

**FORM A: BID**  
(See B8)

1. Contract Title SUPPLY AND INSTALLATION OF DUMP BODIES

2. Bidder

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Usual Business Name of Bidder as it appears on Invoice (if different from above)

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
Email Address of Bidder

\_\_\_\_\_  
Facsimile Number

(Mailing address if different)

\_\_\_\_\_  
Street or P.O. Box

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
GST Registration Number (if applicable)

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

\_\_\_\_\_  
Email 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/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

7. Contract By submitting a bid in response to this Tender, the Bidder certifies that it has read, understands, and agrees to the terms and conditions of this Tender and that the Tender, 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. Indigenous Self-Declaration The City is requesting that Bidders identify if their business is at least 51% owned by one or more Indigenous persons of Canada.

YES, 51% or more Indigenous ownership

NO, it is not

This information is being gathered for statistical purposes only and will not be used for purposes of evaluation.

11. 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 B9)

**SUPPLY AND INSTALLATION OF DUMP BODIES**

**UNIT PRICES**

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	9' x 8' Dump Body	19003	Each	10	
2.	9' x 8' Dump Body with: Option 1: Rear and Side Dump Option 2: Heavy Duty Tarp	19003	Each	1	
3.	11' X 8' Dump Body with Roof	19004	Each	1	

\_\_\_\_\_  
Name of Bidder

## FORM N: DETAILED SPECIFICATIONS 19003

### 9' x 8' DUMP BODY

#### **1.0 DESCRIPTION OF EQUIPMENT**

- 1.1 These specifications describe the supply and installation of 9' x 8' Dump Body and other equipment and features as specified herein.
- 1.2 The 9' x 8' Dump Body shall be a new 2019 model year or newer.
- 1.3 The 9' x 8' Dump Body and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### **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 Where applicable, the 9' x 8' Dump Body shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:  
<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:  
<http://web2.gov.mb.ca/laws/regsg/current/217.06.pdf>

Canadian Motor Vehicle Safety Standards C.M.V.S.S.  
[http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,\\_c.\\_1038/section-sched3.html](http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.  
<http://web2.gov.mb.ca/laws/regsg/index.php?act=h60>

Canadian Standards Association, CSA:  
<http://www.csagroup.org/>

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

Society of Automotive Engineers, SAE:  
<http://www.sae.org/>

City of Winnipeg Lighting Visibility Standard:  
<http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>

Manitoba Building Code:  
[https://web2.gov.mb.ca/laws/regsg/current/\\_pdf-regsg.php?reg=31/2011](https://web2.gov.mb.ca/laws/regsg/current/_pdf-regsg.php?reg=31/2011)

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.

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

**State** NSM number: \_\_\_\_\_

### **3.0 SERVICE FACILITY**

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

### **4.0 REFERENCES**

4.1 If available, please provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

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### **5.0 MAKE & MODEL**

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

### **6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**

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

6.2 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 and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specification is used, the City will also consider deviations and/or equivalents.

6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

### **7.0 PERFORMANCE RELIABILITY**

7.1 The responsibility for the design of the **9' x 8' Dump Body** its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to

accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

7.3 Where the **9' x 8' Dump Body** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. **Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C).**

**8.0 FUEL**

8.1 Where applicable, all equipment must be fully fueled upon delivery (no exceptions).

**9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

9.1 The manufacturer of the **9' x 8' Dump Body** shall have five (5) years continuous experience manufacturing **9' x 8' Dump Body**.

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **9' x 8' Dump Body** of the type being offered.

**10.0 SPECIFICATIONS:**

**Performance**

10.1 The Dump Body shall be capable of consistent top performance for hauling up to 6000 lbs. of varying payloads year-round in conditions normal to the City of Winnipeg \_\_\_\_\_

**Note:**

The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)

**Make and Model**

10.2 Make **State:** \_\_\_\_\_

10.3 Model **State:** \_\_\_\_\_

**Body Weight**

10.4 Body Weight **State:** estimated weight of body \_\_\_\_\_

**Weigh Scale Ticket**

10.5 Weigh Scale Ticket: \_\_\_\_\_

The Contractor shall provide a certified weigh scale ticket upon delivery of the completed unit. The scale ticket shall include front and rear axle weights including two (2) operators, all attachments and full of fuel.

## Installation

10.6 The Contractor shall install the bodies on the following City owned cab & chassis vehicles:

### Streets Maintenance:

#### **2019 Ford F-450 Five (5) Required Rear Dump**

- 16,500 lbs. GVWR
- Crew Cab
- 60 in. CA
- 2WD
- 6.7 L, Diesel engine
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust

#### WFMA Vehicle Unit Number(s):

- 2079301
- 2079302
- 2079303
- 2079304
- 2079305

### Parks:

#### **2019 Ford F-550 One (1) Required Rear Dump**

- 17,500 lbs. GVWR
- Extended Cab
- 60 in. CA
- 4WD
- Gasoline engine
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust

#### WFMA Vehicle Unit Number(s):

- 2209325

### Parks:

#### **2019 Ford F-550 Two (2) Required Rear Dump**

- 19,500 lbs. GVWR
- Crew Cab
- 60 in. CA
- 4WD
- 6.7 L, Diesel engine
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust

#### WFMA Vehicle Unit Number(s):

- 2329314
- 2329315

### Parks:

#### **2019 Ford F-450 Two (2) Required Rear Dump**

- 16,500 lbs. GVWR
- Regular Cab
- 60 in. CA
- 4WD
- Gasoline engine
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust

#### WFMA Vehicle Unit Number(s):

- 2109330
- 2109331

**2019 Ford F-550  
One (1) Required  
Rear & Side Dump  
Heavy Duty Tarp**

- 19,500 lbs. GVWR
- Crew Cab
- 60 in. CA
- 4WD
- 6.7 L, Diesel engine
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust

WFMA Vehicle Unit Number(s):

- 2329317

10.7	Availability	The chassis will be available during the fourth quarter of 2019	_____
10.8	Pick-Up	<ul style="list-style-type: none"><li>• The Contractor shall be responsible for picking-up the cab &amp; chassis vehicles from the City upon commencement of the Contract.</li><li>• The vehicles will be available for pick-up at the Winnipeg Fleet Management Agency, 185 Tecumseh St., Winnipeg, Manitoba.</li><li>• Pick-up times will be between 8:00 am and 2:00 pm on any Business Day.</li><li>• The Contractor shall be responsible for any related fuel and Insurance costs to and from their facility.</li></ul> <p><b>Note:</b> The vehicles will be fully fuelled at the time of pick-up by the Contractor</p>	_____
10.9	Clearance	Clearance between dump body and back of truck cab shall be a minimum 3 in. in accordance with the Cab & Chassis Incomplete Vehicle Manual	_____
10.10	Tire Clearance	Body shall provide for approximately 4 in. clearance with rear springs fully loaded	_____
10.11	Not-Permitted	<ul style="list-style-type: none"><li>• Drilling on chassis frame flanges</li><li>• Welding on the chassis frame</li></ul>	_____
10.12	Holes	<ul style="list-style-type: none"><li>• Holes in the chassis frame web shall be drilled and reamed to fit bolts</li><li>• Holes required to run wires through shall be drilled (not punched), grommeted and sealed as required</li></ul>	_____

