 11,500 lbs. each side minimum	Specify:	
48.	Aeon rubber helper spring kit installed to RH and LH factory front chassis spring to provide for plow and weigh weight support	Specify:	
49.	Steering –dual power steering boxes (RH assist ram not acceptable)	Specify:	
50.	Synthetic wheel bearing lube	Specify:	
51.	A set back front axle is not acceptable. Front bumper to centre line of front axle distance shall be 890 mm/35" maximum	Specify:	
52.	Wheel bearings will be oil bath type c/w see through covers	Specify:	
<b>REAR AXLE</b>			
53.	Capacity – minimum 26,000 lb axle rating.	Specify:	
54.	Rear shock absorbers shall be supplied		
55.	Rear axle will be, single speed with driver controlled inter-axle differential lockout, with "no spin" in rear axle or driver-controlled traction lock up in rear/rear axle	Specify:	
56.	Synthetic lube with magnetic rear axle drain plug	Specify:	

57.	Rear Axle – Rockwell, Spicer or acceptable equivalent	Specify:	
58.	Road speed in low gear at maximum torque RPM shall not exceed 8km/hr.		
59.	Top Speed at maximum engine governed speed shall be 105 km/hr	Specify:	
<b>REAR SUSPENSION</b>			
60.	Rear suspension at ground will be 13,000 lbs each side minimum with helper spring	Specify:	
61.	Rear suspension to be 30,000 lbs capacity, flat leaf with help and radius rod locator	Specify:	
<b>BRAKES</b>			
62.	Size – Front 16.5” x 6”, includes long stroke chambers with front automatic slack adjusters and dust shields	Specify:	
63.	Rear - 16.5” x 7”, includes long stroke brake chamber and H.D. spring actuated parking brake with rear automatic slack adjusters and dust shields	Specify:	
64.	High mount outboard mounted brake drums	Specify:	
65.	Brake chamber stroke indicators shall be supplied and installed	Specify:	
66.	Protection boots for both front and rear air chamber push rods shall be supplied and installed	Specify:	
67.	Bendix four channel ABS – or equivalent	Specify:	
68.	Parking brake alarm – warning sounds in repetitive manner when vehicle park brake in ‘NOT’ set with ignition ‘OFF’ any door opened	Specify:	
69.	Air Dryer – WABCO 1200 with heater – or equivalent	Specify:	
70.	Drain valves with pull cables on all air tanks	Specify:	
71.	All air reservoirs are to be plumbed to a single manifold under the driver’s side door with release valves.	Specify:	
<b>CHASSIS</b>			
72.	Cab to Axle - approximately 110” as confirmed by body builder	Specify:	in.
73.	Back of cab to be clear of exhaust, batteries, etc. to allow equipment mounting to within three inches of rear cab wall	Specify:	
74.	Frame - Tensile strength minimum 120,000 PSI frame yield strength	Specify:	

75.	Resisting bending moment min. 3,715,200 lbs. Minimum	Specify:	
76.	Section Modulus 26.0 minimum		
77.	Provision shall be supplied to prevent diamond shaping of the frame. The frame shall be bridged per MTO specifications. Cross-members shall be supplied within then inches of the rear of cab in order to transfer snowplow wing push to frame rail. This cross member shall be gusseted fore and aft.		
78.	Frame will accommodate mounting of snowplow cheek plates without a negative effect on the integrity and strength of the frame		
79.	Front and rear tow hooks shall be supplied and be frame mounted capable and sufficient for towing of complete and loaded unit		
80.	Front swept back bumper painted Argent Grey	Specify:	
81.	Fuel Tank - mounted L.H. side under cab	Specify:	
82.	Fuel Tank - Non-polished aluminum with aluminum tread plate aluminum steps each side of cab – or equivalent.	Specify:	
83.	Fuel Tank - Stainless steel straps	Specify:	
84.	Capacity 302L / 80 USG minimum on driver's side	Specify:	Litre
85.	Rear of tank not to extend more than 5" behind cab.	Specify:	"B.C.
86.	Urea 12-gallon minimum poly tank on driver's side complete with cover and ahead of fuel tank	Specify:	
87.	Fenders – full width front fender extensions complete with mud flaps to cover O.D. width of 425 tires and fuel tank / steps	Specify:	
88.	Splash guards/shields on both sides of engine from top of frame to bottom of inner fenders for sound abatement	Specify:	
89.	VEVOR Underbody truck storage box of heavy duty aluminum mounted once build is complete.		
<b>CAB EXTERIOR</b>			

90.	Cab material – entire cab to be high strength double sided galvanized steel. Lower cab valence panel to be colour coded	Specify:	
91.	Cab suspension – rear of cab to have air bag suspension	Specify:	
92.	One piece tilt forward fibre glass hinged hood with insulation and two access service hatches and gravel guard	Specify:	
93.	Chrome grille – stationary with bug screen in behind	Specify:	
94.	Horns – electric and roof mounted chrome air horns with snow shields	Specify:	
95.	Windshield washer fluid system	Specify:	
96.	Passenger door shall have a lower window for improved visibility	Specify:	
97.	Full width extended front ¼ fenders and mud flaps to protect fuel tank/steps	Specify:	
98.	Mirrors–heated power West Coast mirrors with separate heated chrome convex mirrors below. Specify power mirror main control switch location.	Specify:	
99.	Chrome looks down mirror on cab roof above passenger door. Heated chrome hood mounted convex mirrors.	Specify:	
100.	Exterior cab chrome towel bars for cab entry – exterior / interior side of truck cab	Specify:	
101.	Windows - all windows to be factory tinted glass	Specify:	
102.	Power windows and door locks with driver control for both sides	Specify:	
103.	Exterior fiber glass sun visor colour keyed to exterior cab colour with L.E.D. clearance flush mounted clearance lights	Specify:	
104.	Heated windshield	Specify:	
105.	Cowl tray lid to prevent snow from filling up bottom of cowl at windshield and preventing wipers from cycling/parking	Specify:	
106.	One (1) hood hatch inspection door in fibre glass hood to allow checking of engine / washer fluids	Specify:	
<b>CAB INTERIOR</b>			
107.	Premium cab interior insulation package. Specify DBA rating	Specify:	
108.	H.D. rubber floor matting	Specify:	

