

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

1. Contract Title SUPPLY AND DELIVERY OF A STEEL SERVICE BODY AND CRANE

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 Documents 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 DELIVERY OF A STEEL SERVICE BODY AND CRANE**

**UNIT PRICES**

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Service Body	19007	Each	1	
2.	Crane	19007	Each	1	

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

## FORM N: DETAILED SPECIFICATIONS 19007

### SERVICE BODY and CRANE

#### 1.0 DESCRIPTION OF EQUIPMENT

- 1.1 These specifications describe the supply and delivery of a **Service Body and Crane** and other equipment and features as specified herein.
- 1.2 The **Service Body and Crane** shall be a new 2020 model year or newer.
- 1.3 The **Service Body and Crane** 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 **Service Body and Crane** 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 Where applicable, 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 **Service Body and Crane** 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 **Service Body and Crane** 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 **Service Body and Crane** shall have five (5) years continuous experience manufacturing **Service Body and Crane**.

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 **Service Body and Crane** of the type being offered.

## 10.0 **SPECIFICATIONS:**

### **Scope**

10.1 Supply and Delivery of a **Steel Service Body** complete with steel deck which will be mounted on a City owned cab and chassis. \_\_\_\_\_

Supply and Delivery of a 10,000 ft-lb telescopic **Crane** to be installed at the rear, curbside of the body.

The **Service Body** shall be capable of supporting the **Crane** described in these specifications.

The **Service Body and Crane** shall be capable of consistent top performance for loading and hauling 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 – Service Body**

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

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

### **Body Weight**

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

10.5 Body Weight – Crane **State:** estimated weight of crane \_\_\_\_\_

**Installation**

10.6 **Service Body and Crane will be installed** on the following City owned cab & chassis vehicle: \_\_\_\_\_

**2019 Ford F-550**

- 19,500 lbs. GVWR
- Extended Cab
- 60 in. CA
- 4WD
- 6.8 L, V10 Gasoline engine
- TorqShift® 6-Spd. Automatic
- Horizontal discharge exhaust
- Oxford White Z1

WFMA Vehicle Unit Number:

- 2209310

**Drawings**

10.7 Drawings

- The Contractor shall supply multi-view CAD drawings to the Contract Administrator upon Award of Contract
- Drawings will be reviewed and approved as part of the Pre-Production planning stages
- Construction of the service body shall not commence until approval is granted

\_\_\_\_\_

**Welding Standards**

10.8 Welds Continuous welds \_\_\_\_\_

10.9 Standard CSA Standard W47.1-30 and W59-03 \_\_\_\_\_

10.10 Weld Spatter Weld spatter to be removed prior to finish \_\_\_\_\_

**Finish**

10.11 Steel Match chassis cab colour Ford Oxford White Z1 \_\_\_\_\_

10.12 Aluminum Components Unfinished \_\_\_\_\_

10.13 Deck Deck surface properly cleaned and coated with:

- Rust-Oleum AS5400 Anti-Slip Floor Covering
- Black

\_\_\_\_\_

10.14 Preparation All steel components unless otherwise noted in these specifications shall be sandblasted, properly cleaned, primed and finished with the Endura, DuPont or Tristar paint process \_\_\_\_\_



10.15 Primer **Required:** 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

10.16 Paint **Required:** Polyurethane \_\_\_\_\_  
**Colour:** 2019 Ford Oxford White Code Z1  
  
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

**Service Body**

10.17 Material 

- 12 gauge Galvanneal steel
- Double sided construction
- Internally reinforced compartment doors

 \_\_\_\_\_  
**State:** material thickness

10.18 Compartment Layout Each side of vehicle to have: \_\_\_\_\_  

- one (1) front vertical compartment
- one (1) horizontal compartment over the wheel well
- one (1) rear vertical compartment

  
Refer to Appendix A

**General Dimensions**

For the purpose of these specifications:

- L – Length along or parallel to chassis longitudinal axis.
- H – Height, vertical.
- D – Depth on horizontal plane across vehicle

**Note:** Unless otherwise specified, all dimensions are in inches

10.19 Body Height Approximately 40 in. \_\_\_\_\_  
10.20 Body Length Approximately 132 in. \_\_\_\_\_  
(work platform included)  
10.21 Body Width Approximately 96 in. \_\_\_\_\_

