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Bid Receiving Public Works and Government
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Government of Canada Building
101 - 22nd Street East
Suite 110
Saskatoon
Saskatchewan
S7K 0E1
Bid Fax: (306) 975-5397

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services
Canada/Réception des soumissions Travaux publics et
Services gouvernementaux Canada
Government of Canada Building
101 - 22nd Street East
Suite 110
Saskatoon
Saskatchewan
S7K 0E1

Title - Sujet Explosive Disposal Truck	
Solicitation No. - N° de l'invitation M5000-180775/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client M5000-180775	Date 2017-10-13
GETS Reference No. - N° de référence de SEAG PW-\$STN-201-5012	
File No. - N° de dossier STN-7-40020 (201)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-11-17	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Marsland, Rina	Buyer Id - Id de l'acheteur stn201
Telephone No. - N° de téléphone (306) 241-5742 ()	FAX No. - N° de FAX (306) 975-5397
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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1. This amendment is raised for Solicitation M5000-180775/A to make the following change to the closing date:

- extend the closing date from November 6th, 2017 to **November 17, 2017.**

2. This amendment is also issued to respond to the following supplier questions:

Question 1: In regards to this RFQ, correct me if I'm wrong, but at the section **M.9. of the Mandatory Explosive Disposal Truck Specifications**, shouldn't we refer to IL7 instead of IR7?

Response 1: Yes, M.9. should read "IL7"

1. a. In Annex A, Section M, Item 9.

DELETE:

9.	One (1) ProtexPlo Inc. Mini-magazine will be installed in the IR7 compartments as per the RCMP requirements.
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INSERT:

9.	One (1) ProtexPlo Inc. Mini-magazine will be installed in the IL7 compartments as per the RCMP requirements.
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Question 2: In the above noted solicitation, the client is requesting "Construction Estimator Certified (CEC)" documentation. This does not seem applicable to transportation equipment of this sort, and as far as we're aware, no body builders carry this designation, so it may exclude bidders unnecessarily.

Response 2: Construction Estimator Certified (CEC) documentation can be removed from paragraph 5 of the Notes: Section at the end of Annex A.

Question 3: Also would a one week extension be available due to the complexity of the requirement?

Response 3: A one week extension is acceptable.

Question 4: Whether the vehicle is an automatic or manual transmission

Response 4: This vehicle must have an automatic transmission

For the changes indicated in Responses 1 and 2, please see the attached amended PDF of Annex A, Requirement **with the changes made.**

* All other terms and conditions remain the same.

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ANNEX "A"

The Royal Canadian Mounted Police (RCMP), "D" Division, Explosive Disposal Unit (EDU), in Winnipeg, MB is mandated to provide Explosives Disposal and Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) support to the Province of Manitoba, to other police services within the Province, and the Winnipeg International Airport where they have reacquired the policing duties.

"D" Division is required to have the capacity for two independent teams to respond to EDU (either Explosives or Critical Incident) or CBRNE at any given time for the Province, police departments within the province, and the Winnipeg Airport.

This requirement is to purchase one (1) most recent model year in production Conventional – Crew Cab & Chassis with a custom manufactured box to allow for the inclusion of explosives magazines as well as remotely operated vehicles to be utilized by the EDU when required.

* There is an option to purchase one (1) additional truck with the same specs within a twenty four month period from award of contract, if exercised by the Contracting Authority.

Delivery is to be made to:

Royal Canadian Mounted Police
"D" Division Post Garage
1560 Seel Avenue
Winnipeg, MB R3T 4C6

Mandatory Explosive Disposal Truck Specifications		Indicate Compliance	
		YES	NO
A. General Requirements			
1.	Engine		
a.	Diesel		
b.	Minimum 8.3L engine		
c.	Minimum of 350 HP		
d.	Minimum of 1,000 LB/FT torque		
2.	Alternator	300 Amp minimum	
3.	Batteries	(3) 12 volt 2190 CCA	
4.	GVWR	Minimum 44,000 and maximum 46,000 lbs	
5.	Exhaust	Right hand Vertical tailpipe, which must extend at least a minimum of 5" and a maximum of 10" above the roof of the truck, C-Pillar mounted, Bright upper stack	
6.	Compressor	Engine driven	
7.	Block Heater	115 volt	
8.	Transmission	Allison 3000 EVS (<i>or equivalent</i>)	
9.	Cab Exterior		
a.	154" BBC High Roof Crew Cab		
b.	Walk through opening in back of cab without boot		
10.	Front Tires & Wheels		
a.	To meet GVWR, Hub piloted, 10 holes		
b.	22.5 Polished Aluminum, Disc		
11.	Rear Tires & Wheels		
a.	To meet GVWR, Hub piloted, 10 holes		
b.	22.5 Polished Aluminum, Disc		

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12.	Brakes		
a.	Full air brakes, include dust shields, air dryer and engine brake		
b.	Fire and Emergency severe service non-asbestos brake linings		
13.	Front Axle & Suspension		
a.	Minimum 14,000 – maximum 16,000 lbs taper leaf front suspension		
b.	Drop single front axle		
14.	Rear Axle & Suspension		
a.	Dual wheels - single axle		
b.	Minimum 30,000 – maximum 35,000 lbs single rear axle		
c.	Hendrickson Firemaax EX (<i>or equivalent</i>) rated Min. 30,000 – Max. 35,000 lbs rear air suspension		
d.	Air ride suspension, dual height control valves with drains (must be factory installed, after-market installation is not acceptable)		
e.	Minimum 4.56 axle ratio, to allow a road speed of between 85 - 100MPH.		
f.	Driver controlled traction differential, installed in cab within easy reach of driver.		
g.	Manual dump valve for air suspension with gauge, installed in cab within easy reach of driver.		
15.	Wheelbase	Minimum 305 – maximum 310"	
16.	Cab to Axle	Minimum 190 - maximum 200"	
17.	Calculated Frame Length	Minimum 405 - maximum 420"	
18.	Truck Body Length	Minimum 300 - maximum 310"	
19.	Reinforcement	Minimum 120,000 lbs PSI steel to suit GVWR of truck	
20.	Tow Hooks	Front, frame mounted, standard factory tow hooks	
21.	Fuel Tanks		
a.	Minimum 60 Gallon RH rectangular polished aluminum tank		
b.	Minimum 100 Gallon LH rectangular polished aluminum tank		
22.	Diesel Exhaust Fluid Tank	Minimum 13 gallon LH aluminum tank	
23.	Air Horn	Single 14" air horn under Left Hand deck	