10.13	Isolators	All interfaces between aluminium and steel are to be separated by an approximately $\frac{1}{16}$ in. thick rubber or neoprene sheet and shall be bolted through with stainless steel bolts and non-conductive bushings	_____
	<b>Material</b>		
10.14	Material	Unless Otherwise Specified: <ul style="list-style-type: none"><li>• 10 Gauge Steel</li><li>• 36,000 psi yield strength</li></ul>	_____
	<b>Finish</b>		
10.15	Preparation	Complete dump body and all ladders, hitch plates, reservoirs, steel brackets, etc. shall be sandblasted, properly cleaned, primed and finished with the Endura, DuPont or Tristar paint process	_____
10.16	Primer	<b>Required:</b> Epoxy or Polyurethane primer  Endura EP321 Intermix Epoxy Primer or DuPont polyurethane or Tristar Coatings Inc. Epoxy Primer  Two (2) coats – Dry Film Thickness 3.0 – 4.0 mils	_____
10.17	Paint	<b>Required:</b> Polyurethane Colour: Black  Endura EX-2C or DuPont Polyurethane or Tristar Coatings Inc. Polyurethane  Two (2) coats: 3 - 5 mils Wet Film Thickness with a total combined overall average Dry Film Thickness of 4 – 6 mils  Note: Complete body (inside and outside) shall be painted	_____
	<b>Welding Standards</b>		
10.18	Welds	Continuous welds	_____
10.19	Standard	CSA Standard W47.1-30 and W59-03	_____
10.20	Weld Spatter	Weld spatter to be removed prior to finish	_____
10.21	Not-Permitted	Welding on the chassis frame with the exception of the rear hitch plate	_____

### Dump Body - Dimensions

10.22	Length (Outside)	Approximately 9 ft. 6 in. <b>State:</b>	_____
10.23	Width (Outside)	Approximately 8 ft. <b>Note:</b> to match chassis track width <b>State:</b>	_____
<b>Front</b>			
10.24	Construction	<ul style="list-style-type: none"><li>• 10 gauge steel</li><li>• Formed construction</li><li>• Vertical or horizontal reinforcement rib(s) formed into front of body as required</li></ul>	_____
10.25	Front Height (Measured from Floor)	Approximately 53 in. <b>Note:</b> to match chassis cab height <b>State:</b>	_____
10.26	Window	<ul style="list-style-type: none"><li>• Plasma / CNC cut window</li><li>• For viewing through rear cab window</li></ul> <b>Note:</b> Expanded metal window not allowed	_____
10.27	Cab Shield	<ul style="list-style-type: none"><li>• Formed from a single sheet of steel</li><li>• bolt-on design</li><li>• Approximately 12 in. deep</li><li>• Sloped @ approximately 15°</li></ul> <b>Note:</b> The cab shield shall be of sufficient strength to accommodate: <ul style="list-style-type: none"><li>• directional arrow</li><li>• mini light bar</li><li>• lumber rack brackets</li></ul>	_____
10.28	Cab Shield Sides	<ul style="list-style-type: none"><li>• <math>\frac{3}{16}</math> in. plate</li><li>• with heavy duty reinforcement</li><li>• tapered @ approximately 30° to provide adequate clearance for entry and exit of vehicle cab</li></ul>	_____
<b>Sides</b>			
10.29	Construction	<ul style="list-style-type: none"><li>• Double Wall Design</li><li>• Inner panel 10 gauge steel</li><li>• Outer panel 12 gauge steel</li><li>• Fold-down design</li><li>• Clean side style formed sides without vertical reinforcements</li><li>• Formed top rail</li><li>• Formed, self-cleaning bottom rail</li><li>• Welded into a 1-piece design</li></ul>	_____
10.30	Side Height (Measured from Floor)	Approximately 14 in. <b>State:</b>	_____

10.31 Rear Corner Pillars

- Approximately 4" x 8"
- Formed
- One per side

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10.32 Sides

Sides shall be able to fold-down for ease of access to payload from the side of the body

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10.33 Grease Zerks

Fold-down sides shall incorporate greasable hinges

\_\_\_\_\_

10.34 Rubber Blocks

- Two (2) per side (one front, one rear)
- Approximately 6"L x 3"H x 3"D
- Prevent metal-to-metal contact when sides are in the "down" position

\_\_\_\_\_

10.35 Levers

- Dual levers per side - front and rear
- locking pins

\_\_\_\_\_



10.36 Tarp Tie-Down Bar

- One per side
- Material = 1/2 in. Round bar

\_\_\_\_\_



**Design and installation to be determined at pre-production meeting**

10.37 Plank Gussets

- Designed for 2" x 6" planks
- 1/2 in. diameter bolt holes

\_\_\_\_\_

10.38 Planks

- 2" x 6" planks
- Painted black on all sides
- Bolted in gussets

\_\_\_\_\_

**Tailgate**

10.39	Operation	<ul style="list-style-type: none"> <li>• Two-way tailgate</li> <li>• Ability to open from the top and bottom</li> <li>• Shall not protrude above floor in horizontal or full down position</li> <li>• Minimal gap between tailgate and the floor and sides when tailgate is in the closed or horizontal position</li> </ul>	_____
10.40	Construction	<ul style="list-style-type: none"> <li>• Formed construction</li> <li>• Double walled design</li> <li>• Inner panel 10 gauge steel</li> <li>• Outer panel 12 gauge steel</li> <li>• Formed top rail</li> <li>• Formed, self-cleaning bottom rail</li> <li>• Welded into a 1-piece design</li> <li>• Service panels for maintenance of the Upper Lever Pin Mechanisms</li> </ul>	_____
10.41	Tailgate Height (Measured from Floor)	<p>Approximately 20 in. <b>State:</b></p>	_____
10.42	Reinforcement	With heavy duty approximately 3/8 in. end plates	_____
10.43	Release Mechanism - Upper	<ul style="list-style-type: none"> <li>• Lever operated to release upper pins to allow the tailgate to fold-down</li> <li>• Service panel for maintenance</li> </ul>	_____
10.44	Release Mechanism - Lower	<ul style="list-style-type: none"> <li>• Release handle located at the front, driver's side of the body</li> <li>• Mechanism grease zerck lubricated</li> </ul>	_____
10.45	Top Tailgate Anchor Pins	<ul style="list-style-type: none"> <li>• Approximately 1 in. diameter</li> <li>• Self-locking/storing to top of side post</li> <li>• Greasable</li> </ul>	_____
10.46	Support and Spreader Chains	<ul style="list-style-type: none"> <li>• 5/16 in. transport grade 70</li> <li>• Adequately fastened c/w chain storage</li> <li>• Two (2) removable links per chain</li> <li>• Equipped with protective covers</li> </ul>	_____
<b>Floor</b>			
10.47	Material	<p>3/16 in. or 7 gauge steel <b>State:</b> material</p>	_____
10.48	Construction	<p>One-piece construction</p> <p><b>Note:</b> Two-piece floors accepted and shall be continuously welded</p>	_____
10.49	Long Sills	<ul style="list-style-type: none"> <li>• Formed long sills – approximately 6 in. height</li> <li>• Continuously welded to the floor</li> </ul>	_____

