

REQUEST FOR QUOTATION
WALK IN RESCUE VEHICLE
(WEST NIPISSING FIRE & EMERGENCY SERVICES)

Quote No.

2026-009

Bid Closing: February 3, 2026

Joie de vivre



www.westnipissingouest.ca



MUNICIPALITY OF WEST NIPISSING
RFQ WALK IN RESCUE VEHICLE

SECTION 1.0
INSTRUCTION TO BIDDERS

INVITATION TO QUOTE

The Municipality of West Nipissing is seeking to purchase a walk in rescue vehicle for the West Nipissing Fire & Emergency Services department.

Owner: Municipality of West Nipissing
101-225, Holditch Street
Sturgeon Falls, On P2B 1T1
Phone: 705-753-2250
Fax: 705-753-3950

BID SUBMISSION

- 1.0)** Bid documents must be submitted in one of the approved formats before 3:00 pm (local time) on February 3, 2026 (the “Official Closing Time”)
- i) In a sealed envelope clearly marked “Walk In Rescue” complete with bidder’s Company name and Quotation reference number to Municipality of West Nipissing, 101-225 Holditch Street, Sturgeon Falls, Ontario P2B 1T1
 - ii) Bid Electronic bid submission through MERX or in the form of a password protected pdf document to bids@westnipissing.ca. Bids submitted by email shall include the Bid reference number in the subject line. After the official closing time, respondents will be requested to submit the password).
- 1.2)** Bids submitted by facsimile will not be considered.
- 1.3)** All pages contained in the bid documents form an integral part of this bid.
- 1.4)** The lowest or any bid will not necessarily be accepted. The owner may decide, at its sole discretion, that no bid submitted will be accepted and no contract will be awarded pursuant to this bid process. If the owner elects to reject all bids, all bidders will be notified and the owner will not be liable to any bidder in preparing the bid, damages, loss of anticipated profit in connection with the work, or any matter whatsoever.
- 1.5)** Bidders are required to check the Municipality of West Nipissing website for addenda issued before the closing date and time. If the contract administrator determines that an amendment is required to the bid documents, the contract administrator will prepare an addenda and post it to the Municipality of West Nipissing website.
- 1.6)** Partial or incomplete bids will not be considered.
- 1.7)** In case of a corporation that has a corporate seal, the corporate seal shall be affixed to the bid form.

QUESTIONS AND CLARIFICATIONS

- 2.0)** Enquiries, request for explanation, interpretations or clarifications must be submitted by email to floeffen@wnfs.ca. Only those inquiries submitted by email will be considered. Emails submitted must include the quotation title and quotation reference number.
- 2.1)** Enquiries will be received up to noon local time on January 27, 2026. Enquiries received after the date and time noted will not receive a response.

BID OPENING

- 3.0)** Bids will be opened privately.
- 3.1)** Bid received after the official closing time is considered LATE, and will not be accepted and will be returned unopened to the bidder.

ADJUSTMENT OR WITHDRAWAL OF BIDS

- 4.0)** Adjustment by telephone, facsimile or letter for a bid already received will not be considered. A bidder desiring to make adjustment to a bid must withdraw the submission and/or supersede it with another offer.
- 4.1)** Bidders may withdraw its bid at any time prior to closing provided the withdrawal:
- i) is in the form of a letter and,
 - ii) state the name of the bidder and clearly identifies the bid that is being withdrawn and;
 - iii) is signed by the bidder's duly authorized signing officer;

BID DOCUMENT DISCREPENCIES AND OMISSION

- 5.0)** Bidders are responsible to review the bid documents and to verify they are complete. If the bidder finds discrepancies or omissions from the drawings, specifications and other documents, the bidder should submit a written request for correction to the contract administrator. Any required correction, addition, deletion or revision to the bid documents will be by written addenda to the bid documents issued by the contract administrator by posting to the Municipality of West Nipissing website.

REQUEST OF APPROVED EQUALS AND ALTERNATIVES

- 6.0)** Request for equals to the material, equipment or methods of fabrications specified, should be submitted in writing to the contract administrator. These requests should contain pertinent data such as specifications, construction and operational characteristics, cost savings etc. in order to assist the contract administrator in his decision. Approvals for equals will be in the form of addenda. The contract administrator is not obligated to review and approve equals prior to the bid closing time.

GENERAL INFORMATION FOR BIDDERS

- 7.0)** Municipality's quote form and requirement form must be used.

QUOTE FORM: Walk In Rescue Vehicle

- 1.1)** I/we recognize the right of the owner to reject any and all bids for any reason without explanation and that the lowest bid may not be necessarily be accepted.
- 1.2)** I/we understand that my/our bid will be subject to rejection unless it is prepared in strict accordance with all the requirements of the bid documents.
- 1.3)** All pricing shall be in Canadian funds, all applicable taxes included with the exception of HST which will be considered as extra to the cost
- 1.4)** I/we hereby acknowledge receipt of the following addenda ____ to ____ forming part of the bid documents **(If none have been received, write the word none)**
- 1.5)** If a discrepancy is found in the bid form between the unit price and the total amount, the unit prices shall be considered as representing the intention of the bid.

**MUNICIPALITY OF WEST NIPISSING
RFQ WALK IN RESCUE VEHICLE**

**SECTION 2.0
QUOTE FORM**

FORM OF QUOTE

Item A: Walk In Rescue Vehicle

Make _____

Model _____

Year _____ \$ _____

Additional Fees/Tax

_____ \$ _____

_____ \$ _____

_____ \$ _____

HST \$ _____

**Total Price for Delivery to Municipality of West
Nipissing** \$ _____

Delivery Date _____

**MUNICIPALITY OF WEST NIPISSING
RFQ WALK IN RESCUE VEHICLE**

**SECTION 2.0
QUOTE FORM**

Signatures:

Vendor full business name:

Vendor full business mailing address:

Phone No: _____ Fax No: _____

Email: _____

Signature: _____

I have the authority to bind this company/corporation

NAME: _____ (Please Print)

TITLE: _____ (Please Print)

Dated at _____ this _____ day of _____, 2026

CORPORATE SEAL:

MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE				NOTES
		Yes	No	
GENERAL				
1. CERTIFICATIONS				
1.1.	<p>The Vehicle supplied shall meet or exceed the requirements of the following standards and requirements:</p> <ul style="list-style-type: none"> Ministry of Transportation of Ontario standards as set out in the <i>"Highway Traffic Act and Regulations"</i>. The latest applicable S.A.E. (Society of Automotive Engineers) and UL (Underwriter Laboratory) standards and regulations. O.S.H.A. (Occupational Safety and Health Administration) recommended practices. The Ontario <i>Occupational Health and Safety Act</i> (OHSA). <p>The vehicle shall meet all requirements of U.L.C. S515-13 for special service vehicle, Canadian Motor Vehicle safety standards (latest Edition), Canadian Standards Association C.S.A. C225-176, Society of Automotive Engineers S.A.E J343C-1975, American National Standards Institute ANSI, and Occupational Safety and Health Acts including all amendments, Welding Bureau of Canada CWB W59- 1989 W59 2-M1991 W47.1 S-M1989 W47.2 M-1987 (including all amendments), Ontario Highway Traffic Act, NFPA 1900- Most Current Edition (where indicated).</p> <p>All other applicable regulations pertaining to the supply and intended use of the equipment stated.</p> <p>The specified Vehicle(s) and/or equipment must comply with all requirements of the Canada <i>Motor Vehicle Safety Act</i> and its regulations (See CMVSS section below).</p>			
2. CERTIFICATIONS – CANADA MOTOR VEHICLE(S) SAFETY STANDARD (CMVSS)				
2.1.	<p>The specified Vehicle(s) (Apparatus) and Equipment must comply with all requirements of the Canada <i>Motor Vehicle(s) Safety Act</i> (CMVSS) and its regulations including, but not limited to:</p> <p>a) A compliance label on each Vehicle(s) (Apparatus) containing all required information including, but not limited to:</p> <ul style="list-style-type: none"> Gross Vehicle(s) axle ratings for each axle, which shall not be less than the load-carrying capacity of a single axle system, as measured at the tire-ground interfaces. 			

