

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

1. Contract Title SUPPLY AND DELIVERY OF A SUBURBAN SQUAD TRUCK

2. Bidder

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

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

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

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

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

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

(Mailing address if different)

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

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

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

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

The Bidder is:

(Choose one)

a sole proprietor

a partnership

a corporation

carrying on business under the above name.

3. Contact Person

The Bidder hereby authorizes the following contact person to represent the Bidder for purposes of the Bid.

\_\_\_\_\_  
Contact Person

\_\_\_\_\_  
Title

\_\_\_\_\_  
Telephone Number

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

\_\_\_\_\_  
Email Address

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions and D3.

5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out on Form B: Prices, appended hereto.

6. Commencement of the Work The Bidder agrees that no Work shall commence until he/she is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

7. Contract The Bidder agrees that the Bid Opportunity in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

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 SUBURBAN SQUAD TRUCK

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE
1.	Suburban Squad Truck	18014	Each	1	

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

## FORM N: DETAILED SPECIFICATIONS 18014

### 1.0 DESCRIPTION OF EQUIPMENT/APPLICATION

- 1.1 These specifications describe Suburban Squad Truck and other equipment and features as specified herein. The Winnipeg Fire Paramedic Service (WFPS) wishes to acquire a fire fighting vehicle capable of providing a multitude of functions not restricted to the emergency response to medical incidents, the provision of compressed air foam for firefighting application, and capable of withstanding the heavy rigors involved in the fire response to wildland fires requiring off road capability. The vehicle, while similar to a mini pumper format, must be short in length and consequently capable of operations in tight areas whereby a standard fire engine cannot safely navigate. The vehicle must incorporate the highest level of safety components to effectively protect WFPS personnel when travelling in and subsequently when operating this unit.
- 1.2 The Suburban Squad Truck shall be a new 2018 model year or newer.
- 1.3 The Suburban Squad Truck 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 The Suburban Squad Truck shall comply with the applicable regulations:
- (NFPA) National Fire Protection Association Standard latest revisions
- 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)
- 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>.

- 2.3 In Canada, Modification to new 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) #** \_\_\_\_\_

- 2.4 The vehicle shall be complete with a current Manitoba Safety Sticker affixed to the driver's side window.
- 2.5 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.

### **3.0 SERVICE FACILITY**

- 3.1 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 9.1, 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.

### **4.0 REFERENCES**

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

### **5.0 MAKE & MODEL**

- 5.1 **State** make, year and model of the equipment 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 shall be clearly stated and fully detailed. Alternatives will be considered subject to evaluation.

### **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 Suburban Squad Truck, 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 Suburban Squad Truck 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 Suburban Squad Truck shall have five (5) years continuous experience manufacturing the equipment.
- 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 Suburban Squad Truck of the type being offered.

## **10.0 CHASSIS SPECIFICATIONS**

### **CHASSIS:**

- 10.1 Weights: \_\_\_\_\_

The Truck shall not exceed the City of Winnipeg's limit for gross vehicle weight, axle and tire loads

**Note: The City of Winnipeg and the Province of Manitoba limits the gross vehicle weight and axle and tire loads to:**

- Front axle (steering axle) – 7300 kg (16,094 lbs.)
- Rear axle (single axle) – 9100 kg (20,056 lbs.)
- Tire load – 9 kilograms for each millimeter width of tire (approximately 500 lbs. per inch of tire width).

- 10.2 Weigh Scale Ticket: \_\_\_\_\_

The Contractor shall provide a certified weigh scale ticket upon delivery of the completed unit. The scale ticket shall include front and rear axle weights including four (4) operators, all attachments and full of fuel.

- 10.3 GVWR \_\_\_\_\_

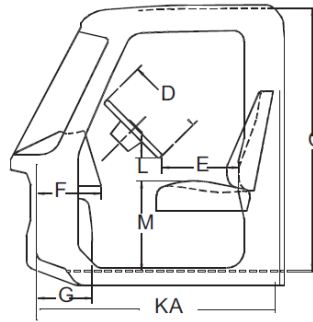
- GVWR Total 29,500 lbs.
- GVWR Front 12,000 lbs.
- GVWR Rear 17,500 lbs.

10.4 Dimensions:

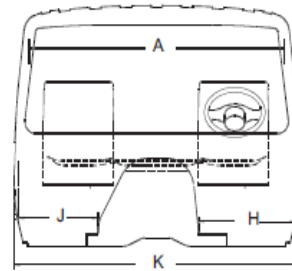
**All Dimensions are Approximate**

**Dimensions are in inches**

- A Shoulder Room 70.6
  - C Inside Height 56.8
  - D Steering Wheel Diameter 18.0
  - E Steering Wheel to Seat Back (Maximum) 18.2
  - F Bottom of Instrument Panel to Dash 13.9
  - G Engine Cover Width
  - H Lateral Foot Room – Driver 20.2
  - J Lateral Foot Room – Passenger 18.8
  - K Outside Cab Width 82.2
  - L Steering Wheel to Top of Seat Cushion 5.8
  - M Top of Front Seat Cushion to Floor 19.6
  - KA Inside Length 52.4
- Driver Seat Track Travel Fixed Seat: 7.9 in. fore/aft — Air Suspension Seat: 7.4 in. fore/aft



