



National Defence

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Défense nationale

Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: National Defence Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods and services listed herein and on any attached sheets at the price(s) set out therefore.

Proposition à : Défense nationale Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens et services énumérés ici et sur toute feuille ci-annexée, au(x) prix indique(s).

Comments - Commentaires

RETURN BIDS TO: RETOURNER LES SOUMISSIONS À :

By e-mail to: - Par courriel au :
DLP53BidsReceiving.DAAT53Receptiondessoumissions@forces.gc.ca

Attention: - Attention :
Brian James

Solicitation Closes - L'invitation prend fin

At - à :
2:00 PM - 14:00

On - le :
27 September 2022

Time Zone - Fuseau Horaire :
Eastern Daylight Time (EDT)
Heure avancée de l'Est (HAE)

Title - Sujet MOBILE COMMUNICATIONS VEHICLE	
Solicitation No. N° de l'invitation W8476-226506/B	Date of Solicitation Date de l'invitation 26 August 2022
Address enquiries to: - Adresser toute demande de renseignements à : Brian James E-Mail Address - Courriel brian.james3@forces.gc.ca	
Destination See herein - Voir aux présentes	
Instructions: Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item. Instructions : Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.	
Delivery requested Livraison demandée See herein - Voir aux présentes	Delivery offered Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Person authorized to sign on behalf of Vendor/Firm (type or print): La personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie) :	
Name - Nom	Title - Titre
Signature	Date

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REISSUE OF BID SOLICITATION

- A. This bid solicitation cancels and supersedes previous bid solicitation number W8476-226506/A dated 05 April 2022 with a closing of 02 June 2022 at 14:00 EDT. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

PART 1 - GENERAL INFORMATION

1.1 Requirement

- A. The Department of National Defence (DND) has a requirement to procure one (1) Mobile Communications Vehicle for delivery to CFSU Ottawa, Ontario. The requested delivery date is 120 days after contract award.
- B. The requirement is detailed under the article entitled Requirement of the resulting contract clauses in Part 6.

1.2 Security Requirements

- A. There is no security requirement associated with this bid solicitation.

1.3 Debriefings

- A. Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

- A. All instructions, clauses and conditions identified in this document and any of its attachments by number, date, and title are either:
- (i) Set out in the [Standard Acquisition Clauses and Conditions \(SACC\) Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada; or
 - (ii) Included as attachments.

These documents are incorporated by reference and they form part of this document as though they were expressly set out here in full.

- B. Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.
- C. The 2003 (2022-03-29), Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modification(s):
- (i) Section 02, Procurement Business Number, is deleted in its entirety;
 - (ii) Section 05, Submission of bids, subsection 3, is deleted in its entirety;
 - (iii) Section 05, Submission of bids, subsection 2, paragraph d., is deleted in its entirety and replaced with the following:
 - d. send its bid only to the location specified on page 1 of the bid solicitation or to the address specified in the bid solicitation.
 - (iv) Section 05, Submission of bids, subsection 4, is amended as follows:
Delete: 60 days
Insert: 120 days
 - (v) Section 06, Late bids, is deleted in its entirety;
 - (vi) Section 07, Delayed bids, is deleted in its entirety and replaced with the following:
07 Delayed bids
 - 1. It is the Bidder's responsibility to ensure that the Contracting Authority has received the entire submission. Misrouting or other electronic delivery issues resulting in late submission of bids will not be accepted.
 - (vii) Section 08, Transmission by facsimile or by epost Connect, is deleted in its entirety.
 - (viii) Section 20, Further information, subsection 2, is deleted in its entirety.

2.2 Submission of Bids

- A. Bids must be submitted only to the Department of National Defence (DND) by the date, time, and place indicated on page 1 of the bid solicitation.
- B. Due to the nature of the bid solicitation, bids transmitted by facsimile will not be accepted.
- C. Due to the nature of the bid solicitation, bids transmitted by epost Connect will not be accepted.

2.2.1 Electronic Submissions

- A. Individual e-mails that may include certain scripts, formats, embedded macros and/or links, or those that exceed 5 megabytes may be rejected by Canada's e-mail system and/or firewall(s) without notice to the Bidder or Contracting Authority. Larger bids may be submitted through more than one e-mail. Canada will confirm receipt of documents. It is the Bidder's responsibility to ensure that their entire submission has been received. Bidders should not assume that all documents have been received unless Canada confirms receipt of each document. In order to minimize the potential for technical issues, bidders are requested to allow sufficient time before the closing date and time to confirm receipt. Bid documents submitted after the closing time and date will not be accepted.

2.3 Enquiries - Bid Solicitation

- A. All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.
- B. Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

- A. Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.
- B. Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5 Improvement of Requirement During Solicitation Period

- A. Should bidders consider that the specifications or Requirement contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 10 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- A. Canada requests that Bidders provide their bid in separate sections as follows:
- Section I: Technical Bid: 1 soft copy in PDF format by e-mail;
- Section II: Financial Bid: 1 soft copy in PDF format by e-mail;
- Section III: Certifications: 1 soft copy in PDF format by e-mail; and
- Section IV: Additional Information: 1 soft copy in PDF format by e-mail.
- B. Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.
- C. Bidders must demonstrate their compliance with the attachment to Part 4 entitled Evaluation Criteria, of the bid solicitation by providing substantial information describing completely and in detail how the requirement is met or addressed. Bidders must provide with their technical bid, a document indicating clearly where the substantial information for each of the sections identified below can be found.

3.2 Section I: Technical Bid

- A. In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

3.2.1 Substitutes and Alternatives

- A. Bidders may propose substitutes and alternatives where equivalent is indicated in the Annex entitled Requirement.
- B. Substitutes and alternatives that are equivalent in form, fit, function, quality and performance as detailed in the Annex entitled Requirement, will be considered for acceptance where the Bidder:
- (i) Clearly identifies a substitute and/or an alternative;
 - (ii) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;
 - (iii) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
 - (iv) Provides complete specifications and brochures, where applicable;
 - (v) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the Annex entitled Requirement; and
 - (vi) Clearly identifies those areas in the technical requirement description and in the brochures that support the substitute and/or the alternative compliance with the technical requirements.
- C. Substitutes and alternatives offered as equivalent in form, fit, function quality and performance will not be considered for acceptance by the Technical Authority if:
- (i) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the equivalency; or
 - (ii) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.
- D. Bidders are encouraged to offer or suggest green products whenever possible.

3.3 Section II: Financial Bid

A. Bidders must submit their financial bid in accordance with the attachment to Part 4 entitled Pricing Schedule.

3.3.1 Electronic Payment of Invoices - Bid

- A. If you are willing to accept payment of invoices by Electronic Payment Instruments, complete the attachment to Part 3 entitled Electronic Payment Instruments, to identify which ones are accepted.
- B. If the attachment to Part 3 entitled Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.
- C. Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.3.2 Exchange Rate Fluctuation

A. The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

3.4 Section III: Certifications

A. Bidders must submit the certifications and additional information required under Part 5.

3.5 Section IV: Additional Information

- A. In Section IV of their bid, bidders should provide:
- (i) A completed, signed, and dated Page 1 of this solicitation, or final amendment, as applicable;
 - (ii) The name of the person(s) and associated contact information (title, mailing address, phone number, and e-mail address) authorized by the Bidder to:
 - (a) Enter into communications with Canada with regards to their bid, and any contract that may result from their bid;
 - (b) Coordinate delivery and follow-up; and
 - (c) Provide after sales service, maintenance, warranty repairs, and a full range of repair parts for the vehicle/equipment offered.
 - (iii) Any other information submitted in the bid not already detailed.

3.5.1 Delivery Date(s)

A. Any delivery date(s) offered will not be included in the evaluation.

3.5.1.1 Firm Goods

A. Delivery of the Firm Goods and/or Services is requested on or before 120 days after contract award. If a longer delivery period is required, the Bidder must submit the best delivery that could be offered, in the form of either a fixed date or a period of time from contract award. Failure to submit a date or time period will be taken as acceptance of delivery within the requested timeframe.

3.5.2 Warranty Period

3.5.2.1 Manufacturer's Standard Warranty Period

- A. Canada requests that the Bidder provide details of the manufacturer's standard warranty period for the equipment and components that exceeds the minimum warranty period of 12 months. Any additional manufacturer's standard warranty such as those derived from the Original Equipment Manufacturer (OEM) for component/subassemblies will form part of the proposed contract.

3.5.2.2 Extended Warranty Period

- A. Canada requests that the Bidder indicate if an extended warranty period is being offered that exceeds the Manufacturer's Standard Warranty Period.
- B. If the Bidder indicates that an extended warranty period is being offered, Canada requests that the Bidder provide details and pricing information of any extended warranty period available for the vehicle/equipment and any ancillary items.
- C. Any extended warranty period offered will not be included in the financial evaluation.

ATTACHMENT 1 TO PART 3 - ELECTRONIC PAYMENT INSTRUMENTS

A. The Bidder accepts to be paid by any of the following Electronic Payment Instrument(s):

- () Direct Deposit (Domestic and International);
- () Electronic Data Interchange (EDI); or
- () Wire Transfer (International Only).

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- A. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- B. An evaluation team composed of representatives of Canada and Promaxis Consulting Group Inc. will evaluate the bids.

4.1.1 Technical Evaluation

- A. Mandatory technical evaluation criteria are included in the attachment to Part 4 entitled Evaluation Criteria.

4.1.2 Financial Evaluation

4.1.2.1 Firm Goods and/or Services

- A. The price of the bid will be evaluated in Canadian dollars, Delivered Duty Paid (DDP) destination, Incoterms 2010, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

4.2 Basis of Selection - Lowest Evaluated Price, Mandatory Technical Criteria

- A. A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

ATTACHMENT 1 TO PART 4 - EVALUATION CRITERIA

See attached document entitled:

“Technical Evaluation Matrix Mobile Communications Vehicle”, dated: May 2021

ATTACHMENT 2 TO PART 4 - PRICING SCHEDULE

1. General

- A. Bidders must submit a Firm Unit Price for each Item.
- B. Bidders are requested to complete the following Pricing Schedule and include it in the bid.
- C. All prices and costs must be submitted in Canadian Dollars, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

2. Firm Goods and/or Services

2.1 Mobile Communications Vehicle

- A. The Firm Unit Price(s) include(s) associated specifications and deliverables as per Annex A, Requirement, Delivered Duty Paid (DDP) specified Delivery Point, Incoterms 2010:

Item	Delivery Point	Quantity Required (A)	Firm Unit Price (B)	Total (C = A x B)
001	CFSU Ottawa 250 Convair Private Hangar 14 Ottawa, ON K1V 2E5	1	\$	\$

PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

5.1 General

- A. Bidders must provide the required certifications and additional information to be awarded a contract.
- B. The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.
- C. The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1.2 Certifications - Contract

- A. Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

5.2 Certifications Required with the Bid

- A. Bidders must submit the following duly completed certifications as part of their bid.

5.2.1 Integrity Provisions - Declaration of Convicted Offences

- A. In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, if applicable, the Integrity declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.3 Certifications Precedent to Contract Award and Additional Information

- A. The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame specified will render the bid non-responsive.