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24.	Mirrors	Bright finish heated mirrors with Left Hand & Right Hand remotes, 102" equipment width		
25.	Convex Mirrors	Bright finish Chrome Left Hand & Right Hand side		
26.	Exterior Sun Shade			
a.	Aerodynamic, painted same color as the roof,			
b.	includes integral LED clearance/marker lights			
27.	Bumper	Front, chromed steel Ali Arc(<i>or equivalent</i>) moose bars to match truck		
28.	Cab Interior	Cloth seating using darker colors (i.e. grey, black navy, charcoal, etc.)		
29.	Door Windows	Power electric		
30.	Insulation	Extreme cold climate package		
31.	Driver & Front Passenger Seats	High back air suspension seats with heat, air lumbar and adjustable shock		
32.	Rear Seats	High back air suspension seats		
33.	Lamps	Interior roof reading lamps		
34.	Instrument Panel & Controls			
a.	Coolant, transmission temperature, fuel and oil pressure gauges			
b.	Cruise control			
c.	Tilt and telescoping steering column			
d.	Backup alarm (See information in section E)			
e.	AM/FM/SIRIUSXM with CD player, Bluetooth and microphone.			
f.	Module for overhead switch mounting			
f.	Electric windshield wiper motor with delay and arctic type blades			
h.	Air Conditioning/heating, manual control			

35.	Paint		
a.	Cab and sun visor painted white		
b.	Chassis paint to be black, high solids Polyurethane		
B. GENERAL BOX SPECIFICATIONS:			
1.	Overall exterior dimensions		
a.	Length: Minimum 300 – maximum 310"		
b.	Width: 102"		
c.	Height: Minimum 150 – maximum 160". (from ground to top of A/C units)		
2.	Interior Dimensions		
a.	Length: Minimum 295 – maximum 305"		
b.	Width: Minimum 90 - maximum 100"		
c.	Height: Minimum 90 - maximum 100"		
3.	Aerodynamic Front		
a.	An aerodynamic over cab front must be attached to the box as a part of the box body construction.		
C. BOX BODY CONSTRUCTION:			
1.	The body framework must be assembled on a jig, and must be clamped together and squared. The framework must be electronically welded with digital pulse welders forming the integral superstructure.		
2.	The body frame rails must be constructed of 6061T6/6063-T6, 3" x 3" aluminum extrusions, with a wall thickness of 1/4".		
3.	The front cross member must be a heavy duty 3" x 3" x 1/4" aluminum extrusions providing maximum strength and durability.		
4.	The rear cross members must be heavy duty 3" x 3" x 1/4" aluminum extrusions providing maximum strength and durability at the rear section of the body.		
5.	These body cross members must extend the full width of the body. The cross members must provide support for the body side compartments and rear tailboard section.		
6.	The body sub frame and the chassis frame must be insulated and separated by a rubberized belt.		
7.	The body side compartments, both sides and the rear must be full frame constructed from heavy-duty aluminum extrusions 2" x 2" x 3/16".		

8.	The body must be mounted to the chassis frame rails with four side mounting plates. This must provide for maximum mounting strength and flexibility.		
9.	The upper body must feature six (6) roof mounted D ring tie down rings. Refer to drawings at end of document for placement.		
10.	There must be a full length walkway in the interior of the rescue body. The walkway must cover the body full length. The walkway must be covered in 3/16" NFPA slip restraint checker plate.		
a.	The side walls of the walkway must be trimmed in grey vinyl covered or a sanded aluminum finish.		
11.	The interior of the command center must be insulated utilizing a minimum of R 30 high density spray foam insulation. The walls, ceiling, and floor must be included in the insulation application areas.		
12.	All body components or attachments made from dissimilar metals must be fastened to the body utilizing an Ultra High Molecular Weight Polyethylene material to prevent metal-to-metal contact preventing dielectric corrosion.		
a.	All fasteners used in attaching or fastening aluminum panels must be installed with stainless steel hardware. Rivets are not acceptable. {No Exceptions}		
b.	All fasteners must be installed in a manner, which must involve drilling, tapping, and application of non-corrosive grease before the stainless steel bolts are installed. Self-tapping screws or screws without threads are not acceptable {No Exceptions} .		
13.	The whole frame / cross members / wheel well area / and inner body of the CBRNE Truck body must be thoroughly prepared and sprayed with Corashield® (or equivalent) that will help prevent rust and corrosion. A minimum of 8- maximum of 10 mils of Corashield® (or equivalent) must be sprayed. The bottom, sides and tops of the cross members must be fully covered with Corashield® (or equivalent) .		
14.	The wheel well frame and construction method must allow for the wheel well fender to be easily removed for servicing of the suspension or axle.		
a.	The wheel well fender must be attached to the body sub frame with non-corrosive stainless steel fasteners.		
b.	The inner wheel lining must be constructed of 1/8" rust corrosion resistant aluminum. The lining must be attached to the wheel well framework.		
c.	The wheel well outer skin must be fabricated from 1/8" rust corrosion resistant aluminum and have a painted finish to match the body exterior.		
15.	Due to the environmental conditions where this vehicle will be required to operate, a set of On Spot automatic traction tire chains must be installed at the rear tires, by the box builder.		
a.	The automatic tire chain system must be air actuated from the chassis air system, and must be controlled with an activation switch located in the cab, in easy reach of the driver.		
D. DROP DOWN FRAME FOR ROBOT STORAGE			
1.	Chassis frame must be cut immediately after rear axle and extended with drop down frame that will support robot storage area.		
2.	The frame drop must be minimum 15" to allow easy exit for robots.		

3.	Drop frame must be sufficient to support body and robot's weights. A FEA (<i>Finite Element Analysis</i>) is required to be performed to proof the design, and must be supplied to the Contracting Authority and the RCMP no later than 10 days after the initial conference between the client and the successful bidder.		
4.	The minimum 7/8" grade 8 fasteners must be used to fasten drop frame to chassis frame rail.		
5.	Drop down frame must provide enough strength for mounting tow plates and receivers as required.		
6.	There must be one (1) Robot support platform installed in this area, able to support a 300 lb. robot.		
7.	The robot support platform must be powered (electrical or hydraulic).		
8.	The small robot must be stored on the platform above larger robot and located at the rear, centered inside of the truck body.		
9.	Platform must be deployable without moving larger robot. Larger robot must be deployable without moving the platform. There must be safety locks used when vehicle is in motion.		
E. BACK-UP ALARM/CAMERA:			
1.	A Federal Signal 107db (or equivalent) back up alarm must be installed at the rear of the CBRNE Truck body. This back up alarm must be activated when the chassis transmission is placed into reverse.		
2.	A back-up camera, Federal Signal model #CAMSET70-NTSC-4 (or equivalent) Camera/Monitor System must be installed by the box builder on the rear of the vehicle and a monitor must be installed in the cab area for use by the vehicle operator.		
a.	The system must consist of (1) 7.0" Color Monitor, (1) Standard Rearview Camera, (1) 4-input Control Box with keyboard, and (1) 65.5-foot Extension Cable		
2.1	Monitor		
a.	The monitor must be a minimum 7.0" to a maximum 10" TFT-LCD Color Monitor, and is intended for use in vehicle applications utilizing up to four cameras with split screen capability, installed in view of the driver.		
b.	The monitor must incorporate a built-in speaker, and a photo sensor for automatic brightness adjustment for low-light / no-light conditions.		
c.	Multi-voltage 12/24 VDC capable.		
2.2	Standard Rearview Camera		
a.	The camera must be a high-resolution Color CCD camera made from an anti-corrosion aluminum alloy housing.		
b.	The camera must feature a photo sensor and (16) infrared LEDs for low-light / no-light conditions, a built-in microphone, and must have a 110-degree viewing angle.		
c.	Pixel resolution of the camera must be 510(H) x 492(V)		

