

PART A

BID SUBMISSION

FORM A: BID
(See B7)

1. Project Title SUPPLY & INSTALLATION OF DUMP BODIES

2. Bidder

Name of Bidder

Street

City

Province

Postal Code

(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 D3.1 unless the context otherwise requires.

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 Purchase Order authorizing the commencement of the Work.

Template Version: G320040301

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 Submission.

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

In witness whereof 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 & INSTALLATION OF DUMP BODIES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX QTY	(ALTERNATIVE 1) AWARD AS A WHOLE	(ALTERNATIVE 2) AWARD BY ITEM
1	S & I of a 13' x 8' Dump Body	07036	Each	2	\$ _____	\$ _____ -
1a	S & I of a 13' x 8' Dump Body w/Option 1: Landscape Development Package	07036	Each	2	\$ _____	\$ _____ -
2	S & I of an 11' x 8' Dump Body	07037	Each	1	\$ _____	\$ _____ -
3	S & I of a 13' x 8' Dump Body	07042	Each	1	\$ _____	\$ _____ -

 Name of Bidder

FORM N: DETAILED SPECIFICATIONS 07036

13' x 8' DUMP BODY

1.0 **SCOPE**

- 1.1 These specifications describe the supply and installation of a 13 ft. x 8 ft. clean side style dump body to be installed by the supplier on a City owned cab & chassis. See 18.0 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 in 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 equipment 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 **QUALIFICATIONS OF MANUFACTURER / CONTRACTOR**

- 3.1 The manufacturer of the dump body shall have demonstrated experience manufacturing bodies of the type being offered.
- 3.2 The Contractor shall be a manufacturer or authorized distributor/supplier of dump body equipment.
- 3.3 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 dump bodies, and general service capabilities. A description of the service facility shall be provided within 3-Calendar Days upon request of the Contract Administrator.
- 3.4 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 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 2007: \$80.00/hr regular time, \$105.00/hr overtime and callout).

3.5 The manufacturer/installer shall be a certified vehicle completer and must affix their National Safety Mark (NSM) certification sticker on each unit.

3.5.1 State NSM number: _____

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

4.1 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.

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

5.0 PERFORMANCE

5.1 The dump body shall be capable of consistent top performance for hauling and dumping during the summer and winter environments which are normal to the City of Winnipeg.

6.0 DUMP BODY – DIMENSIONS

6.1 Length, outside – nominal 4.0 m (13 ft.).

6.1.1 Length, inside – 3.8 m (12' 6") approx.

6.2 Width, outside – to match chassis track width, nominal 244 cm (8 ft.).

6.2.1 Width, inside – 229 cm (7' 6") approx.

6.3 Height of sides – 76 cm (30 in.) approx. measured from the floor, state.

6.4 Height of tailgate – 97 cm (38 in.) approx. measured from the floor, state.

6.5 Height of front – to match chassis cab height.

7.0 MATERIAL

7.1 All material used in construction to be minimum 10 ga. steel, minimum 50,000 psi yield except where otherwise noted.

8.0 FRONT

8.1 Construction – formed steel construction with horizontal reinforcement rib(s) formed into front of body.

8.2 Cab shield – formed from a single sheet of steel, bolt-on design, 61 cm (24 in.) deep, sloped @ 15°.

8.2.1 Sides of cab shield to be 4.76 mm ($\frac{3}{16}$ in.) plate with heavy duty reinforcement.

8.2.2 Cab shield sides tapered @ 30° to provide adequate clearance for entry and exit of vehicle cab.

9.0 SIDES

9.1 Clean side style formed sides without vertical reinforcements, welded into a 1-piece design, including self-cleaning bottom rail and formed, self-cleaning centre horizontal rib.

9.2 Rear side post – formed, one per side.

9.3 Plank gussets – for 5 cm x 15 cm (2" x 6") planks, with 13 mm ($\frac{1}{2}$ in.) diameter bolt holes.

9.3.1 Planks – 5 cm x 15 cm (2" x 6") painted black on all sides, installed and bolted in gussets.

9.4 Tie down eyes – four (4) required on inside of body, two near top/front of each side, two near top middle of each side.

9.5 Access ladders – two (2) required, located at front corners of dump body.

9.5.1 Ladder rungs – traction type rungs, 13 gauge steel, 57 mm ($2\frac{1}{4}$ in.) width, 2 or 4-hole design, Traction Tread Products or equal.

9.5.2 First rung to be 46-56 cm (18-22 in.) from ground level, approx 36 cm (14 in.) rung spacing to top of body.

9.6 Grab handles – located for ergonomic access to top of box.

10.0 TAILGATE

10.1 Shall be a two-way tailgate able to open from the top and bottom.

10.1.1 Tailgate shall not protrude above floor in horizontal or full down position.

10.1.2 There shall be no gap between tailgate and the floor and sides when tailgate is in the closed or horizontal position.

10.2 Construction – formed construction with one or two equally spaced horizontal or vertical ribs, and a self-cleaning bottom rail.

10.3 Tailgate shall be reinforced as required with either heavy duty (min. $\frac{3}{8}$ in.) end plates, or 6.35 mm ($\frac{1}{4}$ in.) steel tubing.

10.4 Top tailgate anchor pins – 31.75 mm ($1\frac{1}{4}$ in.) diameter min., self-locking/storing to top of side post.

10.4.1 If retainer pin is used to lock top tailgate anchor pins, a small steel check chain is required, permanently fastened to the retainer pin.