10.50 Corrosion Prevention

Formed long sills to be coated internally with a corrosion preventative compound to deter rust and corrosion

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### Tie Down Eyes

10.51 Tie Downs Eyes

**Required:** Four (4)  
Located on inside of dump body located on the corner pillars

- Two (2) near rear of body
- Two (2) near front of body

**Exact locations to be determined at a pre-production meeting**

### Lumber Rack Brackets

10.52 Construction

- Quantity two (2)
- Approximately 16"W x 12"H
- Bracket constructed of 2" x 2" x 1/4" steel angle iron and 1 1/2" steel square tubing
- Bungee Cord rings - qty two (2) per post
- "U"-style design - welded
- Bolted to the cab shield.

**Note:** Exact design and measurements to be discussed prior to installation



### Running Boards

10.53 Construction

Custom made:

- Extending entire length of underside of front and rear doors, each side.
  - AGS 6061 aluminium grip strut, 9-1/2" x 2" x .08"
  - Inside kick plate shall consist of 1/8" aluminium checker plate
  - Support brackets shall consist of 1 1/2" x 1 1/8" RC aluminium square tubing with 1/4" aluminium support plates.
-

10.54 Mounting

- Cab steps to be mounted using the existing holes in the frame and body where applicable
  - Use  $\frac{3}{8}$ -16 nut inserts to secure the mounting brackets to the body
- 



**Rear Fenders**

10.55 Rear Fenders

- Heavy Duty rear poly half-moon fenders complete with steel mounting hardware
- 



**Rear Hitch Plate**

10.56 Rear Hitch Plate

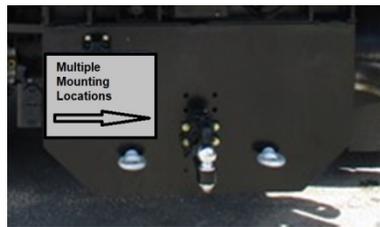
- $\frac{1}{2}$  in. thick solid steel
  - Installed to chassis frame
- 

**Note:** laminated plates not acceptable

**Design (including overhang) and installation to be determined at pre-production meeting.**

10.57 Hitch

- Combination hitch with 2-5/16 ball
- Installed on hitch plate at a 24 in. height
- Add extra holes in rear hitch plate to allow for multiple mounting positions
- Wallace Forge Company DPH2516
- Wallace Forge Company 2325211 – 2" ball supplied loose



**Design and installation to be determined at pre-production meeting**

10.58 Eye Bolt  
(Required for Trailer Safety Chains)

- One (1) each side of hitch
- Buyers Products B56730 or equal.



**Trailer Equipment**

10.59 Trailer Connector

SAE J560 7-Way Flat trailer receptacle mounted and installed in rear hitch plate complete with all necessary wiring

**Note:** The cab and chassis will be supplied (unattached) with Ford OEM Trailer Plug Socket and Electric Trailer Brake Controller

**Installation to be determined at pre-production meeting**

## Ladders

### 10.60 Access Ladders

**Required:** Two (2)

- Bolt-on installation
- Fold-Down (Retractable) Design
- Non-slip treads
- First rung to be 18-22 in. from ground level
- 400 lbs. capacity
- Buyers Products
- one (1) located curb-side front corner
- one (1) located driver's side front corner

**Note:** The ladders fold away when not in use and do not block access to truck boxes, reservoirs or other equipment

**Design and installation to be determined at a pre-production meeting**



10.61 Outside Step

- One (1) per side
- 13-gauge steel, 2¼ in. width
  - 4-hole design

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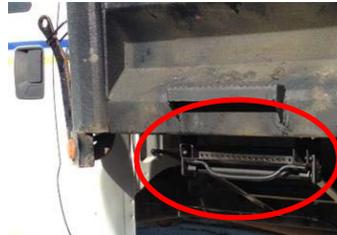


**Design and installation to be determined at a pre-production meeting**

10.62 Pull-Out Handle

Pull-Out Handle on bottom step for ease of pulling retractable ladder out

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10.63 Grab Handles

- Located for ergonomic access to top of box
- Diameter 1-1/4 in. (32 mm) – 1-1/2 in. (38 mm)
- Spacing behind grab bars approximately 3 in. (76 mm)
- Slip resistant
- Bolt-on construction
- Primed and painted safety yellow



**Design and installation to be determined at a pre-production meeting**

**Safety**

10.64 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
- Operating Handle to be positioned outside of chassis frame rails for operator safety (Driver's Side)
- Dump body prop to be complete with receiving bracket.
- Safety Lock Pin and Chain required to hold arms in the "Up" position (Driver Side)
- Refer to below pictures for sample design

**Design and installation to be confirmed at a pre-production meeting.**



Driver Side – Down



Driver Side – Up

10.65 Dump Body Prop Colours

All components (prop, handle and receiving bracket) shall be painted with **Safety Orange** for ease of identification

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10.66 Dump Body Stowage Warning System

**Required:**

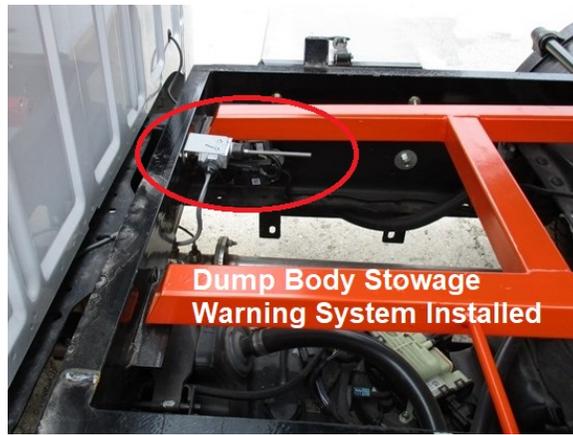
- Warning system shall be actuated when dump body is not in the fully stowed position.
- Wired to Back-Up alarm

