# REQUEST FOR FORMAL BID

## *MOBILE COMMAND UNIT AND TRAILER*

***For***
***Iredell County Sheriff Office***
***231 Constitution Lane, Statesville, NC 28677***

## BID #24-510-FP-01

**DEADLINE FOR SUBMITTING BIDS**
**3:00PM Thursday, August 24, 2023**

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**BIDDING, CONTRACT, QUESTIONS & SUBMISSION**

*~Contact~*

**Mrs. Antonia Stines, CLGPO**
Purchasing Officer
200 S. Center Street,
Statesville, NC 28677
704-878-5043

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## A. INTRODUCTION

Iredell County intends to award a purchase contract to a single vendor for the purchase of a Mobile Command Unit and Trailer, unit to be delivered to Iredell County Jail Facility located at 184 Prison Camp Road, Statesville, NC 28625. All submitted bids must follow the specifications and requirements set forth in this document. Bids shall include delivery FOB destination off loaded at site if not driven to site.

Iredell County intends to award to the lowest responsive, responsible bidder that provides the bid most advantageous to the County, taking into consideration quality, performance and timing for delivery. **Time of delivery will be a deciding factor.** Iredell County reserves the right to accept or reject any or all bids and to award in the best interest of the County.

Formal written bids, subject to the conditions made a part hereof, will be received at this office through and until **3:00PM, Thursday, August 24, 2023**, where they will be opened publicly, for furnishing and delivering the commodity as described herein. Bids may be submitted by mail or other delivery method excluding electronic submissions.

All questions regarding this RFB must be submitted in writing no later than, **3:00 PM, Thursday, August 17, 2023** by email to:

Antonia Stines, CLGPO
Purchasing Officer
antonia.stines@co.iredell.nc.us
Phone 704-878-5043

**Responses to all questions received will be made in writing and sent to all known bid holders by addendum and posted at Iredell County's bid site at : https://www.iredellcountync.gov/481/Current-Bids-RFPs**

After project award, the lead agency for procurement oversight will be the Sheriff Office.

Lieutenant Joseph Prevette
joseph.prevette@co.iredell.nc.us
Iredell County Sheriff/Jail

**SCHEDULE OF EVENTS**:

| | |
|---|---|
| 8/10/2023 | Bid Release |
| 8/17/2023 | Thursday, 3:00 PM, Last day to submit questions |
| 8/24/2023 | Thursday, 3:00 PM, Deadline for submitting Bids |

## B. GENERAL BID & DOCUMENT REQUIREMENTS

All bidders submitting bids in relation to this request should familiarize themselves with the following general bid terms and conditions. Bidders not in compliance with these documents subject their bid proposals to rejection. Bid proposals must be submitted complete with all required signed documents, final pricing, signature pages, etc., at the time of submission. Iredell County reserves the right to request required information or clarification after bid opening, however the lack thereof may subject a bid to rejection.

It is the responsibility of all respondents to contact Iredell County prior to submitting a response to the RFB to ascertain if any addenda have been issued, and to obtain any and all addenda, execute them, and return addenda with their response to the RFB.

1. The bidder and/or bidders to whom the contract is awarded must comply with all aspects of this bidding process, which are designed to meet the requirements of North Carolina G.S. 143-128, 129 & 131, as amended and as appropriate, which govern bidding procedures for government construction projects in North Carolina.

2. Bids submitted in response to this request will be governed by N.C. General Statute, Iredell County Purchasing Ordinance and the general provisions outlined in this request.

3. Iredell County Government does not discriminate on the basis of race, color, sex, national origin, religion, age, or disability. Any contractors or vendors who provide services, programs or goods for Iredell County are expected to fully comply with the County's non-discrimination policy.

4. Iredell County reserves the right to accept or reject any or all bids, evaluate all bids, especially where there is a wide range in specifications, and make an award in the best interest of the County. Iredell County reserves the right to take exception to or waive any item in the bid.

5. **BID AND CONTRACT: Please Read Carefully:** Signed Proposals submitted in response to this Request for Bids will be evidence of acceptance of Iredell County's terms and conditions, including here by reference Iredell County's Purchase Order Terms and Conditions, and, combined with the terms and conditions set forth in this request for bid, make up the entirety of the contract to which Iredell County will be bound and will supersede, override and take precedence over any and all counter proposed terms and conditions presented in proposals and subsequent contracts. Bid proposals offered to the County contingent upon the County's acceptance of any counter-terms and conditions must clearly and obviously state that an exception is being taken and what that exception is. Such proposals *may* be considered during the bid review process but will remain subject to rejection at the sole discretion of Iredell County in favor of any bid containing conditions more favorable to the County. Iredell County accepts no counter terms/conditions unless specifically agreed upon in writing by both parties prior to contract award. **Regardless**, proposals taking total exception to Iredell County's terms and conditions and this bid document will be considered nonresponsive to this bid request and rejected as such. Iredell County reserves the right to accept or reject any or all bid proposals and will exercise that right when reviewing proposals containing any counter-proposed terms and conditions not favorable to the County.