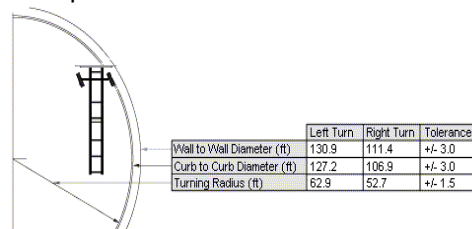
STANDARD CAB



FRONT VIEW

- 10.5 Cab to Axle As required for Suburban Squad Body: \_\_\_\_\_  
**State:** \_\_\_\_\_
- 10.6 Wheelbase As required for Suburban Squad Body: \_\_\_\_\_  
**State:** \_\_\_\_\_
- 10.7 After-Frame As required for Suburban Squad Body: \_\_\_\_\_  
**State:** \_\_\_\_\_
- 10.8 Bumper To Back Of Cab BBC Approximately 150-154 in. \_\_\_\_\_  
**State:** \_\_\_\_\_
- 10.9 Turning Radius Turning Radius \_\_\_\_\_  
**State:** vehicle turning radius \_\_\_\_\_

Example:



- a) Wall to Wall (ft.)
- b) Curb to Curb(ft.)
- c) Turning Radius (ft.)



**ENGINE:**

10.10	Type	Six cylinder Cummins L9 diesel or equivalent. Must meet current EPA Standards. Cummins diesel Tier IV Final (-Emergency Service Vehicle) rated.	_____
10.11	Horsepower	Approximately 370-400 HP gross	_____
10.12	Torque	Approximately 1250 lb-ft	_____
10.13	Engine Shut Down	Low oil pressure / high water temperature	_____
10.14	Air Intake Warmer	For air intake.	_____
10.15	Fuel Shut-Off	Electric solenoid type	_____
10.16	Air Intake	Side of hood air intake with NFPA compliant ember screen and fire retardant	_____
10.17	Air Cleaner	Single under-hood/outside air intake	_____
10.18	Air Intake Restriction	Dash mounted restriction indicator	_____
10.19	Oil Drain Plug	Magnetic type	_____
10.20	Oil Filter	Full flow, spin-on type	_____
10.21	Fuel Filter	Spin-on type	_____
10.22	Fuel/Water Separator	Heated, drainable under hood	_____
10.23	Fuel Line Primer Pump	<b>State:</b>	_____
10.24	Block Heater	Immersion type, Approximately 1000 Watt with covered recessed male plug, located under driver's side door	_____
10.25	Radiator	Aluminum 1200 square inch <b>State:</b> size	_____
10.26	Coolant	<b>Extended Life</b> coolant, antifreeze to -35°F (-37°C)	_____
10.27	Coolant Filter	<b>State:</b>	_____
10.28	Coolant Hoses	Silicone type or Gates Blue Stripe	_____
10.29	Fan Drive	Thermostatically controlled, automatic type with dash switch	_____
10.30	Air Compressor	Water cooled, pressure lubricated, 15-18 cfm	_____
10.31	Diesel Exhaust Fluid (DEF) Tank	Approximately 19 – 36 Litres or largest size per application. Located Driver's side <b>State:</b> size and location	_____

**ELECTRICAL SYSTEM:**

10.32	Electrical Connector's	Plug-in, sealed type VMUX Multiplexed electrical system	_____
10.33	Anti-Corrosion Electrical Package	Controllers and sensitive electrical components (PCM, Harnesses etc.) mounted in cab <b>preferred</b>  <b>State:</b> locations	_____
			
10.34	Alternator	Delco Remy or Leece Neville Heavy Duty, Brushless type 300-325 Amp Pad Mount Remote Sense <b>State:</b> make and model	_____
10.35	Starter	Delco Remy 39MT with Over-Crank Protection	_____
10.36	Circuit Breakers	Auto-reset, readily accessible	_____
10.37	Batteries/Battery Location	Three (3) batteries, 12-volt, group 31, approximately 2700-2850 CCA combined.  Batteries not to impede with the installation of the body <b>State:</b> location	_____
10.38	Battery Disconnect	In-cab mounted outboard of driver's seat preferred.  <b>State:</b> location	_____
10.39	Battery Boost Terminal	Remote battery boosts terminal(s), <b>protected from road spray, state:</b> location	_____
10.40	Cab Marker Lights	LED Cab or Sun Visor Marker Lights	_____
10.41	2-Way Radio Circuit	Independent 20 Amp circuit, ignition powered, wired under dash loose, labelled	_____
10.42	Accessory Switches	Twelve (12) All switches complete and wired for body installation, labeled and backlit	_____
10.43	Mega Fuse Box	Located in-cab or under-cab and shall be sealed.  <b>State:</b> location and method of sealing	_____

