

FORM A: BID
(See B7)

1. Contract Title SUPPLY AND INSTALLATION OF AN ALUMINUM SERVICE BODY

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 AND INSTALLATION OF AN ALUMINUM SERVICE BODY

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.	S & I of an Aluminum Service Body	09048	Each	1	\$ _____	\$ _____

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

(in words) _____

 Name of Bidder

FORM N: DETAILED SPECIFICATIONS 09048

ALUMINUM SERVICE BODY
(Water & Waste)

1.0 SCOPE

- 1.1 These specifications describe the supply and installation of an aluminum service body complete with auxiliary equipment as specified herein. The service body shall be mounted on a City owned cab & chassis vehicle (see Section 11.0 Installation for chassis description).
- 1.2 The unit shall be furnished complete and ready for use. All parts not specifically mentioned, but which are required to complete and place the unit into successful operation, shall be furnished as though specifically mentioned in these specifications. The complete unit and all parts thereof, shall conform in strength and quality of material and workmanship to the best standards and engineering practice of the industry.
- 1.3 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 unit.
- 1.4 The ratings specified herein merely state the minimum values acceptable to the City. There is no intent of implying that these values are sufficient for the design of the unit being bid.

2.0 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 welding shall conform to the CSA/CWB Standards W47.1-03 and W59-03.
- 2.3 The completed unit and all its components shall comply with all C.M.V.S.S. and Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.

3.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 3.1 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation, or give a reply where requested to do so.** Deviations shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.
- 3.2 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

4.0 NATIONAL SAFETY MARK

- 4.1 State NSM number. _____

5.0 NOMENCLATURE

- 5.1 For the purpose of these specifications:
 - L Length along or parallel to the chassis (longitudinal axle of chassis)
 - H Height vertical

D Depth on horizontal plane across vehicle

Front Direction towards the cab of vehicle

Rear Direction towards the trailer hitch of vehicle

6.0 ALUMINUM SERVICE BODY

6.1 General dimensions

6.1.1 Body height – nominal 60 in. _____

6.1.2 Body length – nominal 108 in. _____

6.2 Compartment layout, left (street side):

Note: Compartment dimensions stated are door clearance dimensions and are considered to be approximate only. In most cases, actual compartment dimensions should be slightly larger.

6.2.1 Compartment 1 – transverse/through compartment, 30"L x 14H" approx., sweep-out style, i.e., no interior edges or lips. _____

6.2.2 Compartment 2 – directly below compartment 1, 30"L x 37"H x 22"D approx. _____

6.2.2.1 Drawers – seven (7) full-width pull-out aluminum drawers, equivalent height. Drawers to be installed on heavy-duty rollers, latched on each side, pull-chain actuated. _____

6.2.3 Compartment 3 – 66"L x 14"H x 22"D approx., open compartment. _____

6.2.4 Compartment 4 – 41"L x 20"H x 22"D approx., c/w a bottom mounted 4"H x full width heavy duty roll-out drawer with a pull-chain to actuate the latching mechanism. A stationary shelf with a 1 in. lip shall be mounted on top of the roll-out drawer. _____

6.2.5 Compartment 5 – 26"L x 37"H x 22"D approx., c/w a 2" diameter bar with four (4) storage hooks for storing chains, ropes and cords. Two (2) additional hooks shall also be supplied per side. The bottom portion of the compartment shall contain one (1) full width x full length shelf, height adjustable at 2 in. increments, 1 in. lip. _____

6.3 Compartment layout, right (curb) side:

6.3.1 Compartment 6 – 30"L x 42"H x 22"D approx. with two (2) height adjustable shelves at 3 in. increments c/w a 2 in. lip. _____

6.3.2 Compartment 7 – 40"L x 14"H x 22"D approx. _____

6.3.3 Compartment 8 – 41"L x 20"H x 22"D approx. c/w two (2) 4"H drawers on heavy duty sliders with 6 in. fixed dividers, latched on each side, pull-chain actuated. Top of drawers shall contain a fixed shelf with a 1 in. lip. _____

6.3.4 Compartment 9 – 22"L x 55"H x 22"D approx., c/w a 2" diameter bar with five (5) storage hooks for storing chains, ropes and cords. Two (2) _____

