

## FORM N: DETAILED SPECIFICATIONS 21001

### REAR POWER ANGLE SWEEPER

#### 1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
- 1.2 **Proponents shall state “yes” for compliance or state “deviation”**, or give a 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 specifications is used, the City will also consider deviations and/or equivalents.
- 1.3 Lengthy explanations of deviations may be included in a separate document and must reference the appropriate Detailed Specification.
- 1.4 Each Proponent is required to fill in every blank. Failure to do so may be used as a basis for rejection of bid.
- 1.5 It will be the responsibility of the Proponent to inform the City of any errors or omissions in these Detailed Specifications, for under this Contract, the Contractor shall be held responsible to ensure that the manufacturer will be responsible for the design, performance, reliability and satisfactory operational function of the unit.

#### 2. DESCRIPTION OF EQUIPMENT

- 2.1 These specifications describe **Rear Power Angle Sweeper** and other equipment and features as specified herein.
- 2.2 The **Rear Power Angle Sweeper** shall be a new **2021** model year or newer.
- 2.3 The **Rear Power Angle Sweeper** 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.
- 2.4 The ratings specified herein merely state the minimum values acceptable to the City, not implying that those values are sufficient for the design of the particular equipment being bid.

#### 3. OTHER SPECIFICATIONS AND STANDARDS

- 3.1 All applicable SAE Standards form an integral part of the vehicle specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 3.2 Where applicable, the Rear Power Angle Sweeper 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:

[https://www.gov.mb.ca/labour/safety/pdf/1\\_2016\\_wsh\\_ar\\_oc.pdf](https://www.gov.mb.ca/labour/safety/pdf/1_2016_wsh_ar_oc.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>

Manitoba Building Code:  
<https://web2.gov.mb.ca/laws/regs/current/pdf-regs.php?reg=31/2011>

3.3 All welding and welding designs of the load supporting elements shall conform to the requirements of the Canadian Standards Association Standard (CSA) W47.1-03 and W59-03.

**4. 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. MAKE & MODEL**

5.1 State year, make and model being bid: \_\_\_\_\_

**6. PERFORMANCE RELIABILITY**

6.1 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).**

**7. SPECIFICATIONS**

**7.0 SPECIFICATIONS:**

**General**

7.1 The **Rear Power Angle Sweeper** shall be compatible with City of Winnipeg's \_\_\_\_\_ equipment:  
• Kubota M7040 and M7060.  
• John Deere 4320 and 4052M  
• LS 4047 and XR4155HC

The **Rear Power Angle Sweeper** shall be complete with all hardware (including any electrical harnesses and mounting brackets) necessary for hook-up and proper operation for the intended application.

The price for any additional hardware and installation must be included in Unit Price provided on Form B: Prices

**Make and Model**

7.2 Make **State:** \_\_\_\_\_

7.3 Model **State:** \_\_\_\_\_

**Tractor Compatibility**

7.4 Tractor PTO 540 rpm rated at 64 HP \_\_\_\_\_

7.5 Drive 540 rpm PTO with shielded drive shaft \_\_\_\_\_

**Hitch**

7.6 Type Shall be compatible with 3-Point Hitch (Rear) \_\_\_\_\_

7.7 Category **State:** \_\_\_\_\_

**Dimensions**

7.8 Brush Width Approximately 72 inches (6 feet) \_\_\_\_\_

7.9 Brush Diameter Approximately 32 inches \_\_\_\_\_

7.10 Sweeping Path **State:** \_\_\_\_\_

7.11 Weight Approximately 850 lbs.  
**State:** \_\_\_\_\_

**Other**

7.12 Bristle Material Poly \_\_\_\_\_

7.13 Hydraulic Angle Change **Required:** \_\_\_\_\_  
30° left and right of centre

7.14 Hydraulic Hoses Wrapped with spiral protective sheathing \_\_\_\_\_

7.15 Quick Couplers (Colour Coded) **Required:** \_\_\_\_\_

7.16 Hardware (Misc.) **Required:** \_\_\_\_\_  
For hook-up and proper operation of equipment

7.17 Implement Safety Chains **Required:** Qty three (3) \_\_\_\_\_

7.18 PTO Shaft Guard(s) Shaft Guard(s) shall be fitted with a safety chain for each guard for both PTO Drive Shafts – four (4) chains with clasp \_\_\_\_\_

7.19 Gearbox Orientation **Required:** All sweepers shall be delivered with the gearbox set to sweep forward while driving forward \_\_\_\_\_

7.20 Storage Stands **Required:** \_\_\_\_\_

7.21 Grease Fittings \_\_\_\_\_

All pivot and rotational points

Due to operator safety requirements and convenience:

- All manual grease zerks shall be accessible to the operator (Excluding driveline)
- Hard to access and/or near a heat sources, a remote block with hydraulic lines shall be mounted to accommodate manual lubrication
- Remote block to be fitted with hydraulic lines with an approximately maximum working pressure of 5000 psi using #4 JIC fittings

**State:** quantity and locations

8.0 **WARRANTY:**

8.1 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.

8.2 The warranty for the **Rear Power Angle Sweeper** shall cover the complete equipment, and all parts thereof against any defects of workmanship, construction and materials. \_\_\_\_\_

Any equipment that has become defective during said warranty period and has not proven to have been caused by negligence on the part of the user shall be repaired or replaced at no cost to the City.

The warranty shall be effective from the date the equipment is put into service by the City of Winnipeg

8.3 Basic Parts and Labour **State:** \_\_\_\_\_

9.0 **DELIVERY:**

9.1 **Delivery Point:** \_\_\_\_\_

The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.V.I.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB.

9.2 **Delivery Time:** \_\_\_\_\_

Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days.

**State:** earliest delivery time from date of award: \_\_\_\_\_

9.3 **Delivery Contact:** \_\_\_\_\_

The Contractor shall contact the Contract Administrator prior to delivery of the equipment.

9.4 **P.D.I.:** \_\_\_\_\_

A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list

10.0 **MANUALS:**

10.1 **Manuals:** \_\_\_\_\_

The following manuals shall be supplied with the equipment when delivered:

**Operator** – Two (2) Copies

- One (1) copy shall be sent to the Equipment Operator Training Branch
- One (1) copy to be left with the equipment

**Parts and Service**

- One (1) complete set including preventative maintenance schedules

**Note:** CD or USB flash drive is preferred where available

11.0 **PARTS/LABOUR PRICING:**

11.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. \_\_\_\_\_

**State: percentage discount**

11.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. \_\_\_\_\_

**State: percentage discount**

12.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

12.1 If applicable, in order to assure minimum downtime of the Equipment in future service, the Contractor must 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. \_\_\_\_\_

12.2 The Contractor must 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. \_\_\_\_\_