

FORM N: DETAILED SPECIFICATIONS 23014

SKID STEER

1. INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 1.1 All items in these specifications should be answered indicating compliance or non-compliance.
- 1.2 **Bidder 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 **Skid Steer** and other equipment and features as specified herein.
- 2.2 The **Skid Steer** shall be a new **2023** model year or newer.
- 2.3 The **Skid Steer** 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 **Skid Steer** 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

Canadian Motor Vehicle Safety Standards C.M.V.S.S.
[Motor Vehicle Safety Regulations \(justice.gc.ca\)](http://www.justice.gc.ca/motor-vehicle-safety-regulations)

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:
[Underwriters Laboratories of Canada \(ULC\)](http://www.ul.com/)

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

4. FUEL

4.1 Where applicable, the equipment shall be fully fuelled upon delivery (no exceptions).

5. REFERENCES

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

6. MAKE & MODEL

6.1 State year, make and model being bid:

Model Year: _____

Make: _____

Model: _____

7. PERFORMANCE RELIABILITY

7.1 The responsibility for the design of the **Skid Steer**, 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, or 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 **Skid Steer** 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. SERVICE FACILITY

8.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. 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

9. QUALIFICATIONS OF MANUFACTURER & CONTRACTOR

9.1 The manufacturer of the **Skid Steer** shall have five (5) years continuous experience manufacturing **Skid Steer**.

- 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 **Skid Steer** of the type being offered.

10. SPECIFICATIONS

Make and Model

- 10.0 Equipment Make **State:** make: _____
- 10.1 Equipment Model **State:** model: _____
- 10.2 Equipment Model Year **State:** model year: _____

Key Specifications

- 10.3 Tipping Load Approximately 5800 lbs.
State: tipping load: _____
- 10.4 Rated Operating Capacity (ROC) (50% of Tip) Approximately 2900 lbs.
State: ROC: _____
- 10.5 Horsepower – Net (SAE J1349) Approximately 74 HP
State: _____
- 10.6 Lift Geometry Vertical
State: _____
- 10.7 High Flow Hydraulics **Required** along with standard flow hydraulics _____
- 10.8 Compatibility Equipment being offered shall be compatible with the following City of Winnipeg attachments (All attachments are Bobcat):
 - Angle Broom – 84 in.
 - Bucket, Combination – 84 in.
 - Bucket – Snow & Light Material – 96 in.
 - Grapple, Industrial – 80 in.
 - Pallet Fork – 48 in.
 - Snowblower, Front Mount, High Flow – 84 in. Model SBX240 x 84

Note: Additional components such as wire harnesses to ensure compatibility shall be included

Engine

- 10.9 Engine
 - Tier IV compliant _____
 - Meets current Emission Standards _____
- 10.10 Torque – Net (SAE J1349) **State:** torque: _____

Fuel

- 10.11 Fuel Type Diesel _____
- 10.12 Fuel Cap Locking _____
- 10.13 Fuel Capacity Approximately 120 L (32 US gal)
State: capacity: _____

Engine Cold Weather Aids

- 10.14 Starting Aids Glow plugs _____
- 10.15 Engine Block Heater (cold weather operation) Installed _____
- 10.16 Fuel Filter Heated fuel filter/water separator to preheat diesel fuel prior to starting _____

Drive System

- 10.17 Transmission
 - Hydrostatic
 - 4-Wheel Drive
 - Two (2) speed_____
- 10.18 Travel Speed (2 Speed) **Required State:** _____
Low range: _____
High range: _____
- 10.19 Controls Electro-Hydraulic controls
State: _____

Electrical

- 10.20 Alternator **State:** amp: _____
- 10.21 Battery
 - Heavy Duty
 - Maintenance free**State:** CCA: _____
- 10.22 Battery Disconnect Switch
 - Protected from the elements
 - Lockable with pad lock_____
- 10.23 Starter 12V DC Negative Ground Power System _____

Brakes

- 10.24 Parking Brake System
 - Spring applied
 - Hydraulically released
 - Automatically engage when arm bar is raised, get off seat or ignition key is turned off_____

Hydraulic System

10.25	Pump Type	<ul style="list-style-type: none">• Engine driven• Gear type State: _____
10.26	High Flow Hydraulics	Required along with standard flow hydraulics State: _____ Std. Flow: _____ High Flow: _____
10.27	Pump Capacity (High-Flow)	State: pump capacity: _____
10.28	Hydraulic Oil Sight Gauge	Required: _____
10.29	Cold Operation Rated	Required: _____
10.30	Couplings	<ul style="list-style-type: none">• Located on operator left hand side• Flat face hydraulic quick disconnects• Dripless quick connect• Captured dust covers _____
10.31	System Relief at Quick Couplers	Approximately 3500 psi State: psi: _____

Performance

10.32	Breakout Force (Bucket Cylinder)	Approximately 6685 lbs. State: breakout force: _____
10.33	Breakout Force (Lift Cylinder)	Approximately 5850 lbs. State: breakout force: _____