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		Yes	No	
	<ul style="list-style-type: none"> Gross Vehicle(s) weight ratings, which shall not be less than the loaded weight of a single completed Vehicle. Complete Vehicle(s) apparatus documents with the required information from all stages of manufacture; and, All information labels from all stages of manufacture. 			
2.2.	The specified vehicle (apparatus) and equipment must comply with all requirements of the National Fire protection Association (NFPA) standard – Standard for Automotive Fire Apparatus – Most current edition			
3. NATIONAL SAFETY MARK (NSM)				
3.1.	<p>If applicable, the company involved in the initial, intermediate and final stages of manufacture of the Vehicle(s) and authorized by the Minister shall apply a “National Safety Mark” and a compliance label prior to the delivery of the completed Vehicle(s).</p> <p>The compliance label on each Vehicle containing all required information including, but not limited to:</p> <ul style="list-style-type: none"> Requirement(s) related to the National Safety Mark (NSM). Gross vehicle axle ratings for each axle, which shall not be less than the load- carrying capacity. 			
3.2.	The final stage Manufacturer must be authorized by Transport Canada to apply the NSM label.			
4. PARTS AND SERVICE MANUALS				
4.1.	One (1) operators’ manual, in English, plus one (1) electronic file (USB drive) are required covering the operation and parts of the complete vehicle shall be provided with the unit on delivery.			
4.2.	Manufacturer’s warranty literature should be provided with the bid submission.			
4.3.	<p>One (1) complete hard copy 11” X 17” plus one (1) electronic file (USB drive) as-built wiring diagrams for the complete vehicle are required at delivery.</p> <p>Wiring diagrams must be in accordance with NFPA regulations. Wiring diagrams should identify the color and numbering on the wiring.</p>			
4.4.	One (1) chassis maintenance manual containing service information shall be provided with the unit on delivery.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
5. CONTACT INFORMATION FOR SERVICE FACILITY				
5.1.	The service facility shall be a 24/7 service center where a technician can be reached at any time of day for support or service call.			
5.2.	For warranty repairs, the facilities, or portions thereof, as identified, shall be dedicated to the service and maintenance of the type of Vehicle(s) and/or equipment being offered. The Fire Department reserves the right at any time prior to contract award and/or during the contract period to inspect the Contractor's, Service Provider's and/or Subcontractor's Service Facilities identified. The Fire Department shall provide twenty-four (24) hours prior notice for an inspection. The Fire Department shall verify that the Contractor's premise has reasonable levels of trained personnel, documentation, licensing, and equipment relevant to the work being maintained to support the requirements of the contract.			
5.3.	The service provider shall have EVT certified technician on staff.			
5.4.	The service provider shall have 310T license mechanic on staff.			
6. DECALS/SIGNAGE				
6.1.	Vehicle(s) signage shall be bilingual (English/French) or universal symbol (use of graphic symbols as defined in SAE 1362 is acceptable), where applicable.			
7. GENERAL WARRANTY				
7.1.	The warranty shall be required to for the complete vehicle, 100% parts and labor for a minimum of two (2) years, including pickup and delivery.			
7.2.	For clarification purposes, minor warranty repairs will include, but not be limited to; bulb, belt, and hose replacements etc.			
7.3.	The warranty will be based on years and shall include all ancillary equipment included and installed on the unit upon acceptance by the Fire Department.			
7.4.	The intent of the wording of the minimum warranties referenced in the respective sections shall include all parts and labour on the complete component for the duration specified. For example: Engine shall include all ancillary attachments to the engine such as wiring harnesses, alternators, injectors, injection pumps, etc. The complete engine, not just the			

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		Yes	No	
	internal components of the engine. This would not include oil filters, belts, tires, brakes, pads.			
7.5.	In the event of a dispute between the Fire Department and the manufacturer concerning the component in question, the component shall be forwarded to the Original Equipment Manufacturer for determination of failure. Should it be deemed to have failed because of negligence or abuse, the cost of the component will be borne by the Fire Department, otherwise the cost will be borne by the Contractor. This would apply to all ancillary attachments to all components as referenced.			
8. PAINT WARRANTY				
8.1.	The cab and chassis shall be covered by a limited manufacturer paint warranty which shall be in effect for ten (10) years from the first owner's date of purchase or in service or the first 100,000 actual kilometers, whichever occurs first.			
9. WARRANTY AUTHORIZATION AND RESPONSIBILITY				
9.1.	If the Vehicle(s) becomes immobile during the warranty period due to the failure of a warrantable component, the Contractor shall be responsible for the towing and/or float charges to transport the Vehicle(s) to the Contractor's facility and the Contractor shall return the Vehicle(s) to the Fire Department facility all at the Contractor's sole expense, risk and responsibility.			
9.2.	Where applicable, if the manufacturer provides a longer warranty period or a warranty that is more extensive in its nature, then the provisions of such manufacturer's warranty shall apply.			
9.3.	The warranty period shall commence from the "in-service date" which is the date that the vehicle(s)/material is delivered and approved by the Fire Department.			
9.4.	Labour for the removal or installation of warranted parts, or components and any associated shipping fees will be the sole responsibility of the contractor.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
10. SPECIFICATIONS OVERVIEW				
10.1.	The vehicle and its components shall be designed to operate in Canadian climate weather conditions (-40 to +40 degrees Celsius.) As winter conditions are very corrosive from the use of salt preventive measures shall be incorporated in its design and equipment to address the problem of corrosion and galvanic reaction.			
10.2.	In the event of a conflict between the text of this document and the references cited herein, the text of the document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been indicated.			
10.3.	Any error or omission in the specifications shall be immediately reported to the purchaser for correction.			
10.4.	Where these specifications list only the major significant details of the units(s) or equipment required, it is the bidder’s responsibility to provide a unit or the equipment fully equipped for its intended use, to provide dependable and efficient service and performance.			
10.5.	The Supplier shall assume complete and overall responsibility for design, implementation of design and satisfactory operation for the completely new vehicle/equipment that meet this specification and its sub-systems.			
10.6.	<p>The company shall be responsible for all costs of meetings and inspections at the manufacturer’s location. There will be two (2) members of the fire department present for each meeting or inspection required. A minimum of five (5) business day’s notification is required prior to each inspection. All meetings to be scheduled during the afternoon, between the hours of 1:00pm to 4:00pm.</p> <p>1. Factory pre-construction meeting and facilities tour 2. Chassis inspection 3. Pre-paint inspection 4. Factory final inspection*</p> <p>Factory meetings and inspections denote the location where the apparatus is built. This is required to ensure that all requirements, changes, and other items deemed necessary by the fire department are carried out in the quickest fashion causing minimum delays.</p>			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
10.7.	Concurrence by the Bidder to any specification requirement contained within this Request for Tender shall take precedence over any documentation accompanying the bid submission.			
11. INSURANCE				
11.1.	The Contractor shall provide and maintain, at its sole expense, during the term of the contract, the following policies of insurance			
11.2.	<p>The Contractor shall provide and maintain during the term of the contract Garage Automobile Liability to include:</p> <ul style="list-style-type: none"> • Section 1 Third Party Liability - subject to limits of not less than \$5,000,000 inclusive per occurrence for bodily injury, death and damage to property including loss of use. • Section 2 Accident Benefits – to be included as per Statutory Limits. • Section 3 Uninsured Automobile Coverage – To be included. • Section 6 Liability for Damage to a Customer's Automobile while in the Care, Custody or Control of the Insured. • Section 6.1 Collision or Upset Limit applicable to any one customer's automobile - \$750,000. • OEF #77 Comprehensive coverage subject to limits of not less than \$1,000,000. • OEF #81 Garage Family Protection Endorsement 			
11.3.	The liability insurance policies shall contain an endorsement to provide the Fire Department with thirty (30) days prior written notice of cancellation.			
11.4.	Evidence of insurance satisfactory to the Fire Department shall be provided prior to the commencement of work.			
12. GENERAL, CONSTRUCTION AND DESIGN				
12.1.	The Bidder confirms and guarantees the apparatus delivered will be of the highest engineering standard and as such confirms and guarantees that the apparatus will be able to maintain their readability as per the NFPA 1900 Most Current Edition regulations in all emergency conditions over their projected twenty (20) year life span.			
12.2.	The design of the equipment shall be in accordance with the best engineering practices. The equipment design and accessory installation shall permit accessibility for use, maintenance, and service. All components and assemblies			

