

**FORM A: BID**  
(See B8)

1. Contract Title SUPPLY AND DELIVERY OF INDUSTRIAL SIDEWALK MACHINES

2. Bidder

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Usual Business Name of Bidder as it appears on Invoice (if different from above)

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
Email Address of Bidder

\_\_\_\_\_  
Facsimile Number

(Mailing address if different)

\_\_\_\_\_  
Street or P.O. Box

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
GST Registration Number (if applicable)

The Bidder is:

(Choose one)

a sole proprietor

a partnership

a corporation

carrying on business under the above name.

3. Contact Person

The Bidder hereby authorizes the following contact person to represent the Bidder for purposes of the Bid.

\_\_\_\_\_  
Contact Person

\_\_\_\_\_  
Title

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Facsimile Number

\_\_\_\_\_  
Email Address

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D3.

5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out on Form B: Prices, appended hereto.

6. Commencement of the Work The Bidder agrees that no Work shall commence until he/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

7. Contract By submitting a bid in response to this Tender, the Bidder certifies that it has read, understands, and agrees to the terms and conditions of this Tender and that the Tender, in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

8. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No.	_____	Dated	_____
	_____		_____
	_____		_____

9. Time This offer shall be open for acceptance, binding and irrevocable for a period of sixty (60) Calendar Days following the Submission Deadline.

10. Indigenous Self-Declaration The City is requesting that Bidders identify if their business is at least 51% owned by one or more Indigenous persons of Canada.

YES, 51% or more Indigenous ownership

NO, it is not

This information is being gathered for statistical purposes only and will not be used for purposes of evaluation.

11. Signatures

The Bidder or the Bidder's authorized official or officials have signed this

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

Signature of Bidder or  
Bidder's Authorized Official or Officials

\_\_\_\_\_

(Print here name and official capacity of individual whose signature appears above)

\_\_\_\_\_

(Print here name and official capacity of individual whose signature appears above)

**FORM B: PRICES**  
(See B9)

**SUPPLY AND DELIVERY OF INDUSTRIAL SIDEWALK MACHINES**

**UNIT PRICES**

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Industrial Sidewalk Machine	19039	Each	5	
2.	60" Ribbon Snow Blower with Sidewalk Chute	19031	Each	5	
3.	60" Angle Plow with Attaching Kit	19041	Each	5	
4.	Cold Planer	19040	Each	1	

\_\_\_\_\_  
Name of Bidder

## FORM N: DETAILED SPECIFICATIONS 19039

### INDUSTRIAL SIDEWALK MACHINES

#### **1.0 DESCRIPTION OF EQUIPMENT**

- 1.1 These specifications describe an **Industrial Sidewalk Machine** and other equipment and features as specified herein.
- 1.2 The **Industrial Sidewalk Machine** shall be a new 2019 model year or newer.
- 1.3 The **Industrial Sidewalk Machine** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### **2.0 OTHER SPECIFICATIONS AND STANDARDS**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **Industrial Sidewalk Machine** shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:  
<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:  
<http://web2.gov.mb.ca/laws/regs/current/217.06.pdf>

Canadian Motor Vehicle Safety Standards C.M.V.S.S.  
[http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,\\_c.\\_1038/section-sched3.html](http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.  
<http://web2.gov.mb.ca/laws/regs/index.php?act=h60>

Canadian Standards Association, CSA:  
<http://www.csagroup.org/>

Under Writers of Canada, U/L:  
<http://www.ulc.ca/>

Society of Automotive Engineers, SAE:  
<http://www.sae.org/>

City of Winnipeg Lighting Visibility  
Standard: <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.

- 2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

### **3.0 SERVICE FACILITY**

- 3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Further to B9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

### **4.0 REFERENCES**

- 4.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

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### **5.0 MAKE & MODEL**

- 5.1 **State** make, year and model of the equipment bid- \_\_\_\_\_

### **6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**

- 6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.

- 6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specification is used, the City will also consider deviations and/or equivalents.

- 6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

### **7.0 PERFORMANCE RELIABILITY**

- 7.1 The responsibility for the design of the **Industrial Sidewalk Machine**, its performance and reliability shall rest upon the Contractor.

- 7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

7.3 Where the **Industrial Sidewalk Machine** develops “repeated failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)

## 8.0 **FUEL**

8.1 Where applicable, all equipment must be fully fueled upon delivery (no exceptions).

## 9.0 **QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

9.1 The manufacturer of the **Industrial Sidewalk Machine** shall have five (5) years continuous experience manufacturing the equipment.

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Industrial Sidewalk Machine** of the type being offered.

## 10.0 **SPECIFICATIONS:**

10.1	Type	A four-wheel drive articulating, oscillating, rubber tired, diesel powered multi-purpose heavy duty industrial tractor, designed for year round work, utilizing currently owned City of Winnipeg attachments preferable.	_____
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### **DIMENSIONS**

10.2	Length	Overall length including rear bumper approx. 149 to 155".	_____
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10.3	Height	Height of top of cab including air conditioning and lighting approx. 83 to 88".	_____
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10.4	Track width	Track width (wheel to wheel) with radial tires approx. 50.0".	_____
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10.5	Overall width	Overall width including fenders approx. 50.5".	_____
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10.6	Turning radius	Inside turning radius approx. 90.0", <b>state.</b>	_____
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### **OPERATING WEIGHT**

10.7	Weight	Approx. 6,500-6,900 lbs.	_____
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**ENGINE**

10.8	Engine specification	Diesel, Emissions Tier IV Interim or Final, must meet current Emission Standards.	_____
10.9	Horse Power	Approx. 74 HP Net.	_____
10.10	Torque	Torque approx. 224 lb-ft.	_____
10.11	Engine block heater	Required.	_____
10.12	Cold weather starting aid	Glow plugs or air intake warmer, <b>state</b> type.	_____
10.13	Reversible fan with fan guarding	To reduce dirt and debris from radiator fins.	_____
10.14	Radiator guard	For the rear radiator and oil cooler. (Steel tubing etc.).	_____
10.15	Fuel tank	Single fuel tank capacity approx. 92-100L.	_____