5.3.1 Integrity Provisions - Required Documentation

- A. In accordance with the section titled "Information to be provided when bidding, contracting, or entering into a real procurement agreement" of the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.3.2 Federal Contractors Program for Employment Equity - Bid Certification

- A. By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](#)" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

- B. Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

5.3.3 Product Conformance

- A. The Bidder certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the contract, to all technical specifications of Annex A, Requirement. This certification does not relieve the bid from meeting all mandatory technical evaluation criteria detailed in Part 4.

Signature of Bidder's Authorized Representative Date

5.3.4 Price Certification

The Bidder certifies that the price proposed;

- a. is not in excess of the lowest price charged anyone else, including the Bidder's most favoured customer, for the like quality and quantity of the goods, services or both;
- b. does not include an element of profit on the sale in excess of that normally obtained by the Bidder on the sale of goods, services or both of like quality and quantity; and
- c. does not include any provision for discounts to selling agents.

Signature of Bidder's Authorized Representative Date

5.3.5 Contact information for Contractor's representative and After Sale Service

- A. The Bidder is requested to provide the information in Part 6 at 6.5.3 Contractor's Representative and at 6.5.4 After Sales Service.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

- A. There is no security requirement applicable to the Contract.

6.2 Requirement

- A. The Contractor must provide the item(s) detailed under the Requirement at Annex A and the Basis of Payment at Annex B.

6.2.1 Technical Changes, Substitutes, and Alternatives

- A. Any technical changes, substitutes and alternatives proposed by the Contractor must be evaluated for acceptance by the Technical Authority. Any substitutes and alternatives must be equivalent in form, fit, function, quality and performance to what is being replaced and must be at no additional cost to Canada. Substitutes and alternatives that are offered as equivalent will only be acceptable once they are approved by the Technical Authority as an equivalent. A contract amendment will be issued.
- B. Should the Technical Authority not accept the substitute or the alternative and the Contractor is unable to meet the technical requirement, Canada may terminate the contract for default in accordance with the general conditions stated in the contract.

6.3 Standard Clauses and Conditions

- A. All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions (SACC) Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

- A. 2010A (2022-01-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract, with the following modification:
- (i) Article 01, Interpretation, definition of "Canada", "Crown", "Her Majesty" or "the Government", is deleted in its entirety and replaced with the following:
- "Canada", "Crown", "Her Majesty" or "the Government" means Her Majesty the Queen in right of Canada as represented by the Minister of National Defence and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of National Defence has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister.
- (ii) Article 09, Warranty, subsections 1 and 2 are deleted in their entirety and replaced with the following:
1. Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any provisions of the Contract or any condition, warranty or provision imposed by law, the Contractor, if requested by Canada to do so, must replace, repair or correct, at its own option and expense any work that becomes defective or fails to conform to the requirements of the Contract, where applicable. The warranty period will be 12 months after delivery and acceptance of the Work or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer.

2. The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

6.3.2 Existing Technical Publications - Translation

- A. The Contractor grants to Canada a non-exclusive, perpetual, irrevocable and royalty-free license to translate and reproduce for government use all or any part of the technical publications supplied with the equipment delivered under the Contract. Copyright in the translation made by Canada or by independent contractors engaged by Canada will belong to Canada.

6.3.3 Compliance with on-site measures, standing orders, policies and rules

- A. The Contractor must comply and ensure that its employees and subcontractors comply with all security measures, standing orders, policies or other rules in force at the site where the Work is performed.

6.4 Term of Contract

6.4.1 Period of the Contract

- A. The period of the Contract is from date of Contract to **[date to be specified in the resulting contract]** inclusive.

6.4.2 Delivery Dates

- A. All the deliverables must be received on or before the date(s) specified in Annex B of the Contract.

6.4.3 Delivery Points

- A. Delivery of the requirement must be made to delivery point(s) specified at Annex B of the Contract.
- B. The Contractor must deliver the goods by appointment only. The Contractor is responsible for contacting the Technical Authority in advance of shipping to obtain the contact information for the delivery point(s). The Contractor or its carrier must arrange delivery appointments by contacting the delivery point(s). The consignee(s) may refuse shipments when prior arrangements have not been made. When the carrier is required to return due to its failure to make an appointment for delivery, Canada will not be liable to pay for additional costs.

6.5 Authorities

6.5.1 Contracting Authority

- A. The Contracting Authority for the Contract is:

Name: Brian James
Title: Materiel Acquisition and Support Officer
Position: DLP 5-3-4-1
Address: Department of National Defence Headquarters
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
Telephone: 819-939-3299
E-mail: brian.james3@forces.gc.ca

- B. The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Technical Authority

- A. The Technical Authority for the Contract is:

[Contact information to be detailed in the resulting contract]

Name: _____
Title: _____
Position: _____
Address: Department of National Defence Headquarters
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
Telephone: _____
E-mail: _____

- B. The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority; however, the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

[Contact information to be detailed in the resulting contract]

Name: _____
Title: _____
Address: _____

Telephone: _____
E-mail: _____

6.5.4 After Sales Service

- A. The following dealer(s) and/or agent(s) is(are) authorized to provide after sales service, maintenance, and warranty repairs; and a full range of repair parts for the vehicle/equipment offered:

[Contact information to be included with the bid]

Name: _____
Title: _____
Address: _____

Telephone: _____
E-mail: _____

6.6 Payment

6.6.1 Basis of Payment

6.6.1.1 Firm Unit Price

- A. In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price, as specified in Annex B for a cost of \$[amount to be detailed in the resulting contract]. Customs duties are included and Applicable Taxes are extra.

6.6.2 Limitation of Price

- A. Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.3 Method of Payment

6.6.3.1 Multiple Payments

- A. Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if:
- (i) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
 - (ii) all such documents have been verified by Canada; and
 - (iii) the Work delivered has been accepted by Canada.

6.6.4 Electronic Payment of Invoices

- A. The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

[List to be updated in the resulting contract]

- (i) Direct Deposit (Domestic and International);
- (ii) Electronic Data Interchange (EDI) (International only);
- (iii) Wire Transfer (International Only); and

6.6.5 Discretionary Audit - Commercial Goods and/or Services

- A. The Contractor's certification that the price or rate is not in excess of the lowest price or rate charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the goods, services or both, is subject to verification by government audit, at the discretion of Canada, before or after payment is made to the Contractor.

If the audit demonstrates that the certification is in error after payment is made to the Contractor, the Contractor must, at the discretion of Canada, make repayment to Canada in the amount found to be in excess of the lowest price or rate or authorize the retention by Canada of that amount by way of deduction from any sum of money that may be due or payable to the Contractor pursuant to the Contract.

If the audit demonstrates that the certification is in error before payment is made, the Contractor agrees that any pending invoice will be adjusted by Canada in accordance with the results of the audit. It is further agreed that if the Contract is still in effect at the time of the verification, the price or rate will be lowered in accordance with the results of the audit.

6.7 Invoicing

6.7.1 Invoicing Instructions

- A. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
- B. Each invoice must contain or be supported by the applicable documents:
- (i) The serial number(s), or a copy of the New Vehicle Information Statement (NVIS) containing the Vehicle Identification Number(s) (VIN);

- (ii) A copy of the release document and any other documents as specified in the Contract;
- (iii) A copy of the monthly progress report;
- (iv) A description of the Work delivered; and
- (v) A breakdown of the cost elements.

C. Invoices must be distributed as follows:

- (i) The invoice along with any required supporting documentation must be forwarded to the Contracting Authority for certification and payment at:

Email: **email to be detailed in the resulting contract**

- (ii) By submitting a .pdf copy, the Contractor certifies that the .pdf copy of each invoice will be considered as the original invoice. In addition, the Contractor must indicate the contract number and name of the Contracting Authority in its covering e-mail.

6.7.2 Holdback

- A. A 10% holdback will apply on the total value of any due payment.
- B. Applicable Taxes must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous invoice.
- C. Release of the 10% holdback is conditional upon receipt and certified acceptance of all Work under this Contract.
- D. Invoicing instructions for the holdback are as detailed in the clause entitled "Invoicing Instructions".

6.8 Certifications and Additional Information

6.8.1 Compliance

- A. Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

- A. The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario **or as specified by the bidder in its bid, if applicable**.

6.10 Priority of Documents

- A. If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list:
 - (i) The Articles of Agreement;
 - (ii) The General Conditions 2010A (2022-01-28), General Conditions - Goods (Medium Complexity);
 - (iii) Annex A, Requirement;

- (iv) Annex B, Basis of Payment;
- (v) the Contractor's bid dated [date to be specified in the resulting contract], as clarified on [date to be specified in the resulting contract, if required], and as amended on [date to be specified in the resulting contract, if required].

6.11 Defence Contract

- A. The Contract is a defence contract within the meaning of the *Defence Production Act*, R.S.C. 1985, c. D-1 (<http://laws-lois.justice.gc.ca/eng/acts/d-1/>), and must be governed accordingly.
- B. Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the *Defence Production Act*.

One of the following options will be inserted in the resulting contract, as applicable:

Option 1: When the contract is to be with a Canadian-based supplier, or

6.12 Foreign Nationals (Canadian Contractor)

- A. The Contractor must comply with Canadian immigration requirements applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Service Canada regional office to enquire about Citizenship and Immigration Canada's requirements to issue a temporary work permit to a foreign national. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

Option 2: When the contract is to be with a foreign-based supplier,

6.12 Foreign Nationals (Foreign Contractor)

- A. The Contractor must comply with Canadian immigration legislation applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Canadian Embassy, Consulate or High Commission in the Contractor's country to obtain instructions, information on Citizenship and Immigration Canada's requirements and any required documents. The Contractor is responsible to ensure that foreign nationals have the required information, documents and authorizations before performing any work under the Contract in Canada. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

6.13 Insurance - No Specific Requirement

- A. The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

6.14 Inspection and Acceptance

- A. The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Requirement and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.15 Post-Contract Award Meeting

- A. Within 10 days of the date of Contract, the Contractor must contact the Contracting Authority to determine if a post-contract award meeting is required. A meeting will be convened at the discretion of the Contracting Authority to review technical and contractual requirements. The Contractor must prepare and distribute the minutes of the meeting within 5 calendar days after the completion of the meeting. The meeting will be held at the Contractor's facility or via teleconference at Canada's discretion at no additional cost to Canada, with representatives of the Contractor and the Department of National Defence.

6.16 Quality Management Systems - Requirements (Quality Assurance Code C)

- A. The Contractor is responsible for implementing a quality system appropriate to the scope of the work to be performed. It is recommended that the quality system be based on *ISO 9001:2015 "Quality management systems - Requirements."*
- B. The Contractor is responsible for performing or having performed all inspections and tests necessary to substantiate that the material or services provided conform to the drawings, specifications and the requirements of the contract. The Contractor must keep accurate and complete inspection records which must, upon request, be made available to the authorized Department of National Defence (DND) representative, who may make copies and take extracts during the performance of the Contract and for a period of 1 year after the completion of the Contract.
- C. Despite the above, all material is subject to verification and acceptance by DND at destination. The authorized DND representative at destination may either be the consignee(s), the Technical Authority, or the Quality Assurance Authority.