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		Yes	No	
	shall be free of hazardous protrusions, sharp edges, cracks, or other elements, which might cause injury to personnel or equipment.			
12.3.	The Bidder confirms that the Vehicle Stability (of the apparatus being built) meets all NFPA 1900 Most Current Edition Regulations.			
12.4.	All oil, hydraulic, and air tubing lines and electrical wiring shall be in protective positions properly attached to the frame or body structure and shall have protective loom or grommets at each point where they pass through structural members, except where a through-frame connector is necessary.			
12.5.	Parts and components should be located or positioned for rapid and simple inspection and recognition of excessive wear or potential failure. Whenever functional layout of operating components determines that physical or visual interference between items cannot be avoided, the item predicted to require the most maintenance shall be located for best accessibility.			
12.6.	Cover plates, which must be removed for component adjustment or part removal, should be equipped with quick-disconnect fastenings or hinged panels.			
12.7.	Drains, filler plugs, grease fittings, hydraulic lines, bleeders, and check points for all components should be located so that they are readily accessible and do not require special tools for proper servicing. Design practices should minimize the number of tools required for maintenance.			
12.8.	Materials shall conform to the specifications listed herein. When not specifically listed, materials shall be of the best quality for the purpose of commercial practice. Materials shall be free of all defects and imperfections that might affect the serviceability of finished product.			
12.9.	All nameplates and instruction plates shall have the information engraved, stamped or etched thereon. Nameplates shall show make, model, serial numbers, and other such data necessary to positively identify the item and all fluid levels for the vehicle. All nameplates shall be mounted in a conspicuous place; all warning and caution labels will be bilingual (English and French).			
12.10.	The manufacturing process, including quality control, shall be consistent with present industry standards. All equipment, material, and articles required under this specification are to be new or fabricated from new materials produced from recovered materials. The term "Recovered			

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		Yes	No	
	<p>Materials" means materials, which have been collected or recovered from solid waste and reprocessed to become a source of raw materials, as opposed to virgin raw materials. None of the above shall be interpreted to mean that the use of used or rebuilt products is allowed under this document.</p> <p>The term "Heavy Duty", as used to describe an item, shall mean more than the standard, quantity, quality, or capacity and represents the best, most durable, strongest, etc., part, component, system, etc., that is available. The Municipality of West Nipissing or their designate shall be the sole judge of quality, construction and stability of the apparatus and equipment being offered.</p>			
12.11.	Parts, equipment, and assemblies, which have been repaired or modified to overcome deficiencies, shall not be furnished without the approval of the purchaser. Welded, and bolted, construction shall be utilized in accordance with the highest standards of the industry. (NO POP RIVETS). Component parts and units shall be manufactured with proper fits, clearances, and uniformity. General appearance of the vehicle shall not show any evidence of poor quality of work.			
12.12.	Unless protected against electrolytic corrosion, dissimilar metals shall not be used in intimate contact with each other.			
12.13.	The height of the fully loaded vehicle's center of gravity shall not exceed the chassis manufacturer's maximum limit and shall be identified on submitted drawings.			
12.14.	<p>The front and rear weight distribution of the fully loaded vehicle as defined in shall be within the limits set by the chassis manufacturer. The front axle loads shall not be less than the minimum axle loads specified by the chassis manufacturer, under full load and all other loading conditions.</p> <p>The actual loaded weight on any axle shall not exceed the maximum allowable in the Province of Ontario.</p>			
13. DELIVERY				
13.1.	Acceptance of the delivered apparatus and equipment will be made upon satisfactory completion of all required tests, receipt of all specified equipment and documentation and commissioning unit into service.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
13.2.	<p>The following items shall be furnished upon delivery of the vehicle:</p> <ul style="list-style-type: none"> • Certification that the optical warning system has been supplied and installed in compliance with NFPA 1900-Most Current edition • A weight ticket from a certified scale showing the loading on the front axle, rear axle, and overall vehicle with water tank full but without hose, equipment or personnel 			
13.3.	An electrical load report on the proposed apparatus showing all electrical loads in the response and on-scene modes.			
13.4.	Electrical schematics detailing the apparatus electrical system and components will be supplied with the apparatus.			
13.5.	Apparatus shall be supplied with the E.S.A (Electrical Safety Code) certifications and inspections.			
13.6.	Chassis line setting ticket shall be supplied.			
14. TRAINING				
14.1.	<p>The delivery shall include four (4) hours of apparatus familiarization, at minimum. It shall include vehicle familiarization and operational items only, as requested by the fire department. Topics to be discussed shall be provided by the fire department for a minimum of two (2) weeks in advance in order to allow proper time to create a custom training session. The trainer shall be a body OEM supervisor familiar with all aspects of the apparatus construction.</p> <p>Under no circumstances will firefighting operations, tactics, and procedures be discussed as these are not relevant to fire apparatus manufacturing.</p> <p>The familiarization sessions shall be conducted in groups of four (4) firefighters.</p>			
CHASSIS				
15. VEHICLE PERFORMANCE				
15.1.	The apparatus is expected to operate at elevations less than 2000 ft. (610 m) above sea level. The contractor shall ensure the apparatus will meet all requirements at the maximum specified elevation.			
15.2.	<p>The apparatus, when fully equipped and loaded, shall be capable of the following performance on dry, level, paved roads in good condition:</p> <ul style="list-style-type: none"> • From a standing start the vehicle shall attain a true speed of 55 km/h (35 mph) within 25 sec on a 0 percent grade. 			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
	<ul style="list-style-type: none"> From a steady speed of 24 km/h (15 mph) the vehicle shall accelerate to a true speed of 56 km/h (35 mph) within 30 sec. This shall be accomplished without moving gear selector. The vehicle shall attain a maximum top speed of 105 km/h (65 mph). The apparatus fully loaded shall be able to maintain a speed of at least 32 km/h (20 mph) on a 6 percent grade. The service brakes shall be capable of bringing the fully loaded apparatus to a complete stop from a speed of 32 km/h (20 mph) in a distance not exceeding 10.7 m (35 ft.). 			
15.3.	The sound level within the cab shall not exceed 85 dba with the vehicle travelling at a steady speed with no audible warning devices sounding as regulated by the Ontario workplace's health and safety act.			
15.4.	The parking brakes shall be capable of positively holding the fully loaded apparatus on a 20% grade.			
15.5.	The minimum angle of approach and departure shall not be less than 11 degrees.			
16. CHASSIS SPECIFICATIONS				
16.1.	The cab and chassis shall be a model 2026 or newer.			
16.2.	It shall be a Freightliner M2 106 two (2) door chassis.			
16.3.	The cab and chassis shall meet or exceed all requirements of U.L. or U.L.C., NFPA and other applicable Canadian and Quebec standards.			
16.4.	It shall have a front set back axle.			
16.5.	The wheelbase shall be approximately 200".			
16.6.	The maximum length of the apparatus shall be approximately 420"			
16.7.	The maximum overall height of the apparatus shall be approximately 125" inches from the ground to the highest point on the apparatus body.			
16.8.	The total front axle G.A.W.R. shall be a minimum of 14,600 lbs.			
16.9.	The total rear axle G.A.W.R. shall be a minimum of 27,000 lbs.			
16.10.	The total chassis G.V.W.R. shall be a minimum of 41,600 lbs.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
16.11.	The G.A.W.R. and G.V.W.R. of the chassis and all related components shall exceed the weight of the fully equipped apparatus by approximately 10%.			
16.12.	A final manufacturer's certification of the G.V.W.R., along with a certification of the G.A.W.R., shall be supplied on a nameplate affixed to the vehicle.			
16.13.	The difference in weight on the end of each axle, from side to side, when the vehicle is fully loaded and equipped shall not exceed 5 percent.			
16.14.	The actual loaded weight of the vehicle shall not exceed 90% of the G.V.W.R of the front and rear axle ratings.			
17. FRAME – BUMPER				
17.1.	The frame shall be channel type, of sufficient dimension to handle the rigors of emergency service. The frames rails shall be one (1) continuous piece with no splices and for all purposes are considered a part of the frame/chassis system along with the cross members and shall not be cut, pierced, modified or weakened in any way.			
17.2.	The top frame rails shall be clear from all bolt heads or obstructions. Outside of frame rails and rear of cab shall be clear of any obstructions (air, fuel tanks etc.).			
17.3.	Shall be equipped with a three-piece 14-inch painted steel bumper with collapsible ends.			
17.4.	Two (2) heavy duty painted tow hooks or eyes shall be installed under front bumper. Tow hooks or eyes shall be bolted directly to chassis frame members.			
18. AXLES AND SUSPENSION				
18.1.	Front suspension shall be taper leaf.			
18.2.	The front axle shall be designed with a minimum of 14,600 lbs. G.A.W.R capacity.			
18.3.	Front springs shall meet or exceed the minimum 14,600 lbs. capacity of the front axle.			
18.4.	Front suspension shall be equipped with shock absorbers.			
18.5.	Shall be equipped with oil lubricated front wheel bearings with visual oil level indicators.			
18.6.	The rear axle shall be a single axle, minimum 27,000 lbs. capacity G.A.W.R and shall include single reduction and oil lubricated rear wheel bearings.			