- additional hooks shall also be supplied per side. _____
- 6.4 Door construction – heavy duty, double skin design, reinforced as required. _____
- 6.5 Compartment door handles – heavy duty, stainless steel or chrome plated, 2-pt. D-ring type or 3-pt. T-handles. _____
- 6.6 Door latches – flush mounted with locks for all compartment doors. All locks (including rear door lock) shall be keyed alike. _____
- 6.6.1 Door hinges and latches – chromed or stainless steel, latches shall be c/w adjustable striker plates. _____
- 6.7 All compartment door openings shall be sealed using automotive, bulb type, rubber gaskets. _____
- 6.8 Vertical doors shall have rigid style door springs. _____
- 6.9 Horizontal doors shall contain removable check chains, designed for a 90° door opening. Two (2) rubber bumpers shall also be located below each horizontal door to prevent contact to body. _____
- 6.10 Fender flares – wheel well area shall incorporate aluminum or rubber fender flares. _____
- 6.11 Drip moulding – required above each door opening including rear. _____
- 6.12 Mudflaps – no name, fabric reinforced, black rubber mudflaps installed behind rear tires, with ½ in. diameter steel bar anti-sail brackets. _____
- 6.13 Aluminum grip strut installed to top of side packs, full length x full width, with bolt holes sealed as required. _____
- 6.14 Floor liners – all service body compartment floors shall have floor liners with interlocking matting, Dri-deck or equal. _____
- 6.15 Drain holes – all compartments shall contain drain holes c/w rubber plugs for cleaning purposes. _____
- 7.0 MAIN DECK ASSEMBLY**
- 7.1 Deck – $\frac{3}{16}$ in. smooth aluminum floor material, covered with a non-skid coating (see 12.3). _____
- 7.2 Deck width – 50 in. approx. between side packs. _____
- 7.3 Deck sides and front – $\frac{3}{16}$ in. aluminum checkerplate, extended full height up sides of side packs and front including rear of compartment 1. _____
- 7.4 Kick plate, rear – $\frac{3}{16}$ in. aluminum checkerplate, full width below deck floor level. _____
- 7.5 Kick plate, front – $\frac{3}{16}$ in. aluminum checkerplate to protect lower front area of body protruding past chassis cab, each side, min. 8 in. kick plate height. _____

- 7.6 Deck sides and kick plates caulked along edges using elastomeric sealant. _____
- 7.7 Spare tire carrier – fabrication required to store one (1) City owned spare tire and rim. _____
- 7.8 D-rings – four (4) heavy duty swivel type D-rings recessed in cargo area floor, equally spaced, two per side. _____
- 7.9 Grab handles – two (2) required, chrome, one per side at rear, ergonomically located for entry and egress of deck area. _____
- 7.10 Roof – 3-piece telescopic type, aluminum construction with suitable locking mechanism. _____
- 7.11 Rear doors – two (2) hinged type, aluminum double skin design, approx. 40"H x 25"W each. The right side door shall overlap the left side door. _____
- 7.11.1 Rear door stays – designed to hold doors in fully open position, “Grabber” U-style (Cast Products Inc.) or equal. _____
- 7.12 Hinges – three (3) per door, heavy duty, stainless steel. _____
- 7.13 Latch – identical to side compartment doors. _____
- 7.14 Overhead storage rack – 1 in. square aluminum tubing construction, centre-mounted cross member, 12 in. height, generally as shown on Figure 1. The front portion of the overhead storage rack shall extend 24 in. over cab area. _____
- 7.15 Fire extinguisher – 5 lb. ABC c/w vinyl cover, mounted on a steel bracket attached to RH side of rear compartment. _____
- 8.0 WINCH**
- 8.1 Type – 2-speed hydraulic winch, front bumper mounted, operated from OEM power steering pump, minimum 10,500 lbs. rated line pull capacity. _____
- 8.1.1 State make and model being bid. _____
- 8.2 The winch shall have full pulling capabilities at engine idle. _____
- 8.3 Cable – 3/8" x 100' min., state. _____
- 8.4 Front rollers – required. _____
- 8.5 Remote control – plug-in type hand control with a minimum 12 ft. cable. Bumper shall be equipped with a covered male receptacle. _____
- 9.0 REAR BUMPER AND HITCH**
- 9.1 Rear bumper – heavy duty step type, tubular steel construction tapered at outer ends, bolted to chassis frame and designed to protect the full width of the body. The bumper shall be constructed with 12 in. grip strut step surface and a recess for a pintle hitch mount. _____

