FORM N: DETAILED SPECIFICATIONS 25014

TRANSFER AND REFURBISHING OF COMBINATION DUMP/SAND SPREADER BODIES

1.0 DESCRIPTION OF EQUIPMENT/APPLICATION

1.1 These specifications describe the remounting, transfer and refurbishing of a Viking-Cives PL1314LW-AL 13' x 8' Aluminum Dump/Spreader Body, 12 ft. reversible snow plow, mounting hardware and **all associated equipment** onto new 2026 International HV607, 58,000 lbs. GVWR conventional cab & chassis trucks provided by the City of Winnipeg. 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 truck 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, hitch plates for 12 ft. reversible snow plows and all associated equipment. The intent of these specifications is to result in a new 7-9 year life cycle on the sander spreader body, plow 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 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. Any additional work that may be required to bring the sander spreader bodies to “as new” condition may be performed by the Contractor on a cost-plus basis.

2.2 Prior to commencement of any 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. during the transfer and refurbishing process, should the Contractor identify equipment or 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 completed transferred and refurbished **U-Body Combination Dump/Spreader Bodies and associated attachments** shall comply with the applicable regulations:

Standard - Specification/Regulation	Internet URL

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
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

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 (NSM) 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.

4.2 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 transfer and refurbishing **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 climatic conditions consistent with City of Winnipeg Environment. Note: The City of Winnipeg has four seasons with ambient temperatures ranging from approximately -40°C to 35°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 **U-Body Combination Dump/Spreader Bodies and associated attachments** of the type being offered.

7.4 Provide five (5) references where this equipment is used in a working environment where climatic conditions are similar to the City of Winnipeg.

_____
_____
_____
_____
_____

8.0 SCOPE OF WORK: REMOUNTING ALUMINUM VIKING-CIVES PL1314LW-AL 13' X 8' U-BODY COMBINATION DUMP/SPREADER BODY, 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 #
2904403	5424403	PW-SM-NORTH AREA	PL1314LWRD-AL	0328
2904404	5424404	PW-SM-NORTH AREA	PL1314LWRD-AL	0332
2904405	5424405	PW-SM-NORTH AREA	PL1314LWRD-AL	0333

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

2026 International HV607 Conventional Cab & Chassis

- 370 hp Cummins L9
- Inline 6-cylinder diesel engine
- 209 in. wheelbase
- Cab to axle 142 in.
- After frame 75 in.
- 20 in. Integral Front Frame Extension, 34 in. width for plow hitch plate
- 58,000 lbs. GVWR, 18,000 lbs. Front GAWR, 40,000 lbs. Rear GAWR
- Rear Suspension: 46,000 lbs., air ride

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 IQ300 to include new controller wiring, new harness and fittings, no substitutes. _____

The system must be fully compatible with AVL reporting software and also 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 Spreader 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 an as required basis only. _____

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

8.20 Test and inspect liquid pumping systems. Replace pumps and sensors with New Parker parts on an "as required" basis. New pumps shall be reported as per 2.0 Additional Work. _____

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, 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 bearings. _____
- 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. _____