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		Yes	No	
18.7.	Rear axle ratio shall be 6.14, capable of reaching top speed as required by N.F.P.A. 1900- Most Current edition.			
18.8.	Rear suspension capacity shall be designed to match or exceed the rated axle loading of the completed vehicle. Flat leaf spring rear suspension with helper and radius rod for fire/emergency service. Fore/AFT control rods.			
18.9.	There shall be a driver controlled differential lock rear valve for single drive axle. It shall include a buzzer and blinking lamp with differential lock switch.			
19. BRAKE SYSTEM				
19.1.	Front brakes shall be Meritor 16.5X5 Q+ cast spider heavy duty cam, double anchor, fabricated shoes with automatic slack adjusters with stainless steel clevis pins. Fire and emergency severe service non-asbestos front lining.			
19.2.	Rear brakes shall be Meritor 16.5 X 7 P cast spider cam, double anchor, cast shoes with automatic slack adjusters with stainless steel clevis pins. Fire and emergency severe service non-asbestos rear brake lining.			
19.3.	Drive axle spring brake chambers shall be 36/36 Bendix EverSure Long Stroke.			
19.4.	Brake dust shields shall be installed on the front and rear axles.			
19.5.	A Wabco 4S/4M Anti-lock brake system with traction control, with ATC Off-Road switch mounted in dash will be provided.			
19.6.	The air compressor shall be 18.7 CFM minimum, capable of rapid air pressure build up, as required by N.F.P.A. 1900- Most Current edition.			
19.7.	All air reservoirs will be equipped with manual cable operated drain valves. Cables to be routed to be easily accessible by operator/driver. All drain cables must be equipped with labels attached to the rub railings to identify the air tank that is being drained.			
19.8.	A Bendix AD-9 brake line air dryer with heater shall be mounted inside left rail, back of cab.			
20. AUXILIARY BRAKING SYSTEM				
20.1.	Shall have a Detroit engine integral brake with variable geometry turbo with on/off dash switch.			