**EXHAUST SYSTEM:**

10.44	Configuration	The tailpipe configuration must be compatible for use with a "Plymovent" automatic exhaust disconnection system and shall include the installation of the appropriate adapter. Must be on passenger side. Exhaust shall be outboard, under step mounted horizontal after-treatment system with right hand horizontal tailpipe exiting forward of the rear tires at 90 degrees	_____
10.45	Exhaust type	Plymovent capable	_____
10.46	Exhaust Heat Shield	<b>State:</b>	_____

**TRANSMISSION/DRIVE LINE:**

10.47	Transmission	<ul style="list-style-type: none"><li>• Allison 3000 RDS EVS with 6-speed programming</li><li>• Ratio shall be as per inter-city application.</li><li>• Transmission shall come with load base Management Programming.</li></ul>	_____
10.48	Driveline	The drive line must be 4X4 (4 wheel drive)	_____
10.49	Allison SCAAN	The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator, the Allison SCAAN	_____
10.50	Transmission Fluids	Synthetic	_____
10.51	Shift Selector	Digital push-button type, dash mounted	_____
10.52	Cooling Capacity	Water to oil transmission cooler, as per manufacturer's recommendation for severe duty cycle	_____
10.53	Oil Level Dipstick	Bayonet type with high and low level markings	_____
10.54	Transmission Drain Plug	Magnetic type	_____

**FRONT AXLE:**

10.55	Front Axle	<b>Set back axle</b> , 12,000 lbs. capacity, with synthetic fluid	_____
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**REAR AXLE:**

10.56	Rear Axle	17,500 lbs. capacity, with synthetic fluid	_____
10.57	Ratio	For 110 km/hr <b>State:</b> ratio	_____
10.58	Inter-Axle Lock	With dash mounted switch	_____
10.59	Differential Lock	For drive axle with dash mounted switch	_____
10.60	Hub Seals	Oil lubricated front and rear type	_____

**FRONT SUSPENSION:**

10.61	Type	Multi-leaf spring suspension, 12,000 lbs. capacity	_____
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**REAR SUSPENSION:**

10.62	Rear Suspension	Air ride suspension, 17,500 lbs. capacity	_____
10.63	Suspension Control Valve	Manual dump valve for air suspension complete with dash mounted switch, indicator light, gauge and buzzer	_____
10.64	Auto Refill	At 5 km/hr  <b>Exact speed will be determined at a pre-production meeting</b>	_____

**RIMS, WHEELS AND HUBS:**

10.65	Front Wheels	Aluminum, hub piloted, rated for requested GVWR	_____
10.66	Rear Wheels	Aluminum, hub piloted, rated for requested GVWR	_____
10.67	Hubs	Aluminum or steel material	_____
10.68	Wheel Nut Indicators	On all wheel nuts	_____

**TIRES:**

10.69	Front Tires	395/85/R20, snow, mud and ice rated for requested GVWR and application. Michelin XZL load range J.	_____
10.70	Rear Tires	395/85/R20, snow, mud and ice rated for requested GVWR and application. Michelin XZL load range J.	_____

**FRAME:**

10.71	Frame	Suitable for requested GVWR and height requirements, outside frame clear of components for body installation.height requirements, outside frame clear of components for body installation.	_____
10.72	Rust Inhibitor (Frame/Cross Member)	The whole frame / crossmembers / and wheel well area of the vehicle body shall be thoroughly prepared and sprayed with Corashield® that will help prevent rust and corrosion. 8-10 mils of Corashield® shall be sprayed. The bottom, sides and tops of the cross-members shall be fully covered.	_____
10.73	Chassis Fasteners	Grade-8 threaded hex headed frame fasteners	_____
10.74	Rear Frame Towing Provisions	Towing provisions with 7-way pin receptacle to end of frame with two (2) extra feet of wiring and air lines to for ease of body installation.	_____

**STEERING:**

10.75	Type	Tilt and telescopic, power, rated for front GVWR rating. Reservoir approximately 2 quart with see through tank.	_____
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**BRAKES:**

10.76	Brakes	Fire and Emergency Rated Non Asbestos Air Brakes, ABS, front & rear brakes with Traction control, with Electronic Stability Program (6-Channel) (Roll Stability Control)	_____
10.77	Slack Adjusters	(Clearance sensing), automatic type	_____
10.78	Parking Brake	<b>State:</b>	_____
10.79	Brake Pots	Vented type	_____
10.80	Dust Shields	Front and rear	_____
10.81	Air Tanks	Aluminum tanks with aluminum or stainless steel straps with approximately 1/16 in. rubber or neoprene isolators to prevent galvanic corrosion	_____

- 10.82 External Air Inlet Milton A style air fitting installed on left side of chassis so the WFD can plug their shop air lines into the truck. Shall be plumbed to the outlet side of the air dryer for the option to put alcohol into the air system without going through the dryer. \_\_\_\_\_
- 10.83 Moisture Ejector Heated in all air tanks \_\_\_\_\_
- 10.84 Drain Valves Manual, chain or cable operated, on each air tank \_\_\_\_\_
- 10.85 Air Dryer Heated Wabco System Saver 1200 or Bendix AD-9 \_\_\_\_\_  
**State:**