109.	2 in-dash cup holders	Specify:	
110.	Suspended accelerator, brake pedals and foot valve	Specify:	
111.	Seats - Driver's seat to be heated air suspension high back with integral headrest and air lumbar support; cloth covered	Specify:	
112.	Passenger's seat to be high back, cloth with storage compartment underneath	Specify:	
113.	Driver's seat to have armrest on drivers R.H. side for ease of operating plow and sander functions	Specify:	
114.	Sun Visors - dual interior sun visors to cover full width of windshield and side visor above driver's door	Specify:	
115.	HVAC fresh air filter attached to air intake cover on cowl tray at front of windshield under hood	Specify:	
116.	Climate Control – O.E.M. air conditioner, integral heater / defroster	Specify:	
117.	Heated door side window defroster vents	Specify:	
118.	Gauges - Standard gauge package to include: metric electronic speedometer, engine hour meter, trip hrs., voltmeter, oil pressure, oil temperature, coolant temperature, air pressure, fuel gauge, transmission temperature, tachometer, low fuel, low oil pressure, high engine coolant temperature, low battery voltage (visual and audible), trip miles, odometer, integrated steering wheel cruise control, ambient temperature with sensor wiring with display gauge mounted in cluster Warning System: low fuel, low oil pressure, high engine coolant, temperature and low battery voltage (visual and audible)	Specify:	
119.	O.E.M. floor mounting plate for sander swivel pedestal controls - bolted to floor between seats – engine doghouse must be removable without moving pedestal	Specify:	
120.	Steering Column – tilt / telescopic, 18" wheel, complete with in wheel radio controls	Specify:	
121.	Safety Kit – In-cab floor mounted 5 lb. fire extinguisher L.H. side of driver's seat and accessible when driver's door opened, triangle kit, first aid kit	Specify:	

**ELECTRICAL**

122.	Minimum 200-amp Alternator		
123.	Three (3) group 31, 12 volt, 1950 CCA batteries		
124.	Batteries are to be mounted in cab to protect against exterior source contaminants and weather		
125.	A lockable battery disconnect switch must be mounted inside the cab and wired into the main battery positive circuit		
126.	Positive and negative battery boosting studs must be mounted at the driver's door		
127.	Heavy duty Starter		
128.	Auto reset circuit breakers, no fuses	Specify:	
129.	Self-cancelling turn signals	Specify:	
130.	Sealed electrical junction box inside cab behind driver's seat for body builders' access for their required body lighting install	Specify:	
131.	Back-up alarm, 102 DBA rating	Specify:	
132.	Body builder wiring harness at body controls mounting plate between seats. Harness to include fused ignition and battery circuits, ground circuit, and wiring harness through floor for extra body circuits	Specify:	
133.	In dash power source cigar type receptacle without plug and cord	Specify:	
134.	Radio - AM/FM /WB/ clock/3MM auxiliary input stereo with weather band and blue tooth; dash mounted	Specify:	
135.	Lighting - All required lighting per Transport Canada and Ontario Highway Traffic Act	Specify:	
136.	L.E.D. stop, turn, tail and back-up lights at rear of chassis frame	Specify:	
137.	Windshield wipers – electric with intermittent feature c/w winter blades and shaker deicers	Specify:	
138.	Wipers shall be heated to prevent winter ice buildup during plowing operations		
139.	O.E.M. pre-trip inspection package for exterior lights	Specify:	
140.	Chassis wiring colour coded and continuously numbered	Specify:	
<b>PAINT</b>			

141.	Complete chassis frame including axles and springs to be painted Gloss Black O.E.M. Imron Elite Paint		
142.	Cab to be painted to match existing fleet colour highway yellow	Specify:	
143.	Exterior paint to be base / clear coat	Specify:	
144.	Rustproofing/dripless clear (Krown or equivalent)	Specify:	
<b>WHEELS AND TIRES</b>			
145.	Tires/Front - 425/65R 22.5 G296 MSA Goodyear 486 rev/mile load range L 20 ply – or equivalent	Specify:	
146.	Rear - 12R 22.5 G182 RSD Goodyear 468 rev/mile load range H 16 ply – or equivalent	Specify:	
147.	Wheels - All wheels to be 10-bolt Hub-Piloted disc	Specify:	
148.	Front rims to be polished aluminum buds with heavy duty centres	Specify:	
149.	Rear rims to be polished aluminum buds with heavy duty centres – inner and outer	Specify:	
150.	Wheel to include plastic spacer between steel and aluminum rims to prevent corrosion between metals		
151.	Wheel torque indicators are to be provided and installed		
152.	Provide one front and one rear matching complete wheel and tire assembly as spares – polished aluminum buds	Specify:	

**[END OF PART A - CAB & CHASSIS SECTION]**

Snow equipment from Viking Cives as pre-qualified on LAS/Canoe  
062222-VCM NJ2400, NJ2500, NJ2600