	d.	The camera must be IP68 rated for water and dust protection.		
	e.	Multi-voltage 12/24 VDC capable		
2.3		Extension Cable		
	a.	The camera-to-monitor Extension Cable must be installed in length that extends from the rearview camera to the monitor with a waterproof connector.		
2.4		4-Input Control Box		
	a.	The camera system control box must consist of inputs for up to four cameras with independent trigger wires for each input.		
	b.	An individual keyboard must be included for mode selection (individual camera view or split-screen multiple camera view).		
	c.	Multi-voltage 12/24 VDC capable.		
F. MUD GUARDS:				
1.		Reinforced rubber/steel mudguards must be placed on both the front and rear of all wheels from floor to bottom of skirt.		
G. EXTERIOR CONFIGURATION:				
1.		The body compartments must be fabricated with 1/8" rust corrosion resistant aluminum panels. These panels must be non-corrosive, durable, and add strength and integrity to the body construction.		
2.		The following compartments must be provided on the CBRNE Truck body.		
	a.	Compartment	Compartment Frame Dimensions	
	i.	EL 1	48.25W x 32H x 28D	
	ii.	EL 2	48.25W x 21H x 26D	
	iii.	EL 3	48.25W x 21H x 26D	
	iv.	EL 4	36W x 86H x 24D	
	v.	ER 1	74W x 21H x 26D	
	vi.	ER 2	74W x 21H x 26D	
	vii.	DOORWAY	31W x 90H	
3.		All compartments must have a 1" drop on the lower edge of the door opening to accommodate the door seal, and to stop moisture from entering the compartment.		

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a.	All compartments must have sweep out floors.		
b.	All compartments must be weatherproof.		
4.	The exterior compartment pan doors must be flush fit and have an inner and outer pan design. The outer pan must be constructed in 1/8" smooth rust corrosion resistant aluminum plate with a 1" break on all four sides.		
a.	A 1/4" drain hole must be provided in the lower inner pan to allow for drainage of any accumulated moisture.		
b.	The door opening must have an extrusion installed around the inner perimeter. A custom designed hollow cell seal must be installed in the channel. The hollow cell seal must completely seal the door making it weatherproof.		
c.	The compartment doors must be bolted to a stainless steel polished hinge, utilizing gaskets and stainless steel bolts with washers and lock nuts.		
d.	The doors and all hardware must be prefitted to the body. The framework must be drilled and tapped. The door and all hardware must be removed prior to the painting process.		
e.	The compartment doors and all hardware must be installed to the body door opening frame only after the doors and the body has been painted.		
f.	The compartment door at the EL1 location must be a flush fit pan style door.		
g.	The compartment door at the EL2 location must be a flush fit pan style door.		
h.	The compartment door at the EL3 location must be a flush fit pan style door.		
i.	The compartment door at the EL4 location must be a flush fit pan style door.		
j.	The compartment door at the ER1 location must be a flush fit pan style door.		
k.	The compartment door at the ER2 location must be a flush fit pan style door.		
5.	All body compartments must have Amdor Luma (or equivalent) bar LED lights activated by a switch. The LED compartment lights must be flush mount and provide a consistent 120 degree wide beam pattern. There must be a minimum of two strip lights installed in each compartment.		
6.	Compartments ER1, ER2, EL2 and EL3 must each have a heavy duty ball bearing roll out tray installed.		
a.	The tray(s) must have two (2) side mounted, 500 lb. rated ball bearing roll out 18" travel sliding tracks and a 3/16" aluminum tray with up turned edges. The tray must be supplied with plastic floor matting and corner drain holes.		
b.	The tray(s) must have a drop bar tray retainer to keep the tray secure in either the open or closed position.		
c.	All trays must come with rubber matting.		

7.	The interior of all compartments of the body must also be sealed and caulked. A textured finish of light gray urethane paint with a white and black spatter finish must be applied to all compartment interiors.		
8.	Three inch "C" channel aluminum rub rails must be bolted into place with nylon spacers on the lower framework below the CBRNE Truck body compartments. The rub rail will extend to the outside edges of the CBRNE Truck body for protection of the body from impact damage.		
H. Curbside Configuration			
1.	The rear curbside of the CBRNE Truck must have double box pan door to allow entry into the walk-in body area.		
a.	The door must be hung and mounted using full length heavy duty stainless steel piano hinges. The door opening must be a minimum of 31" W x 92" High.		
b.	The walk-in body floor area, which will be a minimum of 42" wide, along with the lower side walls must be covered with .125" aluminum checker plate and sealed against contaminants.		
c.	The upper body walls and ceiling must be covered with grey vinyl covered aluminum sheets. All corners and seams must be trimmed with plastic molding and sealed.		
d.	The walk-in body must have a minimum of 90" and a maximum of 92" high headroom in the walk way		
2.	There must be slide out step proportional to the size of the door opening less 1" on the curbside rear of the CBRNE Truck.		
a.	The step must come with a Slide Master, (or equivalent) air slider that is rated at between 600lbs – 650lbs and has an extension of 70% of its depth measurement.		
b.	A 3/16" 3003 H14 NFPA rated slip resistant checker plate must cover the top of the slider assembly.		
c.	The slider assembly must be closed out from the bottom with 1/8" rust corrosion resistant aluminum and tied to the CBRNE Truck door, switch in the body and the chassis parking brake to allow the step to stay open when the parking brake is activated.		
d.	All steps on the body must have adequate light for illumination. All step lights must be LED style.		
3.	There be an 88"W x 91" L command area level out on the curbside. This level out design consists of heavy duty USO mechanisms on each side of the room to move it in and out and a Platform Lift mechanism to move the room up and down a maximum of 3.500 inches. The level out system come with touch panel controlled stabilizing 12,000lb front and 12,000lb rear jack system capable of 16" of lift.		
4.	One (1) 18' Zipdee (or equivalent) Electric Awning complete with wind meter and automatic retraction feature will be installed on the top of the CBRNE Truck body between the rear of the level out and the back of the truck.		
5.	The chassis batteries must be relocated to ER1 compartment on a roll out tray for easy access.		