6.17 Material

- A. Material supplied must be new unused and of current production by manufacturer.

6.18 Interchangeability

- A. Unless changes during the production run are authorized by the Contracting Authority, all vehicles/equipment supplied against any one item of a contract must be the same make and model, and all like assemblies, sub-assemblies and parts must be interchangeable.

6.19 Vehicle Safety

- A. Each vehicle supplied pursuant to the Contract must meet the applicable provisions of the [Motor Vehicle Safety Act](http://laws-lois.justice.gc.ca/eng/acts/M-10.01/page-1.html), S.C. 1993, c. 16 (<http://laws-lois.justice.gc.ca/eng/acts/M-10.01/page-1.html>), and the applicable regulations that are in force on the date of its manufacture.

6.20 Recall Notices

- A. All recall notices must be forwarded to the Technical Authority identified in this Contract

6.21 Packaging

- A. The methods used for preservation and packaging must be in conformity with the Contractor's normal standard for domestic shipment or, if necessary, with standards for overseas shipment as below deck cargo.

6.22 Wood packaging materials

- A. All wood packaging materials used in shipping must conform to the [International Standards for Phytosanitary Measures No. 15: Regulation of Wood Packaging Material in International Trade \(ISPM 15\)](https://www.ippc.int/en/core-activities/standards-setting/ispms/) (<https://www.ippc.int/en/core-activities/standards-setting/ispms/>).
- B. Pertinent additional information on Canada's import and export programs is provided in the following Canadian Food Inspection Agency policy directives:

- (i) D-98-08 - [Entry Requirements for Wood Packaging Materials Produced in All Areas Other Than the Continental United States](http://www.inspection.gc.ca/plants/plant-protection/directives/forestry/d-98-08/eng/1323963831423/1323964135993) (<http://www.inspection.gc.ca/plants/plant-protection/directives/forestry/d-98-08/eng/1323963831423/1323964135993>); and
- (ii) D-13-01 - [Canadian Heat Treated Wood Products Certification Program \(HT Program\)](http://www.inspection.gc.ca/plants/forestry/exports/ht-program/eng/1319462565070/1319462677967) (<http://www.inspection.gc.ca/plants/forestry/exports/ht-program/eng/1319462565070/1319462677967>).

6.23 Preparation for Delivery

- A. The equipment must be serviced, adjusted and delivered in condition for immediate use. The equipment must be cleaned before leaving the factory and being released to Inspection Authority or consignee personnel at the final delivery point.

6.24 Delivery of Dangerous Goods/Hazardous Products

- A. The Contractor must mark dangerous goods/hazardous products which are classed as dangerous/hazardous as follows:
 - (i) shipping container - in accordance with the [Transportation of Dangerous Goods Act](http://laws-lois.justice.gc.ca/eng/acts/T-19.01/), 1992, c. 34 (<http://laws-lois.justice.gc.ca/eng/acts/T-19.01/>); and
 - (ii) immediate product container - in accordance with the [Hazardous Products Act](http://laws-lois.justice.gc.ca/eng/acts/H-3/), R.S., 1985, c. H-3 (<http://laws-lois.justice.gc.ca/eng/acts/H-3/>).
- B. The Contractor must provide bilingual Safety Data Sheets, indicating the NATO Stock Number as follows:
 - (i) 2 hard copies:
 - (a) 1 copy to be enclosed with the shipment, and
 - (b) 1 copy to be mailed to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
Attention: DSCO 5-4-2
 - (ii) 1 copy sent in any electronic format to the following address: MSDS-FS@FORCES.GC.CA.
- C. The Contractor will be responsible for any damages caused by improper packaging, labelling or carriage of dangerous goods/hazardous products.
- D. The Contractor must ensure they adhere to all levels of regulations regarding dangerous goods/hazardous products as set forth by federal, provincial, and municipal laws and by-laws.
- E. The Contractor must contact the consignee (i.e. Supply Depot Traffic Section) at least 48 hours before shipping dangerous goods/hazardous products in order to schedule a receiving time.

6.25 Tools and Loose Equipment

- A. For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF1280) or on an attached packing note.

6.26 Delivery and Unloading

- A. Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.
- B. When making deliveries, sufficient personnel must be provided to permit unloading of any type of vehicle without the assistance of federal government personnel.
- C. At some sites, the delivery truck must be unloaded while parked at the curb. When material is placed on the sidewalk, it must be placed in proximity to the designated entrance so as to be readily accessible to transport by mechanical handling equipment utilized by site personnel.

6.27 Incomplete Assemblies

- A. The Contractor must not ship incomplete assemblies unless the authorization for such shipment has been obtained from the Contracting Authority.

6.28 Work Site Access

- A. Authorized representatives of Canada must have access to any site where any part of the Work is being carried out at any time during working hours to make examinations and such tests of the Work as they may think fit.

6.29 Canadian Forces Site Regulations

- A. The Contractor must comply with all standing orders or other regulations, instructions, and directives in force on the site where the Work is performed.

6.30 Marking

- A. The Contractor must ensure that the manufacturer's name and part number are clearly stamped or etched on each item for positive identification purposes.

6.31 Labelling

- A. The Contractor must ensure that the manufacturer's and specification numbers appear on each item, either printed on the container or on an adhesive label of highest commercial standard affixed to the container.

6.32 Progress Reports

- A. The Contractor must submit monthly reports, in electronic format, on the progress of the Work, to both the Technical Authority and the Contracting Authority.

Each progress report must address the following questions:

- (a) Is the delivery on schedule?
- (b) Is the Contract free of any areas of concern in which the assistance or guidance of Canada may be required?
- (c) Each negative response must be supported with an explanation.

6.33 Procedures for Design Change/Deviations

- A. The Contractor must follow these procedures for any proposed design change/deviation to contract specifications.
- B. The Contractor must complete Part 1 of form [PWGSC-TPSGC 9038 \(PDF 241 KB\)](#) - ([Help on File Formats](#)) Design Change/Deviation, and forward one (1) copy to the Technical Authority and one (1) copy to the Contracting Authority.

- C. The Contractor will be authorized to proceed upon receipt of the design change/deviation form signed by the Contracting Authority. A contract amendment will be issued to incorporate the design change/deviation in the Contract.

6.34 Dispute Resolution Services

- A. The parties understand that the Procurement Ombudsman appointed pursuant to subsection 22.1 (1) of the Department of Public Works and Government Services Act will, on request of a party, provide a proposal for an alternative dispute resolution process to resolve any dispute arising between the parties respecting the interpretation or application of a term or condition of this contract. The parties may consent to participate in the proposed alternative dispute resolution process and to bear the cost of such process. The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at boa.opo@boa.opo.gc.ca.

ANNEX A - REQUIREMENT

See attached document(s) entitled:

“Purchase Description for Mobile Communications Vehicle”, dated July 2021.

ANNEX B - BASIS OF PAYMENT

1. General

A. All prices and costs are in Canadian Dollars, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

2. Firm Goods and/or Services

2.1 Mobile Communications Vehicle

A. The Firm Unit Price(s) include(s) associated specifications and deliverables as per Annex A, Requirement, Delivered Duty Paid (DDP) specified Delivery Point, Incoterms 2010:

Item	Delivery Point	Delivery Date	Quantity Required	Make/Model	Firm Unit Price
001	CFSU Ottawa 250 Convair Private Hangar 14 Ottawa, ON K1V 2E5	[Date to be detailed in the resulting contract]	1	To be added in the resulting contract	[\$[Cost to be detailed in the resulting contract]

3 Extended Warranty Period

A. If the warranty period is extended for an additional period of [To be added in the resulting contract] months/calendar days, the Contractor will be paid a firm unit price of \$[Cost to be detailed in the resulting contract] per vehicle/equipment, applicable taxes are extra.



Annex A

W8476-226506/A

July 2021

NOTICE



This documentation has been reviewed by the Technical Authority
and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne
contient pas de marchandises contrôlées.

PURCHASE DESCRIPTION

FOR

MOBILE COMMUNICATIONS VEHICLE

OPI: DSVPM 4 – BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense

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Canada

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1.0 SCOPE

1.1 Purpose

This document describes the requirements for a customized communications utility van. This includes design, development and fabrication.

1.2 Instructions

1.2.1 Requirements, which are identified by the word “**must**”, are mandatory. Deviations will not be permitted.

1.2.2 Requirements identified by “**must**” or “**equivalent**” are mandatory. The Technical Authority will consider substitutes/alternatives offered and will provide acceptance if suitable.

1.2.3 Where “**must**”, or “**equivalent**”, or “**will**” are not used, the information provided is for guidance only.

1.2.4 Where a standard is specified and the Bidder has offered an **equivalent**, that **equivalent** standard **must** be supplied by the Bidder.

1.2.5 Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable proof of compliance **must** be provided for the vehicle when requested by the Technical Authority up until the date of the expiration of the warranty period.

1.2.6 While the metric system is used as the primary system of measurement to define requirements in this Purchase Description, both the metric system and the imperial system of measurements may be indicated. Conversions from one system of measurement to the other may not be exact.

1.2.7 Dimensions stated as nominal are treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 Definitions

1.3.1 “Provided” means “provided and installed”.

1.3.2 “Vehicle” means the communications van for which this purchase description is written.

1.3.3 “Technical Authority” means the official responsible for the technical content of this Purchase Description.

1.3.4 “**Equivalent**” means a standard, means, or component type, which the Technical Authority has approved for this requirement as meeting the specified requirements for fit.

1.3.5 “Commercially provided” means that the vehicle is provided in its standard commercial configuration, with no additional government-specific requirements.

1.3.6 “Road Legal” means the vehicle can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits.

1.3.7 “Curb Weight” means the weight of the fully equipped vehicle. The Curb Weight includes vehicle, all attached accessories, equipment, fuel, lubricant and coolants. The Curb Weight does not include the Payload.

1.3.8 “Payload” means the maximum cargo load carrying capacity of the vehicle. The payload is the calculated difference between the Curb Weight and the Gross Vehicle Weight Rating.

1.3.9 “Gross Vehicle Weight” (GVW) means the sum of the Curb Weight and the Payload. The GVW cannot exceed the Gross Vehicle Weight Rating (GVWR);

1.3.10 “Gross Vehicle Weight Rating” (GVWR) means the maximum operating weight of the vehicle as stated by the manufacturer.

1.3.11 “Roadside” means the side of the vehicle located behind the vehicle driver, closer to the middle of a Canadian road.

1.3.12 “Curbside” means the side of the vehicle located closer to the curb of a Canadian road.

1.3.13 “I/O” means “Input / Output”, in the context of electronic equipment.

1.3.14 “SMS” means “short message service” in the context of mobile device systems.