**POWERTRAIN**

10.16	Hydrostatic transmission	Variable hydrostatic drive control by electronic foot pedal programmed to control hydrostatic independently or both engine rpm and hydrostatic simultaneously.	_____
10.17	4 wheel drive	With high/low range and neutral  Or  High/mid/low range and neutral with shift-on-the-fly between ranges.	_____  _____  _____
10.18	Travel Speed	Low range: 0 to 12 km/h (0 to 8 mph)  Mid-range: 0 to 16 km/h (0 to 10 mph)  High range: 0 to 30 km/h (0 to 19 mph)	_____  _____  _____
10.19	Cruise control	Hydrostatic lock/cruise control	_____
10.20	Ride control	Automatically senses ground speed and overhung load of attachment to calculate shock load and cancel out tractor bounce.	_____

**OPTIONS**

10.21	10:1 deep reduction planetary transmission	Four (4) speed ranges, capable of 0-10 feet/minute operating speed for use with a cold planer. <b>State</b> optional price.	\$_____
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**AXLES**

10.22	Front and rear axles	Full float Dana axles with new heavy duty alloy spindles and limited slip differentials.	_____
10.23	Capacity	Approx. 7000-12000 lbs.	_____
10.24	Differential lock	Tractor shall have electrically or electrically over hydraulically activated axle differential locker for front axle.	_____
10.25	Wheel studs	Each axle shall have 6-8 wheel studs, with wheel nut indicators.	_____

**PTO**

10.26	PTO	PTO drive system to be mechanical by way of a clutch. Electric over hydraulic actuation with indicator light.	_____
10.27	Safety	PTO clutch shall include a switch to prevent engagement of the PTO clutch at engine RPM's above idle or equivalent.	_____
10.28	Front PTO	Approx., 1-3/8 inch diameter, 6 spline 540 PTO rpm @ 2160 engine rpm.	_____

**IMPLEMENT HITCHES**

10.29	Hitches	Tractor shall be supplied with a front quick hitch system. Implement height shall be controlled by two double acting hydraulic cylinders that are operated from the operator joystick. Spring load lift latches hold the implement frame in place  Or  Attachment positioning functions controlled by a mechanical 4 spool valve. Four (4) valves incorporate float settings with attachment positioning control valve that allows simultaneous operation of all 4 functions.	_____          _____
10.30	Attachments	Tractor shall be capable of attaching and operating existing attachments already owned by the City of Winnipeg.	_____

10.31 Lift \_\_\_\_\_  
Tractor shall be equipped with an externally mounted control switch for operation of the main lift cylinders to allow an operator to easily and safely attach/detach attachments from outside the cab or equivalent. For safety reasons this shall also be connected to a safety switch in the operators seat to disable this control if there is another operator in the cab. Hydraulics shall operate at reduced pressure and speed for predictable and safe operation.

Or

With (4) spool valve to allow finite proportional control of attachment positioning functions by way of a dash mounted dial. With adjustable circuit between 2- 12 GPM. \_\_\_\_\_

**BRAKING SYSTEMS**

10.32 Braking \_\_\_\_\_  
• Hydrostatic dynamic braking \_\_\_\_\_  
• Mechanically or hydraulically actuated emergency/parking brakes. \_\_\_\_\_

10.33 Service brakes \_\_\_\_\_  
Hydraulic service brakes (drum and shoes) on all 4 wheels. \_\_\_\_\_  
Or \_\_\_\_\_  
Internal wet style disc brakes on all 4 wheels. \_\_\_\_\_

**WHEELS AND TIRES**

10.34 Tires \_\_\_\_\_  
Commercial grade winter rated snow/ice radial, LT 245/75R x 16, 10-ply radials mounted on heavy duty steel rims. **State** make and model.

**HYDRAULIC SYSTEM**

10.35 Hydraulic gear pump for tractor drive, steering and attachments \_\_\_\_\_  
Approx. 20-24 gpm.

10.36 Couplers \_\_\_\_\_  
Six front hydraulic couplers (3 pairs) to be supplied for various City of Winnipeg currently owned attachments.

10.37 Auxiliary hydraulic gear pump \_\_\_\_\_  
To supply 2 front couplers (1 pair) with a high volume of fluid dedicated to power attachments requiring approx. 14-18 gpm,.

10.38	Rear coupler	With 1 pair of guarded high flow hydraulic couplers to power various attachments. Hydraulic circuit equipped with an "auto off" control for when the tractor is stopped or reversed.	_____
10.39	Coding	Hydraulic couplers shall be colour coded.	_____
10.40	Hoses	Hydraulic hoses to have NPT, SAE straight thread or SAE split flange fittings (metric not acceptable). Main hydraulic lines from pump to drive motor fabricated high strength metal tubing and secured to side frame rail.	_____
10.41	Tank	Hydraulic tank equipped with a main shutoff valve.	_____

**ELECTRICAL**

10.42	Voltage	12 volt, negative ground system	_____
10.43	Batteries	Approx. 950 CCA batter with remote boost terminals. With battery disconnect switch in cab. Switch to be lockable in the off position.	_____
10.44	Alternator	Approx. 200 Amps.	_____
10.45	Breaker	Main breaker switch protection.	_____
10.46	Instrumentation (gauges)	Tachometer and non-resettable hour meter, coolant temperature, engine oil pressure, hydraulic oil pressure, voltmeter, fuel gauge, speedometer with odometer.	_____
10.47	Independent 12 volt circuit	For 2 way radio or other accessories	_____
10.48	Towing provisions	7 prong trailer plug with brake controller and trailer hitch with 2-5/16" ball for towing sander spreaders and side walk flushers.	_____
10.49	Wiring harness	Wiring harnesses shall be professionally manufactured with terminals that are machine crimped to ISO standards. All wiring connections to be soldered, crimped, and heat shrunk.	_____
10.50	Wire locations	Both ends of all harness wires shall have letter location codes and wire numbers printed permanently on the wire insulation. Codes and numbers shall be shown on all parts manual exploded views and wiring schematic drawings and charts.	_____