10.5 Support and spreader chains – 9.5 mm ($\frac{3}{8}$ in.) transport grade 70, adequately fastened c/w chain storage and two (2) removable links per chain. _____

10.5.1 Support and spreader chains shall be equipped with a protective cover. _____

10.6 Tailgate locking mechanism – in-cab control, air operated with air brake pot operated trip. _____

10.6.1 The locking mechanism shall be adjustable to ensure adequate lock-up with tailgate closed. _____

11.0 FLOOR

11.1 Material – 4.76 mm ($\frac{3}{16}$ in.) AR200 or equal, state material. _____

11.2 Floor width – nominal 203 cm (80 in.) width, state. _____

11.3 2-piece floor maximum (1-piece preferred). 2-piece floors shall be continuously welded. _____

11.4 Floor to have a 60° slope along the joint to the side wall. Slope shall extend upward approx. 10 cm (4 in.). _____

11.5 Long sills – 20-25 cm (8-10 in.) formed long sills, tapered hat section design, continuously welded to the floor. _____

12.0 TARPAULIN

12.1 Type – Cramaro Slide n’ Go or Michel’s Gravel Guard w/black mesh tarp, chromed front shaft and 30.5 cm (12 in.) hoops. State make and model being bid. _____

12.2 Tarp system shall be manually driven, operable from a normal standing position. _____

13.0 HOIST

13.1 Type – double acting, hydraulic scissor lift hoist, Nordic TL1622 or TL1627 as required for specified dump angle. _____

13.2 Dumping angle – 50 degrees. _____

14.0 IN-CAB CONTROLS

14.1 Type – dash mounted single switch dump control, return to centre, electrically actuated International OEM switch preferred. State details of in-cab controls. _____

15.0 HYDRAULICS

- 15.1 PTO – Muncie electric/hydraulic power shift. _____
- 15.1.1 Electric/Hydraulic power shift, operable from a normal driving position. _____
- 15.1.2 Warning light to show PTO engaged. _____
- 15.2 Pump, valve and tank combination – Williams W15-6CR-27QT or Nord-Sen X3185 complete with P20 Commercial closed coupled gear pump, double-acting solenoid operated valve mounted directly to reservoir, and 25.5 L (27quart) tank. Reservoir to be right hand side chassis frame mounted c/w sight gauge. _____
- 15.2.1 Reservoir shall be clearly labelled "Hydraulic Oil" with a permanent type, engraved style label. _____
- 15.2.2 Level gauge – glass sight type, mounted in readily visible location. _____
- 15.3 Return line filter – spin-on type, serviceable without oil loss. _____
- 15.4 Shut-off valve – ball type, located for servicing without oil loss, secured in open position with a bracket and bolt. _____
- 15.5 Hydraulic hoses – wire braid reinforced, rated for system operating pressure with 4 to 1 safety factor for burst pressure. _____
- 15.5.1 Hydraulic hoses to be protected at wear and scuff locations. _____
- 15.5.2 Hose fittings – hydraulic full flow, crimp-on (non-reusable) type. _____

16.0 ELECTRICAL & LIGHTING

- 16.1 All lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act. _____
- 16.2 Supplier installed lighting and lighting equipment shall be Truck-Lite (except where otherwise noted) and shall include the following components:
 - 16.2.1 Combination turn/stop and taillights – P/N 44302R, one (1) per side with 40700 mounting grommets, flash rate 70-90 fpm. _____
 - 16.2.2 Back-up lights – P/N 44206C, one (1) per side with 40700 mounting grommets. _____
 - 16.2.3 Light cluster – three (3) only P/N 10250R with P/N 10700 mounting grommets, located to be protected from damage. _____
 - 16.2.4 Rear light mounting location – taillights, back-up lights and 3-light cluster shall be mounted in the rear sill of the dump body. The lights shall be situated so that no debris contacts the lights while dumping. _____

- 16.2.5 Clearance lamps – P/N 10250R and 10250Y with P/N 10700 mounting grommets. _____
- 16.2.6 Clearance lamp mounting locations:
- i) Front – two (2), located one on each bottom corner. _____
 - ii) Sides – two (2) per side, located on front and rear bottom corners. _____
 - iii) Rear – two (2), located one on each bottom or top corner. _____
- 16.3 No clearance light shall protrude beyond the dump body. _____
- 16.4 Taillights and back-up lights shall be fully visible when tailgate is lowered to horizontal position. _____
- 16.5 Licence plate lamp – P/N 15040, complete with licence plate bracket. _____
- 16.6 Harnesses – Truck-Lite 50 Series Harness system, properly routed and secured. _____
- 16.6.1 All harnesses shall be internally grounded, no exceptions. _____
- 16.7 Junction box – P/N 50400, complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame. _____
- 16.8 All plug-in connectors shall be coated with Truck-Lite NYK compound prior to assembly. _____
- 16.9 Mini light bar – Grote 77163, mounted to top of cab guard, 360° visibility when tarpaulin is in stowed position. _____
- 16.9.1 Branch guard – heavy duty branch guard constructed by $\frac{3}{8}$ in. roundbar or equivalent. _____
- 16.9.2 Mini light bar shall be wired through the ignition, wired through a single OEM dash mounted switch, labelled “Beacon” with a permanent type, engraved style label. _____
- 16.10 Trailer connector – 6-pole, Grote 82-1068 or equal, wired through chassis manufacturer’s OEM auxiliary circuit, and installed in rear trailer hitch plate. _____
- 16.11 All wiring for warning lights and trailer connector shall be colour coded, loomed and properly secured. _____
- 16.11.1 All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing. _____
- 16.11.2 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). _____

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

17.0 WELDING

17.1 All welds shall be continuous welds. _____

17.2 All welding performed shall conform to CSA Standard W47.1-03 and W59-03. _____

Note: All welds are subject to inspection by a City of Winnipeg Qualified Inspector.