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		Yes	No	
20.2.	The Detroit exhaust brake shall interface with the anti-lock brake system and deactivate automatically if wheel lock- up is detected.			
20.3.	The brake lights shall activate upon auxiliary brake activation.			
21. TIRES AND WHEELS				
21.1.	The tires and wheels shall meet the apparatus load range.			
21.2.	Front tires shall be MICHELIN XZU-S2 315/80R22.5 20 PLY radial tires.			
21.3.	Rear tires shall be MICHELIN XDN2 GRIP 315/80R22.5 20 Ply Radials.			
21.4.	Front wheels shall be Alcoa Ultra One 89U64X 22.5X9.00 10-Hub Pilot 5.99 inset Aluminum. Polished disc side front wheels with Dura-Bright finish.			
21.5.	Rear wheels shall be Alcoa Ultra One 89U64X 22.5X9.00 10-Hub Pilot 5.99 inset Aluminum. Polished outer (Dished Side) rear wheels with outer only Dura-Bright finish.			
22. POWERTRAIN				
22.1.	The vehicle shall be equipped with a Detroit DD8 7.7L 6 CYL DUAL STAGE 375 HP @ 2200 RPM, 2600 GOV RPM, 1050 LB-FT @ 1200 RPM RV/FIRE/EM.			
22.2.	Side of hood air intake with NFPA compliant ember screen and fire-retardant Donaldson air cleaner.			
22.3.	The cooling system shall have sufficient capacity to meet extended periods of full load operation in local ambient temperatures and maintain the engine at a temperature not to exceed the maximum or minimum operating temperature as recommended by the engine manufacturer			
22.4.	The radiator shall be of a design and size recommended by the engine and transmission manufacturers for the intended application.			
22.5.	Coolant shall be an extended life coolant type with protection to minus -50 degrees °C.			
22.6.	Coolant hoses shall be Gates Blue Stripe High-Temperature hose or equivalent. Coolant hoses shall be installed using constant tension hose clamps.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
22.7.	The engine cooling system shall incorporate a Horton Drivemaster Advantage ON/OFF fan drive. The automatic fan control will include an ON/OFF dash switch and indicator light.			
22.8.	The fuel system shall be compatible with the engine manufacturer's recommendations for flow and pressure.			
22.9.	The fuel system components shall be protected from exhaust heat and mechanical damage during the normal use of the apparatus.			
22.10.	A single short rectangular aluminum fuel tank with a minimum capacity of 189 Liter (50 US gallons) shall be mounted on the left side under cab.			
22.11.	A diesel exhaust fluid tank of 6 gallons shall be frame mounted left side under cab.			
22.12.	A heated fuel/water separator, including a primer pump and water in fuel sensor shall be installed.			
22.13.	The vehicle shall be equipped with an Allison model 3000EVS automatic transmission.			
22.14.	A transmission temperature gauge shall be supplied on the cab dash with a warning light and/or buzzer for high transmission temperature.			
22.15.	The exhaust system and aftertreatment system shall be installed below the right-hand side steps and meet all applicable noise standards. Heat shields shall be provided to protect any part of the apparatus susceptible to heat damage. The muffler shall be aluminized, and any flex tube used shall be stainless steel. Flex tube will be installed with overlapping clamp type seals.			
22.16.	An engine aftertreatment device, automatic over the road active regeneration and dash mounted single regeneration request/inhibit switch shall be supplied.			
22.17.	The exhaust horizontal tailpipe shall terminate in front of the right rear wheels at 90 degrees and be equipped with a diffuser.			
23. CAB EXTERIOR				
23.1.	The Cab roof shall have reinforcement for roof mounted components.			
23.2.	Front grill shall have a non-removable bug screen mounted behind grill.			
23.3.	The Cab shall include LH and RH exterior grab handles with single rubber insert.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
23.4.	Fiberglass hood shall have a mounted chromed plastic grille and chromed air intake grille. The hood liner will include added firewall and floor heat insulation.			
23.5.	Two (2) GROVER Stutter tone 25" or equivalent air horns shall be hood mounted. Shall include snow shield.			
23.6.	The air horns shall be controlled by a lanyard(s) easily accessible by the driver and officer.			
23.7.	A single electric horn shall be installed controlled by steering wheel center horn pad.			
23.8.	LED headlight assembly and incandescent marker/turn lamp with chrome bezel.			
23.9.	Daytime running lights			
23.10.	LED aerodynamic marker lights.			
23.11.	Rectangular clear LED fog lights mounted under bumper.			
23.12.	Dual west coast bright finish heated mirrors with led lights and LH and RH remote. Door mounted mirrors. LH and RH 8-inch bright finish convex mirrors mounted under primary mirrors			
23.13.	A RH down view mirror shall be installed on the right-hand door.			
23.14.	Composite exterior sun visor.			
23.15.	No rear window.			
23.16.	Tinted door glass LH and RH with tinted operating wing windows.			
23.17.	LH and RH electric powered windows. Passenger switches on door(s)			
23.18.	A one (1) Piece solar green glass windshield.			
23.19.	A two (2) gallon windshield washer reservoir with fluid level indicator shall be frame mounted.			
23.20.	Diamond back anti-slip step plates will be installed on the driver and passenger side of the chassis, replacing the stock chassis builder plates.			
23.21.	All Diamond back step plates and aluminum checker plate coverings will be painted with Polyarmor black paint.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
24. ALTERNATOR AND BATTERY				
24.1.	The alternator shall be a Delco Remy 12-Volts 300 Amp, 40-SI brushless pad alternator with remote battery voltage sense. The alternator output must meet the minimum continuous electrical load requirement on this apparatus.			
24.2.	Two (2) batteries shall have a minimum combined value of 2000 CCA. High cycle12 volt batteries shall be installed. All batteries will be contained within a box and covered to protect them from road spray.			
24.3.	A positive and negative post for jumpstart shall be located near the battery box.			
25. CAB INTERIOR				
25.1.	The interior finish shall be gray.			
25.2.	The inside doors shall be molded plastic door panel without vinyl insert with aluminum kick plate lower door.			
25.3.	Black mats with single insulation.			
25.4.	It shall have a forward roof mounted console with upper storage compartments without netting.			
25.5.	In dash storage bin and two (2) cup holders.			
25.6.	Gray/Charcoal flat dash.			
25.7.	To include heater, defroster, and air conditioner.			
25.8.	Premium insulation option.			
25.9.	Door activated dome/map lights located in the cab roof.			
25.10.	LH and RH electric door locks.			
25.11.	One (1) 12 Volt power supply and one (1) dual 2.1 Amp USB charger in dash.			
25.12.	The driver and passenger seats shall be a H.O. Bostrom Sierra Air-50 high back air suspension seat with adjustable recline, fixed lumbar and NFPA 1900 compliant seat sensor.			
25.13.	Gray and black Durawear fabric seat cover, seat bolster and insert.			
25.14.	The seat belts shall be NFPA 1900 high visibility orange and long enough to fit a firefighter in full PPE.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
25.15.	The steering column shall be equipped with tilt and telescopic steering wheel column.			
25.16.	There shall be a driver and passenger interior sun visors.			
26. CAB INSTRUMENTS AND CONTROLS				
26.1.	There shall be an engine remote interface for remote throttle with park brake interlock. Engine remote interface connector located in engine compartment.			
26.2.	Instrument cluster shall have an engine hour meter, trip meter, turn signal indicators and high beam indicator.			
26.3.	Instrument cluster shall include 2" gauges for oil pressure, engine coolant temperature, transmission oil temperature and fuel level.			
26.4.	Instrument cluster shall include 2" air pressure gauges for primary and secondary.			
26.5.	Instrument cluster shall include a low air pressure indicator light and audible alarm.			
26.6.	Air restriction indicator with graduations shall be mounted in the dash.			
26.7.	Cruise control/fast idle activation will be found in dash cluster options.			
26.8.	A pre-trip lamp inspection smart switch shall be mounted in dash.			
26.9.	A radio AM/FM/WB world tuner with Bluetooth, USB and auxiliary inputs, j1939 shall be dash mounted.			
26.10.	Two (2) radio speakers shall be mounted in the cab.			
26.11.	The AM/FM antenna shall be mounted on forward LH roof.			
26.12.	The alternating flashing (wigwag) headlamp system with dash switch and no park brake interlock shall be installed.			
26.13.	There shall be one (1) valve parking brake system with dash valve control auto neutral and warning indicator.			
26.14.	Master battery disconnect switch mounted outboard driver seat.			
26.15.	Keyed switch shall be provided with chain secured to dash area.			
26.16.	An NFPA vehicle data recorder and seatbelt display shall be installed.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
26.17.	The vehicle shall be equipped with an Electronic Stability Control System.			
26.18.	An electronic back-up alarm that is activated when the vehicle is in reverse shall be installed.			
26.19.	The steering column shall contain the self-cancelling turn signal switch with dimmer, washer/wiper (two speeds with delay) in handle and the hazard switch.			
BODY DESIGN				
27.	GENERAL REQUIREMENTS: Apparatus Body, substructure, and sub-frame			
27.1.	The apparatus body, substructure, and sub-frame shall be designed with sufficient carrying capacity for the weight of the specified equipment to withstand the rigors of emergency service operations typical of a busy urban fire department.			
27.2.	To extend the service life of the vehicle, the body shall be separate and removable from the chassis frame and be able to be reinstalled on a new chassis.			
27.3.	Prior to the construction of this vehicle, various chassis attachments such as battery boxes, air reservoirs, mufflers and tail pipes, filters and other bolt-on frame attachments may be removed and relocated to permit full utilization of the chassis for equipment compartments. The equipment removed shall be relocated as noted in these specifications and/or remounted under the chassis frame or cab.			
27.4.	Fabrication shall be with inert gas continuous feed welders only. The use of stick type welding is not acceptable on body due to heat distortion.			
27.5.	<p>The entire body shall be of welded construction. The use of <i>pop rivets in any portion of the construction of the vehicle will not be acceptable</i>; this includes body sheet metal, inner pans of compartment doors, or any other portions of the body.</p> <p>Stainless steel bolts, nuts, stainless steel sheet metal screws and stainless steel monobolts, shall be used in mounting the exterior trim, hardware, or equipment.</p> <p>Dissimilar metals shall not come in immediate contact with each other to prevent corrosion and galvanic reaction.</p>			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
28. BODY STRUCTURE				
28.1.	The aluminum body shall be designed for fire and rescue service operations. Commercially designed bodies intended for use in other applications are not acceptable due to lower levels of quality, construction, and longevity. The body module shall utilize a fully welded sub-frame, separate from the chassis, incorporated into the welded body under the structure.			
28.2.	The complete body shall be formed and welded, built with 5052H32 marine grade 0.188" (3/16") aluminum, with 0.125" (1/8") non-slip polished aluminum checker plate overlays.			
28.3.	All exterior lower compartments and walls shall have fully welded seams with all upper walls, compartments, and interior dividers having stitch welding every 6" minimum. All welding and sheet metal fabrication shall be completed with the highest degree of quality and precision. All welds and seams shall be caulked and sealed with permanent pliable silicone.			
28.4.	Strict attention shall be given to the elimination of hazards to personnel and equipment, such as rough edges, sharp corners, or protruding nuts and bolts. All exposed welded corners on aluminum checker plate shall be polished to a bright finish. All exposed sharp corners shall be radiused and deburred. All structural seams shall be fully seam welded. All other body seams and shall be welded on 6" centers and then silicone caulked prior to painting.			
28.5.	Due to the engineered combination of specifically chosen materials, no dissimilar metals shall be used in the body and its supporting substructure without being separated by a sufficient corrosion and electrolysis inhibitor. All holes shall be drilled prior to painting. Any holes drilled after painting which break the paint seal shall be treated as dissimilar metal and shall be suitably separated. This shall consist of isolation pads, ECK, and other structural adhesives.			
28.6.	The body shall be completely modular in design, thereby allowing its transfer to a new chassis without cutting or welding in the event of an accident or the replacement of the chassis. The apparatus body shall be form built and building a body directly on the chassis shall not be permitted.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
28.7.	The compartment floors shall be 0.188" aluminum and shall be sweep out construction design, which shall permit easy cleaning of the compartments. The outer flange of the compartment floors shall be fabricated to form a mounting area of exterior rub rails. This flange shall be a minimum of 3.5" vertical dimension, full width of the compartment floor.			
28.8.	The front entrance to the compartment shall have a 2" deep x 1" high recess break for mounting compartment doors.			
28.9.	Each compartment shall include one (1) 4" circular vent with screen.			
28.10.	Each compartment shall be finished with full height Unistrut channel. All full-depth compartments shall include two (2) channels on the left side wall and two (2) channels on the right-side wall. All half depth compartments shall include one (1) channel on the left side wall and one (1) on the right-side wall.			
28.11.	Each compartment shall include a drain hole in the left and right rear corners to allow wash-out and water drainage.			
28.12.	The front face of the body shall be finished with a 0.125" aluminum checker plate overlay. The rear of the body shall be smooth aluminum and painted. Reflective Chevrons will be installed to meet ULC and NFPA requirements.			
28.13.	The body shall be mounted to the chassis frame with floating spring attachment mounts. These mounts shall allow the chassis to twist and bend independently from the body and shall prolong the structural life of the body. These mounts shall be at a minimum of six (6) points along the chassis frame rails except between the suspension, as per the chassis manufacturer's recommendations.			
28.14.	All mounts to the chassis frame shall have polypropylene block isolators to permit movement of the chassis frame under the apparatus body.			
28.15.	The body shall be grounded to the chassis frame with a minimum of four (4) body ground straps mounted metal to metal contact and coated with dielectric grease.			
29.	ROOF			
29.1.	The complete roof shall be formed and welded, built with 0.188" (3/16") non-slip NFPA compliant polished aluminum checker plate overlays.			
29.2.	The framing supports for the roof shall be a minimum of 3/16" thick aluminum at a minimum of 16" center.			
29.3.	No welded seems or metal fasteners to be used.			

MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE				NOTES
		Yes	No	
30. REAR WHEEL WELLS				
30.1.	The outer wheel well fenders and wheel well liners shall be integral to the compartments and constructed of 0.188" smooth aluminum. Both shall be painted red and the wheel well liners covered with black gravel guard.			
31. EXTERIOR LEFT SIDE BODY COMPARTMENTS				
31.1.	Compartment L1 The compartment dimensions shall be approximately 55" wide by 18" high by 27" deep. This compartment will be enclosed with a slam door. <ul style="list-style-type: none">One (1) battery box.One (1) 3000-Watt inverter			
31.2.	Compartment L2 The compartment dimensions shall be approximately 60" wide by 60" high by 27" deep. This compartment will be enclosed with an Amdor rollup door. <ul style="list-style-type: none">Two (2) adjustable shelves.Thirty (30) air cylinder compartments.			
31.3.	Compartment L3 The compartment dimensions shall be 65" wide by 28" high by 27" deep. This compartment will be enclosed with an Amdor rollup door.			
31.4.	Compartment L4 The compartment dimensions shall be 48" wide by 60" high by 27" deep. This compartment will be enclosed with an Amdor rollup door. <ul style="list-style-type: none">Two (2) adjustable shelves.One (1) sliding vertical tool board.			
32. EXTERIOR RIGHT SIDE BODY COMPARTMENTS				
32.1.	Compartment R1 The compartment dimensions shall be 28" wide by 22"/66" high by 27"/16" deep. This compartment will be enclosed with a slam door. <ul style="list-style-type: none">Storage for Stokes Rescue basketStorage for pop up tents			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
32.2.	Compartment R2 The compartment dimensions shall be 47" wide by 51" high by 27" deep. This compartment will be enclosed with an Amdor rollup door. <ul style="list-style-type: none"> One (1) adjustable shelf. One (1) sliding tray. 			
32.3.	Compartment R3 The compartment dimensions shall be 65" wide by 28" high by 27" deep. This compartment will be enclosed with an Amdor rollup door. <ul style="list-style-type: none"> One (1) swing out Battleboard with back panel. 			
32.4.	Compartment R4 The compartment dimensions shall be 48" wide by 60" high by 27" deep. This compartment will be enclosed with an Amdor rollup door. <ul style="list-style-type: none"> Two (2) adjustable shelves. One (1) sliding tray. 			
33. COMPARTMENTS DOORS – ROLL-UP				
33.1.	Compartments shall be equipped with Amdor brand roll-up anodized aluminum doors complete with the following features: <ul style="list-style-type: none"> Amdor Luma Bar LED strip lighting, integral to the door frame on both sides of the door 1" aluminum double wall slats with continuous ball & socket hinge joint designed to prevent water ingress and weather tight recessed dual durometer seals double wall reinforced bottom panel with stainless steel lift bar latching system bottom panel flange with cut-outs for ease of access with gloved hands, reusable slat shoes with positive snap-lock securement smooth interior door curtain to prevent equipment hang-ups one-piece aluminum door track / side frame top gutter with non-marring seal non-marring recessed side seals with UV stabilizers 			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
	<p>to prevent warping</p> <ul style="list-style-type: none"> • dual leg bottom seal, with all wear component material to be Type 6 Nylon • A door ajar switch system shall be provided by Amdor and shall include magnetic proximity-based components. The switch device shall be a military grade contact switch capable of meeting MIL-S-8805 which can only be activated through positive engagement of the lift bar. The door striker will include support beneath the lift bar to prevent door curtain bounce. 			
34. PAN STYLE BOX DOOR				
34.1.	<p>The compartment with pan style box door shall be built from 1/8" 5052 Marine grade aluminum.</p> <ul style="list-style-type: none"> • Quarter turn Whale Tale latch mechanism will be installed for opening and closing doors. • Weather strip foam seal will be installed on door jam. • Stainless steel piano hinge will be installed on the bottom of the door. • Travel restraint chains will be installed at both ends of the doors. <p>A door ajar switch system shall be provided and shall include magnetic proximity-based components. The switch device shall be a military grade contact switch capable of meeting MIL-S-8805 which can only be activated through positive engagement of the door.</p>			
35. COMPARTMENTS SHELVING				
35.1.	There shall be adjustable shelves provided, constructed of 0.188" 5052 H32 marine grade aluminum. The shelves shall have a 2" edge on the front of the shelf and a 2" edge on the rear underside of the shelf.			
35.2.	The shelves shall include heavy-duty mounts and be capable of a minimum of 250-pound load capacity.			
35.3.	All shelves shall be painted grey Zolatone.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
36. ROLL-OUT TRAYS				
36.1.	If required, there shall roll-out trays provided, constructed of 0.188" 5052 H32 marine grade aluminum. The trays shall have 2" edges on all sides of the shelf, with fully welded corners. The roll-out trays shall have a 500 lbs. capacity.			
36.2.	All trays shall be painted with grey Zolatone.			
36.3.	All trays shall include red reflective tape on all sections of the tray that protrude from the side of the apparatus body			
37. TAILBOARD				
37.1.	A bolt on DIAMOND BACK tailboard shall be installed on the rear of the apparatus spaced out from the body to provide drainage. The step shall be bolted to the body frame and finished with safety grip or similar material to provide a durable anti-slip surface. The tailboard shall extend across the full width of the vehicle and shall extend out from the body sufficiently for standing while loading the hose			
38. HANDRAILS				
38.1.	Aluminum handrails with knurled finish shall be installed on the rear of the apparatus to provide for three (3) point contact when climbing or mounting the tailboard and entering the body. Handrail locations must be approved by the Fire Department of Cantley.			
39. RUB RAIL				
39.1.	Aluminum "C" channel rub rails shall be installed along the full length of the body. The rub rails shall be bolted on the exterior edge of the compartment floors, spaced from the body.			
39.2.	The rub rails shall extend a minimum of 1" from compartment doors.			
40. TOW EYES				
40.1.	Two (2) screw-in drop forged tow eyes or brackets shall be installed on the apparatus. Tow eyes or brackets shall be secured directly to the rear of chassis frame.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
41. REAR WHEEL FENDERETTES				
41.1.	Polished aluminum fenderettes shall be bolted at each rear wheel opening. The fenderettes shall be positioned outside of the wheel well panel to cover any tire area that extends past the body.			
42. COMPARTMENT FLOORING				
42.1.	There shall be black PVC Turtle Tile protective flooring provided. The following locations shall include the flooring: <ul style="list-style-type: none">All adjustable shelvesAll roll-out trays			
43. MUD FLAPS				
43.1.	Mud flaps shall be installed behind the front and rear wheels to protect the body and components from road spray.			
44. LICENSE PLATE HOLDER				
44.1.	There shall be one (1) Cast Products Inc. LP-0005-1-A polished cast aluminum license plate holder with LED light mounted at the rear of the apparatus.			
INTERIOR REAR WALK IN AREA				
45. WINDOWS				
45.1.	There shall be one (1) sliding window 36" wide x 24" high installed on the left side of the body. The windows shall have tinted automotive type safety glass mounted in an extruded aluminum frame, mesh screen inserts, and the frames shall have a black anodized finish.			
46. SIDE ENTRY DOOR				
46.1.	Located on the passenger side of the apparatus there shall be a side entry door used for access to the interior rear walk in area. The door opening shall be approximately 36” wide x 86” high.			
46.2.	Construction of the rear entry door shall be with 3/16" aluminum exterior smooth plate, the interior door pan shall be constructed from 3/16" aluminum with formed reinforcements.			
46.3.	The doors shall be hung on full height 14-gauge stainless steel hinge, with a 1/4" stainless steel pin.			
46.4.	The latch mechanism shall include a “D-ring” type handle.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
46.5.	The door latch shall be a double catch two (2) point safety slam latch recessed inside the double panel door with strike plate mounted top and bottom of door frame.			
46.6.	The steps used to access to the interior body compartment shall be designed/constructed so that all steps are equal distance apart and low enough to allow for easy entry and climbing.			
46.7.	Sufficient lighting shall be provided to light up each step.			
46.8.	There shall be handrails provided on the inside of the door to safely access the interior. The handrail(s) shall be angled for optimum use when entering or exiting the walk-in portion of the body.			
46.9.	There shall be two (2) non-sliding windows approximately 16" wide x 20" high, installed in the side entrance door. The windows shall have tinted automotive type safety glass mounted in an extruded aluminum frame. The frame shall have a black anodized finish.			