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Buyers Product B95 or Grote 44421



**State:**



**Back-Up Alarm**

10.67	Back-Up Alarm	<ul style="list-style-type: none"> <li>• STAR model 99903</li> <li>• Mounted between frame rails at rear of vehicle</li> <li>• Protected from damage and road spray</li> <li>• Include wiring from Dump Body Stowage Warning System</li> </ul>	_____
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**Conspicuity Tape**

10.68	Conspicuity Tape	Truck-Lite 98127 or equal, affixed	_____
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**Grease Fittings**

10.69	Grease Fittings	<p><b>Required:</b> On tailgate release mechanisms, pivot points and drop-down side linkages</p>	_____
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**Hoist, Subframe and Controls**

10.70	Hoist	<ul style="list-style-type: none"> <li>• Double acting</li> <li>• Hydraulic scissor lift hoist</li> <li>• Electric pump activated</li> </ul>	_____
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**State:** make and model

10.71	Capacity	<p>Approximately Ten (10) to Fifteen (15) ton <b>State:</b> capacity</p>	_____
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10.72	Dumping Angle	<p>Approximately 45 degrees <b>State:</b> angle</p>	_____
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10.73	Sub-frame	Mounted to dump box	_____
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10.74	Power Pack	<ul style="list-style-type: none"> <li>• Hydraulic power pack</li> <li>• Frame-mounted aluminum enclosure with removable lid</li> <li>• Compartment door openings shall be sealed using automotive, bulb type rubber gaskets</li> </ul>	_____
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- 10.75 Controls
- In-cab
  - Up/down controls
  - Hand held with remote pendant
  - Storage bracket installed
- 

**Storage bracket location to be confirmed at a pre-production meeting.**

**Lighting and Electrical Standards**

- 10.76 Conformance:
- C.M.V.S.S.
  - Manitoba Highway Traffic Act.
  - City of Winnipeg Lighting Visibility Standard
- <http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>
- 

- 10.77 Lighting:
- Supplier installed
  - **High count** LED lighting
- 

- 10.78 Visibility:
- Taillights, back-up lights and warning lights to be fully visible when tailgate is lowered to horizontal position
  - No clearance light shall protrude beyond dump body
- 

- 10.79 Identification:
- All dash mounted warning lights and switches to be identified with permanent, engraved type labels
  - No labels to be located on upper surface of dash
- 

- 10.80 All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Strobes" with a permanent type, engraved style label.
- 

- 10.81 Connection System:
- Weather Pack Sealed Connection System
- 

- 10.82 Grommets:
- Rubber grommets unless otherwise specified
- 

- 10.83 Harnesses:
- Harness system, properly routed and secured.
  - All harnesses shall be internally grounded, no exceptions
  - Colour coded or numbered
- 

- 10.84 Junction box:
- Complete with necessary compression fittings, required for all vehicle lighting harness connections
  - Securely located – inside rear of truck frame
- 

- 10.85 All Plug-In Connectors:
- All plug-in connectors shall be coated with NYK compound prior to assembly.
-

- 10.86 Wiring: \_\_\_\_\_
- All wiring to be colour coded, loomed and properly secured.
  - All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Strobes" with a permanent type, engraved style label.

- 10.87 Electrical Connectors: \_\_\_\_\_
- All electrical connectors to be crimped, soldered and then sealed using heat shrink tubing.

- 10.88 Joining Of Wires: \_\_\_\_\_
- All joining of wires to be soldered and sealed using heat shrink tubing or approved OEM weather tight connections

**Note:** Crimp on electrical connectors for joining wires are not acceptable

- 10.89 Wiring Routing: \_\_\_\_\_
- Any holes required to run wires through shall be drilled (not punched), grommeted and sealed

**Lighting**

- 10.90 Mini Light Bar - Amber \_\_\_\_\_
- Whelen R2LPPA Series Amber LED Mini Light Bar
  - Mounted to centre top of cab
  - Protected by Branch Guard – heavy duty construction
  - Mini Light Bar shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Light Bar" with a permanent type, engraved style label.
  - Switch shall be capable of high/low mode.

- 10.91 Directional Arrow \_\_\_\_\_
- SWS 57748-2
  - 48 in. x 22 in.
  - Cab shield mounted
  - Rear facing
  - Controller mounted in-cab



- 10.92 Combination Turn/Stop And Taillights \_\_\_\_\_
- Top Mounted - One (1) per side
  - Bottom Mounted - One (1) per side
  - P/N Truck-Lite 44302R with P/N 44710 mounting grommets

10.93	Back-Up Lights	One (1) per side P/N Truck-Lite 44206C with P/N 44710 mounting grommets	_____
10.94	3-Light Cluster	<ul style="list-style-type: none"><li>• Three (3)</li><li>• P/N Truck-Lite10250R with P/N 10403 mounting grommets</li><li>• Located to protect from damage</li></ul>	_____
10.95	Clearance Lights	P/N Truck-Lite10250R and 10250Y with P/N 10403 mounting grommets. <b>Note:</b> shall not protrude beyond the dump body	_____
10.96	Harness	Truck-Lite 50 Series or equivalent harness system, properly routed, internally grounded and secured <b>State:</b>	_____
10.97	Amber Strobe Lights (Warning)	<ul style="list-style-type: none"><li>• One (1) per side</li><li>• Whelen 5GA00FAR</li><li>• Mounting grommets</li></ul>	_____
10.98	License Plate Light	Complete with license plate bracket. P/N Truck-Lite 36140 (Light) P/N Truck-Lite 36710 (Bracket)	_____
10.99	Rear Light Mounting Location (Rear Sill)	<ul style="list-style-type: none"><li>• Rear-Corner Clearance Lights, qty two (2), one per side</li><li>• Combination Turn/Stop and Taillights, qty two (2), one per side</li><li>• Back-Up Lights, qty two (2), one per side</li></ul> <p>The lights shall be situated so that no debris contacts the lights while dumping</p> <p><b>Location of Lights to be confirmed at pre-production meeting</b></p>	_____
10.100	Rear Light Mounting Location (Top-Rear of Body)	<ul style="list-style-type: none"><li>• Combination Turn/Stop and Taillights, qty two (2), one per side</li><li>• Amber Strobe Lights, qty two (2), one per side</li><li>• 3-Light Cluster, qty three (3)</li></ul> <p><b>Location of Lights to be confirmed at pre-production meeting</b></p>	_____
10.101	Clearance Light Mounting Locations:	<ul style="list-style-type: none"><li>• Front – qty two (2), located one on each bottom corner of body</li><li>• Sides – qty two (2) per side, located on front and rear bottom corners</li><li>• Rear – qty two (2), located one on each bottom or top corner</li></ul> <p><b>Location of Lights to be confirmed at pre-production meeting</b></p>	_____