**PART B: BI-DIRECTIONAL SNOWPLOW WITH WING ASSEMBLY AND COMBINATION  
SANDER/DUMP BODY**

**HYDRAULIC POWER DETACH SNOWPLOW HARNESS ASSEMBLY**

Item	Description Requirements		Compliance (yes / no)
1.	Viking-Cives Ltd. model LPM (Low Power Mount) or equivalent in compliance with the following specification and approved by the municipality.	Specify:	
2.	The plow and wing front harness to be easily and quickly attachable or detachable as one unit.	Specify:	
3.	Light weight construction using 3/8" CHT100 plate to reduce weight while maintaining strength.	Specify:	
4.	All bolt holes must be drilled to size.	Specify:	
5.	The harness will be mounted at the front end of the frame and will be bolted to the cheek plates.	Specify:	
6.	The lifting frame shall be bolted to the push plate and shall be braced to conform to M.T.O. standards.	Specify:	
7.	Lifting Ram Diameter – 4" D.A. minimum	Specify:	
8.	Lifting Ram Stroke – shall be 10" min.	Specify:	
9.	The cylinder rod will be fully chrome plated.	Specify:	
10.	Lifting arm of grab link for nose chain will be 18" min length.	Specify:	
11.	Drive ears will be 30 1/2", centre to centre.	Specify:	
12.	Height to lower drive connection will be 19" when mounted, and with truck empty.	Specify:	
13.	Location heights (mounted) will be at 22 and 25 inches.	Specify:	
14.	1/2" thick mild steel cheek plates must match truck frame and be bolted directly to the truck frame where possible.	Specify:	

Item	Description Requirements	Compliance (yes / no)
15.	Cheek plates will be gusseted on the bottom.	Specify:
16.	Cheek plates will be gusseted to accept direct translation force from drive ears.	Specify:
17.	Three grab links will be supplied.	Specify:
18.	Spacing and height of headlamps shall be in compliance with ES-401	Specify:
19.	Two (2) sealed beams, shock mounted six (6) inch head dia. (minimum) headlamps, with high and low beam, and turn signals will be mounted on harness assembly.	Specify:
20.	Locking shall be achieved by either a single central double acting hydraulic lock pin or two(2) manual locking pins.	Specify:
21.	All pivots shall be greaseless fiber bushings and stainless steel pins. No grease required.	Specify:
22.	All hydraulic hoses and wiring will be adequately supported to ensure that wear and sag is completely eliminated.	Specify:
23.	All fittings in the hydraulic system will be high-pressure type.	Specify:
24.	All hydraulic hoses will be SAEJ517 (100 R2 Type A.T.).	Specify:
25.	Right front helper spring shall be provided. 16,000 lb. Capacity Aeon Rubber (2 spools) shall be used and shall be easily removable.	Specify:
26.	When detached it shall reduce the weight of the vehicle and improve operating safety and driving convenience.	Specify:
27.	The male hinged swing arm is attached to an integrated chassis mounted bracket. The assembly remains permanently with the vehicle even after the female coupler has been detached.	Specify:
28.	The swing arm shall be actuated by two(2) 2.5" diameter x 4.5" stroke double acting hydraulic cylinders controlled by a single double acting valve section.	Specify:
29.	Front plate to be complete with quick attach hitch pockets	Specify:

Item	Description Requirements	Compliance (yes / no)
30.	Front hitch mounted Grote 6" floodlight on top driver's corner side mounting with bracket, wiring harness and in-cab switch	Specify:
<b>REVERSIBLE SNOWPLOW</b>		
31.	Hydraulic Ram Reversible snowplow FRK3912TE or approved equivalent	Specify: Make - Model -
32.	Reversible snowplow will have an ultra-high molecular polymer moldboard and safety trip edge complete with torsion style trip springs	Specify:
33.	In the straight-ahead bulldozing position, it shall provide a 12-foot-wide clearing path	Specify:
34.	The plow will be hydraulic ram reversible from 35 degrees right to 35 degrees left allowing the plow to perform at all angle in between	Specify:
35.	Set at a 35-degree angle, the plow will clear a path of 9 foot 4 inches	Specify:
36.	The moldboard shall be made of 3/8 ultra-high molecular polymer	Specify:
37.	In addition to the standard front moldboard, a second moldboard will be located under the pushframe approximately 48" behind the first cutting edge.	Specify:
38.	The second moldboard will consist of spring steel fingers mounted close together to form a smooth curve. The finger will be 516H spring steel with carbide tipped teeth	Specify:
39.	The second moldboard will be mounted on a galvanized rotating bracket with 2- "30/30" air pots used to deploy the moldboard and one single "24" used to lift the moldboard to the stored position.	Specify:
40.	The second moldboard will be deployed by an in cab air switch for up / down and 2 <sup>nd</sup> switch for high and low pressure	Specify:
41.	The moldboard height shall be a constant 39 inches over its entire length	Specify:
42.	Moldboard brace to be fixed position for optimum trip edge utilization	Specify:
43.	Connection points of the telescopic brace to the moldboard, the drive frame to the moldboard, and	Specify:

Item	Description Requirements	Compliance (yes / no)
	the hydraulic power angling cylinders to the board and the "A" frame will be fitted with spherical bushings.	Specify:
44.	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.	Specify:
45.	All spherical bushings will be grooved for lubrication and fitted with grease fittings.	Specify:
46.	The spherical bushings will be machined from HR1020 steel with a tensile strength of 54,000 to 70,000 P.S.I. minimum.	Specify:
47.	Each spherical bushing will be press fitted and 100% welded into its mounting plate.	Specify:
48.	Spherical bushings for the drive frame connection points will be 1 1/8" outside diameter utilizing 1 1/8" x 5 1/2" gr.8 hex hd. connecting bolts.	Specify:
49.	Moldboard will be complete with standard 1/2" x 8" SEA 90 cutting edge, two wear shoes and two scuff shoes.	Specify:
<b>DRIVE FRAME</b>		
50.	Drive frame will be "A" style manufactured of 3 1/2" x 3 1/2" x 1/4" minimum square structural tube.	Specify:
51.	Drive frame stiffeners will be 1/2" minimum.	Specify:
52.	Drive frame to be complete with one single parking leg stand. Height adjustable.	Specify:
53.	Integral heavy duty chain lift capable of keeping the cutting edge parallel to the road surface while in the carrying position regardless of the degree of angle.	Specify:
<b>TRIP EDGE</b>		
54.	A safety trip edge will provide protection from road hazards. This mechanism will provide a pivoting movement of the blade when hitting an obstacle.	Specify:
55.	The trip edge will be designed and manufactured as a three section trip assembly.	Specify:
56.	The trip edge will incorporate 6 horizontally mounted torsion springs.	Specify:

Item	Description Requirements	Compliance (yes / no)
57.	Torsion springs will be 3/4" wire with 15 active coils.	Specify:
58.	Each torsion spring will be a minimum of 15" in length.	
59.	The trip edge will incorporate a steel angle 4" x 3 1/2" x 1/2" minimum. A steel trip plate 3/16" x 10" minimum.	
<b>HYDRAULICS</b>		
60.	Hydraulic power angling cylinder (2), 3" base diameter by 20" stroke to provide reversing action.	
61.	Hydraulic cylinder piston rods will be hard chrome plated.	
62.	A crossover relief valve will provide cushion impact protection.	
63.	Hydraulic hoses will be complete with hydraulic quick disconnects.	
<b>GENERAL</b>		
64.	All steel to be shot blasted, epoxy primed and finish paint to be electrostatically applied	
<b>ADDITIONAL</b>		
65.	Drive frame to be complete with quick-tach hitch.	
66.	A sturdy eye 1/2" thickness shall be provided at the centre of gravity for handling of the moldboard.	Specify:
67.	A moldboard to push frame safety cable shall be provided.	Specify:
68.	Drive frame to be complete with quick attach oscillating beam for easy hookup	Specify:
<b>FULL HYDRAULIC WING HARNESS</b>		
69.	These specifications describe an all hydraulic, single push arm towerless wing harness, with the ability to perform a high winging shelving operation and hydraulically extend and or retract the wing to increase or decrease the cleared path.	
70.	The wing operation shall be fully hydraulic, without the use of any sheaves, pulleys or cables.	Specify:
71.	With the wing raised to the high wing working position the distance from the bottom of the cutting edge to ground level will be 38" minimum.	Specify:

Item	Description Requirements	Compliance (yes / no)
72.	The wing, when attached will have a fixed non-adjustable attack angle of 75° at all times and in all operating modes.	Specify:
<b>PUSH ARM</b>		
73.	The rear harness will incorporate one (1) only single push arm assembly	Specify:
74.	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. x 38 ½" tubing.	Specify:
75.	The push arm assembly will incorporate a 3" x 23" double acting hydraulic extension cylinder.	Specify:
76.	The operator will be able to change the cleared path instantly from inside the cab from 7' to 9'.	Specify:
77.	The push arm lift cylinder will be 3 ½ x 26" double acting.	Specify:
78.	When the wing is in the normal carrying position the push arm extension cylinder will be in the collapsed position, extending the extension cylinder will then push the wing forward allowing it to be carried in a position that will provide improved visibility from the right-side chassis window.	Specify:
79.	The push arm will incorporate a safety compression style trip spring, 5/8" wire, 3 ¾" O.D. x 2 ½" I.D., free length.	Specify:
80.	Safety chain to be provided, to secure wing in transport position, permanently attached to the wing post with heavy duty attachment lug on wing arm.	Specify:
81.	Extension cylinder oscillation will be achieved through two ¾" I.D. X 2 1/8" O.D. spherical bushings press fitted and welded to ½" steel plate mounting lugs.	Specify:
<b>REAR HARNESS</b>		
82.	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.	Specify:
83.	A rigid load carrying enclosure shall be provided to support the single wing brace and hydraulic lift cylinder.	Specify:

Item	Description Requirements	Compliance (yes / no)
84.	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.	Specify:
85.	The portion of the rear supporting structure that extends across the chassis side rails will be 1" thick steel plate.	Specify:
86.	Further support will be provided by a diagonal pipe brace running back and attaching to the chassis side rail.	Specify:
87.	For fast and simple installation of the wing and hydraulic cylinders, to the rear harness, there will be a maximum of two only connection points, one for the single wing brace and one for the hydraulic lift cylinder.	Specify:
<b>FRONT POST ASSEMBLY</b>		
88.	The front post shall be fabricated of 8" I Beam 18.4 lbs./ft minimum.	Specify:
89.	The front post will be a minimum of 48" in height and will be equipped with one 12" round mirror at or near top and an adjustable spot lamp.	Specify:
90.	Guide bars will be provided for the slide assembly running, for the full height of the wing post.	Specify:
91.	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.	Specify:
92.	The main supporting member for the front post will be 4" O.D. x 2 3/4" I.D. x 5/8" wall tube cross member running through both cheek plates, reinforced with a 1/2" steel plate between the cheek plate and front post.	Specify:
93.	Grote 6" front wing post LED spotlight with in-cab switch.	Specify:
<b>TRIP HINGE AND SLIDE ASSEMBLY</b>		
94.	Front slide to be provided, with a safety trip hinge assembly, the wing will return to the normal position after it has tripped.	Specify:
95.	A link rod weldment will attach the trip hinge to the slide assembly.	Specify:

Item	Description Requirements	Compliance (yes / no)
96.	The safety trip spring will be externally mounted from the trip hinge on the link rod weldment between an upper and lower spring disc and secured by a 1 ¼" locknut.	Specify:
97.	A polymer-bearing disc will reduce friction and eliminate wear between the outer hinge plate upper lug and the wing slide upper lug.	Specify:
98.	Safety trip hinge assembly to return the wing to the normal position after it has tripped. The hinge is designed to lift the wing as it trips through a trapezoidal design.	Specify:
99.	Preload factory set at 1" and in field adjustable to maximum 2" to allow in field adjustment of trip tension.	Specify:
100.	Wing slide ¾" thick steel plate, 72" overall length by 6 ¾" wide.	Specify:
101.	Slide travel 60" minimum with provision for 14" minimum float.	Specify:
<b>SNOW LEVELING WING</b>		
102.	This snow leveling wing will comply with the provisions of the M.O.T. Standard #ES-403, and will be suitable for use with standard front wing post ES-403, and open type hydraulic control box standard #ES-413 and #ES-415.	Specify: Make –  Model -
103.	The leading edge of the wing will be approximately 26" from the bottom of the cutting edge to the top of the wing.	Specify:
104.	The trailing edge of the wing will be approximately 35" from the bottom of the cutting edge to the top of the wing.	Specify:
105.	Overall length of the wing will be 12' to accept an 11' cutting edge. The backside of the wing shall be completely enclosed and smooth paneled, its contour designed to provide a superior cast for attachment of one only single hydraulic wing brace.	Specify:
106.	The min. thickness of the moldboard will be 10 U.S.S. gauge (.1345)	Specify:

Item	Description Requirements		Compliance (yes / no)
107.	Drive ribs for connecting the wing braces will be provided, having a 100% weld on both sides. Side adjustable ribs bolted to the wing are acceptable.	Specify:	
108.	The drive ribs will be located 8'6" and 10' 0" from nose end of the wing.	Specify:	
109.	Plate to mount the wing to the wing post will be 1" thick.	Specify:	
110.	There will be sufficient material around the front mounting bolthole to cover the mounting plate on the tripping device on the front wing tower.	Specify:	
111.	Two adjustable wing braces will be provided.	Specify:	
112.	The wing will be fitted with the following; One High Wear, 3 section wing blade One VBL-45 curb shoe on discharge end One Wing shoe as per MTO Spec ES-509	Specify:	
113.	36" orange fluorescent plow marker on wing end complete with Conspicuity safety tape on wing arm and rear edge of wing	Specify:	
114.	Whelen WFLOW3AA or approved equivalent strobe lights shall be mounted on the rear lower wing with separate in cab switch. Quick disconnect electrical plug mounted on truck for when wing is removed.		
<b>COMBINATION SANDER / DUMP BODY</b>			
115.	The sander/dump body will be designed for installation on a single axle cab & chassis with a G.V.W.R. of 48,000 lbs. and cab\axle dimension of approximately 110 inches, as specified herein.	Specify:	



Item	Description Requirements	Compliance (yes / no)
129.	The front wall of the body will be completely clean and clear of any type of recesses or protrusions into the body of any kind, including hoist doghouse, bulkheads, etc.	Specify:
130.	Body sides to be fabricated in 201 stainless steel.	Specify:
131.	Body front panel will be in 201 stainless steel. Front body wall may be sloped to allow easier access to the cross conveyor.	Specify:
132.	Front head will be 3" higher than cab height (including the accessories). Height of front panel approximately 60"	Specify:
133.	Dump box access ladder shall be 15" wide MTO fold-up type, constructed of aluminum and installed rear right of body	Specify: Location -
134.	Dump box shovel holder must be provided on front body wall on driver's side.	Specify:
135.	Cab tarp wind deflector / shield made of 3/16" Cor-Ten steel.	Specify:
136.	Sides made of one-piece sheet of 3/16" smooth rolled for clean material discharge. No breaks or formed sidewalls accepted.	Specify:
137.	Rear vertical corner posts will be 3/16" ga. fabricated in such a way as to include provision for rear facing lighting requirements, ie., stop/tail/turn and back-up lights – 3 lights each side of gate.	Specify:
138.	MTO style fold-up body ladder on right hand / curbside at rear of body, aluminum. Lever chute in tailgate required with adjustable handle to right hand / curbside of body.	Specify:
139.	Rear vertical corner posts to be tied to integrally with radius side panels and horizontal top rails, welded 100%.	Specify:
140.	Rear vertical corner posts to be connected to main conveyor by a horizontal 3" x 8" x 3/8" wall HSS tube expanding the full body width.	Specify:
141.	Body construction shall include integral full length, 100% welded body side fenders fabricated from 3/16".	Specify:
142.	Top of integral body fenders including the rub rails shall be coated with colour coded Line-X to match body paint	

Item	Description Requirements	Compliance (yes / no)
<b>SPREADER BODY STYLE</b>		
143.	The body will be a conventional dump body as well as a material spreader all in one.	Specify:
144.	The body will dump to the rear as per standard conventional dump body and will remain stationary on the chassis frame when in the spreading position 10" hardwood sideboards – painted black to be supplied.	Specify:
<b>HOIST</b>		
145.	Mailhot nitrated top lift CS-98.3.5 stage front mount with a capacity of approximately 30 ton – or equivalent.	Specify:
146.	Cylinder stroke shall be 330 CM (94") minimum.	Specify:
147.	Dump box tipping angle shall be 50 degrees.	
148.	Rear dump body hinge shall be 2.5" with grease fittings and integral rear body prop which will allow operator to set without going under body.	Specify:
149.	Hoist control valve shall be air operated with featherable in-cab control on pedestal beside driver's seat.	Specify:
150.	Dump body safety prop/integral rear body hinge.	Specify:
<b>TAILGATE</b>		
151.	Tailgate shall be double acting.	Specify:
152.	Tailgate height shall be 46" from main conveyor floor.	Specify:
153.	Tailgate shall be rectangular double fold down style, to allow use of asphalt or stone chip spreaders.	Specify:
154.	Upper hinge plates to be offset design, flame cut 1" steel plate.	Specify:
155.	Construction shall be of 10 ga. Cor-ten "A" steel with 3/16" formed cross bracing for integral strength.	Specify:
156.	Latch mechanism for the tailgate shall be air operated using two air brake pot 30/30 booster chambers – one each side, actuated from within cab by means of switch on floor pedestal beside the driver's seat.	Specify:

Item	Description Requirements	Compliance (yes / no)
157.	Brake chambers, one right side and one left side, enclosed and protected by integral full length body fenders.	Specify:
158.	Bolt on steel protector cover plates to underside of integral body fenders for each gate brake chamber.	Specify:
159.	Coal chute in center of gate, complete with height adjustable door and locking latch assembly. Cantilever type handle will be off set to the outer curbside of the body for operator safety.	Specify:
160.	The coal chute will be built oversized to accommodate removing and installing the supplied main chain protective cover plate through this opening.	
161.	Spreader chains and brackets shall be supplied on tailgate and rear apron. Chains shall be grade 70 coil proof 5/16" minimum.	Specify:
<b>CONVEYORS</b>		
162.	Main pintle chain conveyor shall be centered and recessed along the length of the body floor. Three piece formed construction, minimum 25" wide.	Specify:
163.	Underside of main conveyor to have a plastic liner shield/cover to keep material off of chassis frame and components.	Specify:
164.	Rear conveyor clean out screen to be pinned.	Specify:
165.	A removable conveyor chain cover will be supplied and will run from the front to the rear of the body, right and left side of the main conveyor and protect the chain from impact at all times in all operation modes	
166.	Main conveyor chain shall be self-cleaning D667 pintle chain with a minimum tensile strength of 21,700 PSI, spaced on 21" on center.	Specify:
167.	½ " X 1 ½ " cross flights welded to every 2nd link (approx. 4.5").	Specify:
168.	Drive and idler shafts to be 2" diameter. Driver and idler shafts manufactured from high resistance stress proofed SAMSON 100.	Specify:
169.	Drive and idler sprockets to be minimum eight (8) tooth C1030 cast steel.	Specify:

Item	Description Requirements	Compliance (yes / no)
170.	Main conveyor drive shall be a single 25:1 high efficiency planetary drive with high torque low speed motor.	Specify:
171.	This drive shall deliver 50000 IN/LB torque intermittent with 34000 IN/LB constant.	Specify:
172.	Planetary drive close coupled to main conveyor shaft. Specify make and model of planetary:	Specify: Make – Model -
173.	Connection of the planetary drive shaft to the main conveyor shaft shall be accomplished via a split two piece rectangular shaped coupler assembly. Removal of the (4) coupling bolts will allow simple disassembly of the planetary drive shaft from the main conveyor shaft, for ease of maintenance.	Specify:
174.	The upper and lower half of the coupler assembly will be bolted together by (4) 5/8" x 4 1/2" N.C. Grade 8 Hex Head bolts.	Specify:
175.	The two main conveyor drive shaft flange bearings will be bolted directly to the body long sill weldments.	Specify:
176.	Each of the two body longsill weldments will be vertical slotted. Removing the drive shaft flange bearings and uncoupling the planetary and main conveyor drive shafts will allow the entire main conveyor drive shaft assembly to drop out through the vertical longsill slots. Main conveyor chain tension to be regulated by an automatic chain tensioning system.	Specify:
177.	Remote grease lines and fittings to a common chassis mounted manifold for all body grease points. Identify each point with appropriate labelling.	Specify:
178.	The flow control gate between main and cross conveyor shall be adjustable by a double acting hydraulic cylinder controlled by the spreader controller. Gate calibration sticker to be provided.	Specify:
179.	The main conveyor flow control gate will be flush and even with the front of the body, without any type of recess.	Specify:
180.	Underside of main conveyor to be complete with full length poly guard to prevent material spillage onto chassis frame and components.	Specify:

Item	Description Requirements	Compliance (yes / no)
181.	A slide in steel plate shall be provided as a main conveyor cover.	Specify:
182.	Cross conveyor table is independent of chassis frame and can be removed in off season to reduce overall weight of unit.	Specify:
183.	The cross conveyor shall be hydraulic direct drive.	Specify:
184	Cross conveyor table weldment fabricated from a minimum of 3/16" 304L Stainless Steel material.	Specify:
185.	Snap on wash coupler for belt rollers.	Specify:
186.	The cross conveyor shall have a OSHA compliant guard at all potential pinch points.	Specify:
187.	The cross conveyor shall have a non-asphalt rated one piece high speed belt with lugs on underside. Belt shall be bi-directional – to both sides.	Specify:
188.	The unit must be capable of spreading and discharging "A" gravel via the main conveyor, cross conveyor and spinner chute, without clogging, jamming or other such problems and the manufacturer will warranty the unit as suitable for this operation and application.	Specify:
189.	The main conveyor chain links will be permanently covered and protected in all operating modes by 3/8" & 1/2" poly.	Specify:
190.	The main conveyor shall be protected when not in use by a solid removable steel plate in conjunction with item 181.	Specify:
191.	The main conveyor plate will fit through the rear coal chute for easy and simple installation.	Specify:
193.	Remote grease lines and fittings to a common chassis mounted manifold for all conveyor grease points. Identify each point with appropriate labelling.	Specify:
<b>SPINNER</b>		

Item	Description Requirements	Compliance (yes / no)	
194.	A polyurethane spinner shall be installed on left hand side (driver side) to spread ahead of rear wheels, c/w anti-coning device. Grease fittings on spinner shaft.	Specify:	
195.	Spinner disc will be hydraulic direct drive. 3.0 cu. in. hydraulic motor shall drive the spinner assembly. Hydraulic hoses to the spinner motor are to be quick disconnect couplers	Specify:	
196.	Unit shall be plumbed, manufactured and supplied with Right hand (curbside) spinner allowance for future installation	Specify:	
197.	Spinner height shall be adjusted to accommodate various chassis heights and capable of discharge rate from 100 lbs./lane mile to 2500 lbs./lane mile.	Specify:	
198.	The spinner shall be capable of spreading evenly up to a 20' radius with a main operating range of 0' to 15' radius	Specify:	
199.	The spinner shall have an OSHA compliant guard.	Specify:	
200.	6" spinner light shall be installed for visibility of spinner at night. Light to be toggled from in cab.	Specify:	
201.	Spinner assembly adjustment fore and aft to allow operator to discharge material closer to center line of road or under truck. Fold down windrow chute for granular.	Specify:	
202.	Spinner assembly will be flip up style allowing the spinner assembly to be carried in an on board stored raised position.	Specify:	
<b>LOAD COVER</b>			