18.0 INSTALLATION

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

18.1.1 Drilling on chassis frame flanges is not permitted. _____

18.1.2 Welding on the chassis frame is not permitted, with the exception of installation of dump body pivot support. _____

18.2 Tire clearance – min. 8 cm (3¼ in.) with rear suspension air bags lowered. _____

18.3 Clearance between dump body and back of truck cab shall be 8 cm (3¼ in.). _____

18.4 The dump body shall be installed on the following cab & chassis vehicle:

2008 International 4300

- 29,000 lbs. GVWR
- 108 in. CA
- 750,000 in-lb RBM double rail frame, outside frame clear
- DT466 in-line 6 cyl. diesel engine, 7.6 L
- Allison 2500 RDS Series automatic transmission
- Horizontal discharge exhaust
- Hydraulic brake system with air provision
- Air ride suspension

18.4.1 The chassis will be available for pick-up on or before July 3, 2007. The Contractor is responsible for pick-up and delivery of the unit as stated in Section 21.0 below. _____

19.0 MISCELLANEOUS

19.1 Rear hitch plate – 12.7 mm (½ in.) thick solid steel, (laminated plates unacceptable) installed to chassis frame. _____

19.1.1 "A" frame hitch reinforcement – 76 mm x 76 mm x 9.5 mm (3" x 3" x ¾") angle iron, welded to back of hitch plate and bolted to chassis frame web. _____

- 19.2 Combination hitch – Premier 150 w/2 in. ball or approved equivalent hitch, installed on hitch plate at a 61 cm (24 in.) height. _____
- 19.3 Lunette eyes for trailer safety chains – one (1) each side of hitch, Buyers Products B56730 or equal. _____
- 19.4 Mudflaps – black rubber, no-name, required front and rear of back tires c/w anti-sail bracket on each mud-flap. _____
- 19.4.1 Rear mudflaps shall not contact the ground when the dump body is at maximum dump angle. _____
- 19.5 Dump body prop – double prop design, steel tubing construction, to support dump body in raised position and permit servicing of hoist, operable by a single person, designed so as not to interfere with hoist cylinder or surroundings. _____
- 19.5.1 Dump body prop to be complete with receiving bracket. _____
- 19.6 Grease fittings – required on tailgate release mechanisms, pivot points and tailgate as required. _____
- 19.7 Automatic greasing system – complete dump body and chassis shall be supplied with a Groeneveld/CPL Systems Inc. automatic greasing system including all required grease points on dump body, approx. twenty-six (26) points on cab & chassis, and automatic low level shut-off with in-cab red light indicator. _____
- 20.0 FINISH**
- 20.1 Complete dump body, hitch plate, reservoir, steel brackets, etc. (with the exception of inside of the floor) shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:
- 20.1.1 Primer – Endura EP32 Intermix Epoxy Primer. _____
- 20.1.2 Paint – 3-5 mils of Endura EX-2C Topcoat, black. _____
- 21.0 PICK-UP AND DELIVERY**
- 21.1 Pick-up – the Contractor shall be responsible for picking-up the cab & chassis vehicles from the City upon commencement of the Contract. The vehicles 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. _____
- 21.2 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 **eighteen (18) 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.

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

- 22.1 The responsibility for the design of the complete dump body, it's performance and reliability shall rest upon the Contractor.
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- 22.2 The term "*repeated 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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- 22.3 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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23.0 WARRANTY

- 23.1 The warranty on the complete dump body and attachments shall include 100% replacement parts and labour at no cost to the City and shall cover the complete equipment and all parts thereof against defects of workmanship, construction and materials for **two (2) years** from the date the equipment is put into service by the City of Winnipeg.
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Note: See Supplemental Conditions for additional Warranties.

- 23.2 A new two (2) year warranty period shall be provided for any article that is repaired or replaced under the terms of the "repeated failures" (22.0 Performance Reliability). The new warranty period shall be effective from the date of acceptance of the repaired or replaced article.
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24.0 OPTIONS

Note: Options to be priced only as indicated on Form B: Prices.

- 24.1 Option 1: Landscape Development Package

- 24.1.1 High mounted tailgate – height of tailgate to be 122 cm (48 in.) measured from the floor in lieu of tailgate height specified in 6.4 above. Top tailgate hinge pin approx. 127 cm (50 in.) above floor.
-

- 24.1.2 Planks – 5 cm x 25 cm (2" x 10") painted black on all sides, installed and

bolted in gussets in lieu of planks specified in 9.3.1 above.

24.1.3 Toolbox – 1/8 in. aluminum checkerplate construction, 76 cm W x 61 cm H x 46 cm D (30"W x 24"H x 18" D) approx., bottom hinged door c/w gas shocks, a lockable stainless steel T-handle and bulb type, automotive style weather stripping. Aluminum box to be mounted on driver's side frame rail ahead of rear wheels, installed in a 5 cm x 5 cm (2" x 2") steel angle iron frame. Toolbox frame to include a 1.5 mm (1/16 in.) rubber or neoprene insulator between steel and aluminum to prevent Galvanic corrosion.

24.1.4 Tarp rail – 6.35 mm x 51 cm (1/4" x 2") steel flatbar, welded to exterior of sides, full length in lieu of tarp specified in 12.1 and 12.2 above.