### Options

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

10.102 Option 1: Rear and Side Dump \_\_\_\_\_

- The body shall be able to dump in two directions, to the rear and to the passenger side
- Actuated by a single lever to change dumping direction
- Lever to be ergonomically located for easy access from the driver
- Multi-Directional Dumping Hoist mounted in a sub-frame

**State:**

Hoist Capacity to rear: \_\_\_\_\_

Dump Angle rear: \_\_\_\_\_

Hoist Capacity to side: \_\_\_\_\_

Dump Angle side: \_\_\_\_\_

**State:**

Make: \_\_\_\_\_

Model: \_\_\_\_\_

**State:** Design changes required to have rear and side dump option

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10.103 Option 2: Heavy Duty Tarp

- Heavy Duty Tarp System suitable for a dump body with fold down sides
- Mesh tarp
- Lower crank handle
- Foldable crank handle for storage
- Lockable
- Steel sealed bearings
- All stainless steel hardware

**State:** make and model \_\_\_\_\_

**State Optional Pricing for:**

10.104 Amber/Blue Mini Light Bar Package \$ \_\_\_\_\_

- Whelen RDLPPAB Amber/Blue LED Mini Light Bar
- Blue Strobe Lights - Whelen 5GA00FBR
- Amber Strobe Lights - Whelen 5GA00FAR
- Mini Light Bar shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Light Bar Amber/Blue" with a permanent type, engraved style label.
- Mini Light Bar to be controlled by a single 3-Way switch with the following functions: Amber – Off – Amber/Blue



**Location of Mini Light Bar Package to be confirmed at pre-production meeting**

11.0 **WARRANTY:**

11.1 All warranty information shall be detailed and **include all exclusions.** \_\_\_\_\_

The Contractor shall provide all published warranty information upon delivery of the equipment.

Bidder shall state all warranty information.

11.2 Body **State:** \_\_\_\_\_

11.3 Hoist **State:** \_\_\_\_\_

12.0 **DELIVERY:**

12.1 **Delivery Point:** \_\_\_\_\_

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

12.2 **Delivery Time:** \_\_\_\_\_

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

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

12.3 **Delivery Contact:** \_\_\_\_\_

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

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

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

13.0 **MANUALS:**

13.1 **Operator's Manual:** \_\_\_\_\_

One (1) per unit shall be supplied with the units when delivered

14.0 **PARTS/LABOUR PRICING:**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. **State percentage discount** \_\_\_\_\_

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. **State percentage discount** \_\_\_\_\_

15.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

15.1 In order to assure minimum downtime of the Equipment in future service, the Contractor must provide one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing. \_\_\_\_\_

15.2 The Contractor must provide a list of factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during Preventative Maintenance servicing. \_\_\_\_\_

## FORM N: DETAILED SPECIFICATIONS 19004

### 11' x 8' DUMP BODY WITH ROOF

#### **1.0 DESCRIPTION OF EQUIPMENT**

- 1.1 These specifications describe an **11' X 8' Dump Body with Roof** and other equipment and features as specified herein.
- 1.2 The **11' X 8' Dump Body with Roof** shall be a new 2019 model year or newer.
- 1.3 The **11' X 8' Dump Body with Roof** and all other items/components shall be the manufacturer's latest model. The equipment shall be furnished complete and ready for operation. Any parts or accessories not specifically mentioned, but which are required to complete and place the equipment and associated attachments in successful operation shall be furnished as though specifically mentioned in these specifications. The equipment and associated attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.4 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the equipment.

#### **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 Where applicable, the **11' X 8' Dump Body with Roof** shall comply with the applicable regulations:

Transport Canada, National Safety Mark, NSM:  
<http://www.tc.gc.ca/eng/acts-regulations/acts-road.htm>

Manitoba Safety and Health Regulation, Parts 12, 16, 22:  
<http://web2.gov.mb.ca/laws/regs/current/217.06.pdf>

Canadian Motor Vehicle Safety Standards C.M.V.S.S.  
[http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,\\_c.\\_1038/section-sched3.html](http://laws-lois.justice.gc.ca/eng/regulations/C.R.C.,_c._1038/section-sched3.html)

Manitoba Highway Traffic Act regulations and requirements including, but not limited to, a Manitoba Government Inspection with Safety Sticker.  
<http://web2.gov.mb.ca/laws/regs/index.php?act=h60>

Canadian Standards Association, CSA:  
<http://www.csagroup.org/>

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

Society of Automotive Engineers, SAE:  
<http://www.sae.org/>

City of Winnipeg Lighting Visibility Standard:  
<http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf>

Manitoba Building Code:  
[https://web2.gov.mb.ca/laws/regs/current/\\_pdf-regs.php?reg=31/2011](https://web2.gov.mb.ca/laws/regs/current/_pdf-regs.php?reg=31/2011)

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.

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

**State** NSM number: \_\_\_\_\_

### **3.0 SERVICE FACILITY**

3.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

### **4.0 REFERENCES**

4.1 If available, please provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### **5.0 MAKE & MODEL**

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

### **6.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS**

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

6.2 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 and/or equivalents shall be clearly stated and fully detailed. Deviations and/or equivalents will be considered subject to evaluation. In every instance where a brand name or design specification is used, the City will also consider deviations and/or equivalents.

6.3 **EACH BIDDER IS REQUIRED TO FILL IN EVERY BLANK. FAILURE TO DO SO MAY BE USED AS A BASIS FOR REJECTION OF BID**

### **7.0 PERFORMANCE RELIABILITY**

7.1 The responsibility for the design of the **11' X 8' Dump Body with Roof** its performance and reliability shall rest upon the Contractor.

7.2 The term "repeated failures" as used herein is defined to mean that the same component, subassembly, or assembly develops repeated defects, breakdowns and/or malfunctions rendering the vehicle inoperative, or requiring repeated shop correction, service and/or replacement during the warranty period applicable for said component, subassembly, of assembly. Minor items or ordinary service adjustments are not included, or considered under the scope of "repeated failures", as well as other factors, such as operational damage due to

accidents, misuse or lack of proper maintenance, service and lubrication attention by not following the manufacturer's preventative maintenance schedule.

7.3 Where the **11' X 8' Dump Body with Roof** develops "repeated failures" in service, the Contractor shall make any necessary engineering changes, repairs, alterations or modifications in order to guarantee reliability of performance.

7.4 The equipment shall be capable of consistent top performance in City of Winnipeg Environment. **Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C).**

**8.0 FUEL**

8.1 Where applicable, all equipment must be fully fueled upon delivery (no exceptions).

**9.0 QUALIFICATIONS OF MANUFACTURER & CONTRACTOR**

9.1 The manufacturer of the **11' X 8' Dump Body with Roof** shall have five (5) years continuous experience manufacturing **11' X 8' Dump Body with Roof**.