**FUEL TANK:**


- 10.86 Fuel Tank Dual 70 gallon fuel tanks. Shall not impede in the installation of the body. \_\_\_\_\_  
**State:** fuel capacity
- 10.87 Fuel Water Separator Heated \_\_\_\_\_
- 10.88 Tank Straps Aluminum or Stainless Steel straps with approximately 1/16 in. rubber or neoprene isolators to prevent galvanic corrosion \_\_\_\_\_  
**State:**

**CAB:**

- 10.89 Type Conventional 4-door crew cab, with corrosion inhibitor \_\_\_\_\_



- 10.90 Cab Construction Aluminum or Galvanized Steel \_\_\_\_\_  
**State:**
- 10.91 Cab Mounts Air suspension \_\_\_\_\_
- 10.92 Hood High visibility hood \_\_\_\_\_
- 10.93 Hood Fender Extensions 2-3 in. front fender extensions \_\_\_\_\_
- 10.94 Front Grille Stationary mounted to hood \_\_\_\_\_

10.95	Cab Interior / Trim	Extreme climate insulation including cloth or vinyl headliner on roof, door panels and rear interior of cab	_____
10.96	Cab Silencer Package	For minimal decibel level	_____
10.97	Hood/Firewall/Engine Insulations	Insulated hood liner, engine cover and firewall	_____
10.98	Floor Covering	Rubber mat with under-padding	_____
10.99	Floor Mats	Two (2), rubber	_____
10.100	Driver's Seat	Driver Seat-H.O. Bostrom Sierra Air 100} NFPA Compliant, Air Suspension, High Back, Vinyl with Covered Back and International on Headrest for Fire Truck	_____
10.101	Front Passenger and Rear Passenger Seating	Front Seat-{H.O. Bostrom Tanker 450} for SCBA with Secure All Locking System, Air Suspension, High Back, Vinyl, Adjusters, 7-Degree Back Angle, with Covered Back, International Logo on Headrest.  Rear Seating- {H.O. Bostrom Tanker 400CT} for SCBA with Secure All Locking System, Three Individual Seats on One Riser, Non Suspension, High Back, Vinyl, with Covered Back and International on Head Res.t All three seats set for SCBA	_____
10.102	Dashboard	Ergonomic (Wing) Design	_____
			
10.103	Sun Visors	Dual flip-up type	_____
10.104	Steering Wheel	Tilt and telescopic type	_____
10.105	12-Volt Power Outlet	Two (2) with independent circuit	_____
10.106	Radio	Factory installed AM/WB/ with blue tooth, Microphone , USB port, front and rear input sJ1939	_____
10.107	Starter Switch	Key operated complete with three (3) sets of keys	_____
10.108	Anti-theft Device	Vehicle Anti-theft switch to cut power to the transmission.	_____
10.109	Interior Light	Dome light with driver and passenger door switches	_____

10.110	Heater / Defroster	High output, capable of keeping all windows clear at an outside temperature of (-40°C)	_____
10.111	Air Conditioning	Capable of keeping cab area cool.	_____
10.112	Brake, Accelerator, Pedals	Floor or hanging type brake and accelerator pedal <b>State:</b>	_____
10.113	Horn	Dual electric	_____
10.114	Exterior Mirrors	Westcoast style, bright finish, heated, 2-way motorized adjustment, exterior mirrors to include 6-8 "convex mirrors, suitable for 102 in. equipment width.	_____
10.115	Down-View Mirror	Over passenger door Approximately 5 in. x 4 in.	_____
10.116	Windows & Windshield	Tinted	_____
10.117	Power Windows	Power driver and passenger side	_____
10.118	Doors	Power door locks	_____
10.119	Windshield Wipers	Electric intermittent	_____
10.120	Wiper Blades	Heavy duty with winter type boot	_____
10.121	Windshield Washers	Electric, with spray nozzles on wiper blades	_____
10.122	Grab Handles	Dual exterior <b>State:</b> locations	_____
10.123	Grab Handles	Dual Interior	_____
10.124	Entrance Steps	0.125" aluminum checker-plate trim installed at the chassis steps. The checker-plate shall be easily removable for ease of service and maintenance if required.	_____
10.125	Winter Front	Heavy-duty vinyl with twist lock or snap type fasteners	_____
10.126	Exterior Sun Visor	Over cab windshield	_____

**INSTRUMENTATION:**



10.127	Instrumentation	<ul style="list-style-type: none"><li>• Oil Pressure Gauge</li><li>• Coolant Temperature Gauge</li><li>• Transmission Oil Temperature Gauge</li><li>• Voltmeter Gauge</li><li>• Air Reservoir Pressure Gauge with LAP Warning Light And Buzzer</li><li>• Low Oil Pressure Warning Light and Buzzer</li><li>• High Water Temperature Warning Light and Buzzer</li><li>• Non-Resettable Type Engine Hour-Meter</li></ul>	_____
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10.128	Communications	Factory Overhead console CB Radio Provision	_____
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**TOW HOOKS:**