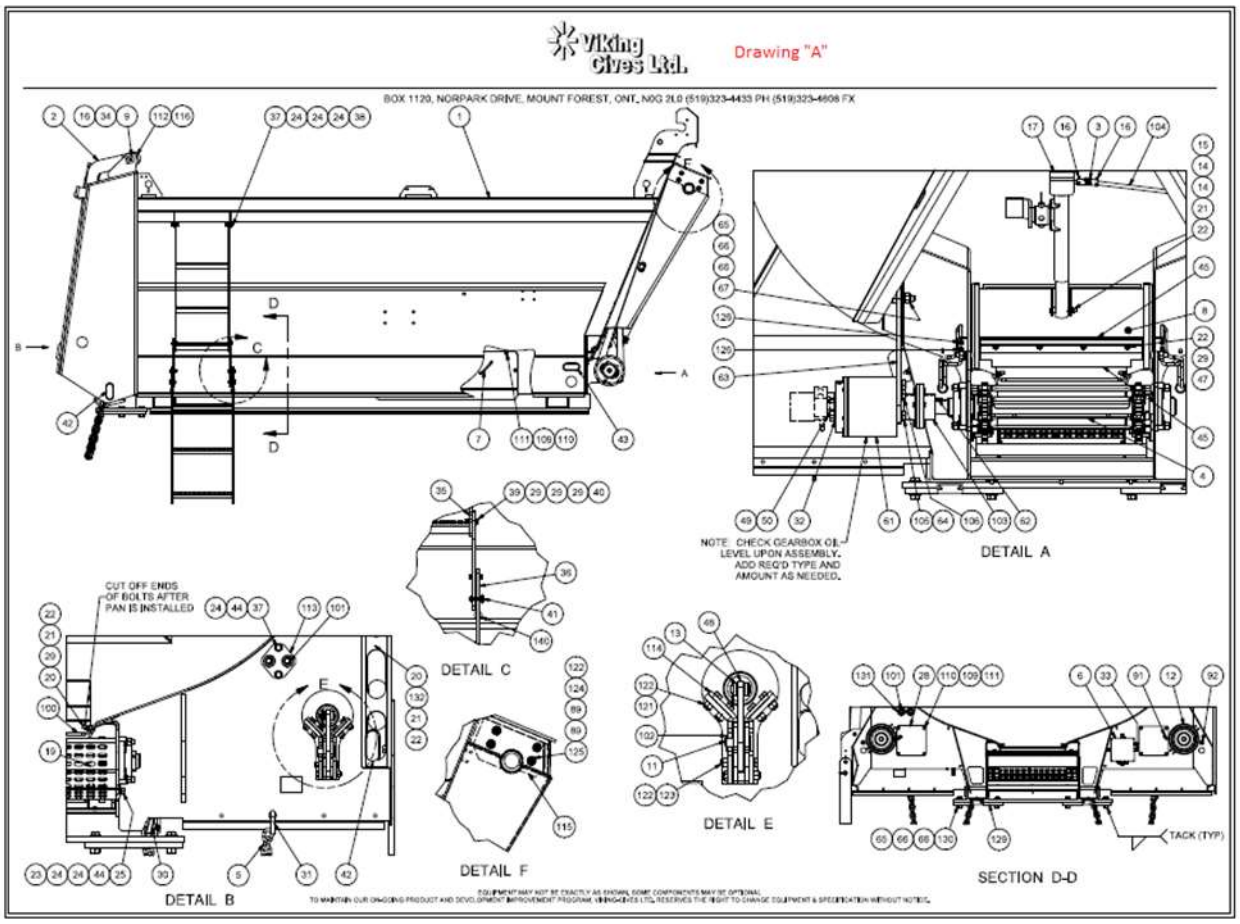
8.22 New rear hitch plate, tow hooks and trailer plug wiring, re-mount the pintle hook. _____

