

FORM A: BID
(See B7)

1. Contract Title SUPPLY & DELIVERY OF ALL-WHEEL DRIVE MOTOR GRADERS

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

Facsimile Number

(Mailing address if different)

Street or P.O. Box

City

Province

Postal Code

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

E-mail 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 is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

7. Contract

The Bidder agrees that the Bid Opportunity 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. 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 B8)

SUPPLY & DELIVERY OF ALL-WHEEL DRIVE MOTOR GRADERS

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.	All-Wheel Drive Motor Graders	08122	(Each)	(2)	\$ _____	\$ _____

TOTAL BID PRICE (GST and MRST extra) (in figures) \$ _____

(in words) _____

 Name of Bidder

FORM N: DETAILED SPECIFICATIONS 08122

(MOTOR GRADERS)

1.0 **DESCRIPTION OF EQUIPMENT AND PERFORMANCE-**

- 1.1 These specifications describe the supply and delivery of **All-Wheel Drive Motor Graders** and other equipment and features as specified herein.
- 1.2 Shall be capable of consistent top performance for snow removal work, construction activities, maintenance dragging, and other miscellaneous municipal grader functions during the winter environment that is normal to the City of Winnipeg.
- 1.3 The All-Wheel Drive Motor Graders and all other items/components shall be the manufacturer's latest models. The Motor Graders shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the All-Wheel Drive motor graders, (including attachments and counterweights) in successful operation shall be furnished as though specifically mentioned in these specifications. The complete All-Wheel Drive motor graders and 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.

2.0 **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 All-Wheel Drive Motor Graders and all its components and attachments shall comply with the applicable regulations:

Highway Traffic Act = <http://web2.gov.mb.ca/laws/statutes/ccsm/h060e.php>

Manitoba Motor Vehicle Act = <http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>

Canadian Motor Vehicle Safety Standards, CMVSS = <http://www.gnb.ca/0062/regs/83-163.htm>

Transport Canada = <http://laws.justice.gc.ca/en/notice/index.html?redirect=%2Fen%2FM-10.01%2F250448.html>

National Safety Mark, NSM = <http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/regulations/mvsrg/001/mvsr3-5.html>

Manitoba/Winnipeg Safety and Health Act = <http://web2.gov.mb.ca/laws/statutes/ccsm/w210e.php> and <http://www.gov.mb.ca/labour/safety/>

Canadian Standards Association, CSA = <http://www.csa.ca/about/Default.asp?language=english>

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

Society of Automotive Engineers, SAE = http://en.wikipedia.org/wiki/Society_of_Automotive_Engineers

- 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 QUALIFICATIONS OF MANUFACTURER / BIDDER-

3.1 Manufacturers of All-Wheel Drive Motor Graders must have a **minimum of five (5) continuous years of experience** manufacturing All-Wheel Drive Motor Grader equipment of the type being offered.

3.2 The Bidder shall be an authorized distributor/supplier of the motor graders equipment being bid.

4.0 SERVICE FACILITY-

4.1 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. 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.

5.0 MAKE-

5.1 State make: _____

6.0 BIDDER'S MODEL-

6.1 State model being bid: _____

7.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS-

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

7.2 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.

7.3 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid**

8.0 PERFORMANCE-

8.1 Shall be capable of consistent top performance for snow removal work, construction activities, maintenance dragging, and other miscellaneous municipal grader functions during the winter environment that is normal to the City of Winnipeg.