24.1.5 Electric trailer brake controller – required, in-cab mounted.

DETAILED SPECIFICATIONS 07037

11' x 8' DUMP BODY *(Cemeteries)*

1.0 SCOPE

- 1.1 These specifications describe the supply and installation of an 11 ft. x 8 ft. clean side style dump body to be installed by the supplier on a City owned cab & chassis. See 17.0 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 in 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 equipment 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 QUALIFICATIONS OF MANUFACTURER / CONTRACTOR

- 3.1 The manufacturer of the dump body shall have demonstrated experience manufacturing bodies of the type being offered.
- 3.2 The Contractor shall be a manufacturer or authorized distributor/supplier of dump body equipment.
- 3.3 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 dump bodies, and general service capabilities. A description of the service facility shall be provided within 3-Calendar Days upon request of the Contract Administrator.
- 3.4 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 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 2007: \$80.00/hr regular time, \$105.00/hr overtime and callout).

3.5 The manufacturer/installer shall be a certified vehicle completer and must affix their National Safety Mark (NSM) certification sticker on each unit.

3.5.1 State NSM number: _____

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

4.1 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.

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

5.0 PERFORMANCE

5.1 The dump body shall be capable of consistent top performance for hauling and dumping during the summer and winter environments which are normal to the City of Winnipeg.

6.0 DUMP BODY – DIMENSIONS

6.1 Length, outside – nominal 3.35 m (11 ft.).

6.1.1 Length, inside – 3.2 m (10' 6") approx.

6.2 Width, outside – to match chassis track width, nominal 244 cm (8 ft.).

6.2.1 Width, inside – 229 cm (7' 6") approx.

6.3 Height of sides – 61 cm (24 in.) approx. measured from the floor, state.

6.4 Height of tailgate – 81 cm (32 in.) approx. measured from the floor, state.

6.5 Height of front – to match chassis cab height.

7.0 MATERIAL

7.1 All material used in construction to be minimum 10 ga. steel, minimum 50,000 psi yield except where otherwise noted.

8.0 FRONT

8.1 Construction – formed steel construction with horizontal reinforcement rib(s) formed into front of body.

8.2 Cab shield – formed from a single sheet of steel, bolt-on design, 61 cm (24 in.) deep, sloped @ 15°.

8.2.1 Sides of cab shield to be 4.76 mm ($\frac{3}{16}$ in.) plate with heavy duty reinforcement.

8.2.2 Cab shield sides tapered @ 30° to provide adequate clearance for entry and exit of vehicle cab.

9.0 SIDES

9.1 Clean side style formed sides without vertical reinforcements, welded into a 1-piece design, including self-cleaning bottom rail and formed, self-cleaning centre horizontal rib.

9.2 Rear side post – formed, one per side.

9.3 Plank gussets – for 5 cm x 15 cm (2" x 6") planks, with 13 mm ($\frac{1}{2}$ in.) diameter bolt holes.

9.3.1 Planks – 5 cm x 15 cm (2" x 6") painted black on all sides, installed and bolted in gussets.

9.4 Tie down eyes – four (4) required on inside of body, two near top/front of each side, two near top middle of each side.

9.5 Access ladders – two (2) required, located at front corners of dump body.

9.5.1 Ladder rungs – traction type rungs, 13 gauge steel, 57 mm ($2\frac{1}{4}$ in.) width, 2 or 4-hole design, Traction Tread Products or equal.

9.5.2 First rung to be 46-56 cm (18-22 in.) from ground level, approx 36 cm (14 in.) rung spacing to top of body.

9.6 Grab handles – located for ergonomic access to top of box.

9.7 Tarp rail – 6.35 mm x 5 cm ($\frac{1}{4}$ " x 2") steel flatbar, welded to exterior of sides, full length.

10.0 TAILGATE

10.1 Shall be a two-way tailgate able to open from the top and bottom.

10.1.1 Tailgate shall not protrude above floor in horizontal or full down position.

10.1.2 There shall be no gap between tailgate and the floor and sides when tailgate is in the closed or horizontal position.

10.2 Construction – formed construction with one or two equally spaced horizontal or vertical rib(s), and a self-cleaning bottom rail.

10.3 Tailgate shall be reinforced as required with either heavy duty (min. $\frac{3}{8}$ in.) end plates, or 6.35 mm ($\frac{1}{4}$ in.) steel tubing.

10.4 Top tailgate anchor pins – 31.75 mm ($1\frac{1}{4}$ in.) diameter min., self-locking/storing to top of side post.

10.4.1 If retainer pin is used to lock top tailgate anchor pins, a small steel check chain is required, permanently fastened to the retainer pin. _____

10.5 Support and spreader chains – 9.5 mm ($\frac{3}{8}$ in.) transport grade 70, adequately fastened c/w chain storage and two (2) removable links per chain. _____

10.5.1 Support and spreader chains shall be equipped with a protective cover. _____

10.6 Tailgate locking mechanism – in-cab control, air operated with air brake pot operated trip. _____

10.6.1 The locking mechanism shall be adjustable to ensure adequate lock-up with tailgate closed. _____

11.0 FLOOR

11.1 Material – 4.76 mm ($\frac{3}{16}$ in.) AR200 or equal, state material. _____

11.2 Floor width – nominal 203 cm (80 in.) width, state. _____

11.3 2-piece floor maximum (1-piece preferred). 2-piece floors shall be continuously welded. _____

11.4 Floor to have a 60° slope along the joint to the side wall. Slope shall extend upward approx. 10 cm (4 in.). _____

11.5 Long sills – 20-25 cm (8-10 in.) formed long sills, tapered hat section design, continuously welded to the floor. _____

12.0 HOIST

12.1 Type – double acting, hydraulic scissor lift hoist, Nordic TL1622 or TL1627 as required for specified dump angle. _____