6. Bid Submissions, Bid Evaluation and Contract Award: Bidders should be careful to submit a complete bid proposal. Bids will be evaluated based on a combination of criteria, with price being only one. When appropriate, product specifications will be used to evaluate product offered, installation, services, etc. All informal contracts for repair work shall be awarded to the lowest responsible, responsive bidder, taking into consideration quality, performance, and the time specified in the bid for the performance of the contract. In making a determination of responsibility, Iredell County may use criteria such as:
   - Compliance with bid package requirement
   - References
   - Time of Delivery
   - Etc.

7. All bids must be accompanied by the vendor's proposed start and completions schedule or timeline and other pertinent project data.

8. OMISSIONS: Omission in this bid solicitation or technical specification of any provision herein described shall not be construed as to relieve the Contractor of any responsibility or obligation normally requisite to the complete and satisfactory delivery, installation, construction or satisfactory completion of this project.

9. All bid proposals must be written and submitted in the format prescribed by these documents, using the forms included. All bid proposals must be signed by an individual authorized to bind the contractor to a contract prior to submission. Proposals Packages should include or cover the following elements:

    1. Cover Letter or Cover Sheet identifying Contractor
    2. Signed Bid Proposal and Terms Acceptance Sheet
    3. Complete Breakdown of cost
    4. General Product Specifications Sheet
    5. List of references for orders of similar size, scope and specification.
    6. Filled out and Signed E-Verify Certification
    7. Filled out and Signed Iran Divestment Act

10. Bid Proposal Sheets should clearly present the following information:

    a. Project Name: **Iredell County – Mobile Command Unit and Trailer: Bid #24-510-FP-01**
    b. Delivery Schedule: Show Number of weeks following receipt of approved purchase order and approved submittals. *Delivery period will be a consideration for award.
    c. **Proposal Page must be signed by an individual authorized by the contractor to bind the company to a contract and must clearly show the individual's title, company name and date.**

11. **DELIVERY OF BIDS**: Electronically transmitted bids **will not** be accepted.

To be considered, bid submitted by mail, proposals should include One (1) originally signed and complete bid proposal in 8-1/2 x 11 inch format, stapled once, **and** One (1) copy of the originally signed and complete bid proposal in the same format **or** an copy on USB device.

MAILING INSTRUCTIONS:
US POSTAL SERVICE: Address bid envelope as shown below and mail in time to reach Purchasing Officer by deadline. Enclose the fully executed original bid document in the mailing envelope. Address envelope as shown below.

UPS, FEDEX, DHL or other carrier: Place the bid inside the carrier's envelope and address as below.

HAND DELIVERY OR COURIER: Bids, addressed with either of the provided addresses, may be hand-delivered directly to the Purchasing Division no later than 4:00 PM on the due date for bids. Arrive with plenty of time to have your bid stamped in before deadline.

In all cases and regardless of delivery method, delivery of bids to Iredell County Purchasing by the specified due date and time are the sole responsibility of the bidder. Bids not in the hands of the Purchasing Officer prior to the expiration date and time, regardless of reason, **will be rejected**.

| **DELIVERED BY US POSTAL SERVICE** | **DELIVERED BY ANY OTHER MEANS** |
|---|---|
| **BID# 24-510-FP-01 – Mobile Command Vehicle**<br>**Iredell County**<br>**Attn: Antonia Stines, Purchasing Officer**<br>**P. O. Box 788**<br>**Statesville, NC 28687** | **BID# 24-510-FP-01 – Mobile Command Vehicle**<br>**Iredell County**<br>**Attn: Antonia Stines, Purchasing Officer**<br>**200 South Center Street**<br>**Statesville, NC 28677** |

Bid Packages will be accepted up to the day and time of bid deadline, which is scheduled for **3:00 PM Thursday, August 24, 2023.**

PROMPT DELIVERY OF BIDS TO IREDELL COUNTY IS THE SOLE RESPONSIBILITY OF THE BIDDER. BIDS RECEIVED AFTER THE BID DEADLINE, REGARDLESS OF REASON, WILL NOT BE CONSIDERED.