7.0 WEIGHTS & DIMENSIONS-

- 7.1 State operating weight (SAE) – c/w 14 ft. moldboard, full fuel tank, coolant, lubricants and an operator. _____
- 7.2 Overall width – 8 ft. 4 in. approx. without attachments, state. _____
- 7.3 Overall height – 11 ft. approx. (to top of cab, not including warning beacon), state. _____
- 7.4 Overall length – 28 ft. approx., state. _____

8.0 ENGINE-

- 8.1 Type – **Tier II, III compliant**, diesel fuelled, liquid cooled, 8-11 litre class. Engines shall be warranted to use biodiesel at a B10 blend level (10% biodiesel to 90% ultra low sulphur diesel), where the biodiesel will meet product specification ASTM D 6751 to ensure fuel quality. _____
- 8.1.1 State make and model being bid- _____
- 8.2 Net horsepower as per SAE J1349 B – 200 HP, state- _____
- 8.3 Fuel shut-off – electric solenoid type. _____
- 8.4 Fuel system water separator. _____
- 8.5 Coolant – ethylene glycol based, protected to -35°F (-37°C). _____
- 8.6 Engine block heater – immersion type. _____
- 8.7 Cold weather starting aid – state type. _____
- 8.8 Fuel Filter required _____
- 8.9 Air restriction indicator and air filter with pre-cleaner, state- _____

9.0 DRIVE TRAIN

- 9.1 Transmission shall be a power shift transmission. _____
- 9.2 State number of speeds (Fwd/Rev). _____
- 9.3 **Must be All-Wheel Drive** _____

10.0 FUEL TANK

- 10.1 Capacity – 300 L approx., **fully fuelled upon delivery.** _____

11.0 BRAKES, STEERING & TIRES

- 11.1 Service brakes – 4-wheel, hydraulic or air actuated wet disk type. _____
- 11.2 Parking brake – manually operated, spring applied, hydraulically released preferred. State- _____
- 11.3 Steering – power assisted with tilt steering wheel, **joy sticks not acceptable.** _____
- 11.4 Tires – Michelin XHA L2 or L3 or Bridgestone VUT L2 or L3 preferred, six (6) 17.5-25, state bias or radials, size, make and model. _____

12.0 FRONT AXLE

- 12.1 Ground clearance – 23 in. _____
- 12.2 Front wheel lean – 15° left and right. _____
- 12.3 Oscillation – 16° up and down, or 32° total. _____

13.0 CIRCLE

- 13.1 Type – heavy duty welded construction, heat treated for strength, supported at multiple points, adjustable clamp plates and guide shoes, replaceable wear inserts. _____
- 13.2 Diameter – 60 in. _____
- 13.3 Thickness – 1.2 in. _____
- 13.4 Rotation – 360°. _____
- 13.5 Teeth – heat induction hardened to resist wear. _____

14.0 MOLDBOARD

- 14.1 Dimensions – 24" H x 14' L x 0.875" T, state- _____
- 14.2 Moldboard shall be equipped with blade lift, power tilt, power side-shift, a hydraulically driven, fully reversing circle, replaceable end bits and minimum 3/4" x 6" carbide cutting edges, state- _____

15.0 SNOW WING

- 15.1 Snow wing – mounted on the right rear side of the grader, 12 ft. length approx. with shock absorbing, open mast arrangement, hydraulic operated, height tapered from 36-48 in. approximately. Exact height to be determined upon pre-production meet. _____
- 15.1.1 State make and model being bid- _____

- 15.2 Cutting edge – snow wing shall be complete with (2) piece cutting edge and replaceable end bits. _____
- 15.3 When installed, with the push arms fully retracted and the moldboard lift cylinders approximately vertical, the wing moldboard shall form a straight plane for clearing snow to the right. _____
- 15.4 Skid shoe – installed on the bottom of the front mast, 12 in. ground clearance minimum. _____
- 15.5 Safety chains – wing shall have dual transport safety chains, one (1) in front, leading edge of blade and one (1) mid-way of blade. Transport safety chains shall be capable of retaining/holding blade in position during transport in the event of cable or hydraulic failure. _____
- 15.6 In the stowed position, the wing blade shall be in a vertical position during transport. Exact height shall be determined at pre-production meet. _____
- 15.7 Controls ergonomically mounted in the cab. _____
- 16.0 OPERATOR COMPARTMENT**
- 16.1 Type – ROPS- Roll Over Protective Structure complete with pressurized cab, OSHA certified or equal.