I. Rear Configuration			
1.	There must be one (1) rear fold down door installed on the rear body horizontally hinged, that will serve as robot ramp. The ramp frame must be sufficient to support up to 1,000 lbs.		
a.	Top of the ramp must be finished with nonslip aluminum material. Minimum length of the ramp must be 86" with a width of 38" between raised edges. There must be between a 3" – 4" high raised edge on both side of the ramp. Heavy duty, stainless steel hinge must be reinforced at both ends to prevent deformation.		
b.	The cable to raise the door must be attached between hinge and ½ of the length (or closer) of the ramp to prevent tripping. A spring of sufficient rate to help lift the door must be installed above the door. One person must be able to lift door without significant effort.		
c.	The door must be lockable from inside and have a handle installed outside to help with lifting. There must be a magnetic door ajar switch mounted inside the door with a LED indicator light in cab and Push button inside and outside of rear door with buzzer and LED light.		
2.	There must be a 12" wide Zico Quic-Ladder (or equivalent) provided on the rear of the CBRNE Truck for access to the roof of the CBRNE vehicle.		
a.	The ladder assembly must consist of a two-step fold-down with a 3 step straight section and the ladder will store parallel to the body.		
b.	There is a release mechanism with a locking handle so you can pull the ladder out to a comfortable climbing angle. The ladder automatically latches and will not retract until the scissor lock is raised.		
c.	Cast aluminum rungs must have a flat, non-skid surface to provide traction and safety. The handrails are 1¼" heavy-walled aluminum tubing, covered in a rough grip black powder coat.		
d.	There must be a railing package included to meet WCB for an over height vehicle.		
3.	There must be a receiver hitch installed on the rear of the CBRNE Truck. The receiver hitch must be rated at 10,000 lbs. Two (2) heavy-duty painted tow eyes must be bolted directly to the rear frame rails. These tow eyes must be easily accessible underneath the rear of the CBRNE Truck body.		
a.	There must be wiring installed for connection to the customer supplied trailer. The wiring must be wrapped in a weather resistant loom and be firmly secured to the CBRNE Truck body.		
J. Street Side Configuration			
1.	There must be an air outlet connection installed at the EL4 area and connected into the chassis air tank reservoir. The air fitting for this outlet must be hooked to the air reel.		
a.	A Hannay EF1516-17-18 (or equivalent) electric rewind air hose reel must be mounted as per the RCMP specifications.		
b.	The hose reel must be plumbed to the chassis air tanks.		
c.	The air hose reels must come with stainless steel fairlead rollers.		
d.	The air hose reel must come with 150' of 3/8" air hose that is red in color and rated for minimums of 150 PSI and -50°C.		

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2.	A Hannay ECR1600 (or equivalent) electric rewind cord reel must be supplied and installed on the CBRNE Truck. The cord reel must be powered by an electric motor and have the capacity to hold up to 200' of wire. The exterior of the reel must have a painted oven-cured enamel finish. The location of the cord reel must be at EL1 and be wired to the CBRNE Truck shore line system.		
a.	The reel must have a four way roller assembly installed on it to help guide and protect the cable.		
b.	150' of yellow 10/3 SOOW cabled wire must be supplied and installed with the cord reel.		
c.	A twist lock 20 amp male receptacle must be supplied on the wire.		
d.	A round cable stop must be provided on the wire.		
3.	A Kussmaul Pump Plus 2000 (or equivalent) combination battery charger, 12V air compressor, auto eject 20WP 20 amp automatic power line disconnect and remote bar graph indicator must be provided.		
a.	The output side of the battery charger must be connected to the chassis batteries, and the input side connected to the auto eject receptacle. The output side of the air pump must be connected into the chassis air system, and the input side connected to the auto eject receptacle.		
b.	A 110 volt, 30 amp Kussmaul Super Auto-Eject, (or equivalent) 3-prong, straight blade receptacle must be provided at the left cab door area. This receptacle must have a red hinged weatherproof cover.		
4.	There must be 2 Robot Antenna tubes installed on the road side of the body for installation of the robot antennas one at the front of the body and one at the rear of the body.		
5.	A Cummins Onan Quiet diesel series 12 Kw diesel generator complete with electric start must be provided on the completed vehicle. The generator must consist of a 3 cylinder Kubota D1503-M diesel engine, full frame, extra quiet - large muffler, 120/240 volts with multi receptacles, Full instrumentation featuring voltmeter, pilot lamp, fuel gauge, 120/240 volt switch and auto throttle which allows the engine to idle down under no load conditions.		
a.	Computer-controlled constant speed operation.		
b.	Unique sound-controlled housing encloses cooling system and muffler - simplifies installation.		
c.	Three-point, fully focalized internal mounting system reduces vibration.		
d.	Self-diagnostic capabilities simplify troubleshooting.		
e.	Service and maintenance points accessible through easy-latch side service door.		
f.	Convenient, top-mounted switches and coolant level check/fills.		
g.	Automatic glow plug eliminates preheat time uncertainty.		
h.	The generator starter must be wired into the chassis battery and fuel system and must be complete with electric start on the generator.		

i.	The generator must come equipped with an electric remote start module. The mounting location for the generator remote start must be at the discretion of the RCMP.		
j.	Stainless steel flexible tubing must be affixed to the generator exhaust system and routed out of the compartment and the Pan doors must be louvered for fresh air intake.		
6.	<p>One (1) Tundra (or equivalent) 12V Inverter(s) must be tied to the chassis batteries and mounted in a dry location on the CBRNE Truck as close as possible to the chassis battery system. A remote on/off switch must be installed in the chassis cab to turn the inverter on and off.</p> 		
a.	The inverter must be designed to deliver 3000 Watts or 10 amps at 120 Volts. The inverter must have a power surge capacity of 6000 Watts for one (1) second. The inverter must operate with input voltages between 11 and 15 volts DC. If the voltage drops lower than 11.5 volts, the low battery warning alarm will sound. The inverter must shut off if the voltage drops below 11 volts to protect the batteries from being discharged. The inverter must not restart until the input voltage exceeds 13.0 volts.		
b.	The inverter must come with two (2) 120V plugins.		
7.	Two (2) power switching relays must be provided and installed so that the when the generator is activated, the power supplied from the 120 volt shoreline receptacle to the breaker box/power accessory must be turned off, and when the generator is turned off the 120 volt power inverter must be activated.		
8.	A Federal Pioneer breaker box complete with the required circuit breakers for the 120 / 240 Volt electrical options must be provided and installed in the body compartment located closest to the generator.		
K. Roof Configuration			
1.	There must be a 12"L x 4"D x 98"W antenna box with lid installed on the roof of the CBRNE truck body.		

2.	A Knight 2, manufactured by Command, (or equivalent) Light tower must be provided for installation on the CBRNE Truck. The location of the light tower and its controls must be installed according to instructions given by the customer and the requirements of the light tower manufacturer.		
a.	The light tower must extend a minimum of 87-1/2" above the mounting surface and must extend to full upright position in less than 15 seconds. The overall size of nested light tower must be approximately 30" wide x 47" long x 13" high and weigh approximately 165 pounds.		
b.	The light tower assembly must be of aluminum construction, with stainless steel shafts and bronze bushings for long life and low maintenance.		
c.	The electrically controlled unit must not require usage of the vehicle's air supply for operation, thereby eliminating the chance for air leaks in the vehicle braking system. <u>Hydraulic or pneumatic type floodlights are not acceptable alternatives to the specified all electric light tower.</u>		
d.	The light tower must be tested in wind conditions of 90 mph (150 kph) minimum. Other type floodlights that have not been tested to these conditions are not acceptable.		
e.	The light tower must be capable of overhanging the side or back of the vehicle to provide maximum illumination to the vicinity adjacent to the vehicle for the safety of emergency personnel in high traffic conditions. Any tower that is only capable of rotations at the top of a pole is not an acceptable alternative to the specified tower.		
f.	The light tower must be a two-stage articulating device with a lighting bank on top of the second stage capable of continuous 360 degree rotation. The light must be elevated by electric linear actuators, one (1) actuator must elevate the lower stage and one (1) actuator must adjust the light bank angle from 0 to 110 degrees. Power for the light bank must be supplied through power collecting rings thus allowing continuous 360 degree rotation in either direction.		
g.	The tower base must have a light that illuminates the envelope of motion during any movement of the light tower mast as required by NFPA1901.		
h.	The Command Light must be equipped with the following bank of floodlights: Floodlight manufacturer: FRC (or equivalent) Number of lamp heads: Six (6) FRC Spectra (or equivalent) Voltage: 12 volt Watts of each lamp head: 220 watts Total watts of light tower: 1320 watts Total Lumens of light tower: 120,000 lumens		
i.	The light heads must be mounted two (2) on each side of the light tower, giving two (2) vertical lines of two (2) when the lights are in the upright position.		
j.	The light tower must include a checker plate wind/brush guard mounted at the front of the command light.		
k.	Three (3) mounts for future antenna installation must be installed on the chassis cab roof. The antenna leads must be wired to the chassis cab dash area for future installation of a radio.		