- 9.2 Dock bumpers – two (2) bolt-on, hollow core, rubber dock type, bolted to bumper. _____
- 9.3 Rear vice tube receiver – supplied, installed and reinforced as required on driver’s side of rear bumper c/w 5 in. Record vice. _____
- 9.4 Combination hitch – Premier 150 w/2 in. ball, exact mounting height to be determined at time of installation. _____
- 9.5 “A” frame hitch reinforcement – minimum 3" x 3" x ¼" angle iron, welded to back of bumper and bolted to chassis frame web. _____
- 9.6 Lunette eyes for trailer safety chains – two (2) required, one on each side of hitch, located so as not to intrude in step area. Each lunette eye shall be rated at full capacity of hitch, Buyers Products B56729 or equal. _____
- 10.0 ELECTRICAL AND LIGHTING**
- 10.1 All vehicle lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act. _____
- 10.2 Supplier installed lighting and lighting equipment shall be Truck-Lite (except where otherwise noted) and shall include the following components:
 - 10.2.1 Combination turn/stop and taillights – P/N 44302R, one (1) per side with 40700 mounting grommets, flash rate 70-90 fpm. _____
 - 10.2.2 Back-up lights – P/N 44206C, one (1) per side with 40700 mounting Grommets, mounted in the rear of the body. _____
 - 10.2.3 Light cluster – three (3) only P/N 10250R with P/N 10700 mounting grommets, located to be protected from damage. _____
 - 10.2.4 Clearance lamps – P/N 10250R and 10250Y with P/N 10700 mounting grommets. _____
- 10.3 No clearance light shall protrude beyond the body. _____
- 10.4 Licence plate lamp – P/N 15040, complete with licence plate bracket. _____
- 10.5 Harnesses – Truck-Lite 50 Series Harness system, properly routed and secured. _____
 - 10.5.1 All harnesses shall be internally grounded, no exceptions. _____
- 10.6 Back-up alarm – STAR model 99901, mounted between frame rails at rear of truck, located to be protected from damage and road spray. _____
- 10.7 Junction box – P/N 50400, complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame, protected from damage and road spray. _____
- 10.8 All plug-in connectors shall be coated with Truck-Lite NYK compound prior to assembly. _____

- 10.9 Rear work lights – two (2) rubber housing utility lamps with steel, zinc plated brackets that permits both vertical and horizontal adjustment, Grote P/N 63621, mounted at rear of service body. Lights shall be wired through the Ford OEM dash mounted toggle switch Aux 2 labelled “WORK LIGHTS” with a permanent, engraved style label. _____
- 10.9.1 Mounting location – work lights shall be located as not to be obstructed by the rear doors. _____
- 10.10 Side work lights – two (2) rubber housing utility lamps, Grote P/N 63621, one (1) per side, centre-mounted facing outward. Lights to be wired through a single dash mounted Ford OEM toggle switch Aux 2 labelled “WORK LIGHTS” with a permanent type, engraved style label. _____
- 10.11 Compartment lights – LED continuous “rope” style lighting in all service body compartments, properly secured to prevent damage, wired through ignition and through chassis manufacturer’s OEM dash mounted switch Aux 3 labelled “Comp Lights”. _____
- 10.11.1 Deck area compartment lights – two (2) Grote P/N 61971 c/w suitable mounting brackets, wired through ignition and through chassis manufacturer’s OEM dash mounted switch Aux 3 labelled “Comp Lights”. Exact mounting location to be determined at time of installation. _____
- 10.12 Mini light bars – two (2) Whelen R2LPPA., 360° visibility c/w 3/8 in. roundbar beacon guard, located on either side of front steel storage rack at front of body. _____
- 10.13 Strobe lights – two (2) Whelen P/N 5GA00FAR lights, located inside of back-up lights, rear facing. _____
- 10.13.1 Mini light bars and strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch Aux 1, labelled “Warning Lights”. _____
- 10.14 Trailer connector – factory Ford OEM trailer plug shall be mounted and installed in the rear hitch plate. _____
- 10.15 Inverter – CSA approved, 110-Volt, 2500 Watts, mounted and protected in compartment 7, exposed inverter terminals coated with a dielectric grease, terminals completely covered with shrink wrap tubing or rubber fittings. _____
- 10.15.1 State make and model being bid. _____
- 10.15.2 Remote switch – dash mounted on/off switch, backlit, labelled “inverter”, ergonomically located from driver’s seat. _____
- 10.15.3 Duplex – auxiliary outlet/duplex, GFI, mounted exterior of service body, exact location to be determined at time of installation. _____
- 10.16 All wiring for warning lights and back-up alarm shall be colour coded, loomed and properly secured. _____
- 10.16.1 All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing. _____
- 10.16.2 All joining of wires shall be soldered and sealed using heat shrink

tubing or approved OEM weathertight connections (crimp on electrical connectors for joining wires are not acceptable).

10.16.3 Any holes required to run wires through shall be drilled (not punched), grommeted and sealed as required.

11.0 INSTALLATION

11.1 Any holes required in the chassis frame web must be drilled and reamed to fit bolts.

11.1.1 Drilling on chassis frame flanges is not permitted.

11.1.2 Welding on the chassis frame is not permitted.

11.2 Tire clearance – min. 4 in. with rear springs fully loaded.

11.3 Clearance between body and back of truck cab shall be 3 in. approx. including all lighting brackets, bulkhead and accessories

11.4 The service body shall be installed on the following City owned cab & chassis vehicle:

2009 Ford F-550

- 19,500 lbs. GVWR
- Crew Cab
- 60 in. CA
- 4WD
- 6.4 L Diesel engine
- TorqShift® 5-Spd. Automatic
- Horizontal discharge exhaust

11.4.1 The chassis will be available for pick-up on or before November 1, 2009. The Contractor is responsible for pick-up and delivery of the unit as stated in Section 18.0 below.