12. Iredell County shall not be held responsible for nor will it pay any costs or expense associated with the preparation or submission of a bid proposal submitted in response to this solicitation, such expenses and costs being the sole responsibility of the bidder. Nothing in this solicitation or any response submitted pursuant to shall obligate Iredell County to award a contract to a bidder.

13. Upon award, this document becomes the contract document for the noted project. In case of default of an awarded contractor, Iredell County may procure the articles and/or services from other sources and may hold the defaulting contractor responsible for any excess cost occasioned thereby.

14. PAYMENT: In lieu of bid and performance bonds, **full payment will be made by check within thirty-days after procurement completion and final inspection and notification of acceptance is given to the Purchasing Officer by the County's Project Lead.** Once proof of acceptance is received, the Iredell County Purchasing Officer or other authorized County staff will code, sign and process an original invoice for payment. No payment will be made until contractor completes all delivery, construction, installation or other provisions or responsibilities as agreed upon prior to project start and corrected any deficiencies found.

15. TAXES: It is Iredell County policy that no contract will be awarded to a contractor or vendor that is delinquent in paying Iredell County property taxes. In the event the lowest, responsive bidder is found delinquent, Iredell County reserves the right to a) reject said Contractor's bid as not responsible, (b) withhold award until taxes are paid in full, (c) withhold unpaid property taxes from all amounts payable from the resulting contract or (d) take any other actions deemed necessary by the County. Regardless, project award and start will not be postponed to accommodate delinquent contractor.

16. Iredell County requires that all contractors performing work on County property maintain minimum insurance coverage as outlined in **Minimum Insurance Requirements & Risk Control** below. Acceptance of Iredell County's insurance and risk requirements ***is a requisite*** for award. Do not make changes to or take exception to these insurance and risk requirements. Bids offered contingent on any change or exception taken to this requirement will be deemed both non-responsive to this bid solicitation's requirements and specifications and not responsible. Such offers will be rejected.

17. **Terms & Conditions Acceptance:** By submitting a signed proposal in response to this solicitation, the individual is verifying that he/she is a duly authorized representative of the company and is able to legally bind the company to this agreement. Signature also denotes agreement that the terms and conditions of this bid shall override all other terms and conditions, regardless of form or delivery.

## C. GENERAL CONTRACT TERMS AND CONDITIONS

1. DEFAULT**:** In case of default by the awarded contractor, Iredell County may procure the articles or services from other sources and hold the bidder responsible for any excess cost occasioned thereby. In addition, in the event of default by the contractor under this contract, Iredell County may immediately terminate for cause all existing contracts between Iredell County and the vendor and de-bar the vendor from doing future business with the County. These in addition to any and all remedies provided by law.

2. SITUS: The place of this contract, its situs and forum, shall be North Carolina, where all matters, whether sounding in contract or tort, relating to its validity, construction, interpretation and enforcement shall be determined.

3. GOVERNING LAWS: This contract is made under and shall be governed and construed in accordance with the laws of the State of North Carolina.

4. PERMITS & INSPECTIONS: All Permits required by governing authorities shall be secured by contractor or contractor's agent. Proof of approved inspections for all required Permits relative to the Work shall be included with application for Final Payment.

5. PAYMENT TERMS: Payment terms are Net, not earlier nor later than, 30 days after receipt of correct invoice or acceptance of goods, whichever is later. Iredell County is responsible for all payments to the contractor under the contract.

6. AFFIRMATIVE ACTION: The contractor will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of people with disabilities, and concerning the treatment of all employees without regard to discrimination by reason of race, color, religion, sex, national origin or disability.

7. CONDITION AND PACKAGING: Unless otherwise provided by special terms and conditions or specifications, it is understood and agreed that any item offered or shipped has not been sold or used for any purpose and shall be in new condition. All containers and packaging shall be suitable for handling, storage or shipment.

8. PATENT: The contractor shall hold and save Iredell County, its officers, agents and employees, harmless from liability of any kind, including costs and expenses, on account of any copyrighted material, patented or unpatented invention, articles, device or appliance manufactured or used in the performance of this contract, including use by the government.

9. ADVERTISING: Contractor agrees not to use the results of this RFB or any resulting contract or the name of Iredell County as part of any commercial advertising.

10. ASSIGNMENT: No assignment of the contractor's obligations or the contractor's right to receive payment hereunder shall be permitted. However, upon written request approved by the issuing purchasing authority and solely as a convenience to the contractor, Iredell County may:
    a. Forward the contractor's payment check directly to any person or entity designated by the contractor, and
    b. Include any person or entity designated by contractor as a joint payee on the contractor's payment check. In no event shall such approval and action obligate Iredell County to anyone other than the contractor and the contractor shall remain responsible for fulfillment of all contract obligations.