12.2 Dumping angle – 50 degrees. _____

13.0 IN-CAB CONTROLS

13.1 Type – dash mounted single switch dump control, return to centre, electrically actuated International OEM switch preferred. State details of in-cab controls. _____

14.0 HYDRAULICS

14.1 PTO – Muncie electric/hydraulic power shift. _____

14.1.1 Electric/Hydraulic power shift, operable from a normal driving position. _____

- 14.1.2 Warning light to show PTO engaged. _____
- 14.2 Pump, valve and tank combination – Williams W15-6CR-27QT or Nord-Sen X3185 complete with P20 Commercial closed coupled gear pump, double-acting solenoid operated valve mounted directly to reservoir, and 25.5 L (27quart) tank. Reservoir to be right hand side chassis frame mounted c/w sight gauge. _____
- 14.2.1 Reservoir shall be clearly labelled "Hydraulic Oil" with a permanent type, engraved style label. _____
- 14.2.2 Level gauge – glass sight type, mounted in readily visible location. _____
- 14.3 Return line filter – spin-on type, serviceable without oil loss. _____
- 14.4 Shut-off valve – ball type, located for servicing without oil loss, secured in open position with a bracket and bolt. _____
- 14.5 Hydraulic hoses – wire braid reinforced, rated for system operating pressure with 4 to 1 safety factor for burst pressure. _____
- 14.5.1 Hydraulic hoses to be protected at wear and scuff locations. _____
- 14.5.2 Hose fittings – hydraulic full flow, crimp-on (non-reusable) type. _____
- 15.0 ELECTRICAL & LIGHTING**
- 15.1 All lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act. _____
- 15.2 Supplier installed lighting and lighting equipment shall be Truck-Lite (except where otherwise noted) and shall include the following components:
- 15.2.1 Combination turn/stop and taillights – P/N 44302R, one (1) per side with 40700 mounting grommets, flash rate 70-90 fpm. _____
- 15.2.2 Back-up lights – P/N 44206C, one (1) per side with 40700 mounting grommets. _____
- 15.2.3 Light cluster – three (3) only P/N 10250R with P/N 10700 mounting grommets, located to be protected from damage. _____
- 15.2.4 Rear light mounting location – taillights, back-up lights and 3-light cluster shall be mounted in the rear sill of the dump body. The lights shall be situated so that no debris contacts the lights while dumping. _____
- 15.2.5 Clearance lamps – P/N 10250R and 10250Y with P/N 10700 mounting grommets. _____
- 15.2.6 Clearance lamp mounting locations:
- i) Front – two (2), located one on each bottom corner. _____

- ii) Sides – two (2) per side, located on front and rear bottom corners. _____
- iii) Rear – two (2), located one on each bottom or top corner. _____
- 15.3 No clearance light shall protrude beyond the dump body. _____
- 15.4 Taillights and back-up lights shall be fully visible when tailgate is lowered to horizontal position. _____
- 15.5 Licence plate lamp – P/N 15040, complete with licence plate bracket. _____
- 15.6 Harnesses – Truck-Lite 50 Series Harness system, properly routed and secured. _____
- 15.6.1 All harnesses shall be internally grounded, no exceptions. _____
- 15.7 Junction box – P/N 50400, complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame. _____
- 15.8 All plug-in connectors shall be coated with Truck-Lite NYK compound prior to assembly. _____
- 15.9 Trailer connector – 6-pole, Grote 82-1068 or equal, wired through chassis manufacturer’s OEM auxiliary circuit, and installed in rear trailer hitch plate. _____
- 15.10 All wiring for trailer connector shall be colour coded, loomed and properly secured. _____
- 15.10.1 All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing. _____
- 15.10.2 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). _____
- 15.10.3 Any holes required to run wires through shall be drilled (not punched), grommeted and sealed as required. _____
- 16.0 WELDING**
- 16.1 All welds shall be continuous welds. _____
- 16.2 All welding performed shall conform to CSA Standard W47.1-03 and W59-03. _____
- Note: All welds are subject to inspection by a City of Winnipeg Qualified Inspector.
- 17.0 INSTALLATION**
- 17.1 Any holes required in the chassis frame web must be drilled and reamed to fit bolts. _____

- 17.1.1 Drilling on chassis frame flanges is not permitted. _____
- 17.1.2 Welding on the chassis frame is not permitted, with the exception of installation of dump body pivot support. _____
- 17.2 Tire clearance – min. 8 cm (3¼ in.) with rear suspension air bags lowered. _____
- 17.3 Clearance between dump body and back of truck cab shall be 8 cm (3¼ in.). _____
- 17.4 The dump body shall be installed on the following cab & chassis vehicle:

2008 International 4300

- 29,000 lbs. GVWR
- 84 in. CA
- 750,000 in-lb RBM double rail frame, outside frame clear
- DT466 in-line 6 cyl. diesel engine, 7.6 L
- Allison 2500 RDS Series automatic transmission
- Horizontal discharge exhaust
- Hydraulic brake system with air provision
- Air ride suspension

- 17.4.1 The chassis will be available for pick-up on or before July 3, 2007. The Contractor is responsible for pick-up and delivery of the unit as stated in Section 20.0 below. _____

