

FORM A: BID
(See B7.4)

1. Contract Title

REMOUNTING OF SANDER SPREADER AND 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 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)
REMOUNTING OF SANDER SPREADER AND DUMP BODIES

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Remounting of Viking Cives PL1011LW-BDAL 10' x 8' U-Body Combination Dump/Spreader Body Aluminum, 12' reversible snow plow mounting hardware and all associated equipment on a 39,000 lbs. GVWR Conventional Cab & Chassis.	20010	Each	5	
2.	Remounting of Viking Cives PL1314LW-AL 13' x 8' U-Body Combination Dump/Spreader Body Aluminum, 12' reversible snow plow mounting hardware and all associated equipment on a 58,000 lbs. GVWR Conventional Cab & Chassis.	20011	Each	6	
3.	Remounting of Beau-Roc 12' x 8' Dump Body Steel, 12' reversible snow plow mounting hardware and all associated equipment on a 39,000 lbs. GVWR Conventional Cab & Chassis.	20012	Each	4	

Name of Bidder

FORM N: DETAILED SPECIFICATIONS 20010

REMOUNTING VIKING CIVES PL1011LW-BDAL 10' X 8' U-BODY COMBINATION DUMP/SPREADER BODY ALUMINUM, 12' REVERSIBLE SNOW PLOW AND ALL ASSOCIATED EQUIPMENT ON A 39,000LBS. GVWR CONVENTIONAL CAB & CHASSIS

1.0 DESCRIPTION OF EQUIPMENT/APPLICATION

- 1.1 These specifications describe the remounting of PL1011LW-BDAL 10' X 8' U-Body Combination Aluminum Dump/Spreader Bodies, 12' reversible snow plow mounting hardware and **all associated equipment** to successfully remount the equipment on to new 2021 Western Star 4700 SB conventional chassis provided by the City of Winnipeg and features as specified herein. The successful bidder is responsible for ensuring all installation requirements meet the chassis manufacture body mounting standards and all applicable Canadian Safety Standards. It will be the responsibility of the installer to ensure the final completion of the trucks meets all necessary operational performance requirements, chassis GVWR restrictions, weight distributions and center of gravity requirements. It is the intent of the City of Winnipeg to re-mount existing Dump/Spreader Bodies, 12' reversible snow plows and all associated equipment and assess a new 7-9 year life cycle on the sander spreader bodies, plows and new truck chassis.
- 1.2 The re-mounting of all 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.
- 1.3 Bidders are encouraged to view the Viking Cives PL1011LW-BDAL 10' X 8' Dump/Spreader Bodies prior to submitting a bid. To make an appointment to view the units, contact the Contract Administrator in D4.

2.0 ADDITIONAL WORK

- 2.1 The items outlined in **8.0 Scope of Work** are for award purposes only and shall not be construed to describe the complete work required. Additional work may be required to bring the sander spreader bodies to "as new" condition and shall be performed by the Contractor on a cost plus basis.
- 2.2 Prior to commencement of additional work, the Contractor shall submit a written quotation for the work to be performed, for approval by the Contract Administrator. The written proposal shall consist of a detailed description of the work to be performed, materials required, material costs, hourly shop charge and the total number of shop hours required. The hourly shop charge shall include all applicable local taxes, shop supply fees, etc. Upon re-mounting installation should the contractor identify equipment components that would not meet a 7-9 year life cycle, the Contractor shall contact the Contract Administrator with a parts and labour quote prior to the any work being completed. Additional work, not described in these specifications, but which is required to complete the transfers to an "as new" condition, shall be performed on a cost plus basis.

3.0 OTHER SPECIFICATIONS AND STANDARDS

- 3.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 3.2 The installing U-Body Combination **Dump/Spreader Bodies and associated attachments** 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

PART B - 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>.

- 3.3 In Canada, Modification to vehicles can only be done at facilities that are recognized by Transport Canada. All of these facilities must have a National Safety Mark from Transport Canada. Transport Canada National Safety Mark is a label that indicates that the modifications are compliant with all current Canadian Motor Vehicle Safety Standards (CMVSS).

STATE (NSM) # _____

- 3.4 The vehicle shall be complete with a current Manitoba Safety Sticker affixed to the driver's side window (if applicable).
- 3.5 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.

4.0 SERVICE FACILITY

- 4.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Further to 4.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

5.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 5.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Tender package.
- 5.2 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.

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

6.0 PERFORMANCE RELIABILITY

6.1 The responsibility for installing **U-Body Combination Dump/Spreader Bodies and associated attachments**, its performance and reliability shall rest upon the Contractor.

6.2 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.

6.3 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)

7.0 QUALIFICATIONS OF CONTRACTOR

7.1 The Contractor of the installing **U-Body Combination Dump/Spreader Bodies and associated attachments** and all associated equipment shall have experience installing **U-Body Combination Dump/Spreader Bodies and associated attachments**.

7.2 The Contractor 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.

7.3 The Contractor shall have experience servicing, repairing and maintaining installing **U-Body Combination Dump/Spreader Bodies and associated attachments** of the type being offered.

8.0 SCOPE OF WORK: REMOUNTING VIKING CIVES PL1011LW-BDAL 10' X 8' U-BODY COMBINATION DUMP/SPREADER BODY ALUMINUM, 12' REVERSIBLE SNOW PLOW AND ALL ASSOCIATED EQUIPMENT ON A 39,000# GVWR CONVENTIONAL CAB & CHASSIS

8.1 The work consisting of remounting Viking-Cives combination dump/spreader bodies shall be performed on the following vehicles: _____

Chassis Unit #	Body Unit #	Department	Model (Body)	Serial #
2719206	5419206	PW-SM-NORTH AREA	PL1011LW BDAL	00377
2719214	5419214	PW-SM-EAST AREA	PL1011LW BDAL	00378
2719215	5419215	PW-SM-EAST AREA	PL1011LW BDAL	00379
2719223	5419223	PW-SM-SOUTH AREA	PL1011LW BDAL	00380
2719224	5419224	PW-SM-SOUTH AREA	PL1011LW BDAL	00381

8.2 The remounted sander spreader body shall be remounted to the following vehicle: _____

2021 Western Star 4700 SB conventional chassis

- 330HP Cummins inline 6 cylinder diesel engine
- 169 in. wheelbase
- Cab to axle 103 in.
- After frame 63 in.
- Front plow/end and dump body
- 39,000 lbs. GVWR

8.3 The Contractor shall complete an equipment assessment and report to the Contract Administrator on unit #, Viking E# and serial # basis. _____

8.4 Upgrade control system to latest Parker Control System IQuan- MD4 to include: new controller wiring, new harness, connectors and fittings, no substitutes. _____

The system must be fully compatible with AVL reporting software also to be able to connect to an InterFleet MDU which has a 9 pin (male) serial port for exporting material data such as kg/km, spinner rate, material selected, rod and air temp and accumulative total for both dry and liquid materials. All cables needed to connect to the InterFleet MDU must be supplied. The Contractor shall be responsible for ensuring the control system is supplied with the manufacturer's latest software version. Mounting location – Controller shall be ergonomically located for operator. Exact location to be determined at time of installation. Remote pause required on top of joystick. Sand gate read back device – automatic feedback to controller. The read back device shall be an integral part of the cylinder. Capable of operating in closed loop Control system enclosure – all controls and switches must be clearly identified and back-lit. _____

8.5 Chemical Wash of the entire exterior body. _____

8.6 New painted black wood planks. _____

8.7 New poly half-moon brackets and fenders. _____

8.8 New hydraulics hoses and all fittings. _____

8.9 Remount, sand blast and paint, front hitch plates _____

8.10 Flush hydraulic system. Replace all hydraulic oil and filters _____

8.11 Replace pressure filter element. _____

8.12 Change oil in the gear box _____

8.13 Front pump new drive shaft only _____

8.14 Chains replaced with new _____

8.15 New Sprockets, shafts and idler shafts. _____

8.16 Remount snow plow lights to fender mounted mirrors to new cab and chassis. _____

8.17 New electrical wiring harness _____

8.18 New junction box on a as need basis only. _____

8.19 Tail gate air trip requires reconnection to a dash switch on the new chassis. _____

8.20 Inspect liquid pumping systems. Replace pumps and sensors with new Parker parts. _____

8.21 Re-mounting CPL Greasing System. _____

The following components of the greasing system shall be re-installed on the new chassis and remounted body: **Note:** components specified below are to be inspected prior to installation and any issues shall be reported as per 2.0 Additional Work. _____