Electrical System

10.34	Electrical	Charging system – Automotive type _____
10.35	Alternator	Approximately 75 - 80 amp State: amp: _____
10.36	Battery Voltage	12 Volt State: CCA: _____

Dimensions

10.37	Length w/o Attachment	Approximately 114 in. State: length: _____
10.38	Height with Operator Cab	Approximately 80 in. State: height: _____
10.39	Height to Bucket Hinge Pin	Approximately 128 in. State: height: _____
10.40	Dump Height	Approximately 100 in. State: dump height: _____

10.41 Dump Reach @ Maximum Height Approximately 37 in.
State: height: _____

10.42 Operating Weight Approximately 8600 lbs.
State: operating weight: _____

Tires

10.43 Tires (Non-Pneumatic) • Heavy Duty
• Solid Type
• R4 Tread
• 12 x 16.5 12-ply
State:
Type: _____
Size: _____

Lighting

10.44 Work Lights • LED
• Front and rear

10.45 Clearance Lights • LED
• Clearance lights

10.46 Beacon • Whelen L31 Series LED, SAE Class 1
Blue/Amber (individual control)
• 360-degree visibility
• Permanently mounted on top of ROPS
• Wired to the ignition
• Wired for separate amber and separate blue labelled independently "winter", "off", "summer".
• The winter mode will turn on both blue and amber
• Summer mode will only turn on the amber lights.
• Sloped brush guard

Operator Station

10.47 ROPS (Roll Over Protective Structure) Must meet SAE and ISO Standards

10.48 FOPS (Falling Object Protective Structure) Must meet SAE and ISO Standards

10.49 Cab • Weatherproof
• Pressurized
• Insulated

10.50 Climate Control • Heating system with ventilation and defrosting capabilities
• Air conditioning

10.51 Windows • Opening front, rear and side
• Tempered safety glass

10.52	Windshield Wipers and Washer System	<ul style="list-style-type: none"> • Front windshield wiper • Windshield washer system 	_____
10.53	Ignition Keys	Two (2) sets	_____
10.54	Anti-theft System	Required	_____
10.55	Sound Reduction	Sound proof package	_____
10.56	Door	<ul style="list-style-type: none"> • Latched closed • Removeable • Lockable complete keys 	_____
10.57	Seat	<ul style="list-style-type: none"> • Air ride suspension • Arm rests • 4-Way adjustable 	_____
10.58	Lap Bar	Pull down interlocking lap bar	_____
10.59	Seat Belt	<ul style="list-style-type: none"> • Retractable • Seat to come with an extra seat belt extension 	_____
10.60	Signals	<ul style="list-style-type: none"> • LED • 4-way safety flasher • Turn 	_____
10.61	Mirrors	<ul style="list-style-type: none"> • Interior rear view • Exterior side • Provide full view for safe reverse operation 	_____
10.62	Radio	AM/FM Complete with: Bluetooth® Technology - For use with cellular phones, "hands-free" capable, voice command activated through vehicle's radio circuit	_____
10.63	12V Port	12V port	_____
	Operator Controls		
10.64	Controls	<ul style="list-style-type: none"> • Selectable Joystick Control • Direction • Speed-controlled • Ability to adjust the joystick control position in a forward to rearward position for operator preference 	_____
10.65	Interlock Control System	Requires operator to be seated with seat bar in place and engine running before the machine can be operated	_____
10.66	OEM Ride Control	Required:	_____
10.67	Dual-Direction Bucket Positioning	Keeps loads at a consistent angle throughout the lift cycle	_____

Rear View Camera

10.68 Rear View Camera Rear View Camera _____

Reversing Fan

10.69 Reversing Fan Allows operator to temporarily reverse cooling fan direction to blow dust and small debris from the radiator and rear screens _____

Diagnostic and Displays

10.70 LCD Display Onboard LCD display shows:
• Gauges
• Alerts/faults
• Service reminders
• Electrical system diagnostics. _____

10.71 Indicators Indicators for:
Check all that apply:
• Fuel level _____
• Coolant temperature _____
• Intake temperature _____
• Oil pressure _____
• Alternator _____
• Engine hours _____
• Engine rpm _____
• Hydraulic oil temperature _____
• Battery voltage _____
State: any additional indicators