L. Front Configuration			
1.	There must be a light bar kit supplied with the Ali Arc (or equivalent) Grill guard.		
a.	The light bar kit must consist of One (1) Rigid Industries E2 30" LED Combo light bar part # 13231 (or equivalent) and two (2) Rigid Industries SAE Fog lights Part # 50481. (or equivalent)		
2.	A red warning light for the door ajar system must be provided in the cab. This light must be activated when a compartment door on the CBRNE Truck body is open and the park brake is released. There must be a magnetic sensor switch located in the compartment that will indicate when a door has been opened.		
M. INTERIOR CONFIGURATION			
1.	A cab/body opening must be installed in between the chassis cab and the crew canopy area. The standard cab rear back wall must be removed and a new back wall must be installed with a walk thru area that must be made as large as possible, approx. 30"W x 75"H. A single heavy duty, locking sliding door must be installed that will be weather proof. The interior of the walk thru opening must be finished with a grey carpet type material. The RV Style aluminum Canopy must cover the roof cutout and must serve as the mounting location for the emergency and scene lights.		
2.	The command area level out must have installed a complete Aluminum work desk, three (3) slide out locking drawers with lower drawer to house a ScanX XRay developer with 120 volt receptacle mounted in it.		
a.	Two (2) fixed swivel chairs must be installed and mounted to the floor of the command desk area.		
3.	The storage areas must be manufactured from 3/16" 5052-H32 aluminum with a natural brushed finish.		
4.	The dimensions of the interior storage areas, starting from front to rear, must be:		
a.	Compartment	Compartment Frame Dimensions	
i.	IR1-IR8	15.5W x 44H x 26D	
ii.	IR9	15W x 45H x 26D	
iii.	IR10	60W x 35H x 26D	
iv.	IR11	63W x 45H x 26D	
v.	IL1	48.25W x 27H x 26D	

vi.	IL2	33W x 91H x 26D		
vii.	IL3	30.75W x 48.5H x 14D		
viii.	IL4	56W x 27H x 14D		
ix.	IL5	56W x 27H x 14D		
x.	IL6	30.75W x 39H x 26D		
xi.	IL7	37W x 41H x 26D		
xii.	IL8	60W x 29H x 26D		
xiii.	IL9	13W x 41H x 26D		
xiv.	IL10	36W x 17.5H x 24D		
xv.	IL11	27W x 50H x 24D		
xvi.	1L12	27W x 50H x 24D		
5.	Compartments IR1 thru IR9, IL3, IL9, IL10, pistol storage and the upper storage cupboard must be provided with single pan doors and must be flush fit design with locking D ring door openers.			
6.	The compartment doors must be bolted to a stainless steel polished hinge, utilizing gaskets and stainless steel bolts with washers and lock nuts.			
7.	The doors and all hardware must be prefitted to the body. The framework must be drilled and tapped. The door and all hardware must be removed prior to the painting process.			
8.	The compartment doors and all hardware must be installed to the body door opening frame only after the doors and the body has been painted.			
9.	One (1) ProtexPlo Inc. Mini-magazine will be installed in the IL7 compartments as per the RCMP requirements.			
10.	Compartments IR11 & IR10 must have single pan aluminum doors with a pull type latch system and have the fixed shelves previously noted in the specification.			
11.	Compartments IL1, IL4, IL5 must be installed in the framework of the body and be included with an aluminum door with a lift and two (2) lift and turn latches as per the drawing/specification attached with the specification with gas strut hold open devices.			

12.	There must be a three (3) section cupboard storage area with cargo netting installed under IL1 with a NorCold 12/120 volt refrigerator and Microwave next to this storage area.		
13.	An Aluminum radio compartment must be installed in the interior of the EOD/CBRN command center directly above the fridge/microwave area. The compartment must be manufactured from 1/8" aluminum with the approximate dimensions of 48.25" wide x 27" H x 26" D.		
a.	Four (4) 120 volt outlets must be installed in the tray for radio / accessory recharging. The outlets must be tied to a shoreline inlet at the chassis cab door.		
14.	Compartment IR6 must include four (4) slide out drawers with ball bearing sliders capable of 500 lbs each, the draws must be finished with checker plate and lift and turn latch closures.		
15.	Compartment IR8 must include two (2) slide out drawers with ball bearing sliders capable of 500 lbs each, the draws must be finished with checker plate and lift and turn latch closures.		
16.	There must be a heavy duty butcher block oak hard wood counter top with a varnished finish above compartments IL7, IL8, IL9. This must serve as a work bench for the CBRNE Truck and will not produce any type of spark. There must be 4 of the GFI duplex receptacles installed in this counter top area.		
17.	One (1) set(s) of four (4) aluminum unistrut (or equivalent) side tracks must be provided for installation of adjustable shelves in IL11.		
18.	Two (2) adjustable 3/16" aluminum compartment shelves with upturned edges must be provided in IL11. Each shelf must be provided with plastic matting.		
19.	Six (6) permanently installed 3/16" aluminum compartment shelves with upturned edges must be provided. Each shelf must be provided with plastic matting. The shelves must be installed in the interior IR10, IR11 and IL9 compartments with 2 shelves in each compartment.		
20.	The compartment door at the IL2 location must be Amdor (or equivalent) roll up style. This compartment must feature a 500lb roll out coat rod/rack capable of supporting the EOD Bomb disposal suit. This compartment must feature a fixed tray for the bomb suit helmet with 18" of usable space.		
21.	The compartment door at the IR11 location must be Amdor (or equivalent) roll up style.		
a.	The Amdor(or equivalent) roll up type doors mounted in IL11 and IL2 must include: - double wall aluminum box section slats with integral hinge joint and recessed slat seal, - reusable end shoes with snap-in securement, - double wall aluminum reinforced bottom rail with either Stainless Steel Lift Bar door latching system, - aluminum track with side frame, sill plate, and top gutter with non-marring top seal, side seals, bottom seal, with all wear component material to be Type 6 Nylon.		
b.	The slats must have a true box section with a flat interior surface to prevent equipment hang-up. The slats must have a face depth of 1.0 inches and a wall thickness of 0.045 inches. Each slat incorporates a recessed slat seal to weatherproof the compartment and reduce rattle between slats.		
c.	For every inch of height an integral continuous hinge joint spans the width of the door to provide superior strength.		