18.0 MISCELLANEOUS

- 18.1 Rear hitch plate – 12.7 mm (½ in.) thick solid steel, (laminated plates unacceptable) installed to chassis frame. _____
- 18.1.1 "A" frame hitch reinforcement – 76 mm x 76 mm x 9.5 mm (3" x 3" x ¾") angle iron, welded to back of hitch plate and bolted to chassis frame web. _____
- 18.2 Combination hitch – Premier 150 w/2 in. ball or approved equivalent hitch, installed on hitch plate at a 61 cm (24 in.) height. _____
- 18.3 Lunette eyes for trailer safety chains – one (1) each side of hitch, Buyers Products B56730 or equal. _____
- 18.4 Mudflaps – black rubber, no-name, required front and rear of back tires c/w anti-sail bracket on each mud-flap. _____
- 18.4.1 Rear mudflaps shall not contact the ground when the dump body is at maximum dump angle. _____
- 18.5 Dump body prop – double prop design, steel tubing construction, to support dump body in raised position and permit servicing of hoist, operable by a single person, designed so as not to interfere with hoist cylinder or surroundings. _____

18.5.1 Dump body prop to be complete with receiving bracket. _____

18.6 Grease fittings – required on tailgate release mechanisms, pivot points and tailgate as required. _____

18.7 Automatic greasing system – complete dump body and chassis shall be supplied with a Groeneveld/CPL Systems Inc. automatic greasing system including all required grease points on dump body, approx. twenty-six (26) points on cab & chassis, and automatic low level shut-off with in-cab red light indicator. _____

19.0 FINISH

19.1 Complete dump body, hitch plate, reservoirs, steel brackets, etc. (with the exception of inside of the floor) shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:

19.1.1 Primer – Endura EP32 Intermix Epoxy Primer. _____

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

20.0 PICK-UP AND DELIVERY

20.1 Pick-up – the Contractor shall be responsible for picking-up the cab & chassis vehicles from the City upon commencement of the Contract. The vehicles 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. _____

20.2 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 **eighteen (18) 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. _____

20.3 A pre-delivery inspection shall be performed by the Contractor on all equipment. _____

21.0 PERFORMANCE RELIABILITY

21.1 The responsibility for the design of the complete dump body, it's performance and reliability shall rest upon the Contractor. _____

21.2 The term “repeated 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.

- 21.3 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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22.0 WARRANTY

- 22.1 The warranty on the complete dump body and attachments shall include 100% replacement parts and labour at no cost to the City and shall cover the complete equipment and all parts thereof against defects of workmanship, construction and materials for **two (2) years** from the date the equipment is put into service by the City of Winnipeg.
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Note: See Supplemental Conditions for additional Warranties.

- 22.2 A new two (2) year warranty period shall be provided for any article that is repaired or replaced under the terms of the "repeated failures" (21.0 Performance Reliability). The new warranty period shall be effective from the date of acceptance of the repaired or replaced article.
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DETAILED SPECIFICATIONS 07042

13' x 8' DUMP BODY *(Forestry)*

1.0 SCOPE

- 1.1 These specifications describe the supply and installation of a 13 ft. x 8 ft. clean side style dump body to be installed by the supplier on a City owned cab & chassis. See 17.0 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 in 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 equipment 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 QUALIFICATIONS OF MANUFACTURER / CONTRACTOR

- 3.1 The manufacturer of the dump body shall have demonstrated experience manufacturing bodies of the type being offered.
- 3.2 The Contractor shall be a manufacturer or authorized distributor/supplier of dump body equipment.
- 3.3 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 dump bodies, and general service capabilities. A description of the service facility shall be provided within 3-Calendar Days upon request of the Contract Administrator.
- 3.4 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 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 2007: \$80.00/hr regular time, \$105.00/hr overtime and callout).

3.5 The manufacturer/installer shall be a certified vehicle completer and must affix their National Safety Mark (NSM) certification sticker on each unit.

3.5.1 State NSM number: _____

4.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

4.1 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.

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

5.0 PERFORMANCE

5.1 The dump body shall be capable of consistent top performance for hauling and dumping during the summer and winter environments which are normal to the City of Winnipeg.

6.0 DUMP BODY – DIMENSIONS

6.1 Length, outside – nominal 4.0 m (13 ft.).

6.1.1 Length, inside – 3.8 m (12' 6") approx.

6.2 Width, outside – to match chassis track width, nominal 244 cm (8 ft.).

6.2.1 Width, inside – 229 cm (7' 6") approx.

6.3 Height of sides – 102 cm (40 in.) approx. measured from the floor, state.

6.4 Height of tailgate – 81 cm (32 in.) approx. measured from the floor, state.

6.5 Height of front – to match chassis cab height.

7.0 MATERIAL

7.1 All material used in construction to be minimum 10 ga. steel, minimum 50,000 psi yield except where otherwise noted.

8.0 FRONT

8.1 Construction – formed steel construction with horizontal reinforcement rib(s) formed into front of body.

8.2 Cab shield – formed from a single sheet of steel, bolt-on design, 61 cm (24 in.) deep, sloped @ 15°.

8.2.1 Sides of cab shield to be 4.76 mm ($\frac{3}{16}$ in.) plate with heavy duty reinforcement.

8.2.2 Cab shield sides tapered @ 30° to provide adequate clearance for entry and exit of vehicle cab.

9.0 SIDES

9.1 Clean side style formed sides without vertical reinforcements, welded into a 1-piece design, including self-cleaning bottom rail and formed, self-cleaning centre horizontal rib.

9.2 Rear side post – formed, one per side.

9.3 Top of sides – heavy duty 76 mm x 76 mm (3" x 3") structural or formed steel tubing without plank gussets. Top of sides shall accommodate a City owned and supplied chipper body top that can be bolted to the top of the sides and front of the body.

9.4 Tie down eyes – four (4) required on inside of body, two near top/front of each side, two near top middle of each side.

9.5 Access ladders – two (2) required, located at front corners of dump body.

9.5.1 Ladder rungs – traction type rungs, 13 gauge steel, 57 mm (2¼ in.) width, 2 or 4-hole design, Traction Tread Products or equal.