- |       |            |   |       |
|-------|------------|---|-------|
| 10.51 | Wires      | All single wires not part of a harness shall have a part number permanently printed on the insulation. All wiring connections to be soldered, crimped, and heat shrunk. | _____ |
| 10.52 | Fuses      | To be mini blade type and shall be contained within a IP76 water tight enclosure.   | _____ |
| 10.53 | Connectors | Shall be standard Packard weatherproof. Bulkhead connectors shall be twist lock type. All wiring connections to be soldered, crimped, and heat shrunk.                  | _____ |

**LIGHTING**

- |       |                       |   |       |
|-------|-----------------------|---|-------|
| 10.54 | Lights                | There shall be 4 LED headlights and 1 LED backup light, 1 rear work light. All 6 lights are to be of the same make for parts consistency, adjustable by the operator if needed, and protected by a suitable cage to prevent damage from branches and other obstacles. (All lighting shall be sufficiently guarded for application and City of Winnipeg operating environment). All wiring connections to be soldered, crimped, and heat shrunk. | _____ |
| 10.55 | Signals               | There shall be signal lights, 4 way flashers, and an interior dome light and shock proof rubber mounted tail lights. Rear mount stop tail lights shall be mounted in a location not to impede visibility when utilizing a tow behind sander spreader.   | _____ |
| 10.56 | Safety lighting       | There shall be amber and blue LED roof-mounted strobe type flashers at all four corners of the tractor for 360 degree visibility (4 blue and 4 amber = 8 lights in total). The strobe lights shall be incorporated into the roof-top cage to prevent damage from branches and other obstacles. These amber and blue light circuits are to be individually switched for independent or simultaneous operation when chosen.                       | _____ |
| 10.57 | Type                  | All lighting except headlights are to be LED.   | _____ |
| 10.58 | Brake light operation | Brake lights are to illuminate when machine is put into gear and turn off when hydrostatic pedal is depressed.  | _____ |

**CAB**

10.59	Cab panels	All panels and roof shall be steel. Steel sides to be 10 gauge or heavier. Steel or flexible rubber fenders.	_____
		Or	
		Hoods, cab roof and side panels: TPO (Thermoplastic Polyolefin) composite material with flexible rubber fenders. Metal access door.	_____
10.60	Roof guard protection	If roof is not steel	_____
10.61	Cab structure	ROPS (Roll Over Protection) system Certified ROPS cab structure with certification label.	_____
10.62	HVAC system	Heating/air conditioning with cab pressurization.	_____
10.63	Front window	With intermittent wiper and washer	_____
10.64	Rear window	With intermittent wiper and washer	_____
10.65	Dual inside mirrors	Required.	_____
10.66	Exterior mirrors	Two exterior, vibration free side view mirrors with easily fold back (break-away) to prevent damage from branches, fences and other obstacles.	_____
10.67	Seat	High back fabric-covered seat with adjustable armrests and lumbar support. Seat shall be air ride suspension with 3 point seat belt including shoulder harness (shall be retractable type).	_____
10.68	Seat belt warning light	Located on instrument panel.	_____
10.69	Radio	AM/FM/Bluetooth stereo, dual speakers and external aerial. Hands free communication.	_____
10.70	Steering	Tilt steering column with self-cancelling turn signals. Horn button mounted in the center of the steering wheel.	_____

10.71	Attachment controls	Joystick control with 8 backlit membrane switches. 4 float position switches with additional LED indicator lights. Switches colour coded to circuits. FNR (forward/neutral/reverse) switch.	_____
		Or	
		Mechanical 4 spool valve. All (4) valves incorporate float settings. Attachment positioning control valve allows simultaneous operation of all 4 functions.	_____
10.72	Glass	DOT approved tinted, tempered safety glass for all windows.	_____
10.73	Side windows	Slider type.	_____
10.74	Sound deadening material	Sound deadening material on both the cab walls and floor. Floor matting shall have heavy-duty vinyl wear surface.	_____
10.75	Pocket	Operator's manual pocket inside cab, within easy reach of the operator.	_____
	<b><u>PAINT/FINISHED</u></b>		
10.76	Paint	All steel components prepped in 4 stage phosphate wash, 2 part epoxy primer with rust inhibitor, 2 part polyurethane automotive top coat.	_____
		Or	
		Thermoplastic polyolefin (TPO): Hood and cab roof.	_____
10.77	Corrosion resistance	The following parts shall be zinc plated: <ul style="list-style-type: none"><li>• Lift latches, levers, linkages and secondary locks</li><li>• Battery hold down straps and bolts</li><li>• Hood support rod</li><li>• Fender side mounting brackets</li><li>• Door striker plates</li><li>• Miscellaneous small mounting brackets</li></ul>	_____
10.78	Insulating material	Insulating material to prevent galvanic corrosion shall be provided at all possible areas of contact between dissimilar metals. The insulation material used shall be nonporous.	_____
10.79	Colour	Yellow or red exterior with black trim, grey/black interior.	_____

**WARNING DECALS**

- 10.80 The following decals are required on the tractor
- 10.81 Pinch pint decals \_\_\_\_\_
- 10.82 Danger: rotating shaft decal \_\_\_\_\_
- 10.83 Function/operation decal \_\_\_\_\_
- 10.84 Diesel fuel only: on fuel reservoir (0.75" high letters). \_\_\_\_\_
- 10.85 Diesel exhaust fluid only: on fluid reservoir (0.75" high letters). \_\_\_\_\_
- 10.86 Hydraulic oil only: on oil reservoir (0.75" high letters). \_\_\_\_\_
- 10.87 Decals for adjustment procedures \_\_\_\_\_
- 10.88 Grease chart decal: approx. 11" x 12" under top hood. Decal shall include illustrations for showing grease points. \_\_\_\_\_
- 10.89 ROPS Certification: metal tag. \_\_\_\_\_
- 10.90 Serial number/model/model year: metal tag. \_\_\_\_\_