d.	The door glides on non-interlocked end shoes. Each end shoe is independent and positively secured by an exclusive snap-in device. Door slats can be easily removed and replaced when required.		
e.	The Stainless Steel Lift Bar system must be provided to keep the door securely closed. This system complements the superior strength of the bottom rail with bottom seal and integral reinforcing flange.		
f.	Wear components are constructed of Type 6 Nylon to provide maximum strength and durability. Type 6 Nylon is a naturally lubricating material, which provides exceptional temperature characteristics.		
g.	Each door is equipped with slat, top, bottom and side seals to keep moisture and dirt on the outside. The non-marring top seal provides a seal without marking the door surface.		
N. ELECTRICAL SYSTEM - MULTIPLEXED			
1.	The manufacturer must design the wiring system for the CBRNE Truck in accordance to the SAE, Society of Automobile Engineers.		
2.	The manufacturer must determine the circuit loads and designs the system to accommodate these loads with appropriate circuit routings and relays.		
3.	All wiring harnesses must be properly secured and routed. All passages required for routing must be grommeted and sealed as required.		
4.	All wiring must be easily accessible for servicing.		
5.	All wiring must be SAE J1128 and SAE J1292 GXL type wire, as per industry standards.		
6.	All exposed wiring must be crimped and heat shrunk for added protection.		
7.	The wiring harnesses must be pre-engineered for correct circuit loading and must be custom made. The harnesses must be function, number, and color coded and must be fitted inside an automotive high temperature loom. All connections to the main panel box must be made with waterproof automotive style guided pin locking connectors {No Exceptions}		
8.	An enclosed main electrical distribution panel that provides protection against dirt, dust, oil, and water must be installed in the upper section of the truck body kick over.		
9.	All electrical connections to the panel must be made through positive locking environmentally sealed connectors. The panel features a solid state power distribution board(s) with visual diagnostics.		
10.	All circuits are protected by automatic resetting circuit breakers. All breakers must be properly sized to the circuit load and are direct plug in sockets.		
11.	All wiring must have a strain pull test on wiring connections of 40 pounds.		
12.	A 300 amp solenoid master battery switch must be installed in the cab within reach of the driver.		
13.	The inverter/charger supplied as part of the generator system must be able to charge the vehicle batteries from either an AC, generator or alternator power source, and provide AC power to equipment from the DC power source while the vehicle is in transit.		

O. ELECTRICAL RECEPTACLES		
1.	All of the 120 Volt dual plug receptacle mounted in the command center interior must be wired to the 30 Amp shore line, the generator and the power inverter using power switching relays. The receptacles must be tied to a shoreline receptacle mounted at the rear of the body.	
a.	Eleven (11) 120 volt / 15 amp duplex straight blade receptacle(s) must be provided and installed on the interior of the CBRNE truck. Location must be as per the interior drawing provided.	
b.	Four (4) 120 volt three prong, straight blade receptacle(s) must be provided in the cab/crew cab area.	
c.	Three (3) 120 volt / 15 amp duplex straight blade receptacle(s) must be provided and installed on the exterior of the CBRNE truck. The receptacle(s) must have a sealed weather proof cover to protect against the elements. Location must be at both side wheel wells and the rear road side of the body.	
P. INTERIOR & EXTERIOR LIGHTING		
1.	There must be a total of eight (8) hi/lo LED lights mounted along the interior walkway of the walk in CBRNE truck interior. Four (4) lights must be mounted along the walkway and four (4) lights must be mounted over the slide out command section.	
2.	Two (2) Fire Research model LED900-Q70 surface mount light(s) must be installed on the street side of the body. The light(s) must be mounted with four (4) screws to a flat surface. It must be 6 3/4" high by 9" wide and have a profile of less than 1 3/4" beyond the mounting surface. Wiring must extend from a weatherproof strain relief at the rear of the light.	
a.	The light(s) must have twenty-four (24) white LEDs that generate a rated 7000 lumens at 12 or 24 volts DC. The lens must redirect the light along the vehicle and out onto the working area. The light housing must be aluminum with chrome colored bezel.	
3.	Three (3) Fire Research, model LED900-Q70 (<i>or equivalent</i>) surface mount light(s) shall be installed on the curb side of the body. The light(s) must be mounted with four (4) screws to a flat surface. It must be a minimum 6 3/4" high by 9" wide and have a profile of less than 1 3/4" beyond the mounting surface. Wiring must extend from a weatherproof strain relief at the rear of the light.	
a.	The light(s) must have twenty-four (24) white LEDs that generate a rated 7000 lumens at 12 or 24 volts DC. The lens must redirect the light along the vehicle and out onto the working area. The light housing must be aluminum with chrome colored bezel.	
4.	Four (4) Fire Research model LED900-Q70 surface mount light(s) must be installed on the front and the rear of the body. The light(s) must be mounted with four (4) screws to a flat surface. It must be 6 3/4" high by 9" wide and have a profile of less than 1 3/4" beyond the mounting surface. Wiring must extend from a weatherproof strain relief at the rear of the light.	
a.	The light(s) must have twenty-four (24) white LEDs that generate a rated 7000 lumens at 12 or 24 volts DC. The lens must redirect the light along the vehicle and out onto the working area. The light housing must be aluminum with chrome colored bezel.	

5.	There must be a total of six (6) Federal Signal Quadraflare 6x4 series (or equivalent) LED lights installed at the rear face of the CBRNE Truck body to be used as the Tail Light Assembly.		
a.	These lights must include, Federal Signal red stop/tail lights, amber "arrow" turn signal lights, and clear back up lights installed in two (2) vertically mounted four (4) light polished cast aluminum trim bezels.		
6.	There must be ten (10) Luma Bar H2O (or equivalent) 12" LED ground lights with outward facing angle brackets installed underneath the CBRNE Truck.		
a.	The ground lights must be activated by a switch installed in the chassis cab.		
b.	Ground lights that are directly underneath a door opening must turn on automatically when the door is opened.		
7.	One (1) 4" clear engine compartment light shall be installed in the engine compartment area and must be activated by a mercury switch.		
8.	All clearance / marker lights, reflectors must comply with department of transport motor vehicle safety standards. The clearance / marker lights must be LED type.		
a.	A set of LED (light emitting diode) front clearance lamps must be installed on the front of the body to comply with department of transport motor vehicle safety standards.		
b.	A set of LED (light emitting diode) mid body turn signals must be installed to comply with department of transport motor vehicle safety standards for vehicles over 30 feet in length.		
Q. EMERGENCY EQUIPMENT			
1.	One (1) Federal Signal Viper S2 P/N 329001-34 (or equivalent) intersection light must be installed. These lights must utilize high output Solaris (or equivalent) LED technology. The sixteen red/blue LED lights must be encapsulated in a waterproof housing. The lens color must be red/blue in color. The light mounting bezel must be black in color and mount in the middle of the front windshield at the roofline.		
2.	Two (2) Federal Signal Quadraflare (or equivalent) 6x4 intersection lights P/N QL64XF-A must be installed. These lights must utilize high output Solaris LED technology. (or equivalent) The light must come with amber LED lights and must be encapsulated in a waterproof housing. The lens color must be amber in color. The light mounting bezel must be chrome and be mounted at the upper rear of the body.		
3.	Twenty two (22) Federal Signal Quadraflare (or equivalent) 6x4 intersection lights P/N QL64SFC-RB must be installed. These lights must utilize high output Solaris LED technology. The light must come with a split LED red/blue in color and must be encapsulated in a waterproof housing. The lens color must be clear in color. The light mounting bezel must be chrome and installed as per RCMP requirements.		
4.	There must be a Federal PA-300MCS (or equivalent) electronic siren, with microphone installed in the cab which features:		
a.	- 5 basic siren tones,		