10.129	Location	Front mounted and Rear mounted	_____
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10.130	Weigh Scale Systems	Model Air Weigh scale system for front and rear axles.	_____
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**System must be tested and calibrated prior to delivery.**

**COLOURS:**

10.131	Exterior Colour	Painted two tone, with bottom half Red (SIKKENS Brand Code 911662 and top half Black (SIKKENS Brand Code 910788) using a polyurethane enamel paint. Must match WFD brand image.	_____
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10.132	Interior Colour	Grey	_____
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**ACCESSORIES:**

10.133	Flare Kit	Three (3) triangular reflectors, CVSA approved. Kit must be mounted or secured.	_____
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10.134	Fire Extinguisher	5 lbs. Fire Extinguisher ABC type installed and secured <b>State:</b> location	_____
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10.135	Back-Up Camera	One (1) Federal Signal model #CAMSET70-NTSC-4 Camera/Monitor System shall be provided. The system shall consist of (1) 7.0" Color Monitor, (1) Standard Rear view Camera, (1) 4-input Control Box with keyboard, and (1) 65.5-foot Extension Cable.	_____
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- 10.136 Monitor \_\_\_\_\_  
The monitor shall be a 7.0" TFT-LCD Color Monitor, and shall be intended for use in vehicle applications utilizing up to four cameras with split screen capability. The monitor shall incorporate a built-in speaker, and a photo sensor for automatic brightness adjustment for low-light / no-light conditions.
- 10.137 Camera voltage \_\_\_\_\_  
Multi-voltage 12/24 VDC capable
- 10.138 Camera Resolution \_\_\_\_\_  
Resolution: 336960 pixels
- 10.139 Monitor dimensions \_\_\_\_\_  
The monitor dimensions shall measure approx.. 7.6" length x 4.9"width x 1.1" depth.
- 10.140 Back-Up Camera Screen \_\_\_\_\_  
In-Dash (Ergonomic (Wing) Dashboard)

**OR**

Dash mounted if standard dashboard is specified.



**Back-Up Camera Screen location to be determined at a pre-production meeting.**

- 10.141 Auto Eject System \_\_\_\_\_  
Part #091-193-12 Kussmaul Pump Plus 1200 combination battery charger, 12V air compressor, auto eject 20WP 20 amp automatic power line disconnect and remote bar graph indicator shall be provided. The output side of the battery charger shall be connected to the chassis batteries, and the input side connected to the auto eject receptacle. The output side of the air pump shall be connected into the chassis air system, and the input side connected to the auto eject receptacle. A 110 volt Kussmaul Auto-Eject, 3-prong, straight blade receptacle shall be provided at the left cab door area. This receptacle shall have a hinged weatherproof cover.

10.142 Body Specifications	The below are general specifications. The compartments are to be designed to maximize the space available. Contractor shall supply their proposed layout schematic during a preproduction meeting.	_____
10.143 <b><u>TESTING &amp; CERTIFICATION-</u></b>	Testing- The completed vehicle shall be tested and labelled to (NFPA) National Fire Protection Association Standard latest revisions by an independent third party certification organization.	_____
10.144 Third Party Organization-	The third party organization accredited for testing systems on fire vehicle in accordance with ISO/IEC 17020 or ISO/IEC Guide 65.	_____
10.145 Certification-	The certification organization shall not be owned or controlled by manufacturers or vendors of the vehicle being tested. Manufacturer's certification is not acceptable. (No exceptions)	_____
10.146 Labelling-	A warning label shall be provided in the cab within sight of the driver stating the seating capacity of the cab/crew cab.	_____
10.147 Safety Labelling	A warning label shall be provided in the cab within sight of the driver stating the seating capacity of the cab/crew cab.	_____
10.148 Dimension Plate-	A warning label shall be provided in the cab within sight of the driver stating the following vehicle dimensions: <ul style="list-style-type: none"><li>• Height and length in standard and metric measurements.</li><li>• Gross vehicle weight rating in pounds and kilograms.</li></ul>	_____

10.149 Reflective Stripping	<p>3M 4000 diamond grade striping where ever possible. The reflective striping shall be red on white and/or aluminum back ground and white on red background. The side striping shall be stylized Z pattern front to back of vehicle. The striping shall be composed of 5 bands. The band width shall be 10". Example: white stripe on red background. From top down shall be: one 1" white stripe, one 1' red stripe, one 6" white stripe, one 1" red stripe, one 1" white stripe. The stripes shall not be spaced apart to reveal background. The stripe shall be edge sealed as per 3M guidelines. Incorporated within the cab reflective stripe shall be stylized WFD. Cab drivers and officers door shall be location of Winnipeg Fire Department crest (size 12 3/4 "x 12" wide) crest shall be within reflective stripe. Were 4000 diamond grade reflective striping is difficult to apply; series 680 reflective film shall be allowable The reflective striping shall at all times meet and/or exceed NFPA 1901 as the standard guideline</p>	<hr/>
10.150 Logo	<p>The reflective striping on the cab shall incorporate the Fire Department's stylized "WFD" logo. (A diagram of the logo shall be provided to the Contractor by the City).</p>	<hr/>
10.151 Voltage Testing-	<p>The wiring and permanently connected devices and equipment shall be subject to a dielectric voltage withstand test of 900 volts for one minute. The testing shall be performed after all body work has been completed. The electric polarity of all permanently wired equipment, cord reels, and receptacles shall be tested to verify that wiring connections have been properly made.</p>	<hr/>
10.152 Fluid Capacity and Type Label	<p>A permanent label shall be provided and shall state the type and quantity of the following fluids used in the vehicle:</p> <ul style="list-style-type: none"><li>• Engine Oil</li><li>• Engine Coolant</li><li>• Chassis Transmission Fluid</li><li>• Drive Axle Fluid</li><li>• Pump Gear Case</li><li>• Primer Lubricant (If Applicable)</li></ul>	<hr/>