**SAFETY**

- 10.91 Neutral safety start To prevent the engine from starting unless shifted into neutral. \_\_\_\_\_
- 10.92 Fire extinguisher 2.5 lbs. High volume ABC type, and flare kit, **state** location. \_\_\_\_\_
- 10.93 Seat safety switch Shall automatically shut down the engine if the operator leaves the seat without placing the shifter into neutral. The seat safety switch shall automatically shut down the PTO circuit if the operator leaves the seat without turning off the PTO button. The seat safety switch shall automatically shut off hydraulic flow to the rear couplers for the sidewalk sander if the operator leaves the seat. \_\_\_\_\_
- 10.94 Reflective stripping On both sides of cab and rear side hoods, as well as on the rear hood below the taillights. \_\_\_\_\_
- 10.95 Cab Entry Easy access for operator entry/exit. There shall be a step no higher than 14" above the ground. The step shall be approximately 11" wide and shall be behind the front wheel. \_\_\_\_\_

10.96	PTO Access	Access to the PTO shaft shear bolt shall be from inside the cab. This is also where the PTO shaft is connected when attaching an implement.	_____
10.97	Utilization( mowing operations)	In the event that the City of Winnipeg utilizes the tractor to perform mowing operations, the hydraulic circuits that power the mower wings shall turn off automatically when wings are raised to a pre-determined angle. When lowered, they shall be re-started. This feature shall be designed into the tractor for future additional attachment purchases.	_____
10.98	Back-up alarm	Approx. 105 dB., <b>state.</b>	_____
10.99	Back-up camera	Required.	_____
10.100	Slow moving sign	Slow-moving vehicle warning triangle.	_____

**GREASING SYSTEM**

10.101	Greasing system:	NLGI-0 heavy-duty automatic lubrication system -System layout shall perform under the operating principles of a Parallel injection system (Progressive systems not acceptable).System shall be connected to all grease points, outfitted with automatic low level shut-off, with an in cab monitor showing system status such as low level, low pressure and/ or fault code display.	_____
10.102	Pump reservoir	a), a 3-4 kg reservoir (due to space confinements) and parameters preprogrammed required, accommodating a 500 hour service interval. Pump to be mounted vertical, and have the correct filler adapter fitting for City of Winnipeg maintenance staff to refill reservoir. Pump and pump mounting bracket to be mounted to the machine, secured and free of any movement. Pump to be guarded to avoid impact with trees and debris. Pump to be mounted with rubber or neoprene isolators to prevent galvanic corrosion.  b) For safety reasons, access to refill the pump reservoir shall be via remote fill line of min. 3/8in. hose to accommodate a refill procedure at ground level.	_____
10.103	Power input	System power connection 12-24-Volt to ignition source with an accessible fuse protection and for greasing system to shut down completely when the engine is turned off (LED lights supplied by a battery source power not acceptable).	_____



10.104 Grease lines

a) Main grease lines: Extreme Low temperature (example: Eaton Aero Quip Match Mate Global Ice SAE 100R16) steel braided rubber hose with compatibility to accommodate max working pressure of 6000psi. Each hose on all connected points outfitted with #4 JIC crimped ends between pump and manifold(s). **State** grease line burst pressure:\_\_\_\_\_

b) Secondary grease lines: 3/16 in. nylon heavy wall secondary grease line or equivalent, and must be installed and protected from extreme environments such as heat sources and components producing vibration. \_\_\_\_\_

c) In extreme environment areas such as the lower machine articulator pin, and front plow attachments, heavy wall pipe must be fitted. \_\_\_\_\_

10.105 Thread sealant

Applied to main and secondary grease lines of each fitting. \_\_\_\_\_

10.106 Greasing points

a) **State**, quantity of greasing points. \_\_\_\_\_

b) **State**, quantity of grease points that cannot be connected to the automatic lubrication system but will be connected with remote grease lines. Where remote lines are utilized, decals must be applied stating manual greasing is required with recommended grease application intervals. \_\_\_\_\_

10.107 Injector manifolds

All manifolds to be fitted with nylon lock nut hardware and securely mounted in an area away from debris impact. Special guards should be fitted for injector manifolds and hoses in areas of consistent debris impact, i.e., snow and ice over the plow blade, road spray, etc. \_\_\_\_\_

10.108 Environmental impact, over-greasing, System Layout

The system layout and grease injector delivery shall not over-grease any component to the extent where OEM warranties are voided. In addition, environmental impact features shall be incorporated in the automatic lubrication system, i.e., no grease pumped while parked or leaving excessive grease on roadways. Any modification to mount the system that requires drilling, cross drilling, enlargement of existing fitting sizes by drilling and tapping or welding must be preapproved by the contractor administrator prior to installation. Such activities can and will void warranty thereby holding the auto greasing system company liable for any costs and damages involved with the equipment. \_\_\_\_\_

**OPERATOR STATION ERGONOMICS**

**Entry/ Exit**

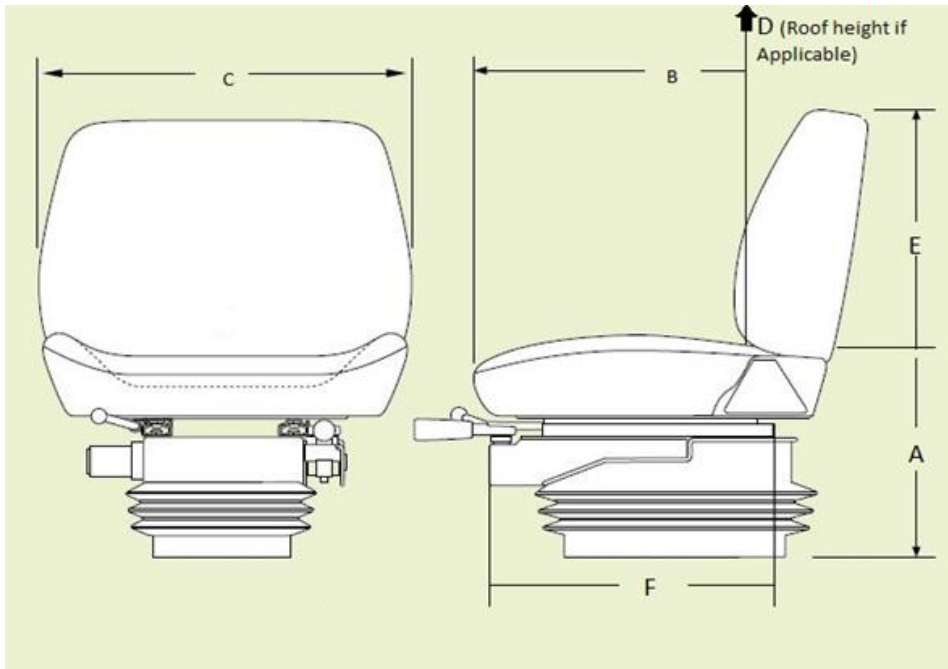
10.109 First step entry height **State**, height of first step in inches. \_\_\_\_\_