9.2 The manufacturer shall have in effect a documented quality control program ensuring that the quality of materials and workmanship, including welding, conforms to the best standards and engineering practice of the industry.

9.3 The Contractor shall have five (5) years continuous experience servicing, repairing and maintaining **11' X 8' Dump Body with Roof** of the type being offered.

**10.0 SPECIFICATIONS:**

**Performance**

10.1 The Dump Body shall be capable of consistent top performance for hauling up to 6000 lbs. of varying payloads year-round in conditions normal to the City of Winnipeg \_\_\_\_\_



**Reference Picture for Proposed Dump Body with Roof**

**Note:**

The City of Winnipeg has four seasons with ambient temperatures ranging from approximately 90°F (32°C) to -40°F (-40°C)

**Make and Model**

10.2 Make State: \_\_\_\_\_

10.3 Model State: \_\_\_\_\_

**Body Weight**

10.4 Body Weight **State:** estimated weight of body \_\_\_\_\_

**Weigh Scale Ticket**

10.5 Weigh Scale Ticket: \_\_\_\_\_

The Contractor shall provide a certified weigh scale ticket upon delivery of the completed unit. The scale ticket shall include front and rear axle weights including two (2) operators, all attachments and full of fuel.

**Installation**

10.6 The Contractor shall install the Body on the following City owned cab & chassis vehicle: \_\_\_\_\_

Parks:

**2019 Ford F-550  
One (1) Required  
11' x 8' Dump with Roof**

- 17,500 lbs. GVWR
- Regular Cab
- 84 in. CA
- 4WD
- 6.7 L, Diesel engine
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust

WFMA Vehicle Unit Number(s):  
• 2109316

10.7 Availability The chassis will be available during the fourth quarter of 2019 \_\_\_\_\_

10.8 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 2:00 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

10.9 Clearance Clearance between dump body and back of truck cab shall be a minimum 3 in. in accordance with the Cab & Chassis Incomplete Vehicle Manual \_\_\_\_\_

10.10	Tire Clearance	Body shall provide for approximately 4 in. clearance with rear springs fully loaded	_____
10.11	Not-Permitted	<ul style="list-style-type: none"><li>• Drilling on chassis frame flanges</li><li>• Welding on the chassis frame</li></ul>	_____
10.12	Holes	<ul style="list-style-type: none"><li>• Holes in the chassis frame web shall be drilled and reamed to fit bolts</li><li>• Holes required to run wires through shall be drilled (not punched), grommeted and sealed as required</li></ul>	_____
10.13	Isolators	All interfaces between aluminium and steel are to be separated by an approximately $\frac{1}{16}$ in. thick rubber or neoprene sheet and shall be bolted through with stainless steel bolts and non-conductive bushings	_____
	<b>Material</b>		
10.14	Material	Unless Otherwise Specified: <ul style="list-style-type: none"><li>• 10 Gauge Steel</li><li>• 36,000 psi yield strength</li></ul>	_____
	<b>Finish</b>		
10.15	Preparation	Complete dump body and all ladders, hitch plates, reservoirs, steel brackets, etc. shall be sandblasted, properly cleaned, primed and finished with the Endura, DuPont or Tristar paint process	_____
10.16	Primer	<b>Required:</b> Epoxy or Polyurethane primer  Endura EP321 Intermix Epoxy Primer or DuPont polyurethane or Tristar Coatings Inc. Epoxy Primer  Two (2) coats – Dry Film Thickness 3.0 – 4.0 mils	_____

10.17	Paint	<p><b>Required:</b> Polyurethane Colour: Black</p> <hr style="width: 100%;"/> <p>Endura EX-2C or DuPont Polyurethane or Tristar Coatings Inc. Polyurethane</p> <p>Two (2) coats: 3 - 5 mils Wet Film Thickness with a total combined overall average Dry Film Thickness of 4 – 6 mils</p> <p>Note: Complete body (inside and outside) shall be painted</p>
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**Welding Standards**

10.18	Welds	Continuous welds	<hr style="width: 100%;"/>
10.19	Standard	CSA Standard W47.1-30 and W59-03	<hr style="width: 100%;"/>
10.20	Weld Spatter	Weld spatter to be removed prior to finish	<hr style="width: 100%;"/>
10.21	Not-Permitted	Welding on the chassis frame	<hr style="width: 100%;"/>

**Dump Body - Dimensions**

10.22	Length (Outside)	Approximately 11' 6" <b>State:</b>	<hr style="width: 100%;"/>
10.23	Width (Outside)	Approximately 8 ft. <b>Note:</b> to match chassis track width <b>State:</b>	<hr style="width: 100%;"/>

**Front**

10.24	Construction	<ul style="list-style-type: none"> <li>• 10 gauge steel</li> <li>• Formed construction</li> <li>• Vertical or horizontal reinforcement rib(s) formed as required</li> </ul>	<hr style="width: 100%;"/>
10.25	Front Height (Measured from Floor)	Approximately 60 – 72 in. <b>Note:</b> Height to be determined at pre- production meeting <b>State:</b>	<hr style="width: 100%;"/>

**Sides**

10.26	Construction	<ul style="list-style-type: none"> <li>• 10 gauge steel</li> <li>• Formed construction</li> <li>• Vertical or horizontal reinforcement rib(s) formed as required</li> </ul>	<hr style="width: 100%;"/>
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10.27	Side Height (Measured from Floor)	Approximately 60 - 72 in. <b>State:</b>	_____
		<b>Height to be determined at pre-production meeting</b>	
	<b>Tailgate</b>		
10.28	Operation	<ul style="list-style-type: none"> <li>• Two-piece tailgate</li> <li>• Complete with hold backs</li> </ul>	_____
10.29	Construction	<ul style="list-style-type: none"> <li>• Formed construction</li> <li>• Vertical or horizontal reinforcement rib(s) formed as required</li> </ul>	_____
10.30	Tailgate Height (Measured from Floor)	Approximately 24 - 30 in. <b>State:</b>	_____
		<b>Height to be determined at pre-production meeting</b>	
10.31	Swing	<ul style="list-style-type: none"> <li>• Approximately 270°</li> <li>• Complete with latch system to hold doors fully open while dumping</li> </ul>	_____
10.32	Hinges	<ul style="list-style-type: none"> <li>• Two (2) mounting hinges per side</li> <li>• Reinforced for heavy duty, long term use</li> <li>• Complete with grease fittings.</li> </ul>	_____
10.33	Latch	Heavy duty, single lever latch	_____
	<b>Floor</b>		
10.34	Material	3/16 in. thick <b>State:</b> material	_____
10.35	Construction	One-piece construction  <b>Note:</b> Two-piece floors accepted and shall be continuously welded	_____
10.36	Flooring Platform	Method 1: Long Sills: <ul style="list-style-type: none"> <li>• Formed long sills – approximately 6 in. height</li> <li>• Continuously welded to the floor</li> </ul> <p>OR</p> Method 2: Cross and Long Sills: <ul style="list-style-type: none"> <li>• 4 in. I-Beam crossmembers on 16 in. centres</li> </ul> <b>State:</b> method and dimensions	_____
10.37	Corrosion Prevention	Flooring platform be coated with a corrosion preventative compound to deter rust and corrosion	_____