**Compartment Layout, Road Side  
Refer to Appendix A**

- |       |   |   |       |
|-------|---|---|-------|
| 10.22 | Front Vertical<br>Compartment # 1<br>Appendix A | <ul style="list-style-type: none"><li>• Compartment # 1</li><li>• Approximately 35L x 40H x 22D</li><li>• 8-drawers</li><li>• Qty one (1) 6 inch</li><li>• Qty one (1) 5 inch</li><li>• Qty four (4) 4 inch</li><li>• Qty two (2) 3 inch</li><li>• Fixed top shelf with a 1 in. (25 mm) lip for extra storage</li><li>• 250 lb. maximum load capacity</li><li>• 250 lbs. drawer slides</li></ul> <p><b>State:</b><br/>Compartment Size: _____<br/>Drawer Size(s): _____</p> | _____ |
| 10.23 | Horizontal<br>Compartment # 2<br>Appendix A     | <ul style="list-style-type: none"><li>• Compartment # 2</li><li>• Approximately 44L x 20H x 18D</li><li>• Qty one (1) adjustable shelf with a 1 in. (25 mm) lip</li><li>• 250 lb. maximum load capacity</li></ul> <p><b>State:</b><br/>Compartment Size: _____</p>  | _____ |
| 10.24 | Rear Vertical<br>Compartment #3<br>Appendix A   | <ul style="list-style-type: none"><li>• Compartment # 3</li><li>• Approximately 28L x 40H x 22D</li><li>• 3-drawers</li><li>• 12-inch height</li><li>• Fixed top shelf with a 1 in. (25 mm) lip for extra storage</li><li>• 250 lb. maximum load capacity</li><li>• 250 lbs. drawer slides</li></ul> <p><b>State:</b><br/>Compartment Size: _____<br/>Drawer Size(s): _____</p>   | _____ |

**Compartment Layout, Curb Side  
Refer to Appendix A**

- |       |   |  |       |
|-------|---|--|-------|
| 10.25 | Front Vertical<br>Compartment # 4<br>Appendix A | <ul style="list-style-type: none"><li>• Compartment # 4</li><li>• Approximately 35L x 40H x 22D</li><li>• 3-drawers</li><li>• 12 inch height</li><li>• Fixed top shelf with a 1 in. (25 mm) lip for extra storage</li><li>• 250 lb. maximum load capacity</li><li>• 250 lbs. drawer slides</li></ul> <p><b>State:</b><br/>Compartment Size: _____<br/>Drawer Size(s): _____</p>                                      | _____ |
| 10.26 | Horizontal<br>Compartment # 5<br>Appendix A     | <ul style="list-style-type: none"><li>• Compartment # 5</li><li>• Approximately 44L x 20H x 22D</li><li>• 2-drawers – side by side</li><li>• 12 inch height</li><li>• Equal width</li><li>• Fixed top shelf with a 1 in. (25 mm) lip for extra storage</li><li>• 250 lb. maximum load capacity</li><li>• 250 lbs. drawer slides</li></ul> <p><b>State:</b><br/>Compartment Size: _____<br/>Drawer Size(s): _____</p> | _____ |
| 10.27 | Rear Vertical<br>Compartment # 6<br>Appendix A  | <ul style="list-style-type: none"><li>• Compartment # 6</li><li>• Approximately 28L x 40H x 18D</li><li>• Qty three (3) adjustable shelves</li><li>• 250 lb. maximum load capacity</li><li>• Compartment shall be reinforced as required to accommodate the crane specified in these specifications</li><li>• Independent of all other compartments</li></ul> <p><b>State:</b><br/>Compartment Size: _____</p>       | _____ |

### Standards

10.28	Compartment Floor Reinforcement	Compartments # 2 and 6 shall be lined with a $\frac{3}{16}$ in. steel plate covered with rubber matting	_____
10.29	Compartment Floor Lining	Compartment # 2 and 6 shall be lined with Dri-Dek material	_____
10.30	Isolators	<ul style="list-style-type: none"><li>• All interfaces between aluminium and steel are to be separated by an approximately <math>\frac{1}{16}</math> in. thick rubber or neoprene sheet</li><li>• Shall be bolted through with stainless steel bolts and non-conductive bushings</li></ul>	_____
10.31	Drain Holes	All body compartments to include a $\frac{1}{2}$ in. drain hole complete with plug	_____
10.32	Doors	All vertical compartments doors to vertically hinged	_____
10.33	Door Latches	<ul style="list-style-type: none"><li>• Flush mounted with locks for all compartment doors</li><li>• All locks shall be keyed alike</li></ul>	_____
10.34	Compartment Door Handles	Chrome plated or stainless steel paddle style handles	_____
10.35	Door Hinges And Latches	Chromed or stainless steel with adjustable striker plates	_____
10.36	Compartment Door Openings	Sealed using automotive type bulb gasket door seal	_____
10.37	Door Hold-Open Devices	<ul style="list-style-type: none"><li>• Over-centre door holders on front and rear compartments</li><li>• Detachable cables on horizontal compartments</li></ul>	_____
10.38	Rubber Bumpers	<ul style="list-style-type: none"><li>• Installed on the body below the horizontal compartments to prevent contact between the compartment door and the body</li><li>• Two (2) bumpers per door</li></ul>	_____
10.39	Wheel Well Area	<ul style="list-style-type: none"><li>• Shall incorporate a fibreglass or rubber fender flare</li><li>• Wheel Well panels are removable</li></ul>	_____
10.40	Drip Edge	<ul style="list-style-type: none"><li>• Installed along the full length of the body above the door openings</li><li>• Designed to prevent water from entering into the storage compartments</li></ul>	_____