11. GENERAL INDEMNITY: The contractor shall hold and save Iredell County, its officers, agents, and employees, harmless from liability of any kind, including all claims and losses accruing or resulting to any other person, firm, or corporation furnishing or supplying work, services, materials, or supplies in connection with the a firm, or corporation that may be injured or damaged by the contractor in the performance of this contract and that are attributable to the negligence or intentionally tortious acts of the contractor provided that

the contractor is notified in writing within 30 days that Iredell County has knowledge of such claims. The contractor represents and warrants that it shall make no claim of any kind or nature against Iredell County's agents who are involved in the delivery or processing of contractor goods to Iredell County. The representation and warranty in the preceding sentence shall survive the termination or expiration of this contract.

12. E-VERIFY: E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security used to verify the work authorization of newly hired employees pursuant to federal law. Article 2, Chapter 64 of the North Carolina General Statutes requires that all employers doing business in the state of North Carolina, who employ 25 or more employees in this State, use E-Verify to verify the work status of newly hired employees. Additionally, North Carolina General Statute 153A-449 states that "Contractors Must Use E-Verify. - No county may enter into a contract unless the contractor and the contractor's subcontractors comply with the requirements of Article 2 of Chapter 64 of the General Statutes."

    Therefore, as a condition of payment under this contract, the seller or vendor agrees to and must comply with Article 2 of chapter 64, as well as take measures to ensure that any subcontractor performing work for the Vendor under this contract complies with the provisions of this statute. By submitting a signed offer in response to this solicitation, seller or Vendor verifies compliance with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. Upon request of the Iredell County, Vendor shall verify, by affidavit, compliance of the terms of this section.

    The seller and/or vendor acknowledges that payment by the County is conditioned upon the vendor's, or its subcontractor's, compliance with Article 2 of Chapter 64. Failure to comply may render any contract with the County void and unenforceable.

13. IRAN Divestment Act (N.C.G.S. 147 Article 6E): During the 2015 legislative session, the North Carolina General Assembly enacted the Iran Divestment Act (S.L. 2015-118; SB455) ("the Act") which prohibits state agencies and local governments from entering into contracts with entities that the North Carolina State Treasurer has determined are engaged in certain investment activities in the Iranian energy sector.

    The Act requires the State Treasurer's Office to publish a list of entities it has identified as investing in the Iranian energy sector and update the list every 180 days. This list can be found at https://www.nctreasurer.com/inside-the-department/OpenGovernment/Pages/Iran-Divestment-Act-Resources.aspx. An entity identified on the Treasurer's list (called the "Final Divestment List") is prohibited from contracting with state agencies and local governments. Local governments and state agencies must require entities with which they contract to certify that the entity not included on the Final Divestment List. In addition, all entities contracting with the State and local governments are prohibited from subcontracting with any entity included on the Final Divestment List. Contracts entered into with an entity included on the Final Divestment List are rendered void by operation of the statute.

    Submission of a signed Bid in response to this solicitation indicates contractor's understanding of the requirements of this act and will serve as preliminary certification by the individual signing that the entity is not included on the Final Divestment List and they are prohibited from subcontracting with any entity included on the Final Divestment List. Any contract entered into with an entity included on the Final Divestment List is void and government entities in North Carolina are not authorized to issue payment for such a contract.
    The contractor under consideration for award of this contract will be required to submit a separate certification prior to such award.

14. **Divestment From Companies Boycotting Israel Act** (NC G.S. 147, Article 6G) prohibits state agencies and local governments from entering into contracts costing over $1,000.00 with any entity that the North Carolina State Treasurer has determined boycotts or is involved in a boycott of Israel.

    The Article requires the State Treasurer's Office to publish a list of entities it has determined boycotts or is involved in a boycott of Israel and update the list at least annually. An entity identified on the Treasurer's list

(called the "Final Divestment List") is prohibited from contracting with state agencies and local governments. Contracts entered into with an entity included on the Final Divestment List are rendered void by operation of the statute.

15. TERMINATION: Iredell County may terminate this contract for cause if the contractor fails to perform according to the contract provisions or original offer or for convenience when there has been a change in program requirements or inadequate funding.

## D. MINIMUM INSURANCE REQUIREMENTS – Required for work completed on County Premises

Iredell County requires that all contractors performing site preparation, paving, installation, construction, repairs or renovations on County property shall provide insurance certificates to the County naming Iredell County as secondary insured. The contractor shall procure, maintain and provide proof of insurance coverage for injuries to persons and/or property damage as may arise from, or in conjunction with, the work performed on behalf of the county by the contractor, his agents, representatives, employees or subcontractors. Proof of coverage as contained herein shall be submitted **prior to the commencement of work** and the contractor shall maintain such coverage for the duration of the contract period.