47. REAR ENTRY DOOR				
47.1.	Located on the rear of the apparatus there shall be a rear entry door used for access to the interior rear walk in area. The door opening shall be approximately 36" wide x 86" high.			
47.2.	Construction of the rear entry door shall be with 3/16" aluminum exterior smooth plate, the interior door pan shall be constructed from 3/16" aluminum with formed reinforcements.			
47.3.	The doors shall be hung on full height 14-gauge stainless steel hinge, with a 1/4" stainless steel pin.			
47.4.	The latch mechanism shall include a "D-ring" type handle.			
47.5.	The door latch shall be a double catch two (2) point safety slam latch recessed inside the double panel door with strike plate mounted top and bottom of door frame.			
47.6.	The steps used to access to the interior body compartment through the rear entry door shall be designed/constructed so that all steps are equal distance apart and low enough to allow for easy entry and climbing. The top step will have an access door to the ladder and pike pole storage.			
47.7.	Sufficient lighting shall be provided to light up each step.			
47.8.	There shall be handrails provided on the inside of the door to safely access the interior. The handrail(s) shall be angled for optimum use when entering or exiting the walk-in portion of the body.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
47.9.	There shall be one (1) non-sliding window approximately 16" wide x 20" high, installed in the rear entrance door. The window shall have tinted automotive type safety glass mounted in an extruded aluminum frame. The frame shall have a black anodized finish.			
48. INTERIOR FINISH AND DIMENSIONS				
48.1.	Interior flooring shall be finished with anti-slip knurled checker plate aluminum.			
48.2.	The walls and ceiling shall be insulated with urethane spray foam.			
48.3.	All interior side walls shall be covered with fibreglass reinforced panels with a smooth white finish.			
48.4.	The interior ceiling shall be covered with fibreglass reinforced panels with a smooth white finish.			
48.5.	All angles and corners shall be properly trimmed for aesthetic purposes. All joints will be covered with aluminum extrusions.			
48.6.	Adequate lighting shall be installed inside the body.			
48.7.	The overall interior height shall be approximately 82"			
48.8.	The overall interior length shall be approximately 254"			
48.9.	The overall interior width shall be approximately 90".			
49. INTERIOR COMPARTMENTATION				
49.1.	There shall be eight (8) cubbies 18" wide x 40" high with a shelf at 15" off compartment floor for bunker storage on the left side at the rear.			
49.2.	There shall be one (1) 35" wide x 57" high compartment with two (2) adjustable shelves installed on the with sliding clear doors on the left side at front.			
49.3.	There shall be one (1) 120V apartment style refrigerator supplied and installed 36" off the floor on the left side at the front.			
49.4.	There shall be three (3) storage compartments 36" wide x 40" high with one (1) shelf and sliding clear doors on the right side at the rear.			
49.5.	There shall be two (2) slide out tool boards with eight (8) SCBA brackets installed on the right side at front.			
49.6.	There shall be one (1) 36" wide x 20" high overhead storage compartment with clear sliding doors above the workstation desk.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
49.7.	There shall be one (1) L-shaped desk 36" wide x 12" / 24" deep with aluminum top. Top will have a stopper lip and be painted with Zolatone.			
49.8.	There shall be four (4) storage compartment, one (1) under each of the rear facing seats. There will be one (1) pull out locking tray in each.			
49.9.	All compartments shall be painted with grey Zolatone.			
50. HEATER / AC				
50.1.	There shall be one (1) unit supplying heating and cooling. The unit will supply approximately 45,000 BTU of heat and 35,000 BTU of cooling. It will be ceiling mounted.			
ELECTRICAL				
51. ELECTRICAL SYSTEMS				
51.1.	Shall be a 12-volt electrical system (NFPA 1900- Most Current Edition Standards.)			
51.2.	All wiring shall be of the design type GXL and size appropriate for the anticipated circuit loads.			
51.3.	All wiring shall be protected from heat and physical damage. Wiring shall be colour coded and labelled on the insulation every 4" minimum. Wires outside of cab or body shall be in loom and coded.			
51.4.	All terminals shall be crimp type, with insulated shanks or stud type bolted. Deutsch connectors or equivalent shall be utilized where possible.			
51.5.	All terminals and components in exposed areas shall be protected from the elements. Exposed area is defined as any area outside of the cab or body. Deutsch connectors shall be utilized on all outside connections.			
51.6.	The entire body and chassis electrical system shall be protected by automatic resettable circuit breakers or fuses. Load not to exceed 80% of breaker or circuit ratings.			
51.7.	A master battery disconnect switch shall be used to activate the system and provide power to the power panel. A green pilot light (Battery on) shall illuminate to indicate that the battery bank is activated.			
51.8.	Individual body components such as the cab and compartments shall be grounded to each side of the frame with grounding cables.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
52. CENTER CONSOLE				
52.1.	A center console shall be constructed of 1/8"aluminum and installed between the driver and passenger seats. The console will have a storage box 15" wide x 7" long x 13" deep. The console shall be poly armored black.			
53. DOOR AJAR				
53.1.	Compartment door “ajar” warning light and buzzer shall be installed according to most current NFPA 1900 requirements.			
54. CHARGER, COMPRESSOR AND SHORELINE POWER				
54.1.	A 3000W Xantrex inverter charger will be provided and installed in L1 compartment. It will supply power to the following: <ul style="list-style-type: none">12V power to chassis batteries to maintain chargeThree (3) 120V receptacles in chassis and body.			
54.2.	A Kussmaul Super 20 Auto Eject shall be mounted on driver side of body to provide 120-volt shoreline power to the battery charger, one (1) 120-volt power outlet in cab and three (3) 120 power outlets in body compartment.			
54.3.	A Kussmaul 120-volt air compressor shall be mounted inside the L1 compartment. Power for the compressor shall be provided by the shore power.			
55. MOBILE RADIO REQUIREMENTS				
55.1.	Install a terminal block, with a minimum of four (4) terminal strips of two connections per strip and complete with a protective cover, inside the center console (exact location to be approved at pre-construction meeting)			
55.2.	Install one (1) positive (red) and one (1) negative (black) twelve (12) gauge wire directly from the 12-volt terminals of the vehicle battery to the terminal block noted above. These wires are to be installed inside a wire raceway or loom protector. Power and ground for radio must be clean power and ground so there is no alternator interference. One (1) battery will be designated for the radio only on officer side or an interference filter shall be installed.			
55.3.	Install one (1) fourteen-gauge red wire directly from the battery switch to the terminal block noted above. Twelve volts positive is to be supplied to the terminal block when the switch is in the "on" position.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
55.4.	The vehicle shall be adequately radio interference suppressed to permit understandable voice radio communications under all operating conditions.			
OPTICAL WARNING SYSTEM CONTROL, SIREN AND LIGHTING				
56.	OPTICAL WARNING SYSTEM AND LIGHTING			
56.1.	Optical Warning System and Lighting shall comply with NFPA Standard 1900 Most Current Edition. Certification that the system has been installed within the geometric parameters shall be provided with the apparatus on delivery.			
56.2.	A Whelen Emergency lighting and siren control center shall be mounted in the center console between the driver and passenger seat.			
56.3.	One (1) 100-Watt siren speaker shall be flush mounted in front right bumper. Whelen Model # SA315P			
56.4.	A Whelen NFPA 72" Freedom lightbar clear lens configured with white and red LED lights installed on the roof of the cab.			
56.5.	When the parking brake is applied all white warning lights shall be deactivated in light bar.			
56.6.	Two (2) Whelen M Series - one (1) Model # M6RC and one (1) Model # M6BC LED warning lights with clear lenses and chrome bezel Model # M6FC shall be installed on the front grill.			
56.7.	Two (2) Whelen M Series - one (1) Model # M6RC and one (1) Model # M6BC LED warning lights with clear lenses and chrome bezel Model # M6FC shall be installed forward of the front axle centerline and as close to the front corner of the apparatus as practical.			
56.8.	Two (2) Whelen M Series - one (1) Model # M6RC and one (1) Model # M6BC LED warning lights with clear lenses and chrome bezel Model # M6FC shall be installed forward of the rear axle centerline.			