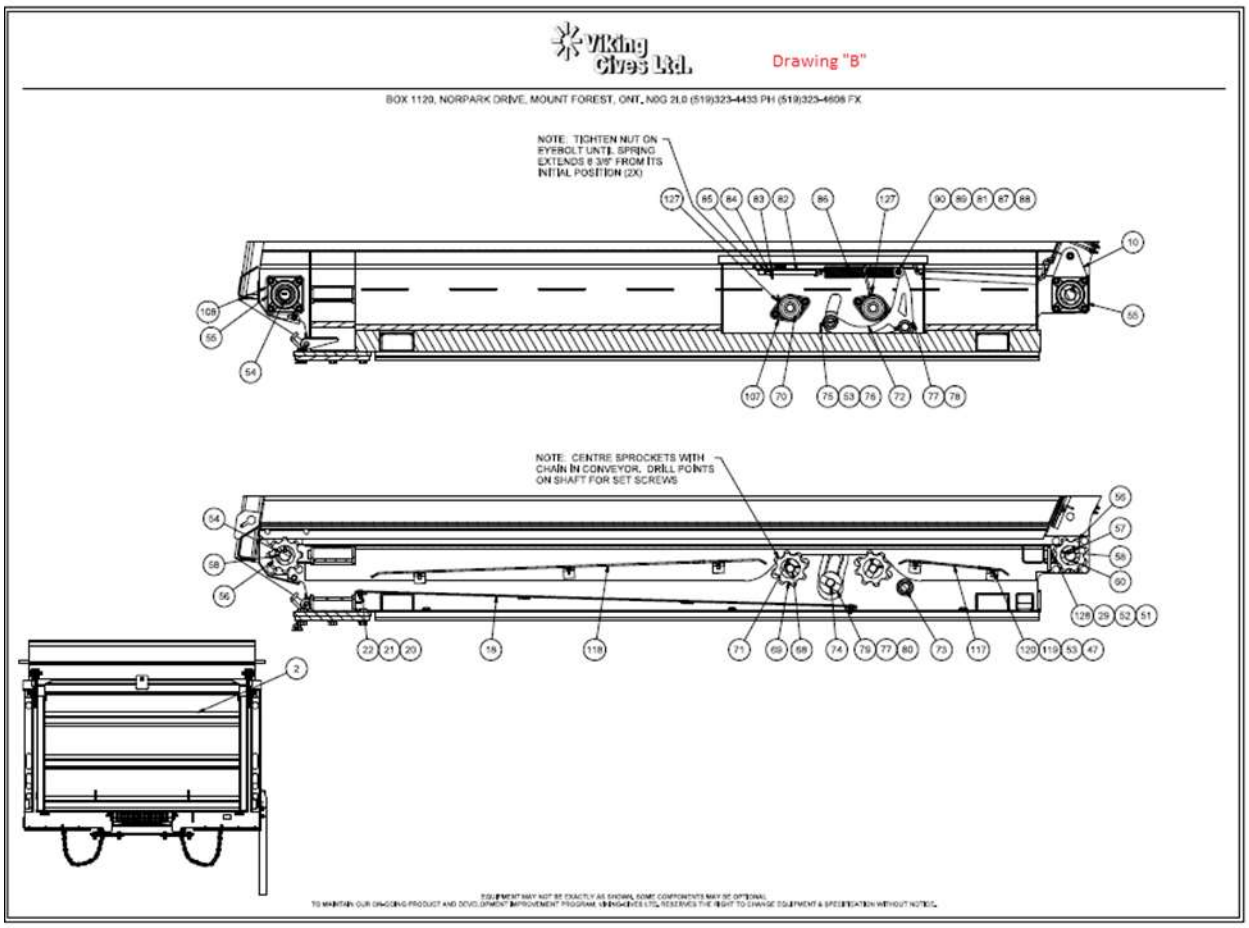
8.23 Inspect box liners and report back to Contract Administrator. _____