9.5.2 First rung to be 46-56 cm (18-22 in.) from ground level, approx 36 cm (14 in.) rung spacing to top of body.

9.6 Grab handles – located for ergonomic access to top of box.

10.0 REAR DOORS

10.1 Type – two (2) swing-out doors, hinged on rear side posts, centre latched. The right side door shall overlap the left side door.

10.2 Inside – formed from single sheets of steel.

10.3 Top rails – full box structural steel section, min. 76 mm x 76 mm x 3.175 mm (3" x 3" x $\frac{1}{8}$ ").

10.4 Horizontal rails – heavy duty, one (1) centred on each door, one (1) self-cleaning bottom rail per door.

10.5 Side and centre vertical rails – full box section, min. 76 mm x 76 mm x 3.175 mm (3" x 3" x $\frac{1}{8}$ ") or equivalent design.

10.6 Hinges – two (2) per side, greaseable, severe service with min. 1 in. pin diameter.

10.7 Rear latch – spring loaded latch mounted to the right side door. The spring loaded pin shall latch into the rear of the floor.

10.8 Door stays – required to secure rear doors in the fully open position while dumping. _____

11.0 FLOOR

11.1 Material – 4.76 mm (³/₁₆ in.) AR200 or equal, state material. _____

11.2 Floor width – nominal 203 cm (80 in.) width, state. _____

11.4 2-piece floor maximum (1-piece preferred). 2-piece floors shall be continuously welded. _____

11.4 Floor to have a 60° slope along the joint to the side wall. Slope shall extend upward approx. 10 cm (4 in.). _____

11.5 Long sills – 20-25 cm (8-10 in.) formed long sills, tapered hat section design, continuously welded to the floor. _____

12.0 HOIST

12.1 Type – double acting, hydraulic scissor lift hoist, Nordic TL1622 or TL1627 as required for specified dump angle. _____

12.2 Dumping angle – 50 degrees. _____

13.0 IN-CAB CONTROLS

13.1 Type – dash mounted single switch dump control, return to centre, electrically actuated International OEM switch preferred. State details of in-cab controls. _____

14.0 HYDRAULICS

14.1 PTO – Muncie electric/hydraulic power shift. _____

14.1.1 Electric/Hydraulic power shift, operable from a normal driving position. _____

14.1.2 Warning light to show PTO engaged. _____

14.2 Pump, valve and tank combination – Williams W15-6CR-27QT or Nord-Sen X3185 complete with P20 Commercial closed coupled gear pump, double-acting solenoid operated valve mounted directly to reservoir, and 25.5 L (27quart) tank. Reservoir to be right hand side chassis frame mounted c/w sight gauge. _____

14.2.1 Reservoir shall be clearly labelled "Hydraulic Oil" with a permanent type, engraved style label. _____

- 14.2.2 Level gauge – glass sight type, mounted in readily visible location. _____
- 14.3 Return line filter – spin-on type, serviceable without oil loss. _____
- 14.4 Shut-off valve – ball type, located for servicing without oil loss, secured in open position with a bracket and bolt. _____
- 14.5 Hydraulic hoses – wire braid reinforced, rated for system operating pressure with 4 to 1 safety factor for burst pressure. _____
- 14.5.1 Hydraulic hoses to be protected at wear and scuff locations. _____
- 14.5.2 Hose fittings – hydraulic full flow, crimp-on (non-reusable) type. _____
- 15.0 ELECTRICAL & LIGHTING**
- 15.1 All lighting to conform to C.M.V.S.S. and Manitoba Highway Traffic Act. _____
- 15.2 Supplier installed lighting and lighting equipment shall be Truck-Lite (except where otherwise noted) and shall include the following components:
- 15.2.1 Combination turn/stop and taillights – P/N 44302R, one (1) per side with 40700 mounting grommets, flash rate 70-90 fpm. _____
- 15.2.2 Back-up lights – P/N 44206C, one (1) per side with 40700 mounting grommets. _____
- 15.2.3 Light cluster – three (3) only P/N 10250R with P/N 10700 mounting grommets, located to be protected from damage. _____
- 15.2.4 Rear light mounting location – taillights, back-up lights and 3-light cluster shall be mounted in the rear sill of the dump body. The lights shall be situated so that no debris contacts the lights while dumping. _____
- 15.2.5 Clearance lamps – P/N 10250R and 10250Y with P/N 10700 mounting grommets. _____
- 15.2.6 Clearance lamp mounting locations:
- i) Front – two (2), located one on each bottom corner. _____
 - ii) Sides – two (2) per side, located on front and rear bottom corners. _____
 - iii) Rear – two (2), located one on each bottom or top corner. _____
- 15.3 No clearance light shall protrude beyond the dump body. _____
- 15.4 Taillights and back-up lights shall be fully visible when tailgate is lowered to horizontal position. _____
- 15.5 Licence plate lamp – P/N 15040, complete with licence plate bracket. _____