56.9.	Two (2) Whelen M Series - one (1) Model # M6RC and one (1) Model # M6BC LED warning lights with clear lenses and chrome bezel Model # M6FC shall be installed behind the rear axle centerline and as close to the rear corner of the apparatus as practical.			
56.10.	Two (2) Whelen M Series - one (1) Model # M6RC and one (1) Model # M6BC LED warning lights with clear lenses shall be installed behind in the rear facing brake lights clusters provided on the rear of the body.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
57. WARNING AND SCENE LIGHT				
57.1.	Two (2) Whelen M Series - one (1) Model # M9V2RC and one (1) Model # M9V2BC combination 180° warning/perimeter light with chrome bezel Model # M9FC shall be installed at the most forward point of the body side as high as possible.			
57.2.	Two (2) Whelen M Series - one (1) Model # M9V2RC and one (1) Model # M9V2BC combination 180° warning/perimeter light and chrome bezel Model # M9FC shall be installed at the most rear point of the body side, as high as possible.			
57.3.	Two (2) Whelen M Series - one (1) Model # M9V2RC and one (1) Mode l# M9V2BC combination 180° warning/perimeter light and chrome bezel Model # M9FC shall be installed at the back of the body as high as possible, in each corner.			
57.4.	Two (2) Whelen 900 EZ scene lights and chrome bezel shall be installed as high as possible in the upper corners of the body on the rear of the body.			
57.5.	Two (2) Whelen Dual Panel Pioneer Plus #PCPSM2C Lights shall be installed at the center of the body as high as possible. One each side of the body.			
57.6.	The rear scene lights shall come on when the truck is put in reverse.			
57.7.	Two (2) 63" with 100" Telescoping anodized black pole lights and bottom cradle with elevated warning sensor. Whelen PFP4,115V AC 150W 40,884 lumens. Mounted on the rear corners of the vehicle and providing the highest elevation for distant scene illumination.			
58. BRAKE LIGHT CLUSTER				
58.1.	There shall be two (2) rear facing brake like clusters provided on the rear of the body. Each cluster shall include the following: <ul style="list-style-type: none">One (1) C62BTT red Whelen LED brake/taillight.One (1) C62T amber Whelen LED arrow turn indicator.One (1) C62BU white Whelen LED back-up light.One (1) open location for warning lights (M6RC or M6BC).One (1) M6FCV4 chrome plated Whelen bezel.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
59. TRAFFIC ADVISOR				
59.1.	A Whelen Traffic Advisor™ model # TAL65 shall be installed at rear of the apparatus as high as possible. The controls for the TAL65 shall be mounted in center console. Exact location will be determined at pre-con meeting.			
60. INTERIOR LIGHTING				
60.1.	There shall be eight (8) TecNiq model # E08-LW00-1 interior 4K white LED surface mount lights installed in the interior of the body.			
60.2.	There shall be a light switch at each entrance into the rescue to turn lights on and off.			
60.3.	There shall be two (2) blue coloured LED lights above the SCBA seats to allow for light while driving.			
60.4.	There shall be a light switch at the side entrance into the rescue area to turn lights on and off.			
61. GROUND LIGHTS				
61.1.	Amdor Luma Bar H2O (High Output) led lights shall be installed on the apparatus. <ul style="list-style-type: none">Four (4) twelve-inch H2O shall be installed under the compartments on the driver’s side.Four (4) twelve-inch H2O shall be installed under the compartments on the passenger side.Two (2) twenty-inch H2O shall be installed under rear tailboard. The lights shall be mounted to prevent accidental breakage. The lights shall be activated automatically when the parking brake is applied. This shall meet the individual door switching requirements of NFPA 1900- Most Current edition.			
62. CHASSIS AND BODY STEP LIGHTS				
62.1.	Two (2) TecNiq LED step light part #D07 shall be installed under the chassis to illuminate the top step. One (1) each side.			
62.2.	Two (2) Amdor 12” Luma Bar H2O (High Output) shall be installed to illuminate ground under chassis steps. One (1) each side.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
62.3.	The lights shall be activated automatically when the parking brake is applied. Individual switch(s) shall not be installed. This shall meet the individual door switching requirements of NFPA 1900- Most Current edition.			
63. COMPARTMENT LIGHTING				
63.1.	Amdor rollup compartments shall have two (2) Amdor Luma Bar LED lights each. One (1) each side of the door is activated by a magnetic switch when door is ajar.			
63.2.	Slam door compartment shall have a Amdor Luma Bar light per compartment activated by a magnetic switch.			
63.3.	The door switches shall be protected from physical damage and activate a red light in the cab to indicate a compartment door is ajar. When the parking brake is released, the light will flash and an audible alarm will sound. This shall meet the individual door switching requirements of NFPA 1900- Most Current edition.			
64. ENGINE COMPARTMENT LIGHTING				
64.1.	One (1) twelve-inch Amdor Luma Bar H2O (High Output) LED light shall be installed under the chassis hood to illuminate the engine. The light shall be activated automatically when the parking brake is applied. This shall meet the individual door switching requirements of NFPA 1900- Most Current edition.			
65. SIDE TURN/MARKER LIGHTS				
65.1.	The sides of the body shall include two (2) Weldon part # 9186-8580-29 LED round turn signal /side marker lights shall be installed in front of rear axle.			
66. BODY CLEARANCE LIGHTS				
66.1.	LED identification lights and reflectors shall conform to Canadian Motor Vehicle Safety Standards as well as Ontario Ministry of Transportation standards. The red and amber lights shall be TecNiq model # S17-RR00-1 and S21-AA00-1.			
66.2.	A LED red TecNiq # S33-RR00-1 light will be installed in the front grill of the chassis to indicate when the main power switch is in the on position.			
67. CAMERA SYSTEM				
67.1.	There shall be a Fire Research inView™ TrueSight™ model BCA111-A00 kit to include: <ul style="list-style-type: none"> one 130° camera with 18 infrared illuminators. 			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
	<ul style="list-style-type: none"> (1) one 7" digital monitor <p>Camera shall be located at the rear of apparatus as high as possible</p> <p>The 7" colour screens and controls shall be located inside the cab on the driver side.</p> <p>A dash camera shall be installed with down load information capabilities.</p>			
FINISHING				
68. PAINT WARRANTY				
68.1.	The cab and chassis shall be covered by a limited manufacturer paint warranty which shall be in effect for ten (10) years from the first owner's date of purchase or in service or the first 100,000 actual kilometers, whichever occurs first.			
69. CHASSIS				
69.1.	The chassis colour shall be Red EY1132 ELITE.			
70. BODY				
70.1.	The aluminum body exterior shall have all mounted components removed prior to painting, to assure the full coverage of metal preparations. The body shall be painted to match the cab paint. The final colour shall be confirmed prior to chassis order.			
70.2.	All roll up doors and accessories shall be installed after painting to assure the proper paint coverage of the body.			
70.3.	The metal surface shall be sanded to remove all burs and imperfections in the aluminum before preparation for painting.			
70.4.	The metal surface shall be cleaned and prepped with solvent and washed with fresh water to remove oxidization and other surface contaminants, to give a bright, conditioned and chemically etched surface for finishing. The aluminum surface shall be conditioned with a conversion chemical treatment and washed with fresh water to produce a corrosion resisting conversion coating, to prevent oxidization and other surface contaminants, leaving a surface that allows excellent paint adhesion.			
70.5.	The aluminum surface shall have a spray on, wash primer, to seal and provide a smooth surface for final coats.			
70.6.	The aluminum body shall be painted with a high luster urethane paint to match the chassis red from the factory.			

	MUNICIPALITY OF WEST NIPISSING WALK IN RESCUE			NOTES
		Yes	No	
71. FIRE DEPARTMENT GRAPHICS – FULL PACKAGE				
71.1.	All graphics shall be applied prior to apparatus delivery. A graphics layout must be provided prior to application to confirm accuracy and signed off by the fire department. Failure to do this is grounds for rejection if the graphics package is incorrect. The following shall be supplied: <ul style="list-style-type: none">One (1) 1”x 4” x 1” white reflective stripe along the perimeter of the apparatusUp to 100 x 4” or smaller white/black shadow reflective letters.			
72. REFLECTIVE CHEVRONS				
72.1.	The rear wall of the body shall have a red and fluo-lime retroreflective 6” chevrons installed as per the requirements of ULC and NFPA.			
EQUIPMENT				
73. LOOSE EQUIPMENT				
All loose equipment required by ULC or NFPA shall be provided by and installed by the fire department prior to apparatus entry into service.				
END OF SPECIFICATIONS				