10.72 Diagnostic Control Onboard diagnostics for engine and hydraulics _____

Tie Down Provisions

10.73 Tie Downs • Tie down provisions for unit trailering
• Front and rear _____

Lubrication

10.75 Grease Zerks _____

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: _____

Attachment Compatibility

10.76	Compatibility	<p>Equipment being offered shall be compatible with the following City of Winnipeg attachments (All attachments are Bobcat):</p> <ul style="list-style-type: none"> • Angle Broom – 84 in. • Bucket, Combination – 84 in. • Bucket – Snow & Light Material – 96 in. • Grapple, Industrial – 80 in. • Pallet Fork – 48 in. • Snowblower, Front Mount, High Flow – 84 in. Model SBX240 x 84 <p>Note: Additional components such as wire harnesses to ensure compatibility shall be included</p>	_____
10.77	Quick Attach System	<ul style="list-style-type: none"> • Equipped with a universal quick attach system • Hydraulic control • Controlled from within the cab • Compatible with all City of Winnipeg Bobcat attachments 	_____
10.78	Fittings	<ul style="list-style-type: none"> • Includes all fittings for connection of hydraulic power required for operation of all attachment and accessories • Flat face hydraulic quick disconnects 	_____
Maintenance			
10.79	Lift Arm Safety Device (ISO 10533)	<ul style="list-style-type: none"> • Equipped with a lift arm safety device • Stored on the machine 	_____
Safety			
10.80	In Cab Boom Lock	Easily secure the boom in the upright position	_____
10.81	Slow Moving Vehicle Sign	Mounted	_____
10.82	Horn	<ul style="list-style-type: none"> • Readily accessible driver-operated • Clearly labelled 	_____
10.83	Back-Up Alarm	<ul style="list-style-type: none"> • Approximately 90 - 112 dB • Protected from damage 	_____
10.84	Grab Handles	For cab entry and exit	_____
10.85	Fire Extinguisher	<ul style="list-style-type: none"> • 2.5 lbs. • High volume ABC type • Securely mounted with quick release 	_____

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 The warranty for the **Skid Steer** 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

11.3 Basic Vehicle (Comprehensive) **State:** Terms: _____

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.V.I.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB.

12.2 **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: _____

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:** _____

The following manuals shall be supplied with the units 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

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: _____

15.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

15.1 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. _____

15.2 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. _____

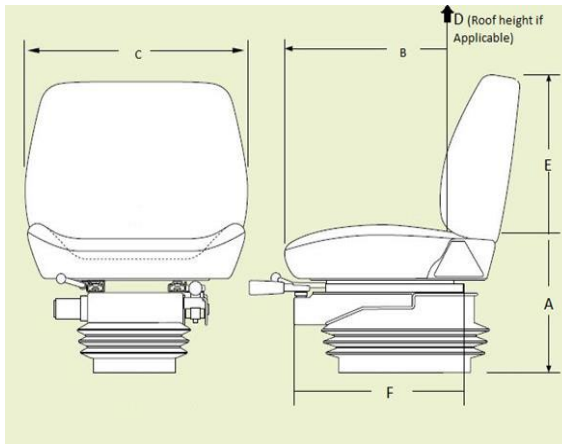
16.0 **ERGONOMIC SPECIFICATIONS**

Entry/ Exit

- 16.1 First step entry height **State:** height of first step in inches: _____
- 16.2 First handhold entry height **State:** first handhold entry height in inches: _____
- 16.3 Access to equipment **State:** door opening height in inches: _____
- 16.4 Access to equipment **State:** door opening width in inches _____
- 16.5 Designed to prevent slipping Anti-slip steps/handholds **(Y or N)?** _____

Seat

16.6 Use diagram to answer questions.



- 16.7 Sitting Height Range (from floor (where feet rest) (A)) **State:** seat height range in inches: _____
- 16.8 Seat Length/Depth (B) **State:** seat length/depth in inches: _____
- 16.9 Seat Width (C) **State:** seat width in inches: _____
- 16.10 Cab Height (from seat to roof (if applicable) (D)) **State:** cab height range in inches: _____
- 16.11 Back Rest Height (E) **State:** back rest height in inches: _____
- 16.12 Seat Travel Range (F) **State:** seat travel in inches: _____
- 16.13 Lumbar Support Is lumbar support provided **(Y or N)?** _____

16.14 Head Rest Is head rest provided (**Y or N**)? _____

16.15 Seat is made of breathable material
material **State:** type of seat material: _____

Operation

16.16 Reaching Distance (to usual work) **State:** reaching distance in inches: _____

16.17 Maximum Reaching Distance **State:** maximum reach distance in inches: _____

16.18 Adjustable Pedals (accelerator/brake/clutch) Are pedals adjustable (**Y or N**)? _____

16.19 Adjustable Steering Wheel Is steering wheel adjustable (**Y or N**)? _____

16.20 Adjustable Shoulder Belt Is belt adjustable and anchored (**Y or N**)? _____

Cargo Area

16.21 Lid opens to provide adequate space Adequate space provided (**Y or N**)? _____

16.22 Loading Height **State:** trunk height in inches: _____

Environment

16.23 Operator compartment is insulated from equipment noise (while operating) **State:** dB inside cab while operating: _____

16.24 Operator insulated from equipment vibration Is operator insulated from vibration (**Y or N**)? _____

16.25 Heating/Cooling Systems **State:** cab temperature range: _____

16.26 Cab Lighting **State:** lumens inside cab: _____

Maintenance/ Inspection

16.27 Lift Assistance (when necessary) Is lift assistance provided (**Y or N**)? _____

16.28 Easy Access (to compartment doors) Is easy access provided (**Y or N**)? _____

16.29 Include any other relevant ergonomic specifications and applicable range of adjustment: _____