“Roll-over protective in relation to a machine, means a structure that protects every structure (ROPS) operator of the machine who is wearing a restraining device from being crushed if the machine rolls over.” _____
- 16.1.1 Operator must be able to exist the machine through both doors, even with wing attached. _____
- 16.1.2 State if OEM roof escape hatch is available- _____
- 16.2 Insulation – required for sound suppression. _____
- 16.3 Interior noise level – maximum 77 Db(A), measured in accordance with SAE J336. State noise level- _____
- 16.4 Seat – air suspension or cushioned suspension seat, adjustable bucket type with retractable seat belt, dual arm rests. _____
- 16.5 Windows – tinted safety glass with appropriate markings for all panes. _____
- 16.6 Sun visor – fold-down type. _____
- 16.7 Doors – lockable. Doors shall latch in fully opened position. _____
- 16.8 Exterior rear view mirrors – one (1) each side, breakaway mirrors preferred. _____
- 16.8.1 Interior rear view mirror. _____
- 16.9 Windshield wipers/washers – required front and rear. _____

- 16.10 Heater/defroster/pressurizer/ air-conditioning – heavy duty, hot water type with multi-speed fan and filtered air intake. _____
- 16.10.1 Defroster – capable of keeping all windows clear at - 40 _____
- 16.11 Rubber floor covering – required throughout. _____
- 16.12 Radio – AM/FM/CD _____
- 16.13 Access ladder - both sides, state- _____
- 16.14 Window fan- exact location to be determined upon a pre-production meet _____

17.0 INSTRUMENTATION

- 17.1 Engine coolant temperature gauge or light. _____
- 17.2 Engine oil pressure gauge or light. _____
- 17.3 Non-resettable hour-meter. _____
- 17.4 Fuel gauge. _____
- 17.5 State operator gauge options- _____
- 17.6 Low hydraulic fluid level, state- _____

18.0 ELECTRICAL & LIGHTING –(ALL LIGHTING SHALL BE LED)

- 18.1 Type – 24 volt, negative ground electrical system. _____
- 18.2 Electric starter. _____
- 18.3 Starter switch – key type with two (2) sets of keys per grader. _____
- 18.4 Batteries – two (2), 1200 combined CCA capacity. State if there are higher CCA batteries are available from OEM- _____
- 18.5 Combination stop and tail lights – two (2). _____
- 18.6 Signal lights with warning flashers – two (2) front mounted, two (2) rear mounted. _____
- 18.7 Back-up light(s) – required. _____
- 18.8 Headlights – two (2). _____
- 18.9 Moldboard work lights – four (4), adjustable. _____
- 18.9.1 Work lights, rear – two (2), adjustable. _____
- 18.9.2 Snow wing work lights – two (2), adjustable. _____

- 18.10 Blue/Amber with Clear Lens L360 Series Super LED Beacon: **L31HABF**
Branch Guard: **L360BGB** _____
- 18.11 Wig-wags – two (2), amber, rear mounted, top right and top left side. _____
- 18.12 Cab interior (dome) light – required. _____
- 18.13 Horn – required. _____
- 18.14 Back-up alarm – mounted at rear of unit, located to be protected
from damage, state Db(A)- _____
- 18.15 Electrical power to be taken from the power distribution box, require
independent circuit for two-way radio, no splices _____