8.24 Supply & Install items on parts list below. _____

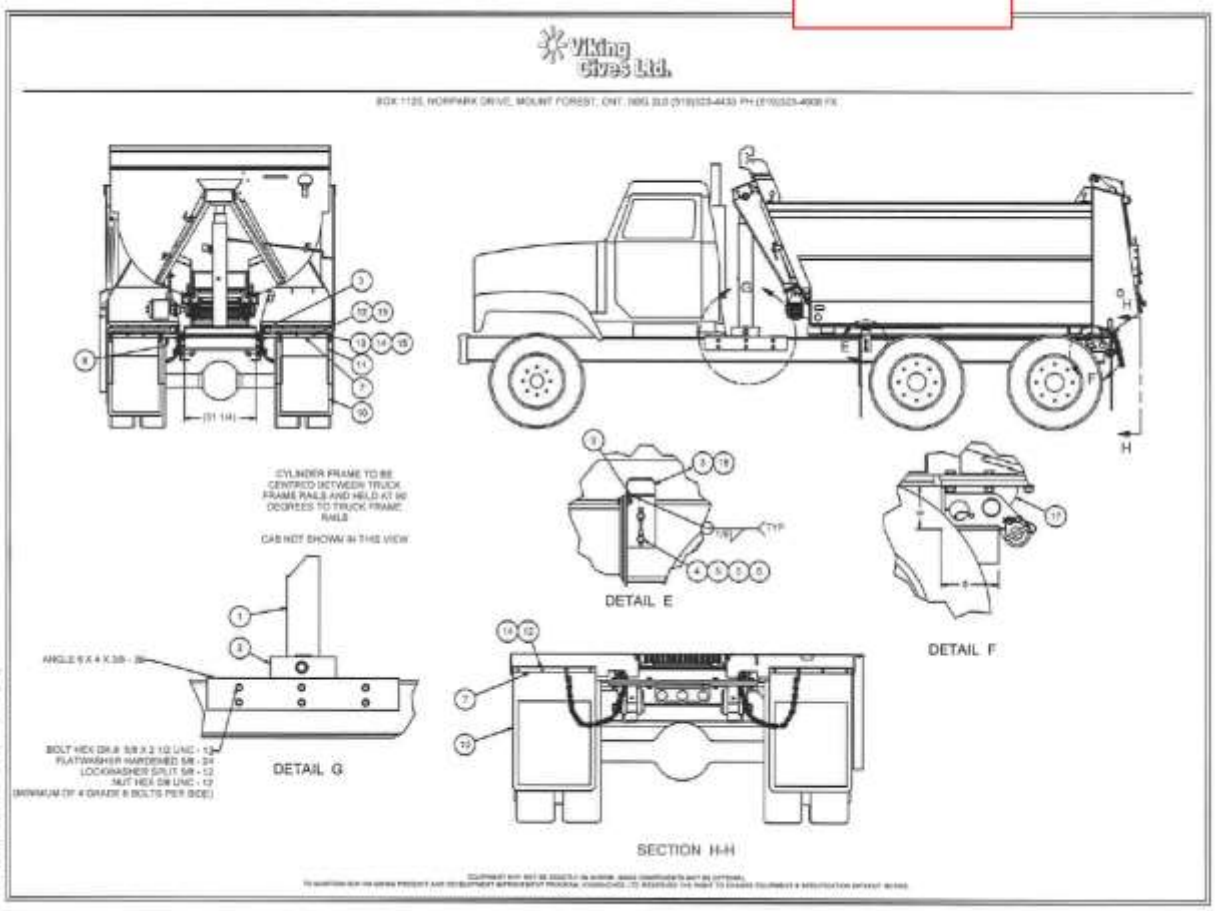
Bidder shall state all Part warranties and parts as per below. _____

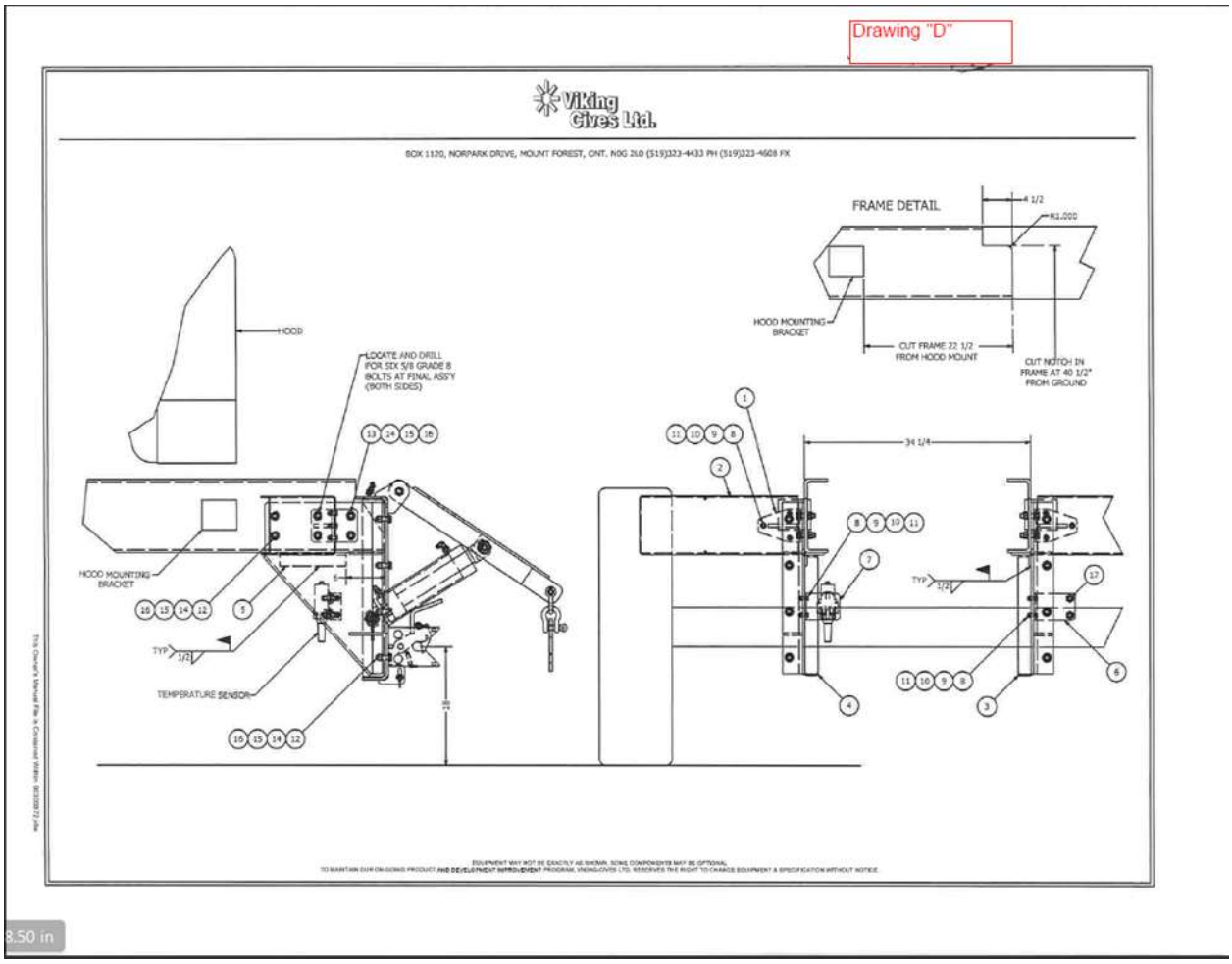
Item Number	**Item Description**	**Quantity**	**Part #**	**Part Warranty**
DWG F	Front mounting pump install plate	1	01900436	**State**_____
DWG D # 3 & 4	Front push plate tail plate kit	1	00300863	**State**_____
DWG C # 2	Front hoist mount saddle	1	01304062	**State**_____
DWG C # 3	Box guide	2	01918001	**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**_____