- Lubrication pump _____
- All injectors (reconnected back to their original component/grease point) _____
- Refill adapter fitting Parker # H2-63 and shall be secured with a bulkhead and angle bracket free from sharp edges. _____

The following components shall be replaced with new parts: _____

- **New mounting hardware** for pump to chassis frame and to pump bracket. _____
- **Replace air connection** – compressed air connection for the automatic lubrication pump to be connected to a secondary air tank supply from the chassis air systems. Red ¼ in. DOT approved airline shall be applied and fitted with an air system protection check valve into the system secondary tank. _____
- **Main grease lines** replaced with extreme low temperature type (e.g. Eaton Aeroquip SAE 100R16 Matchmate Global Ice) steel braided rubber hose with working pressure of 6000 psi. or equivalent operating performance. _____
- **Secondary grease lines** replace with 3/16 in. nylon heavy wall grease colour coded line from the injector to the connected component. _____
- **Remote grease lines** which includes, but not limited to, upper tailgate bearings and body tarp bearing. _____

All connected components (lines, injectors, grease points etc.) must be prefilled with grease prior to connection to the Pump. _____

Specific grease delivery requirements based on a 90 Minute system pressurization cycle. All existing injectors shall be reconnected back to their original connected component. Grease delivery required per system pressurization cycle to the below components: _____

- Steer axle King Pins: 0.20cc per cycle
- Rear Spreader body tailgate locks: 0.10cc per cycle
- Suspension shackle and anchor pins: 0.20 cc per cycle
- Lift cylinder for Spreader body: 0.10cc per cycle
- Spreader body conveyor bearings: 0.40 cc per cycle
- Spreader Body Dump pins: 0.40 cc per cycle

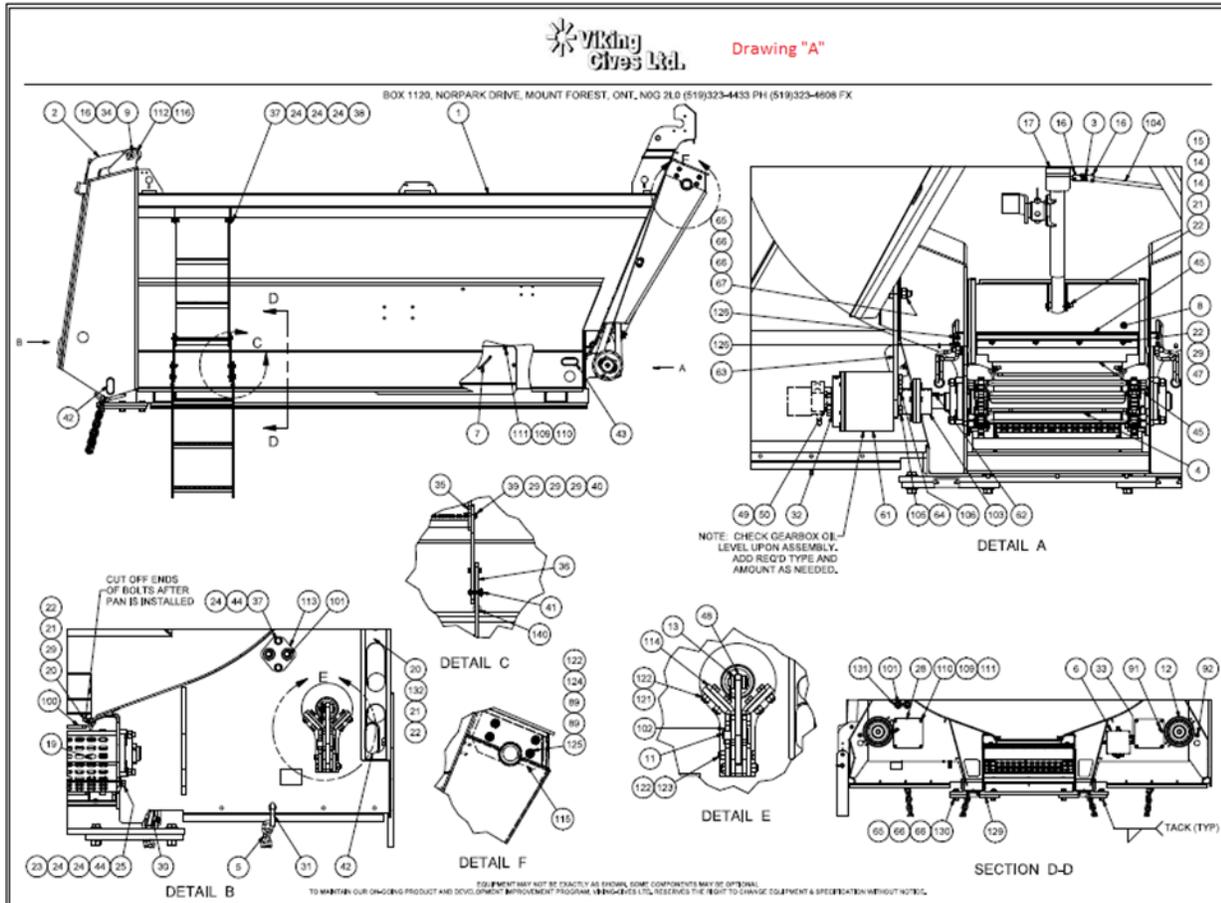
8.22 New rear hitch plate and re-mount the pintle hook. _____

8.23 Inspect box liners and report _____

8.24 Supply & Install items on parts list below. Bidder shall state all Part warranties and parts as per below. _____

Item Number	Item Description	Quantity	Part #	Part Warranty
DWG F	Front mounting pump install plate	1	01900436	State

DWG D # 3 & 4	Front push plate tail plate kit	1	00300863	State
DWG C # 2	Front hoist mount saddle	1	01304062	State
DWG C # 3	Box guide	2	01918001	State
DWG C # 17	Dump hinge with body prop assembly	1	01324217	State
DWG A # 4	Main conveyor chain	1	0600053	State
DWG B #55	4 bolt flange bearing	4	0610042	State
DWG B #56	8 tooth sprocket	4	0600048	State
DWG B #60	2 x 31.25 idle shaft	1	01324160	State
DWG B #54	2 x 34.625 drive shaft	1	01324161	State
DWG B #68	1.5 x 30 tensioning shaft	1	01324159	State
DWG B #107	Idler roller	2	01324191	State
DWG B #86	Tension spring	2	0580035	State
DWG A #10	Main drive rebuild kit	1	01323225	State
DWG E	Electrical main harness replacement	1	0650249	State
Hydraulic hose	2-Wire Braided Construction. Exceeds EN857 Type 2SC requirements. Exceeds SAE 100R16 Type S requirements. Dura-Tuff abrasion resistant cover w/ 1/2 SAE minimum bend radius.	All new (no exceptions)		State