10.153 Vehicle Data Recorder	Meeting the requirements of NFPA 1901-2009, Vehicle Data Recorder is required. Recorded to Include the following Data:	<hr/>
	<ul style="list-style-type: none"><li>• Vehicle Speed</li><li>• Acceleration</li><li>• Deceleration</li><li>• Engine Speed</li><li>• Engine Throttle Position</li><li>• ABS Event</li><li>• Seat Occupied Status</li><li>• Seat Belt Status</li><li>• Master Optical Warning Switch</li><li>• Park Brake</li><li>• Service Brake</li><li>• Time</li><li>• Date</li><li>• Engine Hours</li></ul>	
10.154 Inputs	Four (4) seat position inputs for occupied and belts buckled. Data extraction by a standard, mini USB cable.	<hr/>
10.155 Occupant restraint indicator	Occupant Restraints designed to alert driver and officer, this module will indicate where restraints of occupied seats are properly fastened keeping personnel safe. The indicator shall be low profile compact size. Support commercial and custom cab seating layouts up to 12 seats. A dimming feature adjusts indicator intensity to synchronize with dash lights and have a built-in audible alarm.	<hr/>
10.156 Visual Tire Pressure Monitoring	There shall be a visual six (6) wheel tire pressure system supplied that monitors all of the tires on the vehicle. An LED valve cap shall be attached to the tires valve-stem that contains a Pressure Sensor to alert the operators of a developing tire problem	<hr/>
10.157 Helmet Holders	Four (4) Zico helmet holders supplied with the vehicle. The helmet holder shall comply with the 2009 edition of NFPA 1901 for use inside of crew cabs. It shall hold both traditional and contemporary style helmets without any adjustment needed.	<hr/>

10.158 Transportation Road Safety Kit

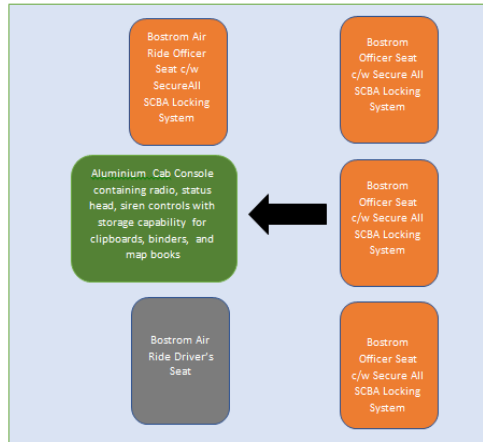
Fire Extinguisher One (1) 2.5 lb. ABC vehicle type fire extinguisher with mounting bracket.

First Aid Kit- One (1) standard First Aid Kit shall be provided.

Warning Flares- One (1) set of three (3) dual faced triangular warning flares to meet the Department of Transportation's Motor Vehicle Safety Standards

NOTE: All three rear seats to have SCBA brackets as below.

10.159 Cab Configuration



10.160 Box Dimensions

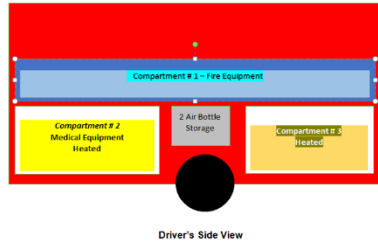
Box length approximately 114" long or 9' 6" long, **state length-**

Box height 126" high or 10' 6" high.

10.161 Compartments

Only items included in item 10.158 are to be included in the bid price. All other items are supplied by the WFPS and are only noted to ensure the compartments can accommodate the equipment.