2.0 APPLICABLE DOCUMENTS

2.1 Reference Documents

2.1.1 The following documents form part of this Purchase Description. Canada will not be supplying any reference documents. Sources are as shown:

- a. Canadian Motor Vehicle Safety Standards (CMVSS)
Transport Canada,
Road Vehicle and Motor Vehicle Regulation,
330 Sparks Street,
Ottawa, Ontario K1A 0N5
<https://www.tc.gc.ca/eng/acts-regulations/regulations-crc-c1038.htm>
- b. Hazardous Products Act
Government of Canada / Department of Justice
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>
- c. International Organization for Standardization (ISO)
ISO Central Secretariat¹, ch. de la Voie-Creuse
CP 56, CH-1211 Geneva 20
Switzerland
<http://www.iso.org/iso/home.htm>
- d. SAE Standards
SAE World Headquarters
400 Commonwealth Dr.
Warrendale, PA, 15096-0001
<http://www.sae.org>
- e. National Floor Safety Institute

200, 2815 Exchange Blvd
Southlake, TX 76092,
United States
<https://nfsi.org/certifications/certified-products/>
- f. CSA Group

178 Rexdale Blvd.
Toronto, ON M9W 1R3
Canada
<https://www.csagroup.org/>
- g. UL Standard 458

<https://standardscatalog.ul.com/ProductDetail.aspx?productId=UL458>

3.0 REQUIREMENTS

3.1 Standard Design

3.1.1 The vehicle ***must*** be the latest model from a manufacturer who has demonstrated acceptability by selling, in North America, this type and size class of vehicle for at least three (3) years.

3.1.2 The vehicle ***must*** conform to all applicable laws, regulations and industrial standards governing manufacturing and safety in effect in Canada at the time of manufacture.

3.1.3 The vehicle ***must*** not have systems and components operating at capacities beyond those published by the system or component manufacturer.

3.2 Operating Conditions

3.2.1 **Weather:** The vehicle ***must*** operate under the extremes of weather conditions found in Canada in temperatures ranging from -40°C to 40°C.

3.2.2 **Terrain:** The vehicle ***must*** operate on highways, secondary roads and gravel and dirt roads in year round operations, including snow and ice conditions.

3.3 Safety Standards

3.3.1 **Vehicle Safety Regulations:** The vehicle ***must*** meet the provisions of the Canada Motor Vehicle Safety Act in effect on the date of manufacture of the vehicle;

3.3.2 **Hazardous Materials:** The vehicle ***must*** comply with the Hazardous Products Act of Canada concerning the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals used in the manufacture and assembly.

3.3.3 **Electrical Code:** All electrical systems in the vehicle ***must*** follow the Canadian Electrical Code.

3.4 Configuration and Overall Dimensions

3.4.1 The vehicle ***must*** be provided as a single unit (i.e. not a vehicle and trailer combination).

3.4.2 The vehicle ***must*** feature an extended chassis with a wheelbase of 431.8 cm (170 in).

3.4.3 The vehicle's cargo area ***must*** be internally configured to include a workspace, a set of equipment racks, and a utility area, as shown in Appendix 1.

3.4.4 The cargo area ***must*** be at least 469.9 cm (185 in) in length.

3.4.5 The cargo area **must** be at least 177.8 cm (70 in) in width.

3.4.6 The cargo area **must** have an internal height of at least 185.4 cm (73 in), after all custom finishes are applied (with the exception of the local height below the ceiling-mounted air conditioning unit).

3.5 Payload

3.5.1 The vehicle **must** be rated for a minimum GVWR of 5,003 kg (11,030 lb).

3.6 Engine & Engine Compartment

3.6.1 The vehicle **must** be provided with a diesel engine that supports safe vehicle operation at highway speeds, with a minimum size of 134 kW (180 HP).

3.6.2 The vehicle **must** be provided with an automatic transmission equipped with an extra oil cooler.

3.6.3 The vehicle **must** be provided with cruise control.

3.6.4 The engine compartment **must** be provided with a maintenance-free, deep discharge dual battery system.

3.6.5 Each battery **must** feature a capacity of at least 95 Ah.

3.6.6 The vehicle **must** feature a minimum fuel capacity of 92 L in a single tank.

3.7 Doors, Mirrors, and Windows

3.7.1 The vehicle **must** be provided with a curbside sliding door, located behind the passenger door.

3.7.2 The vehicle **must** be provided with hinged dual rear doors.

3.7.3 The dual rear doors **must** each feature 270 degrees of opening.

3.7.4 The doors **must** be provided with keyless entry and power locks.

3.7.5 The front doors **must** be provided with power heated mirrors.

3.7.6 The front doors **must** be provided with power windows.

3.7.7 The vehicle **must** not feature windows on the rear cargo doors or on the sliding door.

3.7.8 Each rear door **must** feature a rack of at least three (3) hooks for hanging cables, located at the top of the internal face of the door.

3.7.9 Each hook **must** support a load of 45.4 kg (100 lb) without noticeable deflection.

3.7.10 Each hook **must** support a wound harness of a minimum cross section diameter of 7.6 cm (3 in).

3.8 Cabin

3.8.1 The vehicle cabin **must** be provided with the standard automatic temperature control module including a heater and air conditioner.

3.8.2 The vehicle **must** be provided with driver and passenger high-back bucket seats featuring armrests and adjustable headrests.

3.8.3 The passenger seat **must** be able to rotate 180 degrees to face the rear of the vehicle.

3.8.4 The passenger seat **must** be provided with a switch to alert the custom dashboard module when the seat is disengaged (not facing forward in factory position).

3.9 Security Alarm

3.9.1 The vehicle **must** be provided with a key-activated security alarm to protect all doors from unauthorized access to the vehicle

3.9.2 The security alarm system **must** feature a siren that produces a continuous warning noise.

3.9.3 The siren **must** produce noise at a minimum level of 120 dBA, measured from a distance of 3 meters.

3.9.4 The alarm system **must** be provided with remote status, activation, and deactivation (through email or SMS text) operations.

3.9.5 The alarm system **must** be provided with an indicator LED installed in the dashboard module to illuminate when the system is armed.

3.9.6 The alarm system **must** not be mutable when the vehicle is in drive gear.

3.10 Parking Assist System

3.10.1 The vehicle dashboard **must** be provided with a monitor to assist with parking and navigation.

3.10.2 The monitor **must** be Pioneer model AVH-W4500NEX or **equivalent**.

3.10.3 The vehicle **must** be provided with a rear-mounted camera to assist with parking.

- 3.10.4 The monitor **must** feature a view from the rear-mounted camera.
- 3.10.5 The vehicle **must** be provided with backup distance sensors to assist with parking.
- 3.10.6 The vehicle **must** be provided with a backup alarm.
- 3.10.7 The rear-mounted camera **must** be provided with localized lighting.
- 3.10.8 When the vehicle is put into reverse gear, the camera and localized lighting **must** be activated, with the camera's output displayed on the monitor.
- 3.10.9 The dashboard **must** be provided with a switch to activate the camera and localized lighting, with the camera's output displayed on the monitor.

3.11 GPS System

- 3.11.1 The vehicle dashboard **must** be provided with a GPS unit to support navigation.
- 3.11.2 The GPS unit **must** display on the dashboard's monitor.
- 3.11.3 The GPS unit **must** be loaded with complete, updated maps of all available North American roadways.

3.12 Dashboard Module

- 3.12.1 The vehicle's cabin **must** be provided with a custom dashboard module to contain various controls for different features.
- 3.12.2 The dashboard module **must** be provided with the following items:
- a. Switches for each external work light group (roadside lights, curbside lights, rear lights);
 - b. Switch for inverter operation (with indicator LED);
 - c. Switch for generator operation (with indicator LED);
 - d. Indicator LED for security alarm activation;
 - e. Indicator LED for passenger swivel seat in disengaged position;
 - f. Indicator LED for doors opened; and
 - g. Switch for putting batteries (engine compartment and generator-adjacent) in parallel
- 3.12.3 The dashboard module **must** have engraved labels for all items.

3.13 Fog Lamps

3.13.1 The vehicle **must** be provided with standard OEM fog lamps.

3.14 Rear Step & Running Boards

3.14.1 The vehicle **must** be provided with a rear hitch step, mounted on a class III (or higher) hitch, to facilitate access to the utility area.

3.14.2 The step **must** have minimum step area of 30.5 cm deep by 91.4 cm wide (12 x 36 in).

3.14.3 The vehicle **must** be provided with a running board along the driver door.

3.14.4 The vehicle **must** be provided with a single running board along the passenger and sliding doors.

3.14.5 The running boards **must** extend at least 20.3 cm (8 in) outwards from the internal door trim, to allow for adequate support.

3.14.6 The step and running boards **must** feature non-skid surface qualified by the National Floor Safety Institute.

3.14.7 The step and running boards **must** support a load of 150 kg, applied on a 15 cm x 15 cm area anywhere, without noticeable deformation on the running boards or mounting supports.

3.15 Cable Hatches

3.15.1 The vehicle **must** be provided with a total of four (4) round cable hatches in order to pass cables outside the vehicle.

3.15.2 The hatches **must** be located on both sides of the vehicle as follows:

- a. One hatch per side with access to the front of the 19-inch racks; and
- b. One hatch per side with access to the rear of the 19-inch racks.

3.15.3 The hatches **must** have a minimum internal diameter of 5.1 cm (2 in).

3.15.4 The hatches **must** have hinged (non-detachable) and sealed covers for protection against ingress.

3.16 Drip Rails

3.16.1 The vehicle **must** be provided with drip rails installed at the roofline on all sides.

3.17 Curtain / Divider

3.17.1 The vehicle **must** be provided with a curtain or divider located between the front cabin and the workspace in order to maintain privacy during workspace operations.

3.17.2 The curtain **must** be fully removable.

3.17.3 The curtain **must** be composed of an opaque material.

3.18 Flooring & Tie-down Anchors

3.18.1 The vehicle's floor **must** be covered with 1.6 cm (5/8 in) thick composite material throughout the vehicle, excluding the driver and passenger area, to reduce interior noise levels.

3.18.2 The vehicle's composite flooring **must** be finished with a non-skid surface qualified by the National Floor Safety Institute.

3.18.3 The vehicle's driver and passenger areas **must** feature vinyl floor covering and rubber floor mats.

3.18.4 The van **must** be provided with a total of twelve (12) floor-recessed tie-down anchors, to allow material to be securely transported.

3.18.5 The tie-down anchors **must** be located as shown in Appendix 1.

3.18.6 Each tie-down anchor **must** support a minimum load of 68 kg (150 lb).

3.18.7 The tie-down anchors **must** be D-ring style.

3.19 Van Internal Finish

3.19.1 The interior of the van **must** be fully insulated, with dense foam insulation inside the walls, ceiling, and floor.

3.19.2 The insulation **must** be 2.5 cm (1 in) thickness, of R-value 6.

3.19.3 The van's interior walls and ceiling **must** be panelled with B-grade plywood, of 0.95 cm (3/8 in) thickness.

3.19.4 The van's interior walls and ceiling **must** be finished with a grey carpet liner.

3.19.5 The van **must** feature a vinyl splash guard, minimum of 7.6 cm (3 in) height, installed at the base of the walls in the workspace and the utility area.