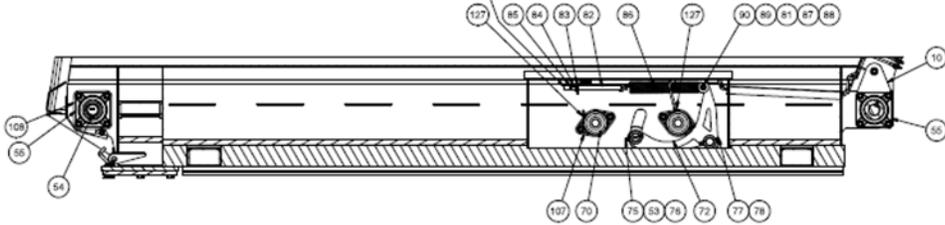




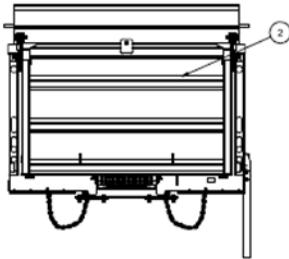
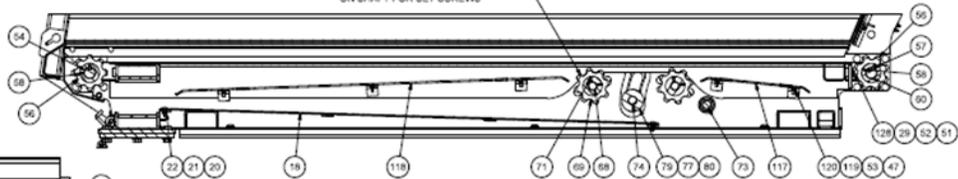
Drawing "B"

BOX 1120, NORPARK DRIVE, MOUNT FOREST, ONT, N0G 2L0 (519)323-4433 PH (519)323-6608 FX

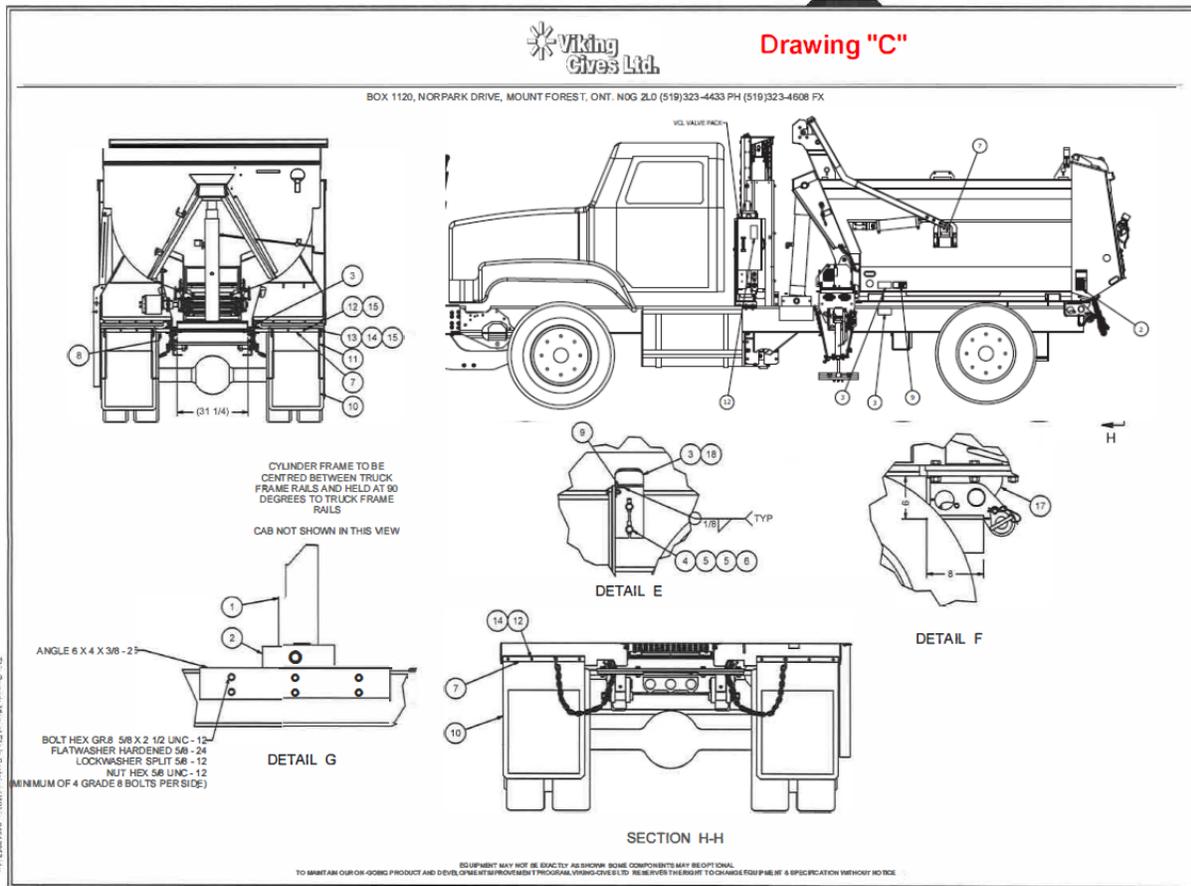
NOTE: TIGHTEN NUT ON EYEBOLT UNTIL SPRING EXTENDS 8 3/16" FROM ITS INITIAL POSITION (2X)

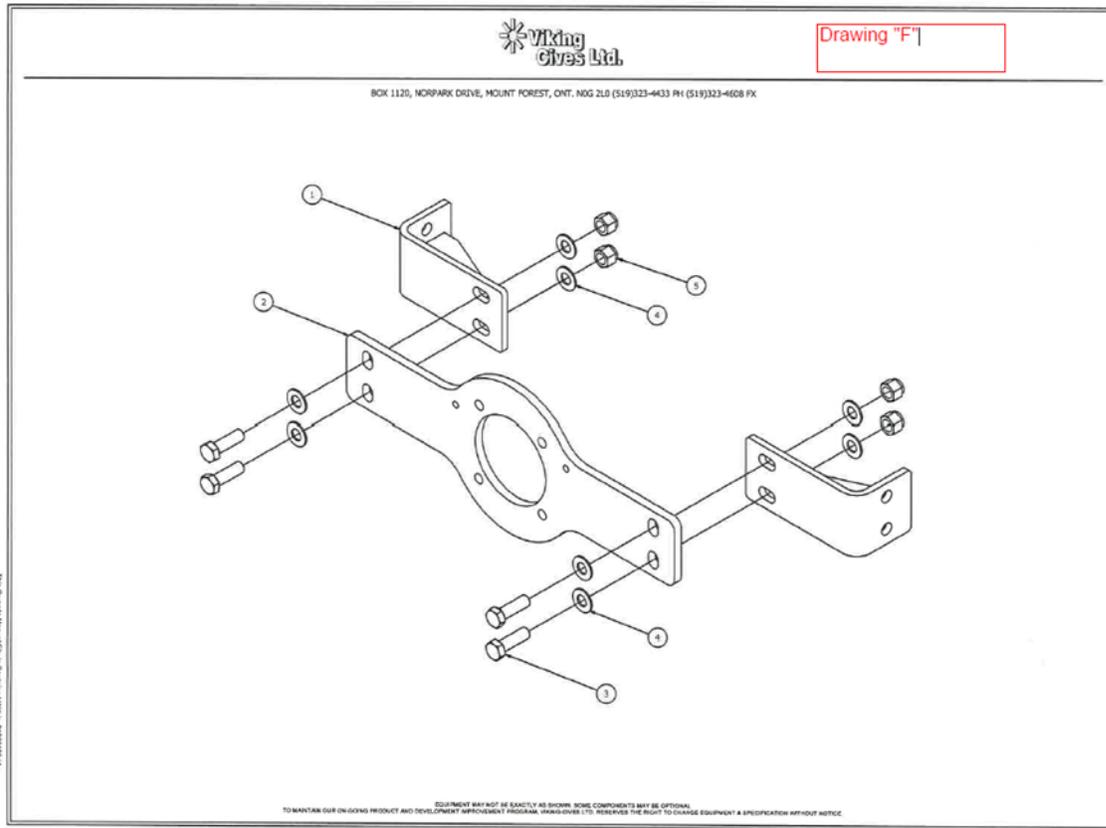


NOTE: CENTRE SPROCKETS WITH CHAIN IN CONVEYOR. DRILL POINTS ON SHAFT FOR SET SCREWS



EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL. TO MAINTAIN OUR ONGOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING LINES LTD. RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.