Item	Description Requirements	Compliance (yes / no)
203.	An air tarp shall be standard equipment with fabricated 'dog legged steel tarp arms, dimensions of 1 ½" X 1 ½" steel tubing, 1/8" mesh tarp and 14" stroke air cylinder mounted each side of body.	Specify:
<b>FENDERS AND FLAPS</b>		
204.	Chassis mounted aluminum fenders shall be provided over the rear wheels.	Specify:
205.	Integral steel body fenders shall be continuous along each side of the dump body to provide coverage for dual rear wheels and protect body.	Specify:
206.	Mud flaps shall be provided fore and aft of rear wheels frame mounted via full width steel flat bar. Mud flaps to have 12" road clearance.	Specify:
207.	Fenders fabricated from 10 ga. Cor-ten "A" corrosion resistant steel.	Specify:
<b>CHAIN</b>		
208.	All lift chain; tailgate chain and safety chain will be 1/2" grade 70 proof coil.	Specify:
<b>REAR BODY HINGE / SAFETY PROP</b>		
209.	H.D. 2 ½" rear body hinge with grease fittings and integral rear body safety prop.	Specify:
<b>HYDRAULIC PUMP</b>		
210.	Front mount hydraulic pump will be a 90 cc variable displacement pump with sufficient capacity to operate all body and plow equipment	Specify:
211.	The pump will be direct drive from the truck crankshaft.	Specify:
212.	The complete hydraulic system, including hydraulic pump, hydraulic motor, hydraulic valves, control blocks, air controls, electronical controls hoses, harness, must operate in a fashion that optimizes fuel efficiency in all modes of vehicle use, such as summer driving, winter driving, plowing and sanding operations and hoist operation. A flow on demand load sensing and pressure compensated hydraulic system is required.	Specify:

Item	Description Requirements	Compliance (yes / no)
213.	The system must provide for simultaneous operation of the spreading and plowing equipment without degradation in performance, even if the engine is operating at low idling RPM	Specify:
214.	The pump will work on demand when a function/mode is selected.	Specify:
215.	A 2" O.D. drive shaft w/safety guard at connection to pump	Specify:
216.	The drive shaft will be equipped with a companion flange, which will be attached to a yoke on the pump allowing the removal of the drive shaft to facilitate fan belt removal.	Specify:
<b>HYDRAULICS AND CONTROLS</b>		
217.	Hydraulic valves will be Rexroth sectional stackable load sensing type with applicable working sections, inlet outlet sections and built in relief.	Specify:
218.	Working sections as follows: <ul style="list-style-type: none"> <li>• Double Acting Plow Lift</li> <li>• Double Acting Tilt Harness</li> <li>• Double Acting Front of Wing</li> <li>• Double Acting Rear of Wing</li> <li>• Double Acting Wing Extension</li> <li>• Single Acting Body Hoist</li> <li>• Double Acting Reversible plow or tilt mouldboard</li> </ul>	Specify:
219.	Hydraulic valve sections will be mounted back of cab in a weatherproof enclosure above the chassis frame.	Specify:
220.	A minimum 35 US gallon hydraulic oil tank with return manifold block and internal return filter will be mounted back of cab above the chassis frame.	Specify:
221.	Weatherproof screw down filler / breather cap with fine mesh screen and hand clean out.	Specify:
222.	A removable magnetic trap shall be supplied.	Specify:
223.	The oil return port will be fitted with a diffuser to prevent turbulence and foaming of oil on the inside of the reservoir	Specify:

Item	Description Requirements	Compliance (yes / no)	
224.	There shall be a high-pressure hydraulic filter.	Specify:	
225.	A low pressure filter to be supplied on the hydraulic return line.	Specify:	
226.	Oil level and temperature gauge.	Specify:	
227.	Low level indicator with in cab warning light only	Specify:	
228.	Oil shut off valve at tank	Specify:	
229.	Hydraulic hoses 2 ply braided steel SAE 100 RS, swivels both ends, tied supported to eliminate sag, properly routed and protected to eliminate abrasion. All hoses to be wrapped with Kevlar hose wrap.	Specify:	
<b>AUTOMATED SPREADER CONTROLS</b>			
230.	The 7 function PVG valve will in a sstl enclosure BOC and will be electrically operated by Cirus electric plow/wing control joystick with plow control & wing control on single Unigrip joystick	Specify:	
231.	The control-mounting stand will be pedestal type (vibration resistant), fully adjustable, located between the driver and passenger seat within easy view and reach of the driver		
232.	The electronic spreader controller will control all body operations (spinner / conveyors, flow control slide gate, hoist) and will incorporate a Road Watch temperature sensor. Spreader controller must be Cirus LCS controller	Specify:	
233.	The discharge of material shall be controlled proportional to road speed at the pre-programmed application rate.	Specify:	
234.	Spinner controls shall allow for a future pre-wetting system should the Town decide to install one at a later date.	Specify:	
235.	The system will be equipped with the necessary devices and commissioned to provide material detection.	Specify:	
<b>AUTOMATIC GREASING SYSTEM</b>			
236.	EP-0 Automatic greasing system including in-cab mounted timer unit with audible low pressure alarm, pneumatic grease pump and all brass injector units. Pump shall be mounted up behind the cab (not on frame rail). All body points to be plumbed in. Groeneveld.	Specify:	