## 10.162 Compartments Driver Side



### Compartment # 1:

- 1 Water Thief
- 1 Cellar Nozzle
- 1 Piercing Nozzle
- 1 Hydrant Key
- 1 Adjustable Winter Key
- 1 High Pressure Key
- 1 Akron 38mm Fog Nozzle
- 1 Wildland 38mm Nozzle
- 1 Rabbit Tool and Bag
- 1 Hydrant Gate
- 3 Hose Keys
- 1 Storz to 2 1/2" Female Coupling
- 1 Storz to 2 1/2" Male Coupling
- 2 65mm Double Female

#### Couplings

- 2 65mm Double Male Couplings
- 1 65mm to 38mm Adaptor
- 1 38mm to 65mm Adaptor

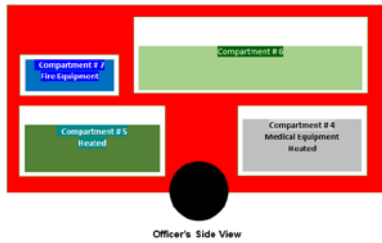
### Compartment # 2 (Heated):

- 1 Medical Trauma Bag
- 1 Oxygen Therapy Bag
- 1 IV Kit
- 1 Zoll Monitor
- 2 Oxygen Bottles c/w Bracket

### Compartment # 3 (Heated):

- 1 Water Cooler
- 1 Bag w/ 2PDF's, 2 Throwballs w/ rope, and Coveralls

### 10.163 Compartments Officer Side



#### **Compartment # 4 (Heated):**

- 1 Burn Bundle / OB Kit
- 1 Collar Bag w/ Blankets
- 1 Bariatric Tarp
- 1 KED
- 1 FracPac

#### **Compartment # 5 (Heated):**

- 1 CO2 Extinguisher
- 1 Dry Chemical Extinguisher
- 1 Bike Pump
- 1 Pressurized Water Can

#### **Compartment # 6:**

- 1 2' Pry Bar
- 1 Halligan Tool
- 1 24" Bolt Cutter
- 2 Pickhead Fire Axes
- 1 Spade Shovel
- 1 Scoop Shovel
- 1 3' Pry Bar
- 2 Brooms
- 1 Sledge Hammer
- 1 4' Pike Pole

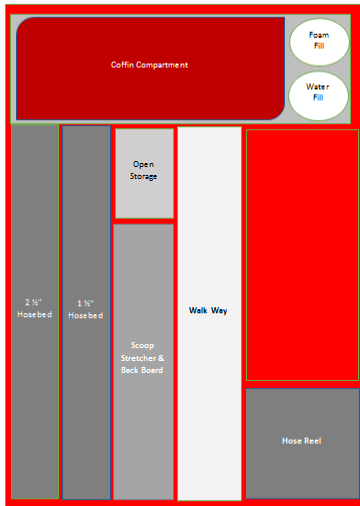
#### **Compartment # 7:**

- 2 Trauma Bears
- 2 Quick Fit Sprinkler Tongs
- 2 Dust Masks
- 2 Rolls of Scene Tape
- 1 Socket Set
- 1 Red Tool Box
- 1 Set Road Reflectors (Triangles)



10.164 Top View

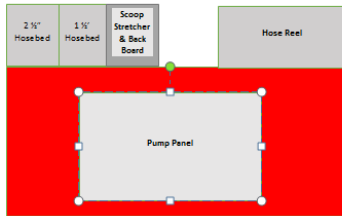
Equipped with a coffin compartment and open storage



Top View

10.165 Rear View

Access to hose beds, hose reel and scoop stretcher, back board and pump pane.



Rear View

10.166 Hose bed:

8 Lengths – 2 1/2" Hose  
 10 Lengths – 1 1/2' Hose  
 Spine Board /w Straps  
 Scoop Stretcher  
 Capable of carrying eight (8) lengths 2 1/2" hose  
 Capable of carrying ten (10) lengths 1 1/2" hose

10.167 Hose Reel:

150 to 200 Feet of 1" Rubber Hose c/w Shut Off Nozzle (as design efficient)  
 Electric Rewind Hose Reel

10.168 Fire Pump:

≥500 Imperial GPM  
 Diesel  
 Electric Primer

10.169 Pump Panel: Enclosed and Heated \_\_\_\_\_  
LED Lighting  
Primer Switch  
Throttle Control  
Water Tank Level Display on Pump

**Panel**

Water Tank Fill (1 ½" Connection)  
Foam Tank Level Display  
Low Foam indicator warning light  
Master Drain Valve  
Master Vacuum Gauge  
Master Pressure Gauge  
Hydrant Intake (1 X 4" Storz

**Connection)**

Outlets (2 X 2 ½" Connections)  
Hose Reel Outlet Control  
Foam Proportioned Control

10.170 Water Tank: 800 Imperial Gallon Poly Water Tank \_\_\_\_\_  
Tank Fill from Top  
Tank Fill from Pump Panel with 1 ½" inlet  
Tank Drain with control on Driver's Side

10.171 Foam Tank: 25 Imperial Gallon Foam Cell \_\_\_\_\_  
Tank Fill from Top

10.172 Foam Proportioned: Foam proportioning rates from 0.1% to \_\_\_\_\_  
3.0%  
CAF system

With: Two (2) Task Force Tips EFI \_\_\_\_\_  
Remote Controlled Monitor on each side  
of box behind cab.