10.110 First handhold entry height **State**, first handhold entry height in inches. \_\_\_\_\_

10.111 Access to equipment **State**, door opening height in inches. \_\_\_\_\_

- |        |                              |  |       |
|--------|------------------------------|--|-------|
| 10.112 | Access to equipment          | <b>State</b> , door opening width in inches. | _____ |
| 10.113 | Designed to prevent slipping | Anti-slip steps/handholds <b>(Y or N)?</b>   | _____ |

**Seat (use below diagram to answer questions)**



- |        |   |   |       |
|--------|---|---|-------|
| 10.114 | Sitting height range from floor (where feet rest) (A) | <b>State</b> , seat height range in inches. | _____ |
| 10.115 | Seat length/depth (B)                                 | <b>State</b> , seat length/depth in inches. | _____ |
| 10.116 | Seat width (C)  | <b>State</b> , seat width in inches.        | _____ |
| 10.117 | Cab height from seat to roof (if applicable) (D)      | <b>State</b> , cab height range in inches.  | _____ |
| 10.118 | Back rest height (E)                                  | <b>State</b> , back rest height in inches.  | _____ |
| 10.119 | Seat travel range (F)                                 | <b>State</b> , seat travel in inches.       | _____ |
| 10.120 | Lumbar support  | Is lumbar support provided <b>(Y or N)?</b> | _____ |
| 10.121 | Head rest   | Is head rest provided <b>(Y or N)?</b>      | _____ |
| 10.122 | Seat is made of breathable material                   | <b>State</b> , type of seat material.       | _____ |

**Operation**

- |        |  |  |       |
|--------|--|--|-------|
| 10.123 | Reaching distance to usual work              | <b>State</b> , reaching distance in inches.      | _____ |
| 10.124 | Maximum reaching distance                    | <b>State</b> , maximum reach distance in inches. | _____ |
| 10.125 | Adjustable pedals (accelerator/brake/clutch) | Are pedals adjustable <b>(Y or N)?</b>           | _____ |
| 10.126 | Adjustable steering wheel                    | Is steering wheel adjustable <b>(Y or N)?</b>    | _____ |

10.127 Adjustable shoulder belt Is belt adjustable and anchored (**Y or N**)? \_\_\_\_\_

**11.0 GUARANTEE BUYBACK OPTION**

11.1 If available, the Bidder should provide a guaranteed buyback amount per unit for all five (5) units. The Bidder should provide all terms and conditions to honor the guaranteed buyback price with their bid.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11.2 Guaranteed Buyback (based on 2700 hours for 4 years). \$ \_\_\_\_\_

11.3 Guaranteed Buyback (based on 4000 hours for 6 years). \$ \_\_\_\_\_

11.4 Guaranteed Buyback (based on 4600 hours for 7 years) . \$ \_\_\_\_\_

11.5 Guaranteed Buyback (based on 5300 hours for 8 years). \$ \_\_\_\_\_

**12.0 FULL MAINTENANCE PACKAGE (OPTION)**

12.1 Bidder to provide prices for full maintenance package option per unit:

12.2 Full maintenance package (based on 670 hours per year for 3 years). \$ \_\_\_\_\_

12.3 Full maintenance package (based on 670 hours per year for 4 years). \$ \_\_\_\_\_

12.4 Full maintenance package (based on 670 hours per year for 5 years). \$ \_\_\_\_\_

12.5 Full maintenance package (based on 670 hours per year for 6 years). \$ \_\_\_\_\_

12.6 **City Responsibility:** Under the Full Maintenance Package proposal the City shall be responsible for the following items for equipment under this Contract: \_\_\_\_\_

- Licensing and insurance coverage for the equipment;
- Repair of damage to the equipment where damage has proven to have been caused by negligence on the part of the City;
- Repair or replacement of tires damaged due to road hazards;
- Fuel and other normal operating and maintenance supplies including daily and weekly maintenance such as greasing, cleaning, drainage of water.
- Consumables including fuel, brooms, broom adjustments;
- Conveyor belt;
- Windshield wipers;
- Daily greasing.

12.7 **Contractor Responsibility:** Under the Full Maintenance Package proposal the Contractor shall be responsible for the following items for equipment under this Contract: \_\_\_\_\_

- All scheduled maintenance including (but not limited to) oil and filter changes, and regular service adjustments as recommended by the equipment and chassis manufacturers;
- All preventative and predictive maintenance;
- All repairs due to mechanical failure or malfunction;
- Towing costs (if unit is immobile);
- All parts and labour costs;
- Tires due to normal wear.