- 15.6 Harnesses – Truck-Lite 50 Series Harness system, properly routed and secured. _____
- 15.6.1 All harnesses shall be internally grounded, no exceptions. _____
- 15.7 Junction box – P/N 50400, complete with necessary compression fittings, required for all vehicle lighting harness connections, located inside rear of truck frame. _____
- 15.8 All plug-in connectors shall be coated with Truck-Lite NYK compound prior to assembly. _____
- 15.9 Mini light bar – Grote 77163, cab-mounted on a Stealth (by Carr) roof rack. _____
- 15.9.1 Strobe lights – two (2) Grote P/N 77363, rear facing, one in each rear corner pillar. _____
- 15.9.2 Mini light bar and strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch, labelled “Beacon” with a permanent type, engraved style label. _____
- 15.10 Trailer connector – 6-pole, Grote 82-1068 or equal, wired through chassis manufacturer’s OEM auxiliary circuit, and installed in rear trailer hitch plate. _____
- 15.11 All wiring for warning lights and trailer connector shall be colour coded, loomed and properly secured. _____
- 15.11.1 All electrical connectors shall be crimped and soldered, then sealed using heat shrink tubing. _____
- 15.11.2 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). _____
- 15.11.3 Any holes required to run wires through shall be drilled (not punched), grommeted and sealed as required. _____
- 16.0 WELDING**
- 16.1 All welds shall be continuous welds. _____
- 16.2 All welding performed shall conform to CSA Standard W47.1-03 and W59-03. _____
- Note: All welds are subject to inspection by a City of Winnipeg Qualified Inspector.
- 17.0 INSTALLATION**
- 17.1 Any holes required in the chassis frame web must be drilled and reamed to fit bolts. _____

- 17.1.1 Drilling on chassis frame flanges is not permitted. _____
- 17.1.2 Welding on the chassis frame is not permitted, with the exception of installation of dump body pivot support. _____
- 17.2 Tire clearance – min. 8 cm (3¼ in.) with rear suspension air bags lowered. _____
- 17.3 Clearance between dump body and back of truck cab shall be 8 cm (3¼ in.). _____
- 17.4 The dump body shall be installed on the following cab & chassis vehicle:

2008 International 4300

- 29,000 lbs. GVWR
- 108 in. CA
- 750,000 in-lb RBM double rail frame, outside frame clear
- DT466 in-line 6 cyl. diesel engine, 7.6 L
- Allison 2500 RDS Series automatic transmission
- Horizontal discharge exhaust
- Hydraulic brake system with air provision
- Air ride suspension

- 17.4.1 The chassis will be available for pick-up on or before July 3, 2007. The Contractor is responsible for pick-up and delivery of the unit as stated in Section 20.0 below. _____

18.0 MISCELLANEOUS

- 18.1 Rear hitch plate – 12.7 mm (½ in.) thick solid steel, (laminated plates unacceptable) installed to chassis frame. _____
- 18.1.1 "A" frame hitch reinforcement – 76 mm x 76 mm x 9.5 mm (3" x 3" x ¾") angle iron, welded to back of hitch plate and bolted to chassis frame web. _____
- 18.2 Combination hitch – Premier 150 w/2 in. ball or approved equivalent hitch, installed on hitch plate at a 61 cm (24 in.) height. _____
- 18.3 Lunette eyes for trailer safety chains – one (1) each side of hitch, Buyers Products B56730 or equal. _____
- 18.4 Mudflaps – black rubber, no-name, required front and rear of back tires c/w anti-sail bracket on each mud-flap. _____
- 18.4.1 Rear mudflaps shall not contact the ground when the dump body is at maximum dump angle. _____
- 18.5 Dump body prop – double prop design, steel tubing construction, to support dump body in raised position and permit servicing of hoist, operable by a single person, designed so as not to interfere with hoist cylinder or surroundings. _____

18.5.1 Dump body prop to be complete with receiving bracket.

18.6 Toolbox – 1/8 in. aluminum checkerplate construction, 76 cm W x 61 cm H x 46 cm D (30"W x 24"H x 18" D) approx., bottom hinged door c/w gas shocks, a lockable stainless steel T-handle and bulb type, automotive style weather stripping. Aluminum box to be mounted on driver's side frame rail ahead of rear wheels, installed in a 5 cm x 5 cm (2" x 2") steel angle iron frame. Toolbox frame to include a 1.5 mm (1/16 in.) rubber or neoprene insulator between steel and aluminum to prevent Galvanic corrosion.

18.7 Grease fittings – required on all bushings, pivot points and tailgate as required.

18.8 Automatic greasing system – complete dump body and chassis shall be supplied with a Groeneveld/CPL Systems Inc. automatic greasing system including all required grease points on dump body, approx. twenty-six (26) points on cab & chassis, and automatic low level shut-off with in-cab red light indicator.

19.0 FINISH

19.1 Complete dump body, hitch plate, reservoir, steel brackets, etc. (with the exception of inside of the floor) shall be sandblasted, properly cleaned, primed and finished with the Endura paint process as follows:

19.1.1 Primer – Endura EP32 Intermix Epoxy Primer.

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

20.0 PICK-UP AND DELIVERY

20.1 Pick-up – the Contractor shall be responsible for picking-up the cab & chassis vehicles from the City upon commencement of the Contract. The vehicles 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.

20.2 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 **eighteen (18) 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.

20.3 A pre-delivery inspection shall be performed by the Contractor on all equipment.

21.0 PERFORMANCE RELIABILITY

21.1 The responsibility for the design of the complete dump body, it's

performance and reliability shall rest upon the Contractor.

21.2 The term “*repeated 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.

21.3 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.

22.0 WARRANTY

22.1 The warranty on the complete dump body and attachments shall include 100% replacement parts and labour at no cost to the City and shall cover the complete equipment and all parts thereof against defects of workmanship, construction and materials for **two (2) years** from the date the equipment is put into service by the City of Winnipeg.

Note: See Supplemental Conditions for additional Warranties.

22.2 A new two (2) year warranty period shall be provided for any article that is repaired or replaced under the terms of the “repeated failures” (21.0 Performance Reliability). The new warranty period shall be effective from the date of acceptance of the repaired or replaced article.