19.0 MISCELLANEOUS

- 19.1 Slow moving vehicle emblem – Grote 71152 or equal, rear mounted. _____
- 19.2 Caution sign – shall read “**CAUTION – KEEP BACK 15 METERS**”.
Dimensions shall be 24"W x 18"H approx., black letters on orange
backing, reflective. _____
- 19.3 Battery disconnect switch, state location- _____
- 19.4 V-Plow work lights required, state type- _____
- 19.5 V-Plow quick attach coupler being a Welco Beales type _____
- 19.6 Front and rear fenders required _____
- 19.7 Synthetic oil requirement for all oils, state- _____
- 19.8 Winter/summer covers _____
- 19.9 One (1) 20 lbs Fire extinguishers, Flare kit, First aid kit required,
located as per Manufactures recommendations, state- _____
- 19.10 Groeneveld Twin Automatic Greasing System, state
quantity of grease points- _____

20.0 TRAINING-

20.1 The Contractor shall be required to provide training (at the Contractor's expense) for the City of Winnipeg maintenance and operating personnel. The training shall be divided into two separate sessions, one for maintenance personnel and one for operating personnel. The training shall be conducted in separate or combined sessions for each group of personnel.

The duration of the sessions shall be as long as required for adequate familiarization and orientation of the equipment to the satisfaction of the Contract Administrator.

The training shall be conducted within two (2) calendar weeks from the date of delivery and shall be coordinated through the Training Branch Department.

The training shall be conducted in Winnipeg at a time and location designated by the Training Branch Department.

Pricing should be based on two (2) business days for maintenance personnel and two (2) business days for operating personnel.

Note: The first payment of the contract on the equipment will not be issued until successful completion of training has been conducted to the satisfaction of the Training Branch Department.

20.2 Training Aides:

20.2.1 Training aids to be included.

a) On the type of equipment being offered, state if VHS videotape or CD Rom training aides are available-

20.2.2 State if other training aides are available and state type.

20.3 What is the recommended minimum training duration for:

Primary unit:

For major attachments (if applicable):

20.4 State what other training aids are available (videos, CDs).

For the primary unit:

For major attachments (if applicable):

20.5 Training Materials and applicable manuals or on-line

training material information must be provided to the Operator Training Branch of Public Works at the earliest possible opportunity, no later than (4) weeks prior to delivery, when supplying vehicles, equipment and related attachments. Send these materials, preferably in both electronic format and hard copy (training videos are to be supplied on either CD or DVD) to:

**Public Works Safety and Operator Training Division
Operator Training Branch
2nd Floor, Building "B", 1500 Plessis Road
R2C 5G6**

E-mail: pwd-opertrain@winnipeg.ca

Attn: Equipment Training Coordinator - Pending Equipment Delivery

20.5.1 State acknowledgement of item 20.5- _____

21.0 WARRANTY-

21.1 Upon request, complete details of warranties shall be made available within twenty-four (24) hours of the request of the Contract Administrator. _____

21.2 The Contractor shall warrant all equipment and all parts thereof, against any defects of workmanship, construction and materials, and agrees to repair or replace, without cost to the City, any article that has become defective and not proven to have been caused by negligence on the part of the user within **five (5) years** from the date the equipment is put into service by the City of Winnipeg. _____

21.3 Notwithstanding 21.2 above, the Contractor shall warrant all major components including, but not limited to, engine, transmission, final drives, all wheel drive system (and all components thereof), pumps and motors, axle assemblies, tandem drives, etc. against any defects of workmanship, construction and materials, and agrees to repair or replace without cost to the City, articles that have become defective and not proven to have been caused by negligence on the part of the user within **five (5) years or 7500 hours** from the date the equipment is put into service by the City of Winnipeg. _____

21.4 Notwithstanding 21.3 above, the Contractor shall warrant all attachments, and all parts thereof, against any defects of workmanship, construction and materials, and agrees to repair or replace, without cost to the City, any article that has become defective and not proven to have been caused by negligence on the part of the user within **one (1) year** from the date the equipment is put into service by the City of Winnipeg. _____

25.3 **DELIVERY CONTACT-** The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____

25.4 **P.D.I.-** A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list _____

26.0 REPAIR TIMES-

26.1 SRT Times- Please provide Standard Repair Times (SRT), of the nature of equipment being bid. _____