13.0 **WARRANTY**

13.1 All warranty information shall be detailed and include all exclusions. The Contractor shall provide all published warranty information upon delivery of the equipment. Bidder shall state all warranty information. \_\_\_\_\_

13.2 Basic vehicle **State.** \_\_\_\_\_

13.3 Batteries **State.** \_\_\_\_\_

13.4 Drivetrain **State.** \_\_\_\_\_

13.5 Cab structure/corrosion **State.** \_\_\_\_\_

13.6 Frame/cross-members **State.** \_\_\_\_\_

13.7 Cab paint **State.** \_\_\_\_\_

13.8 Engine **State.** \_\_\_\_\_

13.9 Transmission **State.** \_\_\_\_\_

13.10 Axles, front and rear **State.** \_\_\_\_\_

14.0 **DELIVERY**

14.1 Delivery Point: The complete unit(s) shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order. \_\_\_\_\_

14.2 Delivery Time: **Six to Eight (6-8) calendar weeks** from the date of award. Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days. \_\_\_\_\_

14.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. \_\_\_\_\_

14.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list \_\_\_\_\_

15.0 **MANUALS**

15.1 Manuals supplied under this Contract. The manuals shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. \_\_\_\_\_

15.2 The following manuals shall be supplied with the units when delivered:

a) Operator's manual – Two (2) per unit (one operator manual (hard copy) shall be sent to the Equipment Operator Training Branch \_\_\_\_\_

b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs or USB flash drive are preferred. \_\_\_\_\_

16.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT**

16.1 In order to assure minimum downtime of the equipment in future service, the Contractor shall provide one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, transmission, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing and first transmission service. \_\_\_\_\_

16.2 The Contractor shall provide a list of factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during preventative maintenance servicing. \_\_\_\_\_

17.0 **PARTS/LABOUR PRICING**

17.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. **State percentage discount-** %\_\_\_\_\_

17.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. **State percentage discount-** %\_\_\_\_\_

## FORM N: DETAILED SPECIFICATIONS 19031

### RIBBON SNOW BLOWER-FRONT MOUNT

#### **1.0 DESCRIPTION OF EQUIPMENT**

- 1.1 These specifications describe an **Ribbon Snow Blower** and other equipment and features as specified herein.
- 1.2 The **Ribbon Snow Blower** shall be a new 2019 model year or newer.
- 1.3 The **Ribbon Snow Blower** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### **2.0 OTHER SPECIFICATIONS AND STANDARDS**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **Ribbon Snow Blower** shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:  
<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:  
<http://web2.gov.mb.ca/laws/regs/current/217.06.pdf>

Canadian Motor Vehicle Safety Standards C.M.V.S.S.  
[http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,\\_c.\\_1038/section-sched3.html](http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.  
<http://web2.gov.mb.ca/laws/regs/index.php?act=h60>

Canadian Standards Association, CSA:  
<http://www.csagroup.org/>

Under Writers of Canada, U/L:  
<http://www.ulc.ca/>

Society of Automotive Engineers, SAE:  
<http://www.sae.org/>

City of Winnipeg Lighting Visibility  
Standard: <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.

- 2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

### **3.0 SERVICE FACILITY**

- 3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Further to B9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

### **4.0 REFERENCES**

- 4.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

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### **5.0 MAKE & MODEL**

- 5.1 **State** make, year and model of the equipment bid- \_\_\_\_\_

### **6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**

- 6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.

- 6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specification is used, the City will also consider deviations and/or equivalents.

- 6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

### **7.0 PERFORMANCE RELIABILITY**

- 7.1 The responsibility for the design of the **Ribbon Snow Blower**, its performance and reliability shall rest upon the Contractor.

- 7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

- 7.3 Where the **Ribbon Snow Blower** develops “repeated failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.
- 7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)

**8.0 FUEL**

- 8.1 Where applicable, all equipment must be fully fueled upon delivery (no exceptions).

**9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

- 9.1 The manufacturer of the **Ribbon Snow Blower** shall have five (5) years continuous experience manufacturing the equipment.
- 9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.
- 9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Ribbon Snow Blower** of the type being offered.

**10.0 SPECIFICATIONS:**

- |       |  |   |
|-------|--|---|
| 10.1  | Ribbon Snow Blower to be front mount and compatible with <b>Trackless MT7 Sidewalk Tractors</b> . Ribbon Snow Blower shall be complete with all hardware (including any electrical harnesses, mounting brackets, attaching kits etc.) necessary for hook-up and proper operation for the intended application. | _____   |
| 10.2  | Ribbon style snow blower   | With end plates 3/8" steel. _____   |
| 10.3  | Blower width   | 60 inches, <b>state</b> . _____   |
| 10.4  | Housing height   | Approx. 38 inches, <b>state</b> . _____   |
| 10.5  | Auger  | 28 inch diameter ribbon with ice picks. _____   |
| 10.6  | Impeller   | Five (5) scoop blades approx. 7.5" x 24" diameter with 2 piece replaceable housing liner. _____ |
| 10.7  | Cutting edge   | Hardened steel, reversible ½ " x 6", <b>state</b> _____   |
| 10.8  | Overall length   | Approx. 56 inches, <b>state</b> . _____   |
| 10.9  | Overall height   | Approx. 90 inches, <b>state</b> . _____   |
| 10.10 | Overall weight   | Approx. 1650lbs, <b>state</b> . _____   |
| 10.11 | Gear box (auger and impeller):   | PTO to gear box with 2" diameter impeller output shaft. Chain drive auger. _____                |
| 10.12 | Shear bolts  | Main PTO and on augers. _____   |
| 10.13 | Adjustable cutting height  | Adjustable shoe brackets. _____   |
| 10.14 | Skid shoes   | Hardened steel 1.5" thick, free pivoting. _____   |



- 10.15 Controls Raising/lowering, chute rotation hydraulically controlled, and chute deflector controlled hydraulically from single joystick inside tractor cab. \_\_\_\_\_
- 10.16 Discharge chute (hydraulically controlled) Side walk chute with throat clearance of approx. 87". \_\_\_\_\_
- 10.17 Discharge chute rotation (hydraulically controlled) Rotates on ball bearing system, rotation approx. 270°. \_\_\_\_\_
- 10.18 Hydraulic hoses and quick couplers Couplers to be colour coded. \_\_\_\_\_
- 10.19 Grease Fittings All pivot and rotational points \_\_\_\_\_

11.0 **WARRANTY**

- 11.1 All warranty information shall be detailed and include all exclusions. The Contractor shall provide all published warranty information upon delivery of the equipment. Bidder shall state all warranty information. \_\_\_\_\_
- 11.2 Defect of workmanship, construction and materials **State:** \_\_\_\_\_ \_\_\_\_\_
- 11.3 Hydraulic cylinders **State:** \_\_\_\_\_ \_\_\_\_\_