Minimum Insurance Coverage Limits:

- General Liability: $2,000,000 combined single limits, $1,000,000 annual aggregate ($1,000,000 products and completed operations aggregate)
- Automobile Liability: $1,000,000 combined single limits, $1,000,000 annual aggregate. Workers Compensation: **Workers Compensation is required by all contractors or subcontractors regardless of the number of employees.**
- Builders Risk: Contractor to decide amount of coverage needed for the project materials.

<u>Insurance requirements not needed for purchase of apparatus, supplies, materials and equipment.</u>

The contractor's insurance shall be primary over any applicable insurance or self-insurance maintained by the County.

The contractor shall provide 30 days written notice to the County before any cancellation, suspension, or void of coverage in whole or part, where such provision is reasonable.

All coverage for subcontractors of the contractor shall be subject to all of the requirements stated herein.

Failure to comply with any reporting provisions of the policy(s) shall not affect coverage provided the County, it officers/officials, agents, employees and volunteers.

The insurer shall agree to waive all rights of subrogation against the County, its officers/officials, agents, employees or volunteers for any act, omission or condition of premises which the parties may be held liable by reason of negligence.

The contractor shall furnish the County certificates of insurance including endorsements affecting coverage. The certificates are to be signed by a person authorized by the insurance company(s) to bind coverage on its behalf.

All insurance shall be placed with insurers licensed for business in North Carolina and maintaining an A.M. Best rating of no less than A-.

All insurance policies shall be in effect for the duration of the project and shall be written on an occurrence Basis. No claims-made policies will be accepted.

The Contractor shall indemnify and hold harmless the County of Iredell, its officers/officials, agents, employees and volunteers from and against all claims, damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expense (1) is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than work itself) including the loss of use resulting therefrom, and (2) is caused in whole or part by any negligent act or omission of the

Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

**RISK CONTROL**

The Contractor shall be required to comply with all federal, state, and local laws, regulations, and industry standard, or practices regarding safety of employees, the general public, and protection of physical property.

All subcontractors shall be subject to the same requirements.

The Contractor shall be responsible for self-inspection, as well as the inspection of all subcontractors to ensure compliance.

Any inspection of the operations of the Contractor or any subcontractor by the County or by any agent, employee or official of the County shall be done so to ensure compliance to the contract only. No inspection should be construed as a warranty of the operations of contractors and subcontractors.

The Contractor shall be solely responsible for the inspection and compliance of all operations.

The County maintains the right to require the Contractor to take corrective action regarding any hazard or potential hazard identified either by the Contractor or the County.
Failure to comply with these requirements or take any necessary corrective action may constitute reason for cancellation of the contract.

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## E. TECHNICAL SPECIFICATIONS ETC.

# Iredell County Sheriff's Office Bid Specifications for Mobile Command Unit

## 1. PURPOSE AND SCOPE

### 1.1. Introduction

The purpose of this document is to define the minimum operational performance standards and equipment required for the Mobile Command Vehicle. Inspection will be completed at time of delivery for compliance according to specification and without defect. Any issues must be resolved with the Project Lead, Joseph Prevette.

*** Any items that are listed with a Brand name or specific model number are for use of standardization only and are in no way meant to exclude companies from bidding other equipment that is equivalent or exceeds performance and functionality. Bid must include specification sheets***

Compliance with this document is a means of assuring that the vehicle is to perform its intended function(s) satisfactorily under all conditions normally encountered in operations. Any regulatory operation of this vehicle is the sole responsibility of user.

Section 1 information needed to understand the intended rationale for the vehicle's operational performance and equipment requirements. It describes typical vehicle applications and operational goals, as envisioned by Iredell County Sheriff Office and establishes the basis for the standards stated in Section 2.0 and Section 3.0.

Section 2 the minimum performance standards required for the vehicle's chassis. These standards specify the required performance under normal environmental conditions. Also included are recommended road test procedures necessary to demonstrate vehicle compliance with the minimum requirements.

Section 3 vehicle modular body area and accessory equipment requirements. Operational equipment characteristics to be defined as well as conditions that is to assure the equipment user that operations can be conducted safely and reliably in the expected operational environment.

Section 4 provides a list and describe Customer Furnished Equipment (CFE) and allows inclusion of addition details and instructions as needed for installation and/or expected operation of CFE components.

Section 5 is used to list and describe additional included equipment and features as selected by the County. Additional details and instructions included to ensure that optional items are installed and function as designed.