**ELECTRICAL & LIGHTING:**

10.173 Conformance All lighting to conform to: \_\_\_\_\_  
• C.M.V.S.S.  
• Manitoba Highway Traffic Act.  
• City of Winnipeg Lighting Visibility  
Standard  
[http://winnipeg.ca/matmgt/pdfs/Public  
WorksEquipLightingVisibility.pdf](http://winnipeg.ca/matmgt/pdfs/PublicWorksEquipLightingVisibility.pdf).

10.174 Lighting Supplier installed **high count** LED lighting \_\_\_\_\_  
and shall be Truck-Lite, Whelen **or**  
**equivalent**

11.0 **WARRANTY**

11.1 The body warranty on the complete vehicle (excluding the chassis) shall include 100% replacement parts and labour at no cost to the City and shall cover the complete equipment and all parts thereof against defects of workmanship, construction and materials for one (1) year from the date the equipment is put into service by the City of Winnipeg. \_\_\_\_\_

11.2 All warranty information be detailed and include all exclusions. The successful bidder shall provide all published warranty information upon delivery of the equipment. Contractor shall State: all warranty information \_\_\_\_\_

**BODY WARRANTY**

11.3 Structural **State:** \_\_\_\_\_

11.4 Body Vehicle basic coverage **State:** \_\_\_\_\_

11.5 Body compartment latches, hinges and shelving **State:** \_\_\_\_\_

11.6 Components e.g. Pumps **State:** \_\_\_\_\_

11.7 Electrical **State:** \_\_\_\_\_

11.8 Body Lighting **State:** \_\_\_\_\_

11.9 Body Paint **State:** \_\_\_\_\_

**CAB & CHASSIS WARRANTY**

11.10 Basic Vehicle - Chassis **State:** \_\_\_\_\_

11.11 Electrical **State:** \_\_\_\_\_

11.12 LED Lighting **State:** \_\_\_\_\_

11.13 Batteries **State:** \_\_\_\_\_

11.14 Drivetrain **State:** \_\_\_\_\_

11.15 Cab Structure/Corrosion **State:** \_\_\_\_\_

11.16 Frame & Cross-Members **State:** \_\_\_\_\_

11.17 Cab Paint **State:** \_\_\_\_\_

11.18 Engine **State:** \_\_\_\_\_

11.19 Transmission **State:** \_\_\_\_\_

11.20 Axles - Front & Rear **State:** \_\_\_\_\_

11.21 Components **State:** \_\_\_\_\_

- 11.22 Warranty Administration Coordinator  
The successful Contractor shall have a dedicated person allocated and available 24/7 to receive phone calls and determine, co-ordinate, schedule and have the ability to authorize all warranty related issues which arise during the warranty period. \_\_\_\_\_
- 11.23 Third Party-  
In the case where the Contractor proposes that warranty work be performed by a third party or by the City of Winnipeg Fire Paramedic Service, the Contractor shall include a written detailed estimate. Any work performed by the Fire Paramedic Service Mechanical Services Branch will be charged to the Contractor at the Branch's shop rate in effect at the time the work is performed. \_\_\_\_\_
- 11.24 Importance-  
The vehicle is of vital importance to the City in providing essential services and, accordingly, all warranty items brought to the attention of the Contractor by the City shall be rectified expediently. The City reserves the right to affect warranty repairs to the vehicle, at full cost to the Contractor, should the Contractor fail to perform in a timely manner. \_\_\_\_\_
- 11.25 Warranty Literature  
All warranty literature and Documentation or "fine print" documentation provided within three (3) Business Days of the request from the Contract Administrator. This warranty documentation will be entered into the City of Winnipeg Fire Department's Service Data Network to expedite and administrate warranty claims and repairs. \_\_\_\_\_
- 13.0 **DELIVERY**
- 13.1 Delivery Point: The complete unit shall be serviced, ready for operation and delivered F.O.B. with the freight prepaid, including invoice and N.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 \_\_\_\_\_
- 13.2 Delivery Time: Equipment shall be delivered between 8:00 am and 2:00 pm on Business Days  
**State:** Delivery Date \_\_\_\_\_
- 13.3 Delivery Contact: The Contractor shall contact the Contract Administrator prior to delivery of the equipment. \_\_\_\_\_
- 13.4 P.D.I: A pre-delivery inspection shall be performed by the Contractor on the equipment. Proof upon inspection including completed check list \_\_\_\_\_

14.0 **MANUALS**

14.1 Manuals supplied under this Contract shall cover the complete equipment including all components thereof, CD or USB flash drive is preferred where available. \_\_\_\_\_

14.2 The following manuals shall be supplied with the units when delivered:

a) Operator's manual – Two (2) per unit (one operator manual shall be sent to the Winnipeg Fire Paramedic Service Training Academy 2546 McPhillips Street Winnipeg, Manitoba Office- (204).986.8398 Fax- (204).986.4266 \_\_\_\_\_

b) Parts and service manuals – One (1) complete set including preventative maintenance schedules. CDs or USB flash drive are preferred. \_\_\_\_\_

15.0 **PARTS/LABOUR DISCOUNT**

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

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

16.0 **FIRST SERVICE PREVENTATIVE MAINTENANCE KIT**

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

16.2 The Contractor shall 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. \_\_\_\_\_