12.0 **DELIVERY**

- 12.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order \_\_\_\_\_
- 12.2 Delivery Time: **State earliest delivery time** from the date of award. Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days. \_\_\_\_\_
- 12.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. \_\_\_\_\_
- 12.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list \_\_\_\_\_

13.0 **MANUALS**

- 13.1 Manuals supplied under this Contract. The manuals shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. \_\_\_\_\_

13.2 The following manuals shall be supplied with the units when delivered:

a) Operator's manual – Three (3) per unit (one operator manual (hard copy) shall be sent to the Equipment Operator Training Branch \_\_\_\_\_

b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs or USB flash drive are preferred. \_\_\_\_\_

14.0 **PARTS/LABOUR PRICING**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. **State percentage discount-** %\_\_\_\_\_

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. **State percentage discount-** %\_\_\_\_\_

## FORM N: DETAILED SPECIFICATIONS 19041

### ANGLE PLOW-FRONT MOUNT

#### **1.0 DESCRIPTION OF EQUIPMENT**

- 1.1 These specifications describe an **Angle Plow** and other equipment and features as specified herein.
- 1.2 The **Angle Plow** shall be a new 2019 model year or newer.
- 1.3 The **Angle Plow** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### **2.0 OTHER SPECIFICATIONS AND STANDARDS**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **Angle Plow** shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:  
<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:  
<http://web2.gov.mb.ca/laws/regs/current/217.06.pdf>

Canadian Motor Vehicle Safety Standards C.M.V.S.S.  
[http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,\\_c.\\_1038/section-sched3.html](http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.  
<http://web2.gov.mb.ca/laws/regs/index.php?act=h60>

Canadian Standards Association, CSA:  
<http://www.csagroup.org/>

Under Writers of Canada, U/L:  
<http://www.ulc.ca/>

Society of Automotive Engineers, SAE:  
<http://www.sae.org/>

City of Winnipeg Lighting Visibility  
Standard: <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.

- 2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

### **3.0 SERVICE FACILITY**

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Further to B9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

### **4.0 REFERENCES**

4.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

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### **5.0 MAKE & MODEL**

5.1 **State** make, model and year of the equipment bid- \_\_\_\_\_

### **6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**

6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.

6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

### **7.0 PERFORMANCE RELIABILITY**

7.1 The responsibility for the design of the **Angle Plow**, its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

7.3 Where the **Angle Plow** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)

**8.0 FUEL**

8.1 Where applicable, all equipment must be fully fueled upon delivery (no exceptions).

**9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

9.1 The manufacturer of the **Angle Plow** shall have five (5) years continuous experience manufacturing the equipment.

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Angle Plow** of the type being offered.

**10.0 SPECIFICATIONS:**

10.1 Angle Plows to be front mount and compatible with **Trackless MT7 Sidewalk Tractors**. Angle plows shall be complete with all hardware (including any electrical harnesses, mounting brackets, attaching kits etc.) necessary for hook-up and proper operation for the intended application. \_\_\_\_\_

10.2 Plow width 60 inches, **state**. \_\_\_\_\_

10.3 Blade height Approx. 30inches, **state**. \_\_\_\_\_

10.4 Overall length Approx. 48 inches, **state**. \_\_\_\_\_

10.5 Overall weight Approx. 350lbs, **state**. \_\_\_\_\_

10.6 Cutting edge Hardened steel, reversible ½ " x 6", **state**. \_\_\_\_\_

10.7 Skid shoes Two (2) adjustable. \_\_\_\_\_

10.8 Blade angle change Approx. 30° left and right of centre. \_\_\_\_\_

10.9 Hydraulic cylinders Two (2) single acting cylinders with cushion valve to protect plow if an object is struck. \_\_\_\_\_

10.10 Down pressure (blade) Plow capable of operating under hydraulic down pressure. \_\_\_\_\_

10.11 Trip system Full blade trip, returns to upright position when blade assembly raised. Blade tips forward to ride over obstructions. \_\_\_\_\_

10.12 Hydraulic hoses and quick couplers Couplers to be colour coded \_\_\_\_\_

10.13 Grease Fittings All pivot and rotational points \_\_\_\_\_

**11.0 WARRANTY**

11.1 All warranty information shall be detailed and include all exclusions. \_\_\_\_\_

The Contractor shall provide all published warranty information upon delivery of the equipment.

Contractor shall state all warranty information.

11.2 Defect of workmanship, construction and materials **State.** \_\_\_\_\_

11.3 Hydraulic cylinders **State.** \_\_\_\_\_

12.0 **DELIVERY**

12.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order \_\_\_\_\_

12.2 Delivery Time: **State earliest delivery time** from the date of award. Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days. \_\_\_\_\_

12.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. \_\_\_\_\_

12.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list \_\_\_\_\_

13.0 **MANUALS**

13.1 Manuals supplied under this Contract. The manuals shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. \_\_\_\_\_

13.2 The following manuals shall be supplied with the units when delivered:

a) Operator's manual – Three (3) per unit (one operator manual (hard copy) shall be sent to the Equipment Operator Training Branch \_\_\_\_\_

b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs or USB flash drive are preferred. \_\_\_\_\_

14.0 **PARTS/LABOUR PRICING**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. **State percentage discount-** \_\_\_\_\_

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. **State percentage discount-** \_\_\_\_\_

## FORM N: DETAILED SPECIFICATIONS 19040

### COLD PLANER

#### **1.0 DESCRIPTION OF EQUIPMENT**

- 1.1 These specifications describe a **Cold Planer** and other equipment and features as specified herein.
- 1.2 The **Cold Planer** shall be a new 2019 model year or newer.
- 1.3 The **Cold Planer** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### **2.0 OTHER SPECIFICATIONS AND STANDARDS**

- 2.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 2.2 The **Cold Planer** shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:  
<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:  
<http://web2.gov.mb.ca/laws/regs/current/217.06.pdf>

Canadian Motor Vehicle Safety Standards C.M.V.S.S.  
[http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,\\_c.\\_1038/section-sched3.html](http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.  
<http://web2.gov.mb.ca/laws/regs/index.php?act=h60>

Canadian Standards Association, CSA:  
<http://www.csagroup.org/>

Under Writers of Canada, U/L:  
<http://www.ulc.ca/>

Society of Automotive Engineers, SAE:  
<http://www.sae.org/>

City of Winnipeg Lighting Visibility  
Standard: <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>.