Section 6 addresses the tow behind trailer that is to house the bathroom and needed accessories along with a storage area.

Section 7 outlines the warranty. Additional warranty features are to be included if warranty deviations or enhancements are included.

## 2. VEHICLE REQUIREMENTS

### 2.1. Vehicle Design Requirements

The vehicle's mobile deployment goal defines the design and minimum chassis performance standard requirements. As mentioned, the vehicle is to be a self-propelled truck-body vehicle with an enclosed modular body area (defined in section 3). Furthermore, due to quick maintenance turn-around, locally experienced maintenance mechanics, and availably of replacement parts, Iredell County prefers a vehicle that is manufactured in the United States. The sub-sections below define the vehicle's design and performance requirements. Iredell County understands that this selection is to ultimately be based on availability.

### 2.2. General Chassis Specification

This section is to be utilized to describe the specifications for the chassis.

#### 2.2.1. Chassis

The chassis is to be similar in specification to a Peterbilt or International with a day cab. Iredell County understands that this selection is to ultimately be based on availability.

#### 2.2.2. Engine

The Chassis is to be similar in specification and power of a Cummins ISX15 Engine providing 525-565 horsepower and 1650-2050 pound-feet of torque.

#### 2.2.3. Transmission

An automatic transmission similar to specification as an Allison Transmission.

#### 2.2.4. Paint Color

The Cab and Frame is to be Black in color. Iredell County reserves the right to select specific color code with the awarded company.

#### 2.2.5. Other Defined Chassis Features

- The frame length shall be adjusted to fit the size of the body being installed.
- There is to be a power divider that is to allow both of the rear axles to be live.
- There is to be a locker to lock both rear axles together.
- The interior shall include an AM/FM/Satellite Radio with Bluetooth.
- It is to have the digital instrument cluster display.
- All interior and exterior lighting is to be LED.
- Dual exhaust stacks is to be provided with heat shields.
- Drivers and Passenger seats shall be the air ride seats.

*Unless otherwise stated all other features is to be the OEM standard available at time of manufacture*

### 2.3. Rear Bumper

A rear bumper is to be provided with the vehicle. It is to be constructed of ASTM A36 and structural A500 steel material. The bumper is to be a minimum of 3" high with a minimum 10" top deck covered in 1/8" NFPA diamond plate for walking. The bumper is to be 96" wide with 45-degree chamfers on the back outside corners.

To provide adequate support strength, the bumper is to be mounted directly to the rear of the stock chassis frame. The bumper is to be mounted using 1/2" grade-8 bolts to attach to pre-drilled holes in the chassis frame.

### 2.4. Operation and Accessibility of Controls

The operation and accessibility of controls is to be within the physical means and the ergonomic ability of a human of average stature. The vehicle is not required to meet handicapped driver requirements.

### 2.5. Road Test Procedures

The Road Test Procedures is not required if the vehicle has been delivered under its own power at a distance of not less than 200 miles. If the vehicle is to be delivered by flatbed trailer or any other means other than driven under its own power, a factory road trip of not less than 20 miles is required before being loaded for delivery to Iredell County.

### 2.6. Vehicle Design Assurance

The vehicle is to comply with all State and Federal Transportation Agencies.

### 2.7. General Design and Construction

To control quality, ensure compatibility, and provide a single source for service and warranty, the body is to be entirely designed, welded, assembled and painted by one manufacture.

## 3. VEHICLE BODY AREA REQUIRMENTS

### 3.1. Vehicle Body Area

The vehicle's mission goal of providing a self-contained mobile unit defines the design and minimum performance standard requirements of the modular body area.

#### 3.1.2. Modular Body Design

An underlining objective of this section is to specify requirements that insure a high degree of roadworthiness of the final vehicle design. Such is also reinforced by the requirement that the vehicle is to meet State and Federal guidelines, code and compliances, and safety regulations. The body area is to be designed as to equally distribute the curbside-to-street side payload to the maximum degree possible. Payload distribution with respect to the front and rear axles is to be arranged as to not to exceed the load of either axle. The modular body design is to withstand intermittent use on unimproved surfaces.

#### 3.1.3. Body

The Modular Custom Body is to be completely designed and manufactured in-house and is to be an all-aluminum body manufactured utilizing aluminum alloys capable of carrying the maximum payload allowed by the chassis. All framing and structural supports is to be welded in accordance with the current standards as set forth in the American Welding Society Code. The Body is to have a seamless finish with no exposed fasteners. The body is to be attached to the chassis with hardened steel "U" bolts fastened to the chassis and body mounting rails. A neoprene-mounting cushion is to be installed between the modular body and the chassis frame. The body is to be designed and constructed to insure a life expectancy of more than ten years with normal use.