**Roof**

10.38 Material

- 10 gauge steel
- Formed construction
- Vertical or horizontal reinforcement rib(s) formed as required

---

10.39 Air Exhaust Vents

- Two (2) per side
- equally spaced
- top mounted

**State:** size

---

**Running Boards**

10.40 Construction

Custom made:

- Extending entire length of underside of front and rear doors, each side.
- AGS 6061 aluminium grip strut, 9-½" x 2" x .08"
- Inside kick plate shall consist of 1/8" aluminium checker plate
- Support brackets shall consist of 1½" x 1½" x 1/8" RC aluminium square tubing with ¼" aluminium support plates.

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10.41 Mounting

- Cab steps to be mounted using the existing holes in the frame and body where applicable
- Use 3/8-16 nut inserts to secure the mounting brackets to the body

---



Running Boards

### Rear Fenders

10.42 Rear Fenders

- Heavy Duty rear poly half-moon fenders complete with steel mounting hardware
- Shall be installed to have sufficient clearance from body and when chassis suspension is dumped for dump body operation.



### Rear Hitch Plate

10.43 Rear Hitch Plate

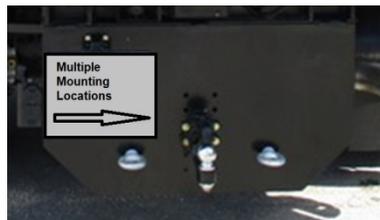
- ½ in. thick solid steel
- Installed to chassis frame

**Note:** laminated plates not acceptable

**Design (including overhang) and installation to be determined at pre-production meeting.**

10.44 Hitch

- Combination hitch with 2-5/16 ball
- Installed on hitch plate at a 24 in. height
- Add extra holes in rear hitch plate to allow for multiple mounting positions
- Wallace Forge Company DPH2516
- Wallace Forge Company 2325211 – 2" ball supplied loose



**Design and installation to be determined at pre-production meeting**

10.45 Eye Bolt  
(Required for Trailer Safety  
Chains)

- One (1) each side of hitch
- Buyers Products B56730 or equal.



### Trailer Equipment

10.46 Trailer Connector

SAE J560 7-Way Flat trailer receptacle mounted and installed in rear hitch plate complete with all necessary wiring

**Note:** The cab and chassis will be supplied (unattached) with Ford OEM Trailer Plug Socket and Electric Trailer Brake Controller

**Installation to be determined at pre-production meeting**

### Toolbox

10.47 Toolbox

- Aluminum construction
- Equipped with lockable doors, drain holes, vents and lined with dry deck material or equivalent
- Compartment door openings shall be sealed using automotive, bulb type rubber gaskets
- Complete with heavy duty door stays or hold-open devices
- Frame mounted

**State:** size of toolbox

**Toolbox size and location to be determined at pre-production meeting**

## Safety

### 10.48 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
- Operating Handle to be positioned outside of chassis frame rails for operator safety (Driver's Side)
- Dump body prop to be complete with receiving bracket.
- Safety Lock Pin and Chain required to hold arms in the "Up" position (Driver Side)
- Refer to below pictures for sample design

**Design and installation to be determined at a pre-production meeting.**



Driver Side – Down



Driver Side – Up

### 10.49 Dump Body Prop Colours

All components (prop, handle and receiving bracket) shall be painted with **Safety Orange** for ease of identification

10.50 Dump Body Stowage Warning System

**Required:**

- Warning system shall be actuated when dump body is not in the fully stowed position.
- Wired to Back-Up alarm

Buyers Product B95 or Grote 44421



**State:**



10.51 Back-Up Alarm

- STAR model 99903
- Mounted between frame rails at rear of vehicle
- Protected from damage and road spray
- Include wiring from Dump Body Stowage Warning System

**Conspicuity Tape**

10.52 Conspicuity Tape

Truck-Lite 98127 or equal, affixed

**Grease Fittings**

10.53 Grease Fittings

**Required:**

On tailgate release mechanisms and pivot points

### Hoist, Subframe and Controls

10.54	Hoist	<ul style="list-style-type: none"><li>• double acting</li><li>• hydraulic scissor lift hoist</li><li>• electric pump activated</li></ul> <p><b>State:</b> make and model</p>	_____
10.55	Capacity	Approximately Ten (10) to Fifteen (15) ton <b>State:</b> capacity	_____
10.56	Dumping Angle	Approximately 45 degrees <b>State:</b> angle	_____
10.57	Sub-frame	Mounted to dump box	_____
10.58	Power Pack	<ul style="list-style-type: none"><li>• Hydraulic power pack</li><li>• Frame-mounted aluminum enclosure with removable lid</li><li>• Compartment door openings shall be sealed using automotive, bulb type rubber gaskets</li></ul>	_____
10.59	Controls	<ul style="list-style-type: none"><li>• In-cab</li><li>• Up/down controls</li><li>• Hand held with remote pendant</li><li>• Storage bracket installed on dash</li></ul> <p><b>Storage bracket location to be confirmed at a pre-production meeting.</b></p>	_____

### Lighting and Electrical Standards

10.60	Conformance:	<ul style="list-style-type: none"><li>• C.M.V.S.S.</li><li>• Manitoba Highway Traffic Act.</li><li>• City of Winnipeg Lighting Visibility Standard <a href="http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf">http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf</a></li></ul>	_____
10.61	Lighting:	<ul style="list-style-type: none"><li>• Supplier installed</li><li>• <b>High count</b> LED lighting</li></ul>	_____
10.62	Visibility:	<ul style="list-style-type: none"><li>• Taillights, back-up lights and warning lights to be fully visible when tailgate is opened</li><li>• No clearance light shall protrude beyond dump body</li></ul>	_____
10.63	Identification:	<ul style="list-style-type: none"><li>• All dash mounted warning lights and switches to be identified with permanent, engraved type labels</li><li>• No labels to be located on upper surface of dash</li></ul>	_____
10.64	All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled "Strobes" with a permanent type, engraved style label.		_____