	- TAP II (horn-ring transfer), to allow for effective intersection traffic clearing capability without removing your hands from the steering wheel or your eyes from the road. - PA, - radio rebroadcast, air horn sound with siren override.		
b.	- "Press-and-Hold" function, depressing and holding the horn ring will produce an alternate sound for as long as the operator keeps the horn ring circuit depressed.		
c.	- - siren's PA volume level to be controlled with a Rotary gain switch located on the unit's backlit front panel, - radio rebroadcast volume to be adjustable via an easily accessible rotary pot		
d.	The PA300 (or equivalent) - siren must also include a permanent noise-canceling microphone that produces high quality voice reproduction without feedback squeal, - microphone's push-to-talk switch must override any siren tone for instant PA use.		
5.	There must be a Federal model BP200-EF / 200 watt (or equivalent) electronic siren speaker provided at the front bumper and connected into the electronic siren.		
R. DVR CAMERA/MONITOR SYSTEM			
1.	One (1) General Digital 24" SABER (or equivalent) standalone LCD monitor must be supplied and installed at the command desk area. This work station must be wired to the command light camera, DVR and both EOD robots.		
2.	One (1) General Digital TwoView2 (or equivalent) Dual flip down monitor display must be installed and mounted above the robot storage area and wired to the main command desk monitor/DVR system.		
3.	One (1) BOSCH PTZ CAMERA VEZ-423-EWCS PTZ (or equivalent) with pan, tilt and zoom must be installed on the command light tower and wired to the EOD/CBRN DVR and command desk via a Wireless 2.4 connection due to command light 355 degree rotation.		
4.	One (1) BOSCH RECORDER DVR-3000-04A100 4 CHANNEL ANALOG DVR (or equivalent) must be installed at the EOD/CBRN Command Desk, hooked to both EOD Robots and the light tower camera.		
S. FINISH AND PAINTING			
1.	The exterior of the body must be painted with Delfleet® Evolution FBCH (or equivalent) high solids polyurethane paint using the manufacturer's recommended practices for the best possible finish.		
2.	Colour must match the cab.		
3.	The interior of all compartments of the body must also be sealed and caulked. A textured finish of light gray urethane paint with a white and black spatter finish must be applied to all compartment interiors.		
T. HEATING/COOLING			

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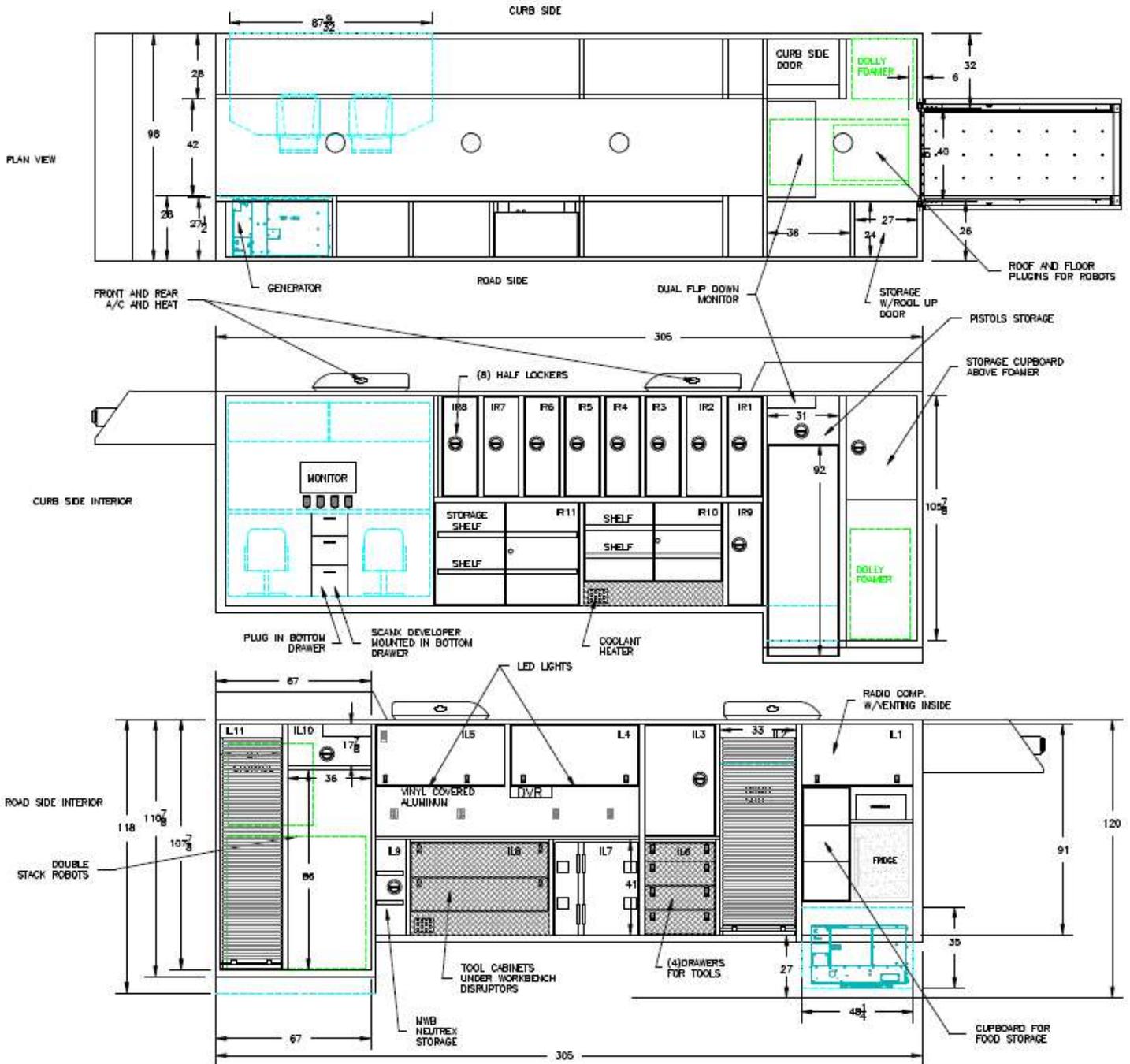
1.	The canopy area must be fully air conditioned with dual 120 volt low profile air conditioning/heating systems with a 13,500 Btu cooling/heating package.		
a.	This air conditioning system must be connected into the diesel generator system with an evaporator installed in the CBRNE Truck roof.		
b.	This air conditioning evaporator must have an on/off control switch, heater switch along with a blower motor control switch.		
2.	Four (4) 17,500 BTU forced air heaters must be installed at the front & rear lower section of the canopy enclosure, and (2) at each side of the crew area. There must be a rotary on / off switch located in the command center interior.		
U. MISCELLANEOUS ITEMS			
1.	The CBRNE truck shall be supplied with a Road Safety Kit which must include:		
a.	One (1) 2.5 lb. ABC vehicle type fire extinguisher with mounting bracket.		
b.	One (1) standard First Aid Kit		
c.	One (1) set of three (3) dual faced triangular warning flares to meet the Department of Transportation's Motor Vehicle Safety Standards.		
2.	One (1) Truck based GPS must be installed and hard wired to the chassis dash using an adjustable RAM flexible mount.		
3.	There must be four (4) 12V DC "lighter plug" outlets with attached cap installed in the chassis cab and installed as per the RCMP requirements.		
4.	Four (4) 4" Coaxial Car Speakers must be installed in the cab.		
5.	One (1) vehicle alarm system with the following minimum specifications must be installed;		
a.	<ul style="list-style-type: none"> ○ Cab & Body security, all exterior doors on cab and body monitored when armed ○ One status LED ○ One valet switch ○ 2 way antenna ○ One 2 way LCD LC3 SST up to one mile range remote/Pager ○ One 1 way long range remote ○ Encryption for increased code hopping protection ○ One shock sensor ○ One 6-Tone Siren speaker mounted under chassis ○ Keyless entry 		