The body is to also include the following features:

- Welded 3/16 aluminum 5052-H32 alloy wheel wells with mud flaps
- All body trim pieces, hinges, and handles is to be stainless steel or other non-corrosive material
- All exterior fasteners such as machine screws, bolts and sheet metal screws is to be stainless steel.

#### 3.1.4. Welding Specifications

All materials used for fabrication is to be new and unused. All structural welds is to be continuous bead welds. Staggered intermittent welds may be used in specific areas as the design permits. All welds is to be of first-quality standard with no slag scale, flux, spatter, or pinholes prior to the application of any surface coating.

All aluminum welding follows American Welding Society D1.2 2014 Structural Welding Code - Aluminum. All sheet metal welding follows American Welding Society B2.1 2020 requirements for structural welding of sheet metal. Our flux core arc welding for steel uses alloy rods, type 7000 and is performed to American Welding Society Standards A5.20-E70T1. Furthermore, all employees classified as welders are tested and certified to meet the American Welding Society codes and recertify every three (3) years.

#### 3.1.5. Stabilization Jacks

A stabilization system shall be installed. This is to consist of (4) Quadra Manufacturing "Bigfoot" stabilizer with straight acting jacks or product of similar specification. With enough travel to achieve level in various terrain settings within reason. The jacks is to be rated at 17,000 lbs. ea., with remote control and individual "jack down" indicator lights located on the dash. The system is to be a one touch operation for fully automatic leveling and auto retract with jacks up indication with each jack that has an individual pump and reservoir. These jacks is to carry a lifetime cylinder warranty from the

manufacture.

#### 3.1.6. Paint Prep Procedure

All bodies and applicable parts is to be painted using the Akzo Nobel / Sikkens Autocoat BT System. This is a Base Coat / Clear Coat system that delivers a durable low maintenance and long-lasting finish.

The exterior body paint finishing process is as follows:
Manual Surface Preparation – All exposed metal surfaces on the body is to be thoroughly cleaned and sanded for paint. All imperfections on the surface is to be removed or filled, then sanded smooth. All welds in the body is to be filled and sanded to achieve a smooth seamless finish.
Chemical Cleaning and Treatment – All metal surfaces is to be cleaned to remove all dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. An Alodine pretreatment is to be applied to ensure proper adhesion and help prevent corrosion.
Sealer Primer Coat – A two-part Epoxy Primer / Sealer is to be applied in a single coat, followed by two coats of a High Build Primer Surfacer. This is to be sanded smooth prior to Top Coating. All seams and gaps is to then be sealed with a Urethane seam sealer.
Topcoat Paint – Akzo Nobel Autocoat BT LV650 Basecoat is to be applied to opacity for correct color matching.
Clearcoat – Akzo Nobel Autocoat BT LV650 Clear is to be applied in two single coats to achieve gloss.

All removable items such as brackets, compartment doors, trim, etc. is to be painted separately to insure paint behind all mounted items.

After the cab and body are painted, the color is to be verified to make sure that it matches the color standard. Electronic color measuring equipment is to be used to compare the color sample to the color standard entered into the computer. Color specifications is to be used to determine the color match. A Delta E reading is to be used to determine a good color match within each family color.

All removable items such as brackets, compartment doors, door hinges, and trim is to be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly is to be finish painted before assembly.

The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. These requirements must be met in order for the exterior paint finish to be considered acceptable. The manufacture's written paint standards is to be available upon request.

#### 3.1.7. Undercoating

Undercoating is to be applied to the underside of the vehicle to protect the body and components from moisture and damaging compounds.

#### 3.1.8. Ceramic Coating

A ten year ceramic coating is to be applied to the vehicles exterior after all painting and lettering have been completed.

### 3.2. Roof

#### 3.2.1. Roof Structure

Roof structure is to be a 3/16” 5052 aluminum formed roof truss system designed to maximize strength with cross members welded in place on 16” centers, with the exception of around roof top air conditioners and roof top air vents. The roof trusses is to be constructed to ensure a ½” crown to facilitate water run-off. The roof is to be framed around the perimeter with a custom aluminum extrusion with an integrated drip rail. All roof trusses is to be welded in place to the edge extrusions and to other beams. No mechanical fasteners is to be used for the construction of the roof. Sub structure bracing for aluminum tapping plates of sufficient size and strength is to be welded in place for equipment racks, masts, HVAC platforms, grab handles or other body components as needed.