3.19.6 All internal finish materials **must** comply with the flammability requirements of CMVSS TSD 302.

3.20 Work Tables

- 3.20.1 The van **must** be provided with a pair of hinged, folding tables in the workspace, as shown in Appendix 1.
- 3.20.2 The curbside table **must** be dimensioned at 40.6 cm (16 in) depth and 50.8 cm (20 in) width.
- 3.20.3 The roadside table **must** be dimensioned at 61 cm (24 in) depth and 71.1 cm (28 in) width.
- 3.20.4 The tables **must** fold towards the floor when unused.
- 3.20.5 The tables **must** be provided with a locking method for securing and to reduce objectionable noise during vehicle motion.
- 3.20.6 The countertops of the tables **must** feature a thickness of 3.8 cm (1.5 in).
- 3.20.7 The countertops of the tables **must** be composed of solid hardwood.
- 3.20.8 The tables **must** fold to a height of 76.2 cm (30 in) above the floor when engaged in use.

3.21 Dry-erase and Pin Boards

- 3.21.1 The van **must** be provided with dry-erase boards and a pin board, as shown in Appendix 1.
- 3.21.2 The boards **must** feature aluminium frames.
- 3.21.3 The boards **must** be securely mounted to the walls.

3.22 Apparel Rack

- 3.22.1 The vehicle **must** be provided with a single-beam apparel rack in the roadside cabinet, located per Appendix 1.
- 3.22.2 The rack (and reinforcement structure) **must** support a maximum central load of 136.4 kg (300 lb) without noticeable deflection.
- 3.22.3 The rack **must** be constructed from either aluminium or stainless steel, in order to minimize corrosion.
- 3.22.4 The rack **must** feature a cross-sectional circular beam of diameter no larger than 6.4 cm (2.5 in).
- 3.22.5 The rack **must** be located such that the centreline (middle of the beam) is at a height of 142.2 cm (56 in) from the floor.

3.23 Shelf

- 3.23.1 The van **must** be provided with a shelf, placed above the apparel rack.
- 3.23.2 The shelf **must** be dimensioned and located according to Appendix 1.
- 3.23.3 The shelf **must** have a storage depth of 55.9 cm (22 in).
- 3.23.4 The shelf **must** be constructed from aluminium.
- 3.23.5 The shelf **must** be provided with a 7.6 cm (3 in) tall lip at the front upper edge, to prevent articles from sliding into the workspace.
- 3.23.6 The shelf **must** support a minimum weight of 68.2 kg (150 lb).

3.24 Overhead Cabinets

- 3.24.1 The van **must** be provided with an overhead cabinet located on the roadside of the vehicle in the workspace, as shown in Appendix 1.
- 3.24.2 The van **must** be provided with a cabinet located in the utility area, as shown in Appendix 1.
- 3.24.3 The cabinets **must** be made from cabinet grade, 1.9 cm (3/4 in) thick plywood.
- 3.24.4 The cabinets **must** feature positive latches installed on all the doors.
- 3.24.5 The cabinet interiors **must** be finished with white laminate cabinet liners.
- 3.24.6 The cabinet exteriors **must** be finished with grey laminate cabinet liners.
- 3.24.7 The cabinet's interior bottom surfaces **must** be rubber laminated.
- 3.24.8 The outer faces of the cabinet doors **must** be finished with high-gloss white board laminate cabinet liners.
- 3.24.9 The workspace cabinet **must** feature a row of two compartments, each with 2 doors.
- 3.24.10 Each workspace cabinet compartment **must** be internally dimensioned to 50.8 cm (20 in) width, 20.3 cm (8 in) depth, and 40.6 cm (16 in) height.
- 3.24.11 The utility area cabinet **must** feature one compartment, with two doors.
- 3.24.12 The utility area cabinet **must** be internally dimensioned to 81.3 cm (32 in) width, 30.5 cm (12 in) depth, and 40.6 cm (16 in) height.

3.25 Storage Rack

- 3.25.1 The van **must** be provided with a storage rack to house the microwave oven, refrigerator, and toolbox cabinet.

- 3.25.2 The rack **must** be dimensioned and located according to Appendix 1, featuring an outer width of 61 cm (24 in).
- 3.25.3 The rack **must** have a storage depth of 55.9 cm (22 in).
- 3.25.4 The rack **must** be constructed from aluminium.
- 3.25.5 The rack **must** be secured against the van's internal wall.
- 3.25.6 The rack **must** support a minimum weight of 68.2 kg (150 lb) on each shelf.
- 3.25.7 The rack **must** provide mechanical mounting of the microwave and refrigerator in order to prevent unintended relative movement.

3.26 120VAC Electrical System

- 3.26.1 The vehicle **must** be provided with a 120VAC, 60 Hertz electrical system.
- 3.26.2 The 120VAC system **must** be provided with a current/voltage protection sub-system and a fuse panel.
- 3.26.3 The 120VAC system **must** be distributed into four (4) buses.
- 3.26.4 The 120VAC buses **must** be distributed to support elements as follows:

a.	Power Bus 1	<ul style="list-style-type: none"> • Curbside Rack • Center Rack • Roadside Rack
b.	Power Bus 2	<ul style="list-style-type: none"> • Interior 120VAC outlets
c.	Power Bus 3	<ul style="list-style-type: none"> • 12V Battery Charger • Rack Heater • External 120VAC outlets
d.	Power Bus 4	<ul style="list-style-type: none"> • Air Conditioning Unit (auxiliary) • Wall Heater • Microwave

- 3.26.5 The vehicle's 120VAC electrical system **must** comply with CSA C22.

3.27 12VDC Electrical System

- 3.27.1 The vehicle **must** be provided with a 12VDC electrical system to power the 12V accessories and the inverter.

3.27.2 The 12V system **must** be provided with a current/voltage protection sub-system and a fuse panel.

3.27.3 The 12V system **must** be provided with a generator-adjacent pair of 12V, group 31 batteries, each of minimum capacity 95 Ah, to provide additional backup power.

3.27.4 The 12V system **must** be provided with a power converter to automatically support the 12V load and recharge the vehicle batteries (both starter and auxiliary) when a 120VAC source (either shore power or generator) is available.

3.28 Equipment Racks

3.28.1 The vehicle **must** feature three (3) equipment racks (roadside rack, center rack, and curbside rack), to be located at the back of the workspace, as shown in Appendix 1.

3.28.2 The equipment racks **must** feature the standardized frame width of 48.3 cm (19 inch).

3.28.3 The roadside and curbside racks **must** be fitted against the roadside and curbside walls and adapted to fit over the wheel wells.

3.28.4 The roadside and curbside racks **must** extend from the top of the wheel well to the finished ceiling.

3.28.5 The center rack **must** be located between the short racks, extending from the floor to the finished ceiling.

3.28.6 Each rack **must** have two (2) bottom-mounted cooling fans.

3.28.7 The cooling fans **must** operate on the 120VAC power system.

3.28.8 Each rack **must** have appropriate vents located at their top.

3.28.9 Each rack **must** have hinged doors to provide access to the back of the racks from the utility area.

3.28.10 Each rack **must** have two (2) 6-outlet rack-mountable strips for power distribution connected to the 120VAC system, mounted vertically and unblocked by rack doors or latches.

3.29 Rack-mounted Heater

3.29.1 The center rack **must** be provided with a rack-mounted heater located at the bottom.

3.29.2 The heater **must** direct heat outwards towards the work space.

- 3.29.3 The heater **must** provide an output of 1500W.
- 3.29.4 The heater **must** be powered by the 120VAC system.
- 3.29.5 The heater **must** be provided with a manual thermostat control.

3.30 Wall-mounted Heater

- 3.30.1 The roadside wall **must** be provided with a wall-mounted heater located adjacent to the work table, as shown in Appendix 1.
- 3.30.2 The heater **must** provide an output of 1500W.
- 3.30.3 The heater **must** be powered by the 120VAC system.
- 3.30.4 The heater **must** be provided with a manual thermostat control.
- 3.30.5 The heater **must** protrude less than 15.2 cm (6 in) from the roadside wall.

3.31 Air Conditioning Unit

- 3.31.1 The vehicle **must** be provided with an auxiliary air conditioning (AC) unit with automatic temperature control.
- 3.31.2 The AC unit **must** feature both heating and cooling capabilities.
- 3.31.3 The AC unit **must** be rated for at least 4400 continuous watts.
- 3.31.4 The AC unit **must** feature a 1500W integral heating strip.
- 3.31.5 The AC unit **must** feature a fan with at least two (2) non-zero fan speeds.
- 3.31.6 The AC unit **must** be a non-ducted model.
- 3.31.7 The AC unit **must** mount to the ceiling, and not protrude more than 15.2 cm (6 in) from the ceiling.
- 3.31.8 The AC unit **must** be located centrally in the workspace area.
- 3.31.9 The AC unit **must** be powered by the 120VAC system.

3.32 Refrigerator

- 3.32.1 The van **must** be provided with a small refrigerator, located in the storage rack as shown in Appendix 1.
- 3.32.2 The refrigerator **must** be Dometic model CoolMatic CRX50 or **equivalent**.

- 3.32.3 The refrigerator **must** feature an internal volume of at least 48.1 L (1.7 cubic feet).
- 3.32.4 The refrigerator **must** feature a maximum height of 55.9 cm (22 in).
- 3.32.5 The refrigerator **must** feature a maximum depth of 55.9 cm (22 in).
- 3.32.6 The refrigerator **must** feature a maximum width of 50.8 cm (20 in).
- 3.32.7 The refrigerator **must** operate from the 12V power system.
- 3.32.8 The refrigerator **must** be provided with a local power switch.
- 3.32.9 The refrigerator **must** be provided with an automatic low voltage cut-off switch for 12V battery protection.
- 3.32.10 The refrigerator **must** be provided with a rubber base.
- 3.32.11 The refrigerator **must** not create any objectionable noise, regardless of the vehicle's operation.
- 3.32.12 The refrigerator **must** be provided with a door that latches in the closed position.
- 3.32.13 The refrigerator **must** be rated for a maximum continuous input power of 40W at a workspace temperature of 25 degrees Celsius.
- 3.32.14 The refrigerator **must** feature a manually adjustable thermostat for temperature control.
- 3.32.15 The refrigerator **must** keep a minimum internal temperature of 5 degrees Celsius at a cabin temperature of 25 degrees Celsius.
- 3.32.16 The refrigerator **must** weigh less than a maximum of 22.7 kg (50 lb).

3.33 Microwave Oven

- 3.33.1 The van **must** be provided with a small microwave oven, located in the storage rack as shown in Appendix 1.
- 3.33.2 The oven **must** be RecPro model RPM-1-BLK or **equivalent**.
- 3.33.3 The oven **must** feature an internal space of at least 25.5 L (0.9 cubic feet).
- 3.33.4 The oven **must** feature a maximum height of 40.6 cm (16 in).
- 3.33.5 The oven **must** feature a maximum depth of 61 cm (24 in).
- 3.33.6 The oven **must** feature a maximum width of 50.8 cm (20 in).