11.5 Mounting of the body shall be in accordance with the chassis manufacturer's guidelines for body mounting including, but not limited to, guidelines for tire and suspension clearance and fuel filler installation.

11.6 The aluminum side packs shall be mounted to the steel deck using cadmium plated carriage bolts and fender washers. Bearing plates shall be used in high stress areas.

11.7 Mounting brackets shall be bolted to chassis frame using stainless steel Grade-8 fasteners.

11.8 All possible points of contact between steel and aluminum shall have $\frac{1}{16}$ in. rubber or neoprene insulating material to prevent contact and prevent galvanic action.

11.9 The winch and mounting brackets shall be mounted using Grade-8 bolts and in accordance with the winch manufacturer's recommendations.

11.10 Departure angle – state departure angle of completed truck.

11.11 Upon request of the Contract Administrator, the Bidder shall supply a detailed drawings of the deck construction, service body construction and proposed body-to-frame mounting design. The drawings shall be supplied within three (3) working days upon request.

12.0 COLOUR AND FINISH

12.1 The complete service body shall be properly cleaned, primed and finished as follows:

i) Exterior – entire service body including telescopic roof, shall be painted white to match chassis cab with the Endura Paint Process (for aluminum) or Akzo Sikkens. State paint process.

ii) Interior of compartments shall remain unfinished.

12.2 All steel components including kickplates, rear bumper, hitchplate, steel brackets, etc. shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:

12.2.1 Primer – Endura EP521 Intermix Epoxy Primer.

12.2.2 Paint – 3-5 mils of Endura EX-2C Topcoat, black.

12.3 Undercoating – required on entire underside of body excluding all drive train and exhaust components. Under coating shall be sound deadening, rust retardant type. State product.

12.4 Deck covering – complete upper portion of deck surface to be sandblasted and coated with black Line-X heavy duty non-slip coating, 120 mil thickness minimum.

12.5 Overhead storage rack – sandblasted and coated with black Line-X heavy duty coating, 120 mil thickness minimum.

13.0 PICK-UP AND DELIVERY

13.1 Pick-up – the Contractor shall be responsible for picking-up the cab & chassis vehicle from the City upon commencement of the Contract. The vehicle will be available for pick-up at the Winnipeg Fleet Management Agency, 185 Tecumseh St., Winnipeg, Manitoba. Pick-up times will be between 8:00 am and 3:00 pm on any business day. The Contractor shall be responsible for any related fuel and Insurance costs to and from their facility.

Note: The vehicles will be fully fuelled at the time of pick-up by the Contractor.

13.2 Delivery – the unit shall be serviced, ready for operation, fully fuelled and delivered F.O.B. with the freight prepaid to the Winnipeg Fleet Management Agency, 185 Tecumseh Street, Winnipeg, Manitoba within **twenty (20) calendar weeks** from the date of official notification of award of Contract. The Contractor shall contact the Contract Administrator prior to delivery of the equipment. Equipment shall be

delivered within 8:00 am and 3:00 pm on Business Days.

- 13.3 A pre-delivery inspection shall be performed by the Contractor on all equipment.
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14.0 PERFORMANCE RELIABILITY

- 14.1 The responsibility for the design of the complete service body, its performance and reliability shall rest upon the Contractor.
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- 14.2 The term "*repeat failures*" as used herein is defined to mean that the same component, assembly, or sub-assembly develops repeated defects, breakdowns and/or malfunctions rendering the unit inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, assembly, or sub-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 schedules.
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- 14.3 Where the unit develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.
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15.0 WARRANTY

- 15.1 For the purpose of warranty repairs, the Contractor 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 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 on service body equipment, and general service capabilities. A description of the service facility shall be provided within 3-Calendar Days upon request of the Contract Administrator.

- 15.2 If a suitable warranty facility is not available within 10 km of the boundaries of the City of Winnipeg, the Bidder may propose that warranty work be performed by the City of Winnipeg Repair Facilities. Any work performed by the City of Winnipeg Repair Facilities shall be charged to the Contractor at the Facility's shop rate in effect at the time the work is performed (for example, shop rate for 2009: \$75.00/hr regular time, \$102.50/hr overtime and callout).

- 15.3 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 **two (2) years** from the date the equipment is put into service by the City of Winnipeg.
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