### 3.2.2. Roof Skin

A roof that can be walked on and utilized for observation and equipment mounting is be applied. Therefore, a minimum of 1/8” NFPA aluminum diamond plate is requested to be utilized and is to be continuously welded around the perimeter. Upon completion of the body, the roof is to go through a vacuum test before moving to the paint finish process. The roofs perimeter, longitudinal and transverse weld seams is to be vacuum tested with 10 – 15 Hg for 1 min. per section of weld to ensure water-tight integrity. The results is to be documented in the body build log.

## 3.3. Walls

### 3.3.1. Wall Structure

The wall structure is to be designed to incorporate framing around all doors, windows, and I/O panels. The design also incorporates the lower compartments and wheel openings into a single piece wall construction, eliminating the need for add on skirts. The construction is to be T-6061 alloy 2” x 2” x 1/8” aluminum tube welded in place on 16” maximum centers. Aluminum tapping plates of sufficient size and strength is to be welded in place for masts, ladders, and any other body mounted components that may be added to the structure. Main door frames and the lower horizontal main tube section is to incorporate 2” x 3” x 1/4” tubing for maximum support. The top tube section is to mate perfectly with a custom corner extrusion that creates a 2” continuous seal along the upper body ridge before the wall skin is applied.

### 3.3.2. Wall Skin

The finished wall skin is to be a 1/8” aluminum 5052-H32 alloy material. The finished wall is to be free of vertical or horizontal seam lines. The aluminum sheet is to be bonded to the wall tubing using 3M 4000 UV, a Silane Modified Polymer (SMP) Adhesive, providing 450 psi Tensile Strength. The wall section is to be loaded on a horizon plane with a minimum 10 psi to ensure the proper bonding properties are achieved. All skin joints is to be continuously welded to ensure a completely void free seam.

All areas between body skin and frames or extrusions are cleaned, sanded and primed with Akzo Nobel LV260 Epoxy Primer. All door frames have 3M 08475 Seam Sealer Tape applied as a barrier.

### 3.3.3. Slide-outs

2) Custom sized slide-out, 8' or less in width and 30" extension depth, with a raised floor area. These are to be installed to the front of the body, one each side. Utilizes an HWH side mounted hydraulic slide system to extend and retract the slide-out section. Operated with a rocker switch placed in a convenient location. Two amber flashing lights installed one in each end of slide-out. Controlled by switch.

2) Custom sized slide-out, from over 12' to 18' in width and 30" extension depth, with a raised floor area. These is to be mounted to towards the rear of the body, one each side. Utilizes a pneumatic operated slide system to extend and retract the slide-out section. Operated with switching placed at an interior location or via an umbilical corded control from an exterior compartment. Two amber flashing lights installed one in each end of slide-out. Controlled by switch.

Bench seat installed **(Location)**. 36" to 60" long. Laminate surface with storage under removable gray, foam cushion(s). Includes two duplex 120V outlets.

### 3.3.4. Rub Rail

Bottom edge of the side wall is to be trimmed with a aluminum extruded rub rail. This trim is to be 2 1/8" high with 1 3/8" flanges turned outward for rigidity. This is to need to be black in color.

The rub rails is to not be an integral part of the body construction, which allows replacement in the event of damage.

#### 3.3.5. Body Fender Crowns

Stainless steel fender crowns is to be provided around the rear wheel openings. These are to be black in color. These fender crowns is to be wide enough to prevent splashing onto the body from the tires.

A rubber welting is to be provided between the body and the crown to seal the seam and restrict moisture from entering. A dielectric barrier is to be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion.

#### 3.3.6. Stone Guards

Diamond plate stone guards is to be fabricated out of 1/8" thick diamond plate sheets. Diamond plate stone guard skins is to be installed full width on the front and rear of the body. In addition, the front and rear corner extrusion is to be protected by formed diamond plate corner guards of the same material as the skins. These skins and caps is to protect the paint from loose road materials during vehicle transit.

### 3.4. Floor

#### 3.4.1. Floor Structure

The cross section of the floor is recommended as follows:

- ½" Neoprene spacer glued in place on top of the chassis frame rails.
- Body floor structure is to be welded to two 4" x 8" aluminum I-beams for maximum stability. This is to create a flat floor interior and maximizes underbody compartment capacity.
- A 1/16" aluminum sheeting on the bottom of the body floor structure is welded in place, then completely sealed between each tube section using a Dow urethane sealant to provide a moisture barrier before the sub-floor is installed.
- Main frame section is 2" x 3" x 1/4" T-6061 aluminum tubing on 16" maximum centers welded in place to the I-beams.
- A minimum 2" of a 2-part Dow Chemical polyethylene insulating foam is to be sprayed in place between floor