**State:** method \_\_\_\_\_

### Main Deck Assembly

10.41	Deck	<ul style="list-style-type: none"><li>• 3/16 in. steel checker plate</li><li>• 6 inch structural steel channel full frame</li></ul>	_____
10.42	Work Platform	<ul style="list-style-type: none"><li>• Approximately 2 ft. x full width</li><li>• Extension of the deck</li><li>• 3/16 in. steel checker plate</li><li>• Lockable through compartment on underside</li></ul>	_____
10.43	Deck Width	Approximately 52 in. between side packs	_____
10.44	Deck Sides	<ul style="list-style-type: none"><li>• 3/16 in. steel checker plate</li><li>• Extended full height up sides of side packs</li></ul>	_____
10.45	Tie-Down Eyes	<ul style="list-style-type: none"><li>• Eight (8) total</li><li>• Corrosion protected</li><li>• One (1) required near each corner of floor/deck flush mounted</li><li>• Two (2) equally spaced on inside of side packs, mid-height, each side</li><li>• Floor mounted tie-down eyes rated for lifting service body with an overhead crane</li></ul> <p><b>State:</b> method of corrosion protection</p>	_____
10.46	Front Headboard	<ul style="list-style-type: none"><li>• 3/16 in. steel checker plate</li><li>• Approximately 52 in.</li><li>• Top of headboard shall not protrude higher than the lower portion of the rear truck window</li></ul>	_____
10.47	Kick Plate, Rear of Body	<ul style="list-style-type: none"><li>• 3/16 in. steel checker plate</li><li>• Full width below deck floor level</li></ul>	_____
10.48	Kick Plate, Front	<ul style="list-style-type: none"><li>• 3/16 in. aluminum checker plate to protect lower front area of body protruding past chassis cab</li><li>• Each side</li><li>• Approximately 8 in. kick plate height</li></ul>	_____
10.49	Tailgate	<ul style="list-style-type: none"><li>• Automotive style tailgate</li><li>• 12-Gauge Galvanneal steel</li><li>• All components corrosion protected</li><li>• Approximately 10 in. height</li><li>• Load rating of approximately 350 lbs.</li><li>• Fold-down style with check chains or slam style spring latch with hidden stop opening to 90 degrees</li></ul> <p><b>State:</b></p>	_____
10.50	Sealant	Deck sides and kick plates caulked along edges using elastomeric sealant	_____

**Rear Bumper and Receiver**

10.51 Rear Bumper and Receiver

- The City of Winnipeg will build and install a custom made rear bumper complete with receiver
- Outriggers from specification 10.71 will be incorporated into this bumper

\_\_\_\_\_

**Crane**

10.52 Make Auto Crane  
**State:** \_\_\_\_\_

10.53 Model 3203EH Series with NexStar  
**State:** \_\_\_\_\_

10.54 Type

- Electric-Hydraulic
- Rear corner mounted
- Telescopic

\_\_\_\_\_

10.55 Rating Approximately 10,000 ft-lb  
**State:** \_\_\_\_\_

10.56 Lifting Capacities

Approximately 3,200 lbs. @ 2 ft.  
**State:** \_\_\_\_\_

Approximately 1200 lbs. @ 8 ft.  
**State:** \_\_\_\_\_

Approximately 1000 lbs. @ 10 ft.  
**State:** \_\_\_\_\_

Approximately 660 lbs. @ 15 ft.  
**State:** \_\_\_\_\_

10.57 Mounting Location Rear Curbside corner of service body on top of side packs  
\_\_\_\_\_

**Note:** Service body to be reinforced in the rear compartment # 6 to allow for installation of the crane.

10.58 Reach

- 15 ft. telescopically extendable boom length
- Hydraulic power boom extending to 11 ft.
- Manual extension to 15 ft.