9.0 **INSTALLATION**

- 9.1 The equipment installation shall meet all Canadian Safety Standards applicable to this type of equipment. _____
- 9.2 Any holes required in the chassis frame web must be drilled and reamed to fit bolts. _____
- 9.3 Drilling on chassis frame flanges is not permitted. _____
- 9.4 Welding on the chassis frame is not permitted with the exception of installation of dump body pivot support. _____
- 9.5 Tire clearance – approx. 4 in. plus full suspension deflection. _____

10.0 **FINISH**

- 10.1 All steel components that require re-painting shall be sandblasted, properly cleaned, primed and finished as follows: (Note: stainless steel and aluminum components shall remain unfinished). _____
- 10.2 Front and rear hitch plates with accessories, hydraulic oil reservoir and valve enclosure, and underside of floor (steel) shall be primed with Epoxy or Polyurethane primer (Inside of steel floor excluded). _____

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.

10.3 Paint: Top coat finish _____

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.

10.4 All unprotected components in the valve enclosure, including the interior of the
enclosure shall be primed with a suitable primer. _____

11.0 **WEIGHT DISTRIBUTION**

11.1 The completed units and all associated components shall not exceed the City of
Winnipeg’s limit for gross vehicle weight, axle and tire loads with the unit
(including the chassis) fully fuelled and operational, full liquid tank, one (1)
operator, and including a full payload (struck capacity) of dry sand. _____

12.0 **WARRANTY**

12.1 One year warranty, unlimited hours. _____

12.2 All warranty information be detailed and include all exclusions. The Contractor
shall provide all published warranty information upon delivery of the equipment.
Contractor shall **State**: all warranty information _____

13.0 **DELIVERY SCHEDULE**

13.1 The City of Winnipeg Fleet Management Agency requires two (2) re-mounts
every 30 calendar days to be completed as per **Appendix A** commencing
September 2020. _____

The Contractor shall remount the sander dump bodies specified in 8.1 to new
truck chassis. The Contractor shall provide a schedule for the remounts at a
preproduction meeting. _____

- 13.2 **Delivery Point:** The complete units shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The Contractor shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order. _____

- 13.3 **Delivery Time:** Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days. _____

- 13.4 **Delivery Contact:** The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____

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

FORM N: DETAILED SPECIFICATIONS 20011

REMOUNTING VIKING CIVES PL1314LW-AL 13' X 8' U-BODY COMBINATION DUMP/SPREADER BODY ALUMINUM, 12' REVERSIBLE SNOW PLOW AND ALL ASSOCIATED EQUIPMENT ON A 58,000LBS. GVWR CONVENTIONAL CAB & CHASSIS

1.0 DESCRIPTION OF EQUIPMENT/APPLICATION

- 1.1 These specifications describe the remounting/transfer of Viking Cives PL1314LW-AL 13' x 8' Aluminum Dump/Spreader Bodies, 12' reversible snow plow mounting hardware and **all associated equipment** to successfully remount the equipment on to new 2021 Western Star 4700 SB conventional chassis provided by the City of Winnipeg and features as specified herein. The successful bidder is responsible for ensuring all installation requirements meet the chassis manufacture body mounting standards and all applicable Canadian Safety Standards. It will be the responsibility of the installer to ensure the final completion of the trucks meets all necessary operational performance requirements, chassis GVWR restrictions, weight distributions and center of gravity requirements. It is the intent of the City of Winnipeg to re-mount existing Dump/Spreader Bodies, 12' reversible snow plows and all associated equipment and assess a new 7-9 year life cycle on the sander spreader bodies, plows and new truck chassis.
- 1.2 The re-mounting of all 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 and attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.3 Bidders are encouraged to view the Viking Cives PL1314LW-AL 13' X 8' Dump/Spreader Bodies prior to submitting a bid. To make an appointment to view the units, contact the Contract Administrator in D4.

2.0 ADDITIONAL WORK

- 2.1 The items outlined in **8.0 Scope of Work** are for award purposes only and shall not be construed to describe the complete work required. Additional work may be required to bring the sander spreader bodies to "as new" condition and shall be performed by the Contractor on a cost plus basis.
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STATE (NSM) # _____

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6.3 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)

7.0 QUALIFICATIONS OF CONTRACTOR

7.1 The Contractor of the installing **U-Body Combination Dump/Spreader Bodies and associated attachments** and all associated equipment shall have experience installing **U-Body Combination Dump/Spreader Bodies and associated attachments**.

7.2 The Contractor 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.

7.3 The Contractor shall have experience servicing, repairing and maintaining installing **U-Body Combination Dump/Spreader Bodies and associated attachments** of the type being offered.

8.0 **SCOPE OF WORK: REMOUNTING VIKING CIVES PL1314LW-AL 13' X 8' U-BODY COMBINATION DUMP/SPREADER BODY ALUMINUM, 12' REVERSIBLE SNOW PLOW AND ALL ASSOCIATED EQUIPMENT ON A 58,000# GVWR CONVENTIONAL CAB & CHASSIS**

8.1 The work consisting of remounting Viking-Cives combination dump/spreader bodies shall be performed on the following vehicles: _____

Chassis Unit #	Body Unit #	Department	Model (Body)	Serial #
2900591	5420591	PW-SM-NORTH AREA	PL1314LW-AL	00243
2900592	5420592	PW-SM-NORTH AREA	PL1314LW-AL	00247
2900593	5420593	PW-SM-NORTH AREA	PL1314LW-AL	00248
2900594	5420594	PW-SM-EAST AREA	PL1314LW-AL	00245
2900595	5420595	PW-SM-EAST AREA	PL1314LW-AL	00250
2900596	5420596	PW-SM-SOUTH AREA	PL1314LW-AL	00244

8.2 The remounted sander spreader body shall be remounted to the following vehicle: _____

2021 Western Star 4700 SB conventional chassis

- 370HP Cummins inline 6 cylinder diesel engine
- 200 in. wheelbase
- Cab to axle 133 in.
- After frame 63 in.
- Front plow/end and dump body
- 58,000 lbs. GVWR

8.3 The Contractor shall complete an equipment assessment and report to the Contract Administrator on unit #, Viking E# and serial # basis. _____

8.4 Upgrade control system to latest Parker Control System IQuan- MD4 to include new controller wiring, new harness and fittings, no substitutes. _____

The system must be fully compatible with AVL reporting software also to be able to connect to an InterFleet MDU which has a 9 pin (male) serial port for exporting material data such as kg/km, spinner rate, material selected, rod and air temp and accumulative total for both dry and liquid materials. All cables needed to connect to the InterFleet MDU must be supplied. The Contractor shall be responsible for ensuring the control system is supplied with the manufacturer's latest software version. Mounting location – Controller shall be ergonomically located for operator. Exact location to be determined at time of installation. Remote pause required on top of joystick. Sand gate read back device – automatic feedback to controller. The read back device shall be an integral part of the cylinder. Capable of operating in closed loop Control system enclosure – all controls and switches must be clearly identified and back-lit. _____

8.5 Chemical Wash of the entire exterior body. _____

8.6 New painted black wood planks. _____

8.7 New poly half-moon brackets and fenders. _____

8.8 New hydraulics hoses and all fittings. _____

8.9 Re-mount, sand blast and paint, front hitch plates _____

8.10 Flush hydraulic system. Replace all hydraulic oil and filters _____

8.11 Replace pressure filter element. _____

8.12 Change oil in the gear box _____

8.13 Front pump new drive shaft only _____

8.14 Chains replaced with new _____

8.15 New Sprockets, shafts and idler shafts. _____

8.16 Remount snow plow lights to fender mounted mirrors to new cab and chassis. _____

8.17 New electrical wiring harness _____

8.18 New junction box on a as need basis only. _____

8.19 Tail gate air trip requires reconnection to a dash switch on the new chassis. _____

8.20 Inspect liquid pumping systems. Replace pumps and sensors with New Parker _____

parts.