Item	Description Requirements	Compliance (yes / no)
<b>LIGHTING AND ELECTRICAL</b>		
237.	Rear lamps, stops, tails, directional and back up lights to be mounted in rear corner posts within 3" of the outside of the tailgate. Lenses to be shielded.	Specify:
238.	Heated L.E.D. rear stop / tail and turn signals with two L.E.D. back-up lights to be mounted each side of gate in rear corner body posts. Total of 3 lights each side of gate.	Specify:
239.	Dual upper rear corner removable post lights with 2 X 4" red LED, 2 X 7" red LED (brake/turn signal) and 1 X 4" blue LED strobe on Left, 1 X 4" amber LED strobe on Right	Specify:
240.	Lights and wiring shall be completely sealed with corrosion, vapor proof lamps and sealed junction box mounted back of cab above frame.	Specify:
241.	Heated L.E.D. amber & blue strobes to be mounted back of cab on an adjustable light pole/pedestal w/separate in-cab switches.	Specify:
242.	Upper rear body amber and blue L.E.D. strobes. 2 lights in total. Separate in-cab switches.	Specify:
243.	4" amber and blue heated L.E.D. self-powered strobes in stainless steel boxes mounted on chassis frame below rear body x-member w/switch in cab.	Specify:
244.	Work Lights - 6" rubber encased incandescent / heated L.E.D. spinner light and back of cab conveyor light – switched in cab. Reversing Lights - 6" rubber encased incandescent / heated L.E.D. backup/spotlight at rear of chassis frame and two 6" rubber encased incandescent high mount backup/spotlights above sander/dump body – one mounted each side of body – wired to O.E.M. reverse circuit. Re-install O.E.M. heated L.E.D. rear taillights to rear of chassis frame. Install license plate mount w/light on rear lower cross member of sander/dump body. Additional requirements in plow and wing harness sections.	Specify:
245.	Reversing camera system: Electric Camera c/w Air/Wash System - 7" colour LCD monitor, colour shutter camera, audio, heater. Camera to be installed at body builders shop.	Specify:
<b>PAINT FINISH</b>		

Item	Description Requirements		Compliance (yes / no)
246.	The harnesses, plow, wing, sander/dump body shall be shot blasted and epoxy zinc primed, finish paint High Gloss BLCK Imron 5000 Elite SS 'BAKED FINISH', code# N0006EA – or equivalent.	Specify:	
247.	All auxiliary components shall be shot blasted and epoxy zinc primed, finish paint balance of steel components Imron 5000 Elite SS Medium Gloss Black two coats 2 ml dry thickness – or equivalent.	Specify:	
248.	Eliminate bare steel-to-steel contact of any components; all steel surfaces will be painted as per above specifications before final assembly.	Specify:	

**[END OF PART B]**

**Bid Form Pricing Submission - Services**

**Bid Proposal Pricing:**

\$ \_\_\_\_\_ Tax \_\_\_\_\_ Total \_\_\_\_\_

**Options;**

A Provox reverse camera with wash & air dry mounted on the top rear RH corner post triggered by OEM reverse feed

**Yes                  No**

**Bidder Checklist and Submissions Requirements-Services**

**Proposal Submission Inclusions:**

The RFP proposal submission shall include the following documents:

1. A copy of this RFP document as provided with all signature approvals.
2. Complete the Contractor Health & Safety Agreement form.
3. Complete the Services Compliance Acknowledgements.
4. Complete the Required Bidder Documents Checklist forms.
5. Provide the Bidder Information Responses.
6. Complete the Bid Form Pricing Submission.
7. Include the Bid Deposit if applicable.
8. Complete the Bid Form Declaration; and
9. Provide any supporting documentation, materials, proposal explanations, etc. will be accepted and used as part of the selection process.

**Services Contacts & Compliance**

The purpose of this document is to determine a contractor's ability and intention to comply with the Township of Southgate's contractor safety requirements.

Contractor Company Name: \_\_\_\_\_

Contractor Phone: \_\_\_\_\_

Cell phone: \_\_\_\_\_

Site Supervisor: \_\_\_\_\_

Company Health & Safety Rep: \_\_\_\_\_

## **Bid Form Declaration – Equipment & Vehicle Purchases**

**This Bid Proposal is submitted by:** \_\_\_\_\_

**To: The Township of Southgate**

1. I \_\_\_\_\_ **OF** \_\_\_\_\_

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

2. I **FURTHER DECLARE** that this Proposal is made without any connection knowledge, comparison of figures or arrangement with any other company, firm or person making a Bid for the same equipment and is in all respects fair and without collusion or fraud.

3. I **FURTHER DECLARE** that no employee of the Township or elected official 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 in any portion of the profits thereof, or in any such supplies to be used therein or in any of the monies to be derived therefrom.

4. I **FURTHER DECLARE** that the several matters stated in the said Proposal are in all respects true.

5. I **FURTHER DECLARE** that I have carefully examined the Proposal, Instruction to Bidders, General Conditions, Proposal Specifications/Requirements proposed and hereby acknowledge the same to be part and parcel of any contract to be let for the equipment therein described or defined and do all the work and to provide the services of the equipment mentioned for the prices stated on the Bid Form Pricing Submission.

6. I **FURTHER DECLARE** that I have a clear understanding of all the work involved in this contract.

7. I **FURTHER DECLARE** that this offer is to continue to be open to acceptance until the formal awarding is made to the successful Bidder for the said project OR for a period of sixty (60) days after the closing date, whichever first occurs and that the Township may, at any time, within that period, without notice, accept this Proposal whether any other Proposal has been previously accepted.

8. I **FURTHER DECLARE** that the awarding of the equipment based on this Proposal by the Township shall be an acceptance of this Proposal.

9. I **FURTHER DECLARE** that in the event of default or failure on our part, that the Township shall be at liberty to advertise for new Proposals, or to carry out the works in any other way they deem best, and we also agree to pay to the said Township the difference between this Tender and any greater sum which the said Township may expend or incur by reason of such default or failure or by reason of such action as aforesaid, on their part, including the cost of any advertisement for new Proposals; and to indemnify and save harmless the Township of Southgate and their officers from all loss, damage, cost charges and expenses which they may suffer or be put to by reason of any such default or failure on our part.

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(COMPANY NAME)

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(SIGNATURE)

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(ADDRESS)

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(PRINT NAME & TITLE)

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(CITY OR TOWN)

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(WITNESS OR SEAL)

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(POSTAL CODE)

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(DATED)