- 3.33.7 The oven **must** operate from the 120 VAC power system.
- 3.33.8 The oven **must** be provided with a local power switch.
- 3.33.9 The oven **must** be provided with a digital LED display.
- 3.33.10 The oven **must** be provided with touch pad controls.
- 3.33.11 The oven **must** be provided with custom timer options.
- 3.33.12 The oven **must** feature a rubber base.
- 3.33.13 The oven **must** not create any objectionable noise, regardless of the vehicle operation.
- 3.33.14 The oven **must** be provided with a door that latches in the closed position.
- 3.33.15 The oven **must** not feature any loose internal components (i.e. turntable) of glass composition.
- 3.33.16 The oven **must** be rated for a maximum power consumption of 1500W.
- 3.33.17 The oven **must** provide a minimum heating power of 900W.
- 3.33.18 The oven **must** weigh less than a maximum of 22.7 kg (50 lb).

3.34 Safe

- 3.34.1 The van **must** be provided with an installed baseplate for a safe (the baseplate will be provided to the Bidder as Government Furnished Equipment (GFE), to be installed by the contractor).
- 3.34.2 The location for the safe **must** support the safe's dimensions of 33 cm (13 in) width x 71.1 cm (28 in) deep x 33 cm (13 in) high.
- 3.34.3 The location for the safe **must** be per Appendix 1, labelled as Item 16 "Safe-Securing Location".

3.35 Toolbox Cabinet

- 3.35.1 The van **must** be provided with a 6-drawer toolbox cabinet, attached on the opposite wall of the sliding door, as shown in Appendix 1.
- 3.35.2 The cabinet **must** be Ranger Design model 5067-6 or **equivalent**.
- 3.35.3 The cabinet **must** have mounting attachments to secure the cabinet during motion of the vehicle.

3.35.4 The cabinet **must** be free from any objectionable noise (squeaking, rattling, etc.) during motion of the vehicle.

3.36 Internal Lighting

3.36.1 The vehicle **must** be provided with recessed (flush with ceiling) internal lighting in the workspace area and the rear utility area.

3.36.2 The recessed lighting **must** provide a brightness of minimum of 500 lux (lumen/m², or 500 foot candles).

3.36.3 The lighting in the rear utility area **must** be automatically switched by the rear cargo door latches.

3.36.4 The vehicle **must** feature a duplex light switch for interior recessed lights and for exterior curbside work lights.

3.36.5 The duplex light switch **must** be located on the curbside wall as per Appendix 1.

3.36.6 The vehicle **must** feature three (3) dimmable spotlights in front of the equipment racks, with one light for each rack.

3.36.7 The spotlights for the equipment racks **must** feature a shared dimmer, located to the right of the roadside rack.

3.36.8 The vehicle **must** feature a dimmable spotlight above the cab's passenger seat.

3.36.9 The spotlights **must** be provided with rotatable adjustments.

3.36.10 All lighting assemblies **must** be LED.

3.36.11 All lighting assemblies **must** operate on the 12V system.

3.37 External Lighting

3.37.1 The vehicle **must** be provided with two (2) work lights affixed to the vehicle's curbside exterior.

3.37.2 The vehicle **must** be provided with two (2) work lights affixed to the roadside exterior.

3.37.3 The vehicle **must** be provided with one work light affixed to a rear door.

3.37.4 On each side of the vehicle, the work lights **must** be located with one at the front and one at the rear.

3.37.5 The work lights **must** be LED.

3.37.6 The work lights **must** each have a rating of at least 1900 Lumens.

3.37.7 The work lights **must** operate on the 12V system.

3.38 Generator

3.38.1 A diesel generator **must** be provided to support the 12VDC and 120VAC power systems.

3.38.2 The output of the generator **must** be at least 8000 continuous Watts, with **equivalent** specifications to the Cummins Onan 8 kW HDKAU-41934 or 810HQDSA-6028A.

3.38.3 The generator **must** be fixed to the floor of the utility area and positioned in the best possible way to maximize storage and rear rack access, as shown in Appendix 1.

3.38.4 The generator **must** have its exhaust line directed out to the roadside of the vehicle.

3.38.5 The generator **must** have adequate ventilation as per generator OEM installation guidelines.

3.38.6 The generator **must** be provided with automatic emergency shut offs, including high temperature or low oil level shut offs.

3.38.7 The generator **must** be provided with an “hours of operation” meter.

3.38.8 The generator **must** use fuel from the main chassis’ fuel tank, while leaving a minimum of 10% of fuel in the tank when the generator runs out of fuel.

3.38.9 The generator **must** be provided with an electric start.

3.38.10 The generator **must** be provided with a remote start/stop switch located on the power distribution panel.

3.38.11 The generator **must** be provided with a pure sine wave inverter to serve as a power conditioner.

3.38.12 The generator **must** be provided with a noise-suppressing enclosure.

3.38.13 The enclosure **must** reduce the noise created by the generator to a maximum of 50 dBA measured anywhere within the vehicle’s workspace, when operating at maximum power.

3.38.14 The enclosure **must** feature a removable window to permit access to the generator’s service door.

3.38.15 The generator **must** be provided with an auxiliary cooling system atop the enclosure.

3.38.16 The generator's auxiliary cooling system **must** ensure adequate heat dissipation of the enclosed generator, under all operating conditions.

3.38.17 The generator's additional cooling system **must** ensure that the air temperature anywhere in the equipment rack area is a maximum of 25 degrees Celsius, even under the following simultaneous conditions: +40C external temperature, generator operating at maximum power, all windows and doors of the vehicle are closed, and with the equipment rack doors open to the rear utility area.

3.39 Inverter

3.39.1 An inverter **must** be provided to supply power to the 120VAC Power Bus 2.

3.39.2 The inverter **must** provide a minimum of 1100 continuous Watts.

3.39.3 The inverter **must** provide a pure sine wave output profile.

3.39.4 The inverter **must** meet technical specifications **equivalent** to the ExelTech XP-1100.

3.40 Shore Power Inputs

3.40.1 The vehicle **must** be provided with four (4) independent shore power inputs, with one input per 120VAC power bus.

3.40.2 The shore power inputs **must** be located on the curbside External I/O panel.

3.40.3 The shore inputs **must** feature marine-type chrome-plated twist-lock male input connectors, with screw-down weather shields.

3.40.4 The shore inputs **must** each be provided with one 15.2 m (50 ft.) water-resistant power cord, fitted with locking female connectors and rubber weather boots.

3.41 Power Distribution Panel

3.41.1 A rack-mounted power distribution panel **must** be provided inside the curbside equipment rack, for managing 12VDC and 120VAC power systems.

3.41.2 The power distribution panel **must** include the following divisions (for reference, see Appendix 2):

a.	12VDC Controls	<ul style="list-style-type: none">• Digital voltmeter for battery• Switch for system battery vs. vehicle battery• Switch to parallel the engine and auxiliary batteries
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		<ul style="list-style-type: none"> • Switch for generator operation • Indicator LED for the generator • Individual switches for the following lights: interior, curbside work lights, roadside work lights, and rear work lights;
b.	Power Bus 1	<ul style="list-style-type: none"> • Power input selection knob (Generator/Shore power) • Individual switches for Main, roadside rack, center rack, curbside rack
c.	Power Bus 2	<ul style="list-style-type: none"> • Power input selection knob (Generator/Inverter/Shore power) • Individual switches for Main, interior outlets
d.	Power Bus 3	<ul style="list-style-type: none"> • Power input selection knob (Generator / Shore power) • Individual switches for Main, battery charger, rack heater, external curbside outlets, external roadside outlets
e.	Power Bus 4	<ul style="list-style-type: none"> • Power input selection knob (Generator / Shore power) • Individual switches for Main, ceiling A/C, wall heater, microwave

3.41.3 Each Power Bus **must** also be provided with the following basic features:

- a. Digital AC voltage, frequency, and current meters;
- b. Indicator LEDs for each power source: generator, shore power, and inverter (if applicable for the Bus) voltage;

3.41.4 The power distribution panel **must** feature AC & DC circuit breakers for all branch circuits.

3.41.5 The power distribution panel **must** feature engraved labels for all items.

3.42 LAN Network

3.42.1 The vehicle **must** be provided with cabling for a LAN ethernet network (all network hardware will be installed by DND) between the center rack area and the ethernet outlets.

3.42.2 The vehicle **must** be provided with the following ethernet outlets, with cabling routed to center rack area:

- a. Two (2) category-6 duplex receptacle outlets, with one (1) spaced along the curbside wall and one (1) spaced along the roadside wall (see Item 13 in Appendix 1);
- b. One (1) ST duplex multimode fiber outlets in the workspace on the internal roadside wall, near the fixed work table, as shown as Item 20 Appendix 1.
- c. Outlets on external I/O panel as identified in section 3.44.

3.43 Outlets

3.43.1 The vehicle **must** be provide with the following 120VAC, 20A duplex GFI receptacle outlets:

- a. Four (4) outlets placed equidistantly along the interior roadside wall of the workspace, as shown as Item 12 in Appendix 1.
- b. Three (3) outlets placed equidistantly along the interior curbside wall of the workspace, as shown in as Item 12 in Appendix 1.
- c. One outlet placed in the passenger seat area.
- d. Two (2) weatherproof outlets on the exterior of the vehicle aft of the rear wheels, one on the curbside and one on the roadside. Exterior outlets shall be on a dedicated circuit breaker.
- e. One outlet in the utility area, opposite the generator.

3.44 External I/O Panel

3.44.1 The vehicle **must** be provided with an aluminium I/O panel on the curbside exterior.

3.44.2 The I/O panel **must** be mounted at a centred height of 152.4 cm (60 in), located opposite the internal dry-erase board, with clearance to the opened sliding door.

3.44.3 The I/O panel **must** be mounted behind a weather-resistant door equipped with two position lock.

3.44.4 The I/O panel door **must** open by lifting upwards.

3.44.5 The I/O panel door **must** be lockable in the lift-up open position to allow for cable clearance.

- 3.44.6 The I/O panel **must** be provided with integrated water-resistant 12V lighting featuring manual and automatic switching based on the panel's door position.
- 3.44.7 The I/O panel **must** be easily removable, to allow for future customization and upgrades.
- 3.44.8 The I/O panel **must** fit within an area of 30.5 x 45.7 cm (12 x 18 in).
- 3.44.9 The I/O panel **must** feature engraved labels for all items.
- 3.44.10 The I/O panel **must** be provided with the shore power inputs, as detailed in section 3.40.
- 3.44.11 The I/O panel **must** be provided with the following female connectors:
- a. Three (3) N-type;
 - b. Two (2) LAN, RJ-45;
 - c. Two (2) BNC;
 - d. Two (2) banana jack-type pairs;
 - e. Two (2) DB15 sockets;
 - f. Two (2) telephone RG-11; and
 - g. Two (2) ST-Type Fibre Optic

3.45 Wiring & Grounding

- 3.45.1 All wiring **must** follow the Canadian Electrical Code.
- 3.45.2 All wires **must** be routed through adequate and accessible cable conduit.
- 3.45.3 All circuits **must** include a current/voltage protection system.
- 3.45.4 The vehicle **must** include a single raceway system to provide a single path that reaches all workstations and racks, with junction boxes to allow for easy add/drop access.
- 3.45.5 All vehicle cables, connectors, outlets, and breakers **must** be clearly identified.
- 3.45.6 The vehicle **must** be provided with an insulated grounding connection, with a 30.5 m (100 ft.) cable and T-handle ground rod, for the purpose of electric circuit grounding and to minimize electrostatic discharge in the vehicle.