2.3 It will be the responsibility of the Bidder to inform the City of any deficiencies in these specifications, for under this Contract the Contractor shall be held responsible for the design, performance, reliability and satisfactory operational function of the units.

**3.0 SERVICE FACILITY**

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Further to B9.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

**4.0 REFERENCES**

4.1 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

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**5.0 MAKE & MODEL**

5.1 **State** make, year and model of the equipment bid- \_\_\_\_\_

**6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**

6.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Bid Opportunity package.

6.2 All items in these specifications must be answered indicating compliance or non-compliance. **BIDDERS SHALL STATE "YES" FOR COMPLIANCE OR STATE DEVIATION**, or give reply where requested to do so. Deviations and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specification is used, the City will also consider deviations and/or equivalents.

6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

**7.0 PERFORMANCE RELIABILITY**

7.1 The responsibility for the design of the **Cold Planer**, its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.



- 7.3 Where the **Cold Planer** develops “repeated failures” in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.
- 7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)

**8.0 FUEL**

- 8.1 Where applicable, all equipment must be fully fueled upon delivery (no exceptions).

**9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

- 9.1 The manufacturer of the **Cold Planer** shall have five (5) years continuous experience manufacturing the equipment.
- 9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.
- 9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **Cold Planer** of the type being offered.

**10.0 SPECIFICATIONS:**

- 10.1 Cold Planer to be front mount and compatible with **Trackless MT7 Sidewalk Tractors**. Cold planer shall be complete with all hardware (including any electrical harnesses, mounting brackets, attaching kits etc.) necessary for hook-up and proper operation for the intended application. \_\_\_\_\_
- 10.2 Planing width Approx. 16 inches. \_\_\_\_\_
- 10.3 Planing depth Approx. 0 to 6 inches. \_\_\_\_\_
- 10.4 Asphalt drum Approx. 50 picks. \_\_\_\_\_
- 10.5 Concrete drum Approx. 160 picks. \_\_\_\_\_
- 10.6 Hydraulic controlled Tilt: ±19°  
Depth: 0 to 6 inches.  
Side shift: 0 to 22 inches. \_\_\_\_\_
- 10.7 Drive Double reduction planetary \_\_\_\_\_
- 10.8 Drum torque Approx. 25,000 in/lbs @ 2,000 psi \_\_\_\_\_
- 10.9 Length Approx. 69 inches. \_\_\_\_\_
- 10.10 Width Approx. 70 inches. \_\_\_\_\_
- 10.11 Height Approx. 45 inches. \_\_\_\_\_
- 10.12 Weight Approx. 1900 lbs. \_\_\_\_\_

**11.0 WARRANTY**

11.1 All warranty information shall be detailed and include all exclusions. \_\_\_\_\_

The Contractor shall provide all published warranty information upon delivery of the equipment.

Contractor shall state all warranty information.

11.2 Defect of workmanship, construction and materials **State.** \_\_\_\_\_

11.3 Hydraulic cylinders/motors **State.** \_\_\_\_\_

12.0 **DELIVERY**

12.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The successful bidder shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order \_\_\_\_\_

12.2 Delivery Time: **State earliest delivery time** from the date of award. Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days. \_\_\_\_\_

12.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. \_\_\_\_\_

12.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list \_\_\_\_\_

13.0 **MANUALS**

13.1 Manuals supplied under this Contract. The manuals shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. \_\_\_\_\_

13.2 The following manuals shall be supplied with the units when delivered:

a) Operator's manual – Three (3) per unit (one operator manual (hard copy) shall be sent to the Equipment Operator Training Branch \_\_\_\_\_

b) Parts and service manuals – one (1) complete sets including preventative maintenance schedules. CDs or USB flash drive are preferred. \_\_\_\_\_

14.0 **PARTS/LABOUR PRICING**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. **State percentage discount-** \_\_\_\_\_

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. **State percentage discount-** \_\_\_\_\_

**FORM N: TRADE-IN OPTION**

**1.0 TRADE-IN OPTION**

1.1 This Tender includes the provision of a “trade-in option” of five (5) used sidewalk machines. The Bidder may include price amounts for the used sidewalk machines noted below. All machines listed below were purchased new, and used solely by The City of Winnipeg. A brief description of the equipment is as follows:

**5 Units**

2011 Prinoth SW4S

100HP Tier III

**Attachments**

4x Snow Plow Machinability 5TE 35 (with units 3511631, 3511633, 3511634, 3511636)

1x Snow Plow COTE KL6000 (with 3511637)

1X Snow Blower Pronovost P-250-C (with unit 3511637)

1.2 To evaluate the condition of used machines and attachments, Bidders may view the equipment. Viewing of the machines can be arranged within one (1) calendar week prior to the Submission Deadline of the Bid Opportunity by contacting the Contract Administrator.

<b>Vehicles Unit #</b>	<b>City Department</b>	<b>Year</b>	<b>Make/Model</b>	<b>Vin #</b>	<b>Operating Hours as of 24/10/2019</b>
3511631	PW-SM-NORTH AREA	2011	Prinoth SW4S	900200361	3550
3511633	PW-SM-NORTH AREA	2011	Prinoth SW4S	900200363	2400
3511634	PW-SM-NORTH AREA	2011	Prinoth SW4S	900200364	3400
3511636	PW-SM-EAST AREA	2011	Prinoth SW4S	900200373	2500
3511637	PW-SM-EAST AREA	2011	Prinoth SW4S	900200378	2300

1.3 Trade-in Option: for sidewalk machines and associated attachments.

<b>ITEM NO.</b>	<b>SIDEWALK MACHINE UNIT NUMBER</b>	<b>TRADE IN PRICE (CDN FUNDS) OPTIONAL</b>
1	3511631	\$ _____
2	3511633	\$ _____
3	3511634	\$ _____
4	3511636	\$ _____
5	3511637	\$ _____