8.21 Re-mounting CPL Greasing System.

The following components of the greasing system shall be re-installed on the new chassis and remounted body. **Note:** components specified below are to be inspected prior to installation and any issues shall be reported as per 2.0 Additional Work.

- Lubrication pump
- All injectors (reconnected back to their original component/grease point)
- Refill adapter fitting Parker # H2-63 and shall be secured with a bulkhead and angle bracket free from sharp edges.

The following components shall be replaced with new parts:

- **New mounting hardware** for pump to chassis frame and to pump bracket.
- **Replace air connection** – compressed air connection for the automatic lubrication pump to be connected to a secondary air tank supply from the chassis air systems. Red ¼ in. DOT approved airline shall be applied and fitted with an air system protection check valve into the system secondary tank.
- **Main grease lines** replaced with extreme low temperature type (e.g. Eaton Aeroquip SAE 100R16 Matchmate Global Ice) steel braided rubber hose with working pressure of 6000 psi. or equivalent operating performance.
- **Secondary grease lines** replace with 3/16 in. nylon heavy wall grease colour coded line from the injector to the connected component.
- **Remote grease lines** which includes, but not limited to, upper tailgate bearings and body tarp bearing.

All connected components (lines, injectors, grease points etc.) must be prefilled with grease prior to connection to the Pump

Specific grease delivery requirements based on a 90 Minute system pressurization cycle. All existing injectors shall be reconnected back to their original connected component. Grease delivery required per system pressurization cycle to the below components:

- Steer axle King Pins: 0.20cc per cycle
- Rear Spreader body tailgate locks: 0.10cc per cycle
- Suspension shackle and anchor pins: 0.20 cc per cycle
- Lift cylinder for Spreader body: 0.10cc per cycle
- Spreader body conveyor bearings: 0.40 cc per cycle
- Spreader Body Dump pins: 0.40 cc per cycle

8.22 New rear hitch plate and re-mount the pintle hook.

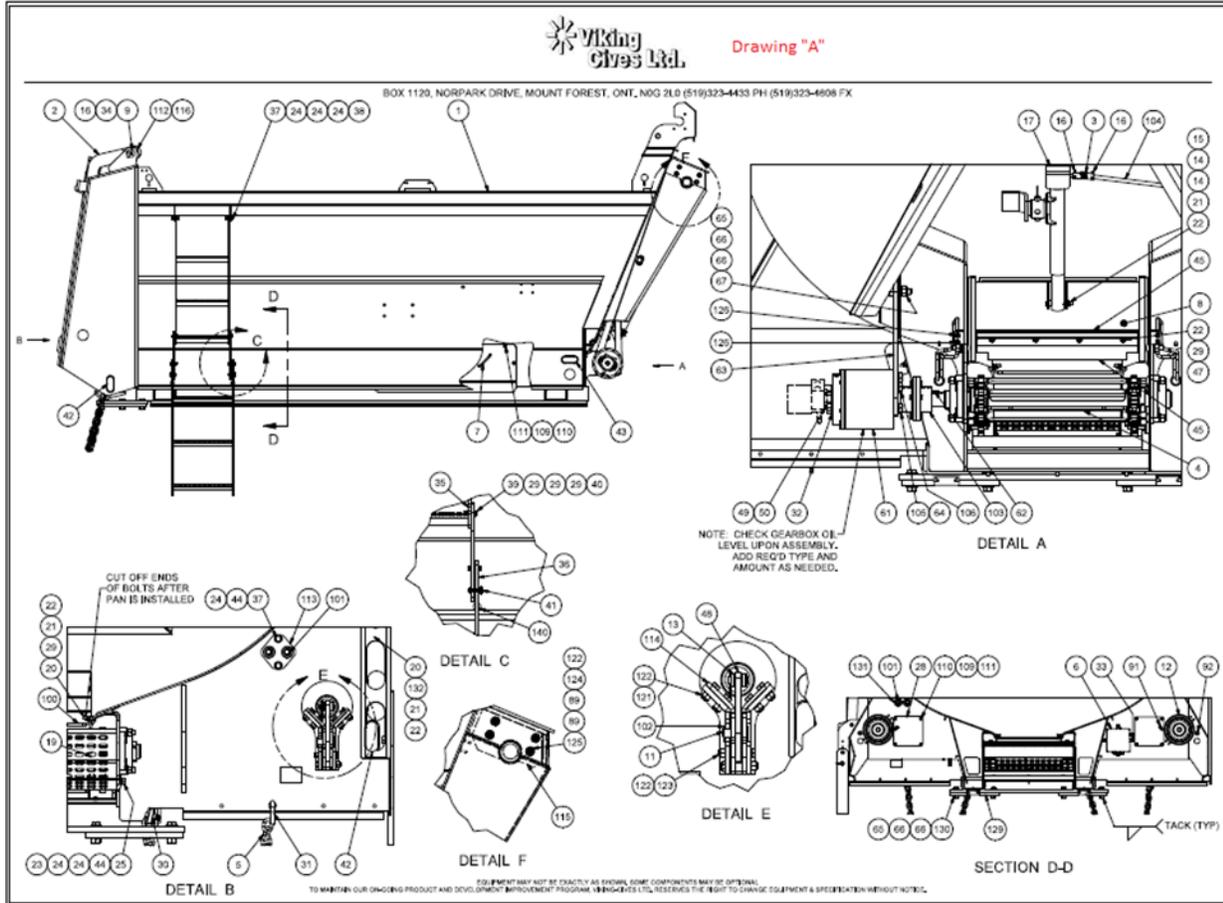
8.23 Inspect box liners and report back to Contract Administrator.

8.24 Supply & Install items on parts list below.

Bidder shall state all Part warranties and parts as per below.

Item Number	Item Description	Quantity	Part #	Part Warranty
DWG F	Front mounting pump install plate	1	01900436	State

DWG D # 3 & 4	Front push plate tail plate kit	1	00300863	State
DWG C # 2	Front hoist mount saddle	1	01304062	State
DWG C # 3	Box guide	2	01918001	State
DWG C # 17	Dump hinge with body prop assembly	1	01324217	State
DWG A # 4	Main conveyor chain	1	0600050	State
DWG B #55	4 bolt flange bearing	4	0610042	State
DWG B #56	8 tooth sprocket	4	0600048	State
DWG B #60	2 x 31.25 idle shaft	1	01324160	State
DWG B #54	2 x 34.625 drive shaft	1	01324161	State
DWG B #68	1.5 x 30 tensioning shaft	1	01324159	State
DWG B #107	Idler roller	2	01324191	State
DWG B #86	Tension spring	2	0580035	State
DWG A #10	Main drive rebuild kit	1	01323225	State
DWG E	Electrical main harness replacement	1	0650249	State
Hydraulic hose	2-Wire Braided Construction. Exceeds EN857 Type 2SC requirements. Exceeds SAE 100R16 Type S requirements. Dura-Tuff abrasion resistant cover w/ 1/2 SAE minimum bend radius.	All new (no exceptions)		State

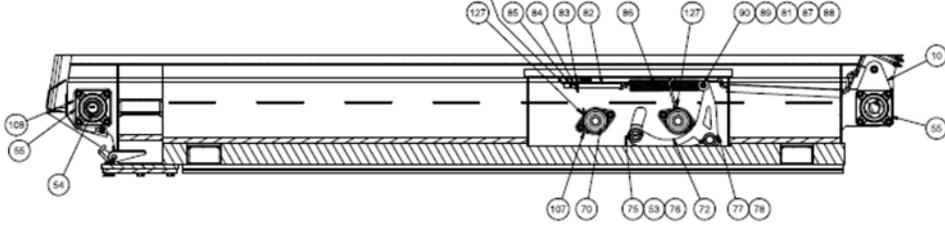




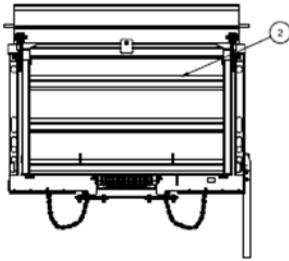
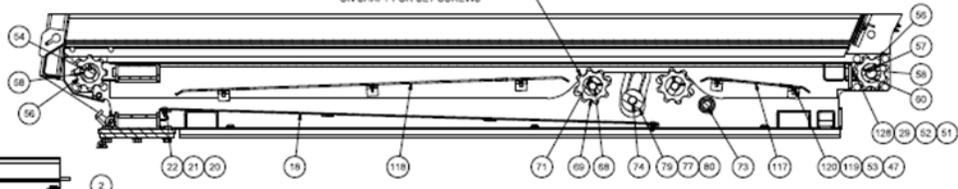
Drawing "B"

BOX 1120, NORPARK DRIVE, MOUNT FOREST, ONT, N0G 2L0 (519)323-4433 PH (519)323-6608 FX

NOTE: TIGHTEN NUT ON EYEBOLT UNIT. SPRING EXTENDS 8 3/4" FROM ITS INITIAL POSITION (2X)

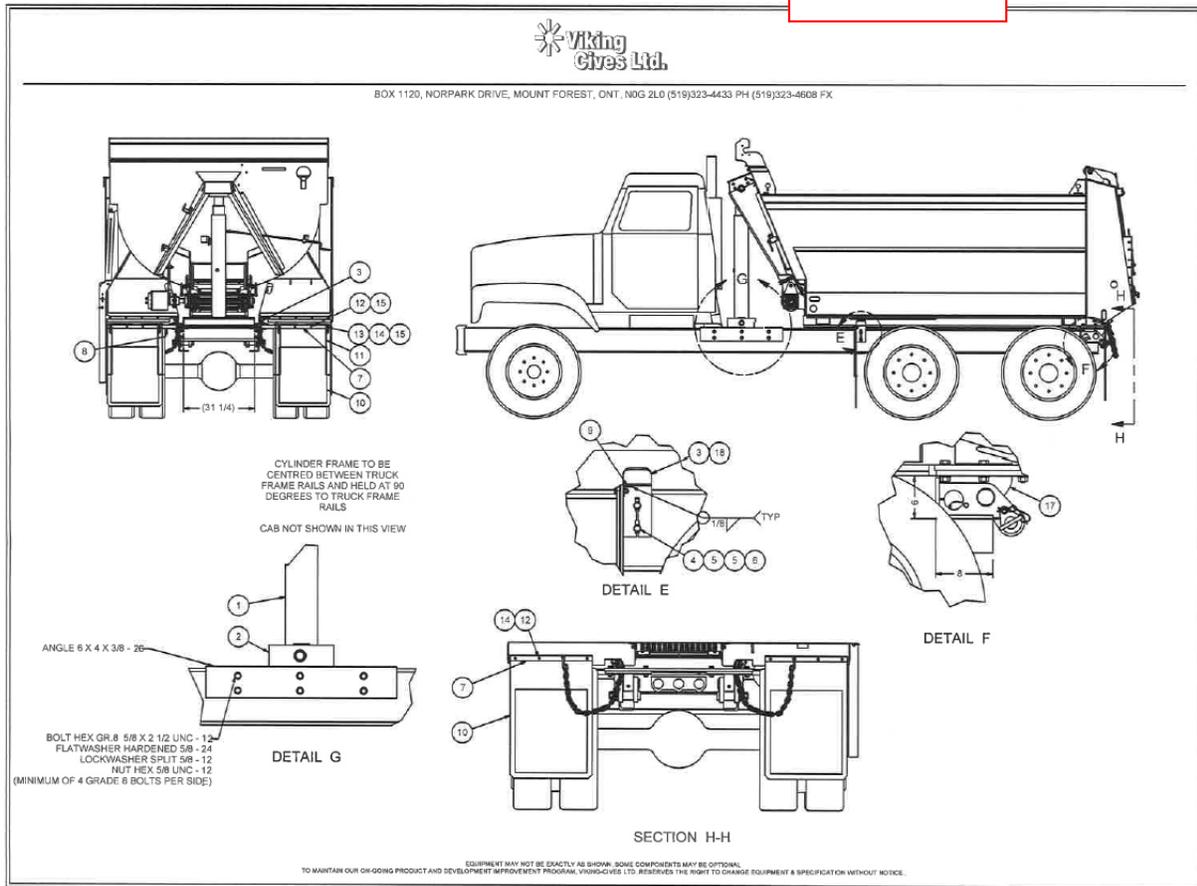


NOTE: CENTRE SPROCKETS WITH CHAIN IN CONVEYOR. DRILL POINTS ON SHAFT FOR SET SCREWS

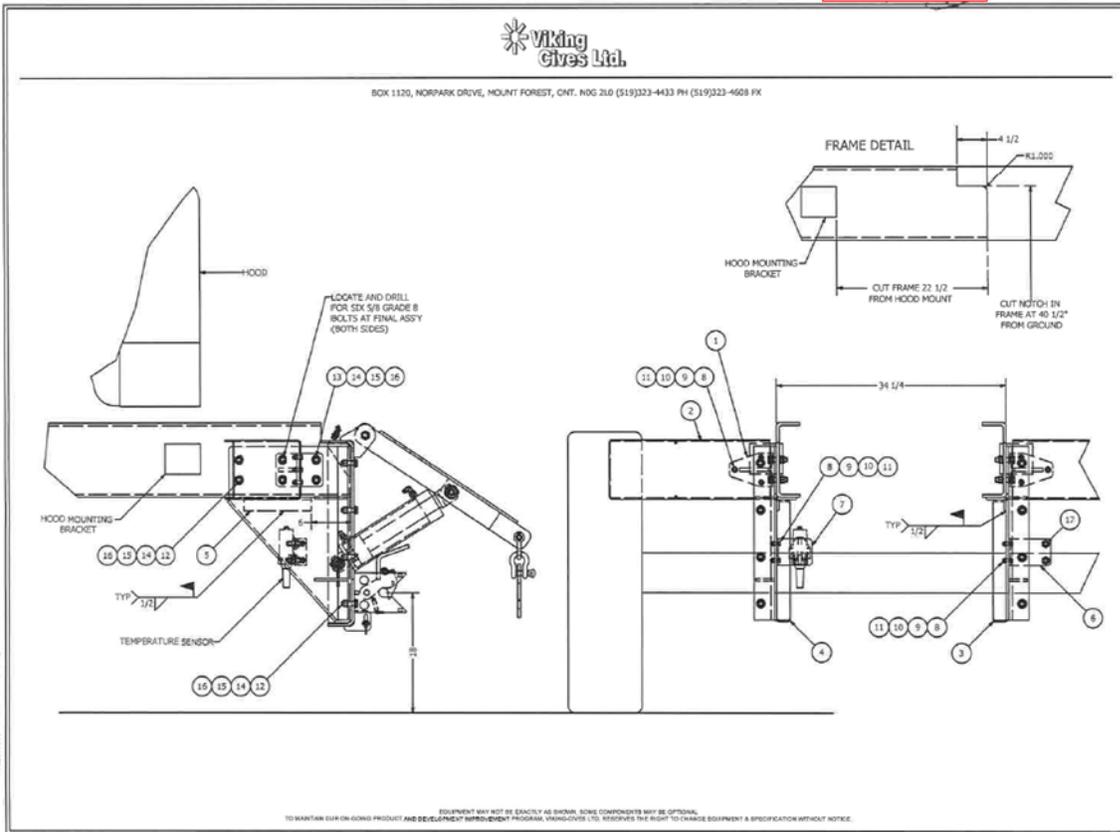


EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL. TO MAINTAIN OUR ONGOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING CERES LTD. RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.

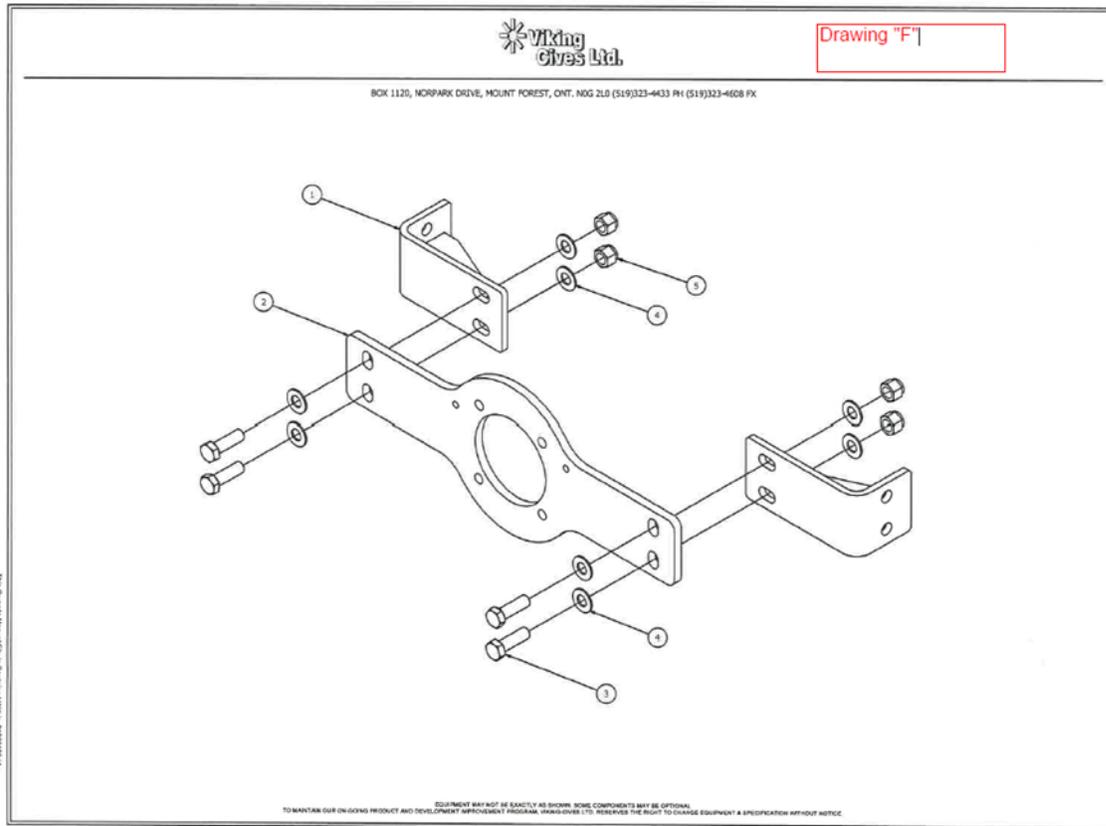
Drawing C



Drawing "D"



8.50 in



9.0 **INSTALLATION**

- 9.1 The equipment installation shall meet all Canadian Safety Standards applicable to this type of equipment. _____
- 9.2 Any holes required in the chassis frame web must be drilled and reamed to fit bolts. _____
- 9.3 Drilling on chassis frame flanges is not permitted. _____
- 9.4 Welding on the chassis frame is not permitted with the exception of installation of dump body pivot support. _____
- 9.5 Tire clearance – approx. 4 in. plus full suspension deflection. _____

10.0 **FINISH**

- 10.1 All steel components that require re-painting shall be sandblasted, properly cleaned, primed and finished as follows: (Note: stainless steel and aluminum components shall remain unfinished). _____
- 10.2 Front and rear hitch plates with accessories, hydraulic oil reservoir and valve enclosure, and underside of floor (steel) shall be primed with Epoxy or Polyurethane primer (Inside of steel floor excluded). _____

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.

10.3 Paint: Top coat finish _____

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.

10.4 All unprotected components in the valve enclosure, including the interior of the enclosure shall be primed with a suitable primer. _____

11.0 **WEIGHT DISTRIBUTION**

11.1 The completed units and all associated components shall not exceed the City of Winnipeg's limit for gross vehicle weight, axle and tire loads with the unit (including the chassis) fully fuelled and operational, full liquid tank, one (1) operator, and including a full payload (struck capacity) of dry sand. _____

12.0 **WARRANTY**

12.1 One year warranty, unlimited hours. _____

12.2 All warranty information be detailed and include all exclusions. The Contractor shall provide all published warranty information upon delivery of the equipment. Contractor shall **State**: all warranty information _____

13.0 **DELIVERY SCHEDULE**

13.1 The City of Winnipeg Fleet Management Agency requires two (2) re-mounts every 30 calendar days to be completed as per **Appendix A** commencing September 2020. _____

The Contractor shall remount the sander dump bodies specified in 8.1 to new truck chassis. The Contractor shall provide a schedule for the remounts at a preproduction meeting.

- 13.2 **Delivery Point:** The complete units shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The Contractor shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order. _____

- 13.3 **Delivery Time:** Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days. _____

- 13.4 **Delivery Contact:** The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____

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

FORM N: DETAILED SPECIFICATIONS 20012

REMOUNTING BEAU-ROC 12' X 8' DUMP BODY STEEL, 12' REVERSIBLE SNOW PLOW AND ALL ASSOCIATED EQUIPMENT ON A 39,000 LBS. GVWR CONVENTIONAL CAB & CHASSIS

1.0 DESCRIPTION OF EQUIPMENT/APPLICATION

- 1.1 These specifications describe the remounting/transfer of Beau-Roc 12' x 8' Dump Bodies, 12' reversible snow plow mounting hardware and **all associated equipment** to successfully remount the equipment on to new 2021 Western Star 4700 SB conventional chassis provided by the City of Winnipeg and features as specified herein. The successful bidder is responsible for ensuring all installation requirements meet the chassis manufacture body mounting standards and all applicable Canadian Safety Standards. It will be the responsibility of the installer to ensure the final completion of the trucks meets all necessary operational performance requirements, chassis GVWR restrictions, weight distributions and center of gravity requirements. It is the intent of the City of Winnipeg to re-mount existing Dump Bodies, 12' reversible snow plows and all associated equipment and assess a new 7-9 year life cycle on the sander spreader bodies, plows and new truck chassis.
- 1.2 The re-mounting of all 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 and attachments, and all parts thereof, shall conform in strength and quality of material and workmanship, to the best standards and engineering practice of the industry.
- 1.3 Bidders are encouraged to view the Beau-Roc 12' X 8' Dump Bodies prior to submitting a bid. To make an appointment to view the units, contact the Contract Administrator in D4.

2.0 ADDITIONAL WORK

- 2.1 The items outlined in **8.0 Scope of Work** are for award purposes only and shall not be construed to describe the complete work required. Additional work may be required to bring the dump bodies to "as new" condition and shall be performed by the Contractor on a cost plus basis.
- 2.2 Prior to commencement of additional work, the Contractor shall submit a written quotation for the work to be performed, for approval by the Contract Administrator. The written proposal shall consist of a detailed description of the work to be performed, materials required, material costs, hourly shop charge and the total number of shop hours required. The hourly shop charge shall include all applicable local taxes, shop supply fees, etc. Upon re-mounting installation should the contractor identify equipment components that would not meet a 7-9 year life cycle, the Contractor shall contact the Contract Administrator with a parts and labour quote prior to the any work being completed. Additional work, not described in these specifications, but which is required to complete the transfers to an "as new" condition, shall be performed on a cost plus basis.

3.0 OTHER SPECIFICATIONS AND STANDARDS

- 3.1 All applicable SAE standards form an integral part of these specifications and shall have precedence in any conflict concerning minimum acceptable standards.
- 3.2 The installing U-Body Combination **Dump Bodies and associated attachments** shall comply with the applicable regulations:

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

PART B - 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>.

- 3.3 In Canada, Modification to vehicles can only be done at facilities that are recognized by Transport Canada. All of these facilities must have a National Safety Mark from Transport Canada. Transport Canada National Safety Mark is a label that indicates that the modifications are compliant with all current Canadian Motor Vehicle Safety Standards (CMVSS).

STATE (NSM) # _____

- 3.4 The vehicle shall be complete with a current Manitoba Safety Sticker affixed to the driver's side window (if applicable).
- 3.5 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.

4.0 SERVICE FACILITY

- 4.1 For the purpose of warranty repairs, the Bidder shall have an authorized service facility located within 10 km of the boundaries of the City of Winnipeg. The facility, or a portion thereof, shall be dedicated to the service and maintenance of the type equipment being offered. Further to 4.1, Bidders shall provide a description of the service facility including, but not limited to, number of qualified service staff, years of service experience, and general service capabilities within three (3) Business Days upon request of the Contract Administrator.

5.0 INSTRUCTIONS FOR COMPLETION OF SPECIFICATIONS

- 5.1 Each bid will be evaluated based on adherence to all terms, conditions and requirements outlined in the Tender package.
- 5.2 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.

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

6.0 PERFORMANCE RELIABILITY

6.1 The responsibility for installing **Dump Bodies and associated attachments**, its performance and reliability shall rest upon the Contractor.

6.2 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.

6.3 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)

7.0 QUALIFICATIONS OF CONTRACTOR

7.1 The Contractor of the installing **Dump Bodies and associated attachments** and all associated equipment shall have experience installing **Dump Bodies and associated attachments**.

7.2 The Contractor 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.

7.3 The Contractor shall have experience servicing, repairing and maintaining installing **Dump Bodies and associated attachments** of the type being offered.

8.0 REMOUNTING BEAU-ROC 12' X 8' DUMP BODY STEEL, 12' REVERSIBLE SNOW PLOW AND ALL ASSOCIATED EQUIPMENT ON A 39,000# GVWR CONVENTIONAL CAB & CHASSIS

8.1 The work consisting of remounting Beau-Roc dump bodies shall be performed on the following vehicles: _____

Chassis Unit #	Body Unit #	Department	Model (Body)	Serial #
2719751	5559751	PW-SM-NORTH AREA	DL	DL292471
2719752	5559752	PW-SM-NORTH AREA	DL	DL292470
2719753	5559753	PW-SM-EAST AREA	DL	DL292469
2719754	5559754	PW-SM-EAST AREA	DL	DL292468

8.2 The remounted dump body shall be remounted to the following vehicle: _____

2021 Western Star 4700 SB conventional chassis

- 330HP Cummins inline 6 cylinder diesel engine
- 169 in. wheelbase
- Cab to axle 103 in.
- After frame 63 in.
- Front plow/end and dump body
- 39,000 lbs. GVWR

8.3 The Contractor shall complete an equipment assessment and report to the Contract Administrator on unit # and serial # basis. _____

8.4 Remount all interior Parker cab controls, controller wiring, harness or fittings. Replace with new parts on a as need basis only. _____

8.5 Remount hoist system (front mount telescopic cylinder). _____

8.6 Wash the entire exterior body. _____

8.7 New poly half-moon brackets and fenders. _____

8.8 New hydraulics hoses and all fittings. _____

8.9 Re-mount, sand blast and paint, front hitch plates _____

8.10 Replace rear tipping hinge. _____

8.11 Replace hydraulic hoses. _____

8.12 Flush hydraulic system. Replace all hydraulic oil and filters. _____

8.13 Replace pressure filter element. _____

8.14 Change oil in the gear box _____

8.15 Remount snow plow lights and brackets from old cab to new cab and chassis. _____

8.16 Front pump new drive shaft only _____

8.17 New electrical wiring harness _____

8.18 Remount snow plow lights to fender mounted mirrors to new cab and chassis. _____

8.19 Tail gate air trip requires reconnection to a dash switch on the new chassis. _____

8.20 New rear hitch plate and re-mount the pintle hook. _____

8.21 Inspect box liners and report. _____

8.22 Re-mounting CPL Greasing System. _____

The following components of the greasing system shall be re-installed on the new chassis and remounted body. **Note:** components specified below are to be inspected prior to installation and any issues shall be reported as per 2.0 Additional Work. _____

- Lubrication pump _____
- All injectors (reconnected back to their original component/grease point) _____
- Refill adapter fitting Parker # H2-63 and shall be secured with a bulkhead and angle bracket free from sharp edges. _____

The following components shall be replaced with new parts:

- **New mounting hardware** for pump to chassis frame and to pump bracket. _____
- **Replace air connection** – compressed air connection for the automatic lubrication pump to be connected to a secondary air tank supply from the chassis air systems. Red ¼ in. DOT approved airline shall be applied and fitted with an air system protection check valve into the system secondary tank. _____
- **Main grease lines** replaced with extreme low temperature type (e.g. Eaton Aeroquip SAE 100R16 Matchmate Global Ice) steel braided rubber hose with working pressure of 6000 psi. or equivalent operating performance. _____
- **Secondary grease lines** replace with 3/16 in. nylon heavy wall grease colour coded line from the injector to the connected component. _____
- **Remote grease lines** which includes, but not limited to, upper tailgate bearings and body tarp bearing. _____

All connected components (lines, injectors, grease points etc.) must be prefilled with grease prior to connection to the Pump _____

Specific grease delivery requirements based on a 90 Minute system pressurization cycle. All existing injectors shall be reconnected back to their original connected component. Grease delivery required per system pressurization cycle to the below components: _____

- Steer axle King Pins: 0.20cc per cycle
- Rear Spreader body tailgate locks: 0.10cc per cycle
- Suspension shackle and anchor pins: 0.20 cc per cycle
- Lift cylinder for Spreader body: 0.10cc per cycle
- Spreader body conveyor bearings: 0.40 cc per cycle
- Spreader Body Dump pins: 0.40 cc per cycle

9.0 **INSTALLATION**

- 9.1 The equipment installation shall meet all Canadian Safety Standards applicable to this type of equipment. _____
- 9.2 Any holes required in the chassis frame web must be drilled and reamed to fit bolts. _____
- 9.3 Drilling on chassis frame flanges is not permitted. _____
- 9.4 Welding on the chassis frame is not permitted with the exception of installation of dump body pivot support. _____
- 9.5 Tire clearance – approx. 4 in. plus full suspension deflection. _____

10.0 **FINISH**

- 10.1 All steel components that require re-painting shall be sandblasted, properly cleaned, primed and finished as follows: (Note: stainless steel and aluminum components shall remain unfinished). _____
- 10.2 Front and rear hitch plates with accessories, hydraulic oil reservoir and valve enclosure, and underside of floor (steel) shall be primed _____

with Epoxy or Polyurethane primer (dump body excluded).

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.

10.3 Paint: Top coat finish _____

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.

10.4 All unprotected components in the valve enclosure, including the interior of the enclosure shall be primed with a suitable primer. _____

10.5 **State** optional price to repaint the exterior of the dump body. \$ _____

11.0 **WEIGHT DISTRIBUTION**

11.1 The completed units and all associated components shall not exceed the City of Winnipeg's limit for gross vehicle weight, axle and tire loads with the unit (including the chassis) fully fuelled and operational, full liquid tank, one (1) operator, and including a full payload (struck capacity) of dry sand. _____

12.0 **WARRANTY**

12.1 One year warranty, unlimited hours. _____

12.2 All warranty information be detailed and include all exclusions. The Contractor shall provide all published warranty information upon delivery of the equipment. Contractor shall **State**: all warranty information _____

13.0 **DELIVERY SCHEDULE**

13.1 The City of Winnipeg Fleet Management Agency requires two (2) re-mounts every 30 calendar days to be completed as per **Appendix A** commencing September 2020. _____

The Contractor shall remount the dump bodies specified in 8.1 to new truck chassis. The Contractor shall provide a schedule for the remounts at a preproduction meeting.

- 13.2 **Delivery Point:** The complete units shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.I.V.S. (if applicable) to the WFMA 185 Tecumseh Street, Winnipeg MB. The Contractor shall be notified by the Contractor Administrator the delivery address prior to issuance of the purchase order. _____

- 13.3 **Delivery Time:** Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days. _____

- 13.4 **Delivery Contact:** The Contractor shall contact the Contract Administrator prior to delivery of the equipment. _____

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