**State:** boom extension details

\_\_\_\_\_

10.59 Rotation 360 degrees continuous power rotation  
\_\_\_\_\_

10.60 Crane Weight **State:** estimated weight of crane  
\_\_\_\_\_

10.61 Stowed Boom Length **State:** \_\_\_\_\_

10.62 Extended Boom Length **State:** \_\_\_\_\_

10.63 Width **State:** \_\_\_\_\_

10.64 Height, In-Stowed Position **State:** \_\_\_\_\_

10.65	Base Plate	Must meet crane capacity requirements <b>State:</b> size and thickness	_____
10.66	Automatic Overload Protection System	<b>Required:</b>	_____
10.67	Winch	<ul style="list-style-type: none"><li>• 12-Volt electric</li><li>• Approximately 60 ft. of <math>7/32</math> in. galvanized</li><li>• 5600 lbs. aircraft quality cable</li><li>• Safety hook complete safety latch</li><li>• Down haul weight</li></ul>	_____
10.68	Remote Control Pendant	<ul style="list-style-type: none"><li>• Proportional control</li><li>• Tethered</li><li>• Removable</li><li>• Approximately 18 ft. of cable</li></ul>	_____
10.69	Circuit Breaker	<b>Required:</b> Approximately 150 Amp	_____
10.70	Master Disconnect Switch	<b>Required:</b>	_____
10.71	Outriggers	<b>Required:</b> <ul style="list-style-type: none"><li>• Steel construction including all components for rear installation</li><li>• Installation by the City of Winnipeg</li><li>• Outriggers shall include a heavy-duty cross tube rated for crane capacity</li><li>• Manually extendable with a crank-down leg on each side</li><li>• The outriggers shall be incorporated into a custom made rear bumper, built and installed by the City of Winnipeg</li></ul>	_____
10.72	Operator's Manual	<b>Required:</b>	_____
	<b>Crane Installation</b>		
10.73	General	The crane shall be supplied complete and ready for installation including, but not limited to, mounting hardware, fasteners, base plate, hydraulic hoses, hydraulic oil, etc.	_____
10.74	Location	Rear, curb side, vertical compartment # 6  Appendix A	_____
10.75	Installation Manual	<ul style="list-style-type: none"><li>• The Contractor shall provide an installation manual providing installation instructions for the crane</li><li>• The manual shall include, but not limited to, recommended fasteners, base plate, welding criteria, recommended outrigger design criteria, etc.</li></ul>	_____

### Lighting and Electrical Standards

- |       |  |       |
|-------|--|-------|
| 10.76 | Conformance: <ul style="list-style-type: none"><li>• LED Lighting</li><li>• C.M.V.S.S.</li><li>• Manitoba Highway Traffic Act.</li><li>• City of Winnipeg Lighting Visibility Standard</li></ul> <a href="http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf">http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf</a> | _____ |
| 10.77 | Lighting: <ul style="list-style-type: none"><li>• Supplier installed</li><li>• LED</li><li>• Stop / turn / tail lights</li><li>• Clearance lights</li><li>• Back-up lights</li><li>• 3-Light cluster</li></ul>   | _____ |
| 10.78 | Visibility: <ul style="list-style-type: none"><li>• No clearance light shall protrude beyond the service body</li></ul>  | _____ |
| 10.79 | 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>  | _____ |
| 10.80 | 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: <ul style="list-style-type: none"><li>• Weather Pack Sealed Connection System</li></ul>   | _____ |
| 10.82 | Grommets: <ul style="list-style-type: none"><li>• Rubber grommets unless otherwise specified</li></ul>   | _____ |
| 10.83 | Harnesses: <ul style="list-style-type: none"><li>• Harness system, properly routed and secured.</li><li>• All harnesses shall be internally grounded, no exceptions</li><li>• Colour coded or numbered</li></ul>   | _____ |
| 10.84 | Junction box: <ul style="list-style-type: none"><li>• Complete with necessary compression fittings, required for all vehicle lighting harness connections</li><li>• Securely located – inside rear of truck frame</li><li>• Readily accessible for servicing</li></ul>   | _____ |
| 10.85 | All Plug-In Connectors: <ul style="list-style-type: none"><li>• All plug-in connectors shall be coated with Truck-Lite NYK Corrosion Preventive Compound prior to assembly</li></ul>   | _____ |
| 10.86 | Compartment Lights: <ul style="list-style-type: none"><li>• LED continuous "rope" style lighting in all service body compartments, properly secured to prevent damage</li></ul>  | _____ |



10.87 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

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

10.89 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

10.90 Wiring Routing: \_\_\_\_\_  
• Any holes required to run wires through shall be drilled (not punched), grommited and sealed

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 Crane **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 award: \_\_\_\_\_

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

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

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

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

13.0 **MANUALS:**

13.1 **Manuals:** \_\_\_\_\_

The following manuals shall be supplied with the equipment when delivered:

**Operator – Two (2) Copies**

- One (1) copy shall be sent to the Equipment Operator Training Branch
- One (1) copy to be left with the equipment

**Parts and Service**

- One (1) complete set including preventative maintenance schedules

**Note:** CD or USB flash drive is preferred where available.

14.0 **PARTS/LABOUR PRICING:**

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

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

15.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT:**

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

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