- 10.65 Connection System:  
• Weather Pack Sealed Connection System \_\_\_\_\_
- 10.66 Grommets:  
• Rubber grommets unless otherwise specified \_\_\_\_\_
- 10.67 Harnesses:  
• Harness system, properly routed and secured.  
• All harnesses shall be internally grounded, no exceptions  
• Colour coded or numbered \_\_\_\_\_
- 10.68 Junction box:  
• Complete with necessary compression fittings, required for all vehicle lighting harness connections  
• Securely located – inside rear of truck frame \_\_\_\_\_
- 10.69 All Plug-In Connectors:  
• All plug-in connectors shall be coated with NYK compound prior to assembly. \_\_\_\_\_
- 10.70 Wiring:  
• All wiring to be colour coded, loomed and properly secured.  
• All LED strobe lights shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Strobes” with a permanent type, engraved style label. \_\_\_\_\_
- 10.71 Electrical Connectors:  
• All electrical connectors to be crimped, soldered and then sealed using heat shrink tubing. \_\_\_\_\_
- 10.72 Joining Of Wires:  
• All joining of wires to be soldered and sealed using heat shrink tubing or approved OEM weather tight connections \_\_\_\_\_
- Note:** Crimp on electrical connectors for joining wires are not acceptable
- 10.73 Wiring Routing:  
• Any holes required to run wires through shall be drilled (not punched), grommets and sealed \_\_\_\_\_

**Lighting**

- 10.74 Mini Light Bar - Amber  
• Whelen R2LPPA Series Amber LED Mini Light Bar  
• Mounted to dump body roof  
• Protected by Branch Guard – heavy duty construction  
• Mini Light Bar shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Light Bar” with a permanent type, engraved style label.  
• Switch shall be capable of high/low mode \_\_\_\_\_

**Location of Mini Light Bar to be determined at pre-production meeting**

10.75	Combination Turn/Stop And Taillights	<ul style="list-style-type: none"><li>• Top Mounted - One (1) per side</li><li>• Bottom Mounted - One (1) per side</li><li>• P/N Truck-Lite 44302R with P/N 44710 mounting grommets</li></ul>	_____
10.76	Back-Up Lights	One (1) per side P/N Truck-Lite 44206C with P/N 44710 mounting grommets	_____
10.77	3-Light Cluster	<ul style="list-style-type: none"><li>• Three (3)</li><li>• P/N Truck-Lite10250R with P/N 10403 mounting grommets</li><li>• Located to protect from damage</li></ul>	_____
10.78	Clearance Lights	P/N Truck-Lite10250R and 10250Y with P/N 10403 mounting grommets. <b>Note:</b> shall not protrude beyond the dump body	_____
10.79	Amber Strobe Lights (Warning)	<ul style="list-style-type: none"><li>• One (1) per side</li><li>• Whelen 5GA00FAR</li><li>• Mounting grommets</li></ul>	_____
10.80	License Plate Light	Complete with license plate bracket. P/N Truck-Lite 36140 (Light) P/N Truck-Lite 36710 (Bracket)	_____
10.81	Rear Light Mounting Location (Rear Sill)	<ul style="list-style-type: none"><li>• Rear-Corner Clearance Lights, qty two (2), one per side</li><li>• Combination Turn/Stop and Taillights, qty two (2), one per side</li><li>• Back-Up Lights, qty two (2), one per side</li></ul> <p>The lights shall be situated so that no debris contacts the lights while dumping</p> <p><b>Location of Lights to be confirmed at pre-production meeting</b></p>	_____
10.82	Rear Light Mounting Location (Top-Rear of Body)	<ul style="list-style-type: none"><li>• Combination Turn/Stop and Taillights, qty two (2), one per side</li><li>• Amber Strobe Lights, qty two (2), one per side</li><li>• 3-Light Cluster, qty three (3)</li></ul> <p><b>Location of Lights to be confirmed at pre-production meeting</b></p>	_____
10.83	Clearance Light Mounting Locations:	<ul style="list-style-type: none"><li>• Front – qty two (2), located one on each bottom corner of body</li><li>• Sides – qty four (4) per side, located on front and rear bottom and top corners</li><li>• Rear – qty two (2), located one on each bottom or top corner</li></ul> <p><b>Location of Lights to be confirmed at pre-production meeting</b></p>	_____

**Options**

**State Optional Pricing for:**

- 10.84 Aluminum Body and Roof: \$ \_\_\_\_\_  
All material used in construction to be:
- Marine Quality Aluminum Grade 5083-H321
  - Sides, Roof and Rear Gate = 3/16 in. thick
  - Floor = 1/4 in. thick

**State:** Design changes required to manufacture from aluminum

\_\_\_\_\_

\_\_\_\_\_

- 10.85 Amber/Blue Mini Light Bar Package: \$ \_\_\_\_\_
- Whelen RDLPPAB Amber/Blue LED Mini Light Bar
  - Blue Strobe Lights - Whelen 5GA00FBR
  - Amber Strobe Lights - Whelen 5GA00FAR
  - Mounted to dump body roof
  - Protected by Branch Guard – heavy duty construction
  - Mini Light Bar shall be wired through the ignition, wired through a single OEM dash mounted switch or on the control panel enclosure, labelled “Light Bar Amber/Blue” with a permanent type, engraved style label.
  - Mini Light Bar to be controlled by a single 3-Way switch with the following functions: Amber – Off – Amber/Blue



**Location of Mini Light Bar to be determined at pre-production meeting**

11.0 **WARRANTY:**

- 11.1 All warranty information shall be detailed and **include all exclusions.** \_\_\_\_\_

The Contractor shall provide all published warranty information upon delivery of the equipment.

Bidder shall state all warranty information.

- 11.2 Body **State:** \_\_\_\_\_
- 11.3 Hoist **State:** \_\_\_\_\_

12.0 **DELIVERY:**

12.1 **Delivery Point:** \_\_\_\_\_

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

12.2 **Delivery Time:** \_\_\_\_\_

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

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

12.3 **Delivery Contact:** \_\_\_\_\_

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

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

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

13.0 **MANUALS:**

13.1 **Operator's Manual:** \_\_\_\_\_

One (1) per unit shall be supplied with the units when delivered

14.0 **PARTS/LABOUR PRICING:**

14.1 Bidder to provide City of Winnipeg Parts Discount % Pricing from retail parts pricing. **State percentage discount** \_\_\_\_\_

14.2 Bidder to provide City of Winnipeg Labor Discount % Pricing from Retail shop labor rate. **State percentage discount** \_\_\_\_\_

15.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

15.1 In order to assure minimum downtime of the Equipment in future service, the Contractor must provide one (1) complete replacement set of new OEM filters for each unit purchased. The set of required filters shall include (if applicable to the equipment type) air, fuel, oil, cab and hydraulic, or otherwise all known necessary common replacement filters required for the first preventative maintenance servicing. \_\_\_\_\_

15.2 The Contractor must provide a list of factory recommended lubricants to be used with the equipment, as well as a complete cross reference guide for all warranty approved lubricants and filters that can be used during Preventative Maintenance servicing. \_\_\_\_\_