3.46 Wheels, Rims and Tires

- 3.46.1 Tire pressure **must** be marked near the tire location.
- 3.46.2 The tires **must** be tubeless radial tires with all-weather treads.
- 3.46.3 The rims **must** be single piece steel rims.
- 3.46.4 The vehicle **must** be provided with a spare wheel assembly that is identical to the wheels provided on the vehicle.
- 3.46.5 The vehicle **must** be provided with dual rear wheels.
- 3.46.6 The vehicle **must** be provided with mud flaps on all wheels.
- 3.46.7 The Contractor **must** obtain approval of the spare tire mounting location from the Technical Authority.
- 3.46.8 The vehicle **must** be provided with a suitably sized jack and wheel nut wrench, whose location may not obstruct ordinary use of the vehicle (recessed location is preferred).

3.47 Lubricants

- 3.47.1 The vehicle **must** be provided with and be serviceable with non-proprietary lubricants.
- 3.47.2 Lubrication fittings **must** conform to SAE J534.

3.48 Corrosion Protection

- 3.48.1 The Bidder **must** provide the vehicle with a corrosion protective coating.
- 3.48.2 The protective coating **must** completely cover the vehicle's entire metal frame.
- 3.48.3 The vehicle's hardware (including all hinges, latches, tie-in components) **must** be composed of either aluminium, stainless steel, or plated steel to minimize corrosion. Where dissimilar metals meet, appropriate preventative measures such as non-absorbent insulate, tape, etc., **must** be used.

3.49 Paint

- 3.49.1 The vehicle **must** be painted black using the manufacturer's standard commercial painting.

3.50 Identification

- 3.50.1 The following information **must** be permanently marked in a conspicuous and protected location:

- a. Manufacturer's name, model and serial number;
- b. Manufacturer's Vehicle Identification Number (VIN);
- c. Vehicle Capacity (Payload or GTWR) rating marked on the drawbar; and
- d. Centre of gravity of loaded vehicle.

3.51 Labels

3.51.1 All warning and instruction labels **must** be in a bilingual format or ISO symbol format.

3.52 Warning, Markings and Instruction Plates

3.52.1 Dangerous goods placard holders **must** be provided and located on each side of the vehicle as per CSA B620 standard.

3.53 Keys

3.53.1 A common key **must** be used for all cab and chassis locks.

3.53.2 This **must** include, but is not limited to, ignition and doors.

3.53.3 Four keys **must** be supplied

3.54 Vehicle Delivery Instructions

3.54.1 The vehicle **must** be delivered to destination in a fully operational condition (serviced and adjusted).

3.54.2 The vehicle **must** be clean upon delivery.

3.54.3 For shipment verification, items such as wheel wrenches, jacks, cargo straps, and all other tools, equipment and accessories, which are shipped loose, **must** be listed on the shipping certificate or to an attached packing note.

4.0 INTEGRATED LOGISTICS SUPPORT

4.1 Documentation and Support Items

Item	Provided to Technical Authority	Provided with Each Vehicle
Operator's Manuals	x	x
Data Summary	x	
Warranty Letter	x	x

Material Safety Data Sheets	x	
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a. **Operator’s Manuals**

- (i) An operator’s manual for safe vehicle operation including all supplied attachments **must** be provided with each vehicle shipped;
- (ii) The operator’s manual **must** be provided in a bilingual format as a package;
- (iii) A digital copy of the operator’s manual **must** be provided, in addition to the paper copy, with each vehicle shipped;
- (iv) The digital copy **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection; and
- (v) Digital copies **must** be provided on a portable USB drive. It is preferred that the digital copy be provided in a searchable PDF format.

b. **Data Summary**

- (i) A bilingual data summary with data and photographs **must** be provided for each configuration for the vehicle ordered from a Bidder in the Technical Authority provided format;

c. **Warranty Letter**

- (i) A paper copy of the completed bilingual warranty letter in the approved format (provided by the Technical Authority) **must** be provided with each vehicle shipped;
- (ii) The warranty letter **must** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and

d. **Material Safety Data Sheets**

- (i) The Bidder **must** provide a listing of all hazardous materials used on the vehicle;
- (ii) If there are no hazardous materials used, this **must** be stated on the listing; and
- (iii) The Bidder **must** provide material safety data sheets of all hazardous materials in the list.

Appendix 1

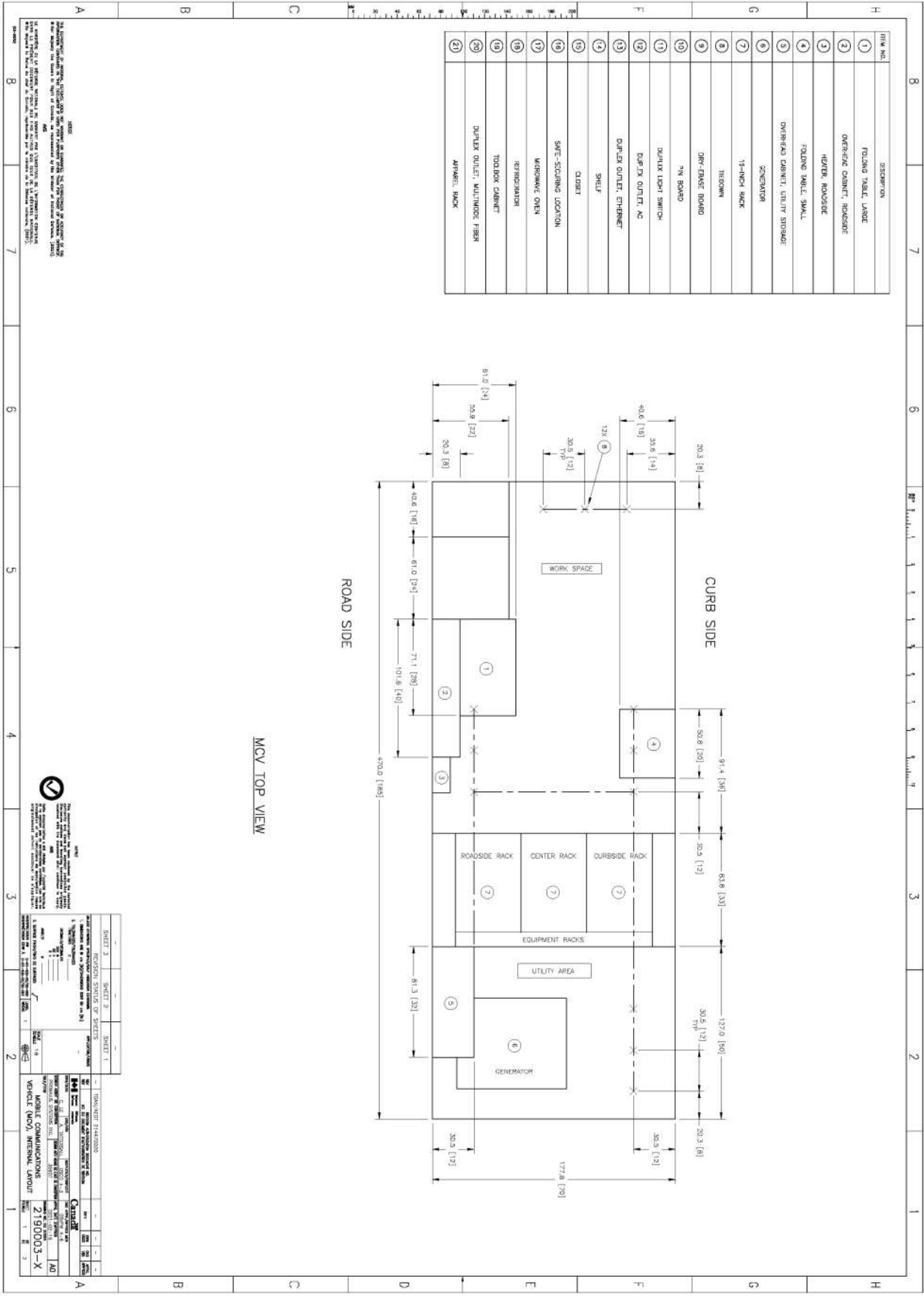
Annex A:

W8476-XXX

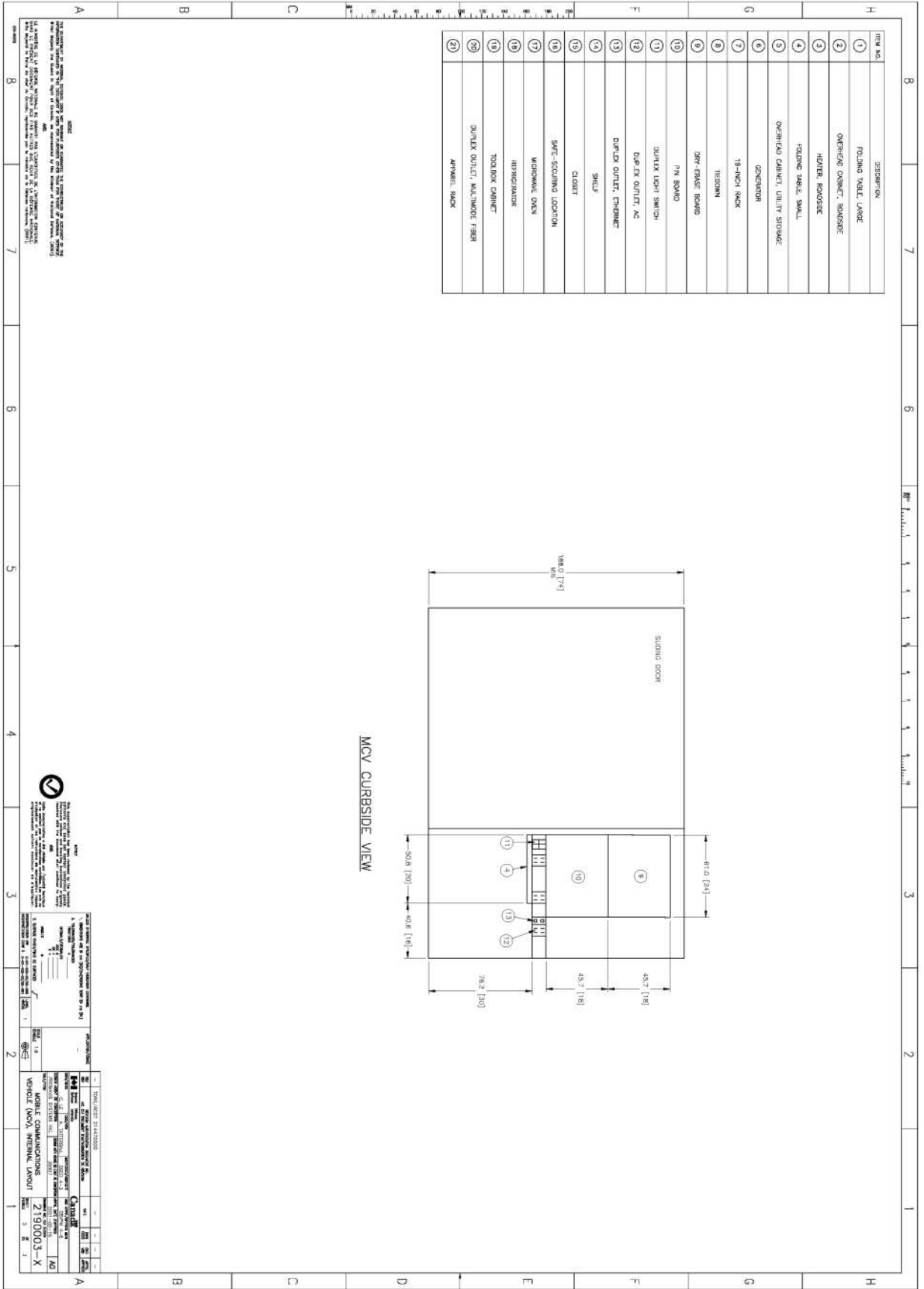
May 2021

CARGO AREA LAYOUT

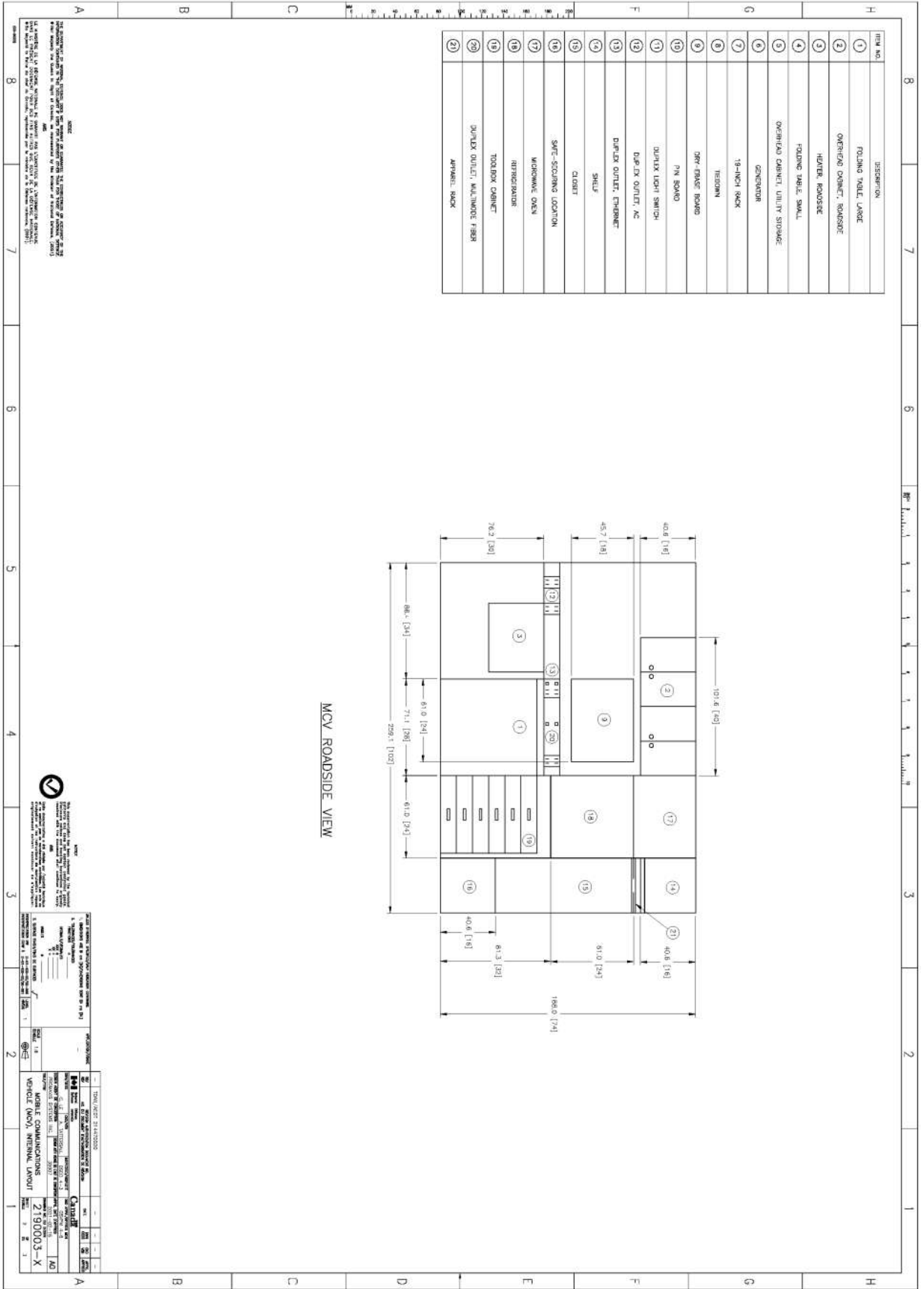
TOP VIEW



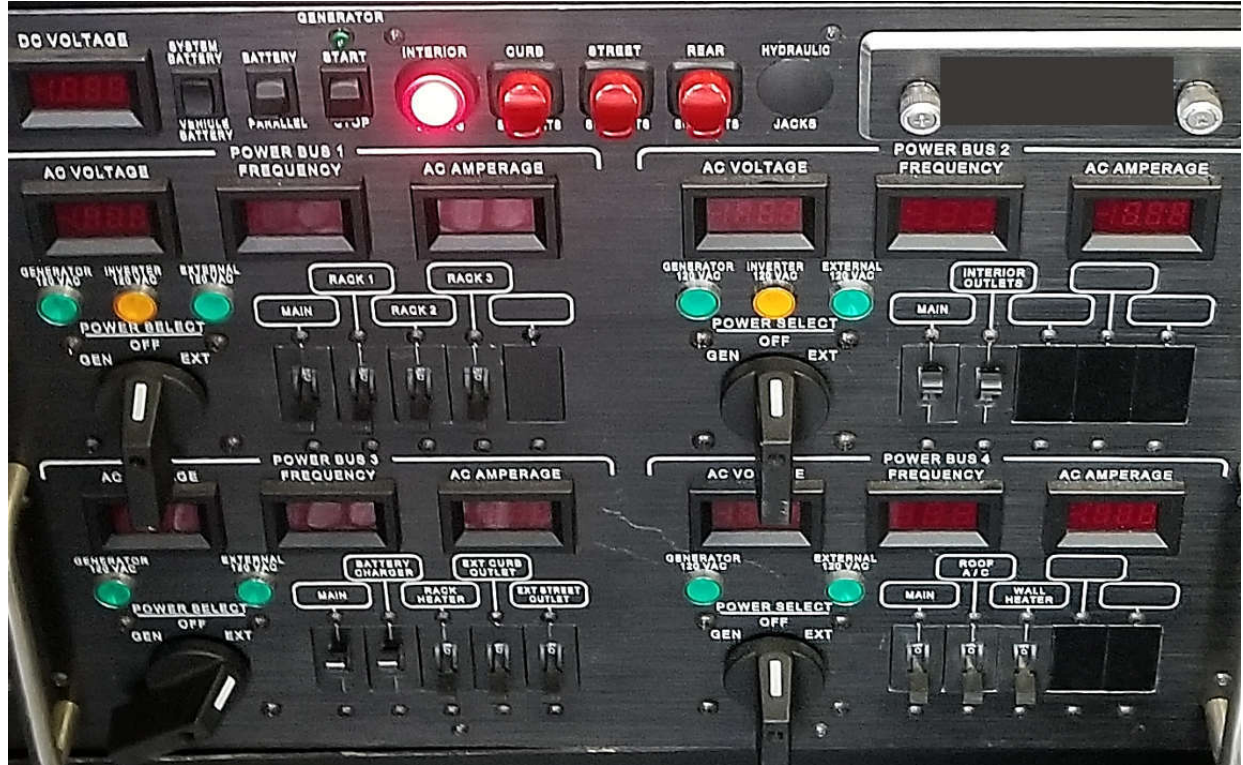
WORKSPACE LAYOUT, CURBSIDE VIEW



WORKSPACE LAYOUT, ROADSIDE VIEW



Appendix 2: Power Distribution Panel





Appendix 1
Annex A
W8476 – 226506/A
May 2021



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

TECHNICAL EVALUATION MATRIX
MOBILE COMMUNICATIONS VEHICLE

OPI: DSVPM 4 – BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff
Publiée avec l'autorisation du chef d'état-major de la Défense

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RDIMS No: 5926667

MOBILE COMMUNICATIONS VEHICLE

This questionnaire covers technical information, which **must** be provided for evaluation of the configuration(s) of the vehicle(s) offered.

Bidder should indicate the document name/title and page number where the **Substantial Information** can be found.

Definition for **Equivalent** is found in the DEFINITION section at the end of this document.

BIDDER INFORMATION

Bidder Name: _____

Address: _____

Proposal Date: _____

Proposed Make **- Model** .

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- a. "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.

PD Reference	Requirement	Location of Substantial Information in Bid Proposal	Comment
3.1.1	The vehicle must be the latest model from a manufacturer who has demonstrated acceptability by selling, in North America, this type and size class of trailer for at least three (3) years.		
3.4.2	The vehicle must feature an extended chassis with a wheelbase of 431.8 cm (170 in).		
3.4.4	The cargo area must be at least 469.9 cm (185 in) in length.		
3.4.5	The cargo area must be at least 177.8 cm (70 in) in width.		
3.4.6	The cargo area must have an internal height of at least 185.4 cm (73 in), after all custom finishes are applied (with the exception of the local height below the ceiling-mounted air conditioning unit).		
3.5.1	The vehicle must be rated for a minimum GVWR of 5,003 kg (11,030 lb).		
3.15.1	The vehicle must feature a total of four (4) round cable hatches, with two on each side of the vehicle, in order to pass cables outside the vehicle.		
3.19.1	The interior of the van must be fully insulated, with dense foam insulation inside the walls, ceiling, and floor.		
3.27.1	The vehicle must be provided with a 12VDC electrical system to power the 12V accessories and the inverter.		
3.27.4	The 12V system must be provided with a power converter to automatically support the 12V load and recharge the vehicle batteries (both starter and auxiliary) when a 120VAC source (either shore power or generator) is available.		
3.28.1	The vehicle must feature three (3) equipment racks (roadside rack, center rack, and curbside rack), to be located at the back of the workspace, as shown in Appendix 1.		

3.38.1	A diesel generator must be provided to support the 12VDC and 120VAC power systems.		
3.38.2	The output of the generator must be at least 8000 continuous Watts, with equivalent specifications to the Cummins Onan 8 kW HDKAU-41934 or 810HQDSA-6028A.		
3.38.15	The generator must be provided with an auxiliary cooling system atop the enclosure.		
3.39.2	The inverter must provide a minimum of 1100 continuous Watts.		
3.40.1	The vehicle must be provided with four (4) independent shore power inputs, with one input per 120VAC power bus.		