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INTERNAL VIEW



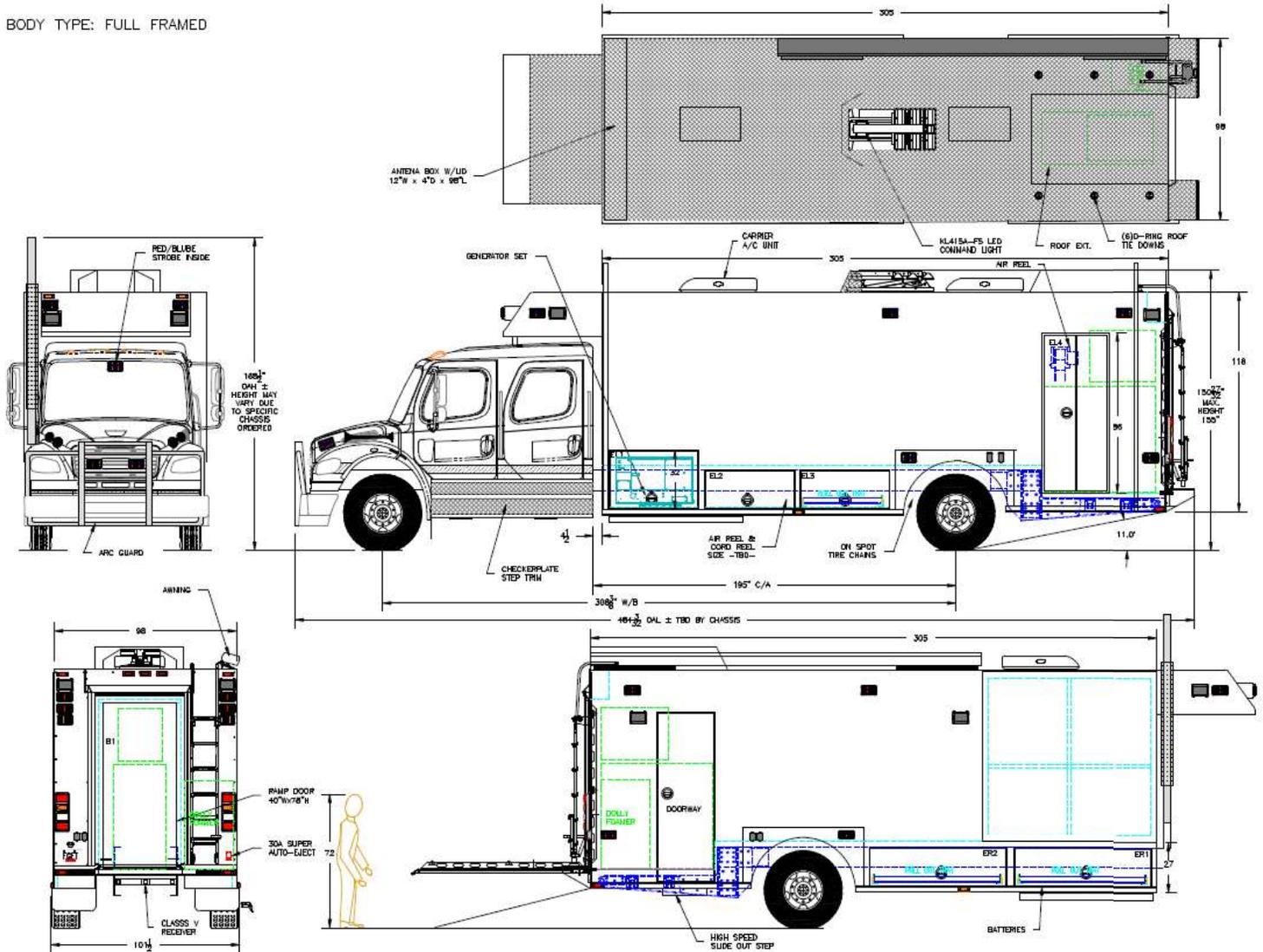
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EXTERNAL VIEW

BODY TYPE: FULL FRAMED



NOTES:

The Cab, Chassis and Box are to be considered as one unit and the subject of one tender.

Wherever actual brand or model names are referenced, equipment of equal or superior manufacture will be considered, if so indicated by the addition of **(or equivalent)** to the information.

Dimensions noted in the written specification and on the drawings provided can be considered as approximate and can be adjusted slightly **(by up to +/- 1")** to accommodate the manufacturing requirements on agreement of the RCMP and the successful bidder.

Bidders must indicate compliance with all details of the specification by initialing all areas as indicated in the compliance columns and initialing each drawing. The written specification and the drawings are to be

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considered as one, notation of an item in one, and not in the other, does not negate the need for the given item.

Bidders must indicate compliance with all details of the specification by initialing all areas as indicated in the compliance columns and initialing each drawing. The written specification and the drawings are to be considered as one. Notation of an item in one, and not in the other, does not negate the need for the given item.

The successful bidder must supply the RCMP with AC and DC wiring diagrams, and Electrical Safety Authority (ESA) certification documentation, and Computer Aided Design (CAD) drawings of the unit(s) before the building phase begins and a final set with any amendments provided at time of delivery.

There will be a teleconference meeting held between PWGSC, the RCMP and the successful bidder prior to construction of this vehicle to ensure that all requirements are understood and will be met.

There will be a minimum of two inspections during the construction of the body portion of the vehicle and a third prior to acceptance of the vehicle on completion, to be arranged between the successful bidder and RCMP.

At time of delivery, the fabricator must provide detailed, hands on training on the mechanical/electrical workings of the entire vehicle.