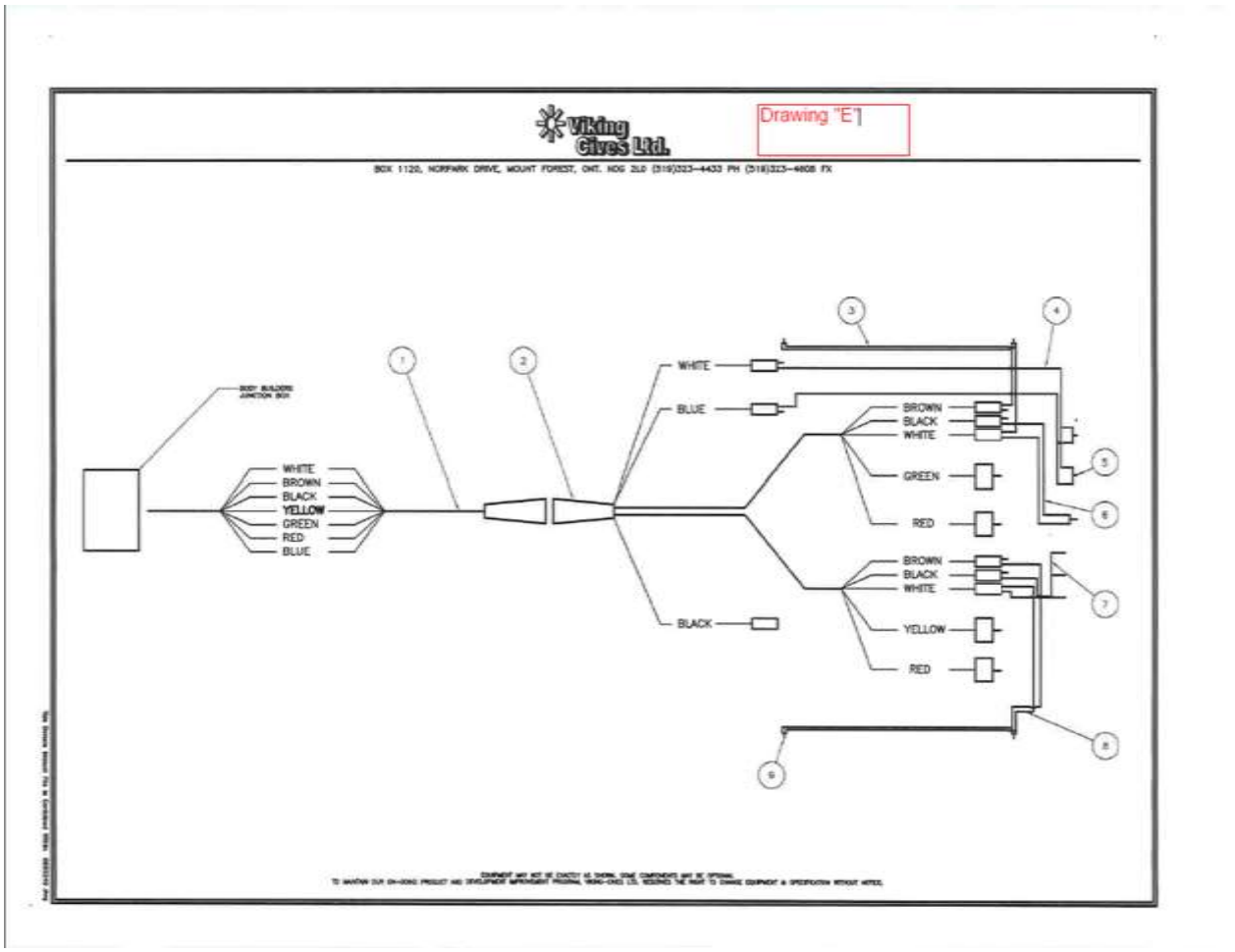

Viking Cives Ltd.
Drawing "A"
BOX 1120, NORPARK DRIVE, MOUNT FOREST, ONT., N0G 2L0 (519)323-4433 PH (519)323-4608 FX
DETAIL A
NOTE: CHECK GEARBOX OIL LEVEL UPON ASSEMBLY. ADD REQ'D TYPE AND AMOUNT AS NEEDED.
DETAIL B
CUT OFF ENDS OF BOLTS AFTER PAN IS INSTALLED
DETAIL C
DETAIL E
DETAIL F
SECTION D-D
TACK (TYP)

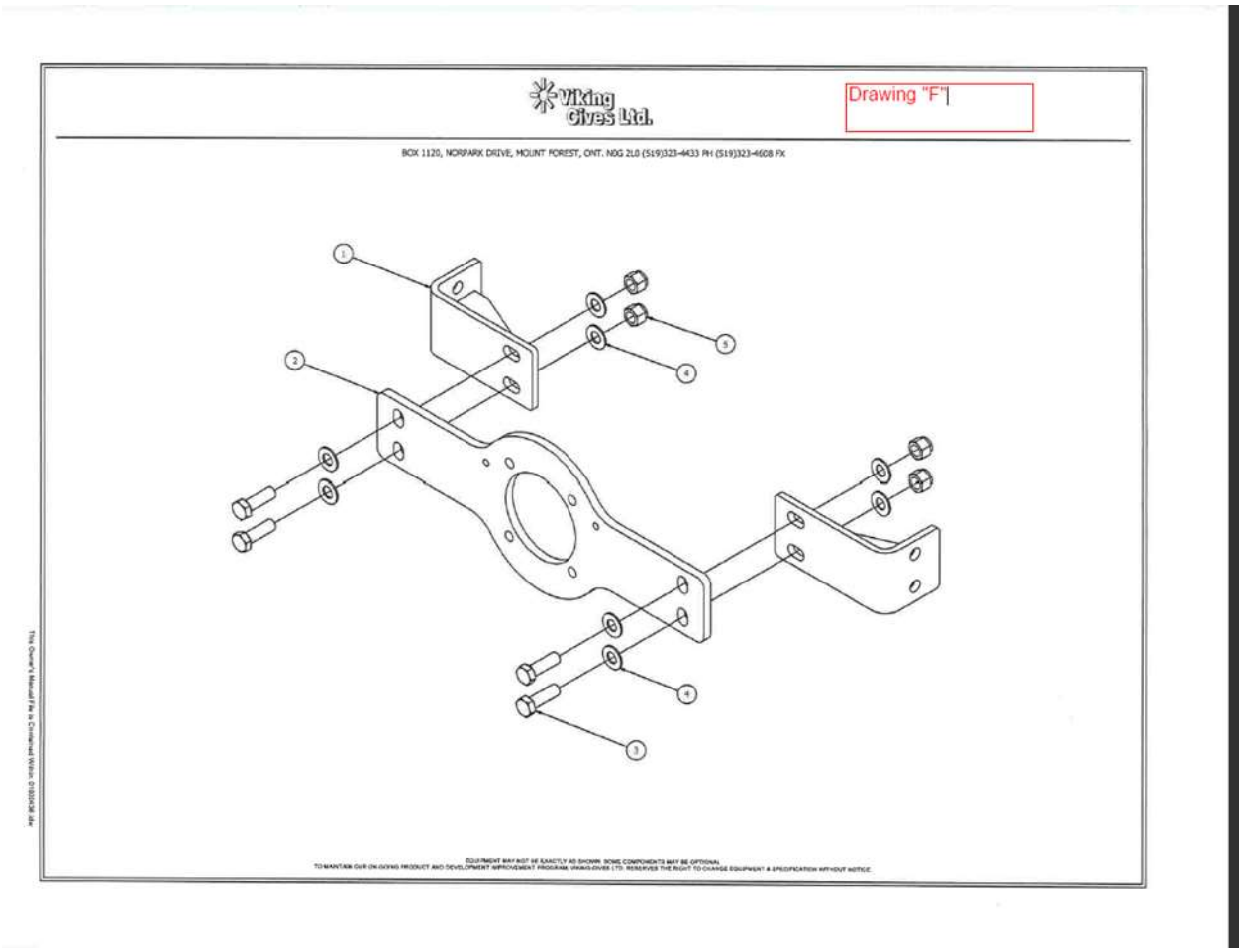

Viking Cives Ltd.
Drawing "B"
BOX 1129, NORPARK DRIVE, MOUNT FOREST, ONT., N0G 2L0 (519)323-4433 PH (519)323-4606 FX
NOTE: TIGHTEN NUT ON EYEBOLT UNTIL SPRING EXTENDS 6 3/8" FROM ITS INITIAL POSITION (2X)
NOTE: CENTRE SPROCKETS WITH CHAIN IN CONVEYOR. DRILL POINTS ON SHAFT FOR SET SCREWS
EQUIPMENT MAY NOT BE EXACTLY AS SHOWN, SOME COMPONENTS MAY BE OPTIONAL
TO MAINTAIN OUR ONGOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING-CIVES LTD. RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.

Drawing C


Viking Cives Ltd.
CYLINDER FRAME TO BE CENTRED BETWEEN TRUCK FRAME RAILS AND HELD AT 90 DEGREES TO TRUCK FRAME RAILS
CAB NOT SHOWN IN THIS VIEW
DETAIL E
DETAIL F
DETAIL G
SECTION H-H


Drawing "D"
Viking Cives Ltd.
BOX 1120, NORPARK DRIVE, MOUNT FOREST, ONT. N0G 2L0 (519)323-4433 PH (519)323-4608 FX
FRAME DETAIL
4 1/2
R1.000
HOOD MOUNTING BRACKET
CUT FRAME 22 1/2 FROM HOOD MOUNT
CUT NOTCH IN FRAME AT 40 1/2" FROM GROUND
HOOD
LOCATE AND DRILL FOR SIX 5/8 GRADE 8 BOLTS AT FINAL ASSY (BOTH SIDES)
HOOD MOUNTING BRACKET
TYP 1/2
TEMPERATURE SENSOR
34 1/4
TYP 1/2
8.50 in


Viking Cives Ltd.
Drawing "E"
WHITE
BROWN
BLACK
YELLOW
GREEN
RED
BLUE
WHITE
BLUE
BLACK
BROWN
BLACK
WHITE
GREEN
RED
BROWN
BLACK
WHITE
YELLOW
RED



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) with:

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. _____

State paint procedure. _____ _____

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 (1) year warranty, unlimited hours. _____

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

_____
_____
_____
_____
_____
_____

13.0 **DELIVERY SCHEDULE**

13.1 The City of Winnipeg Fleet Management Agency requires one (1) re-mount every 30-calendar days commencing issuance of the Purchase Order. _____

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 pre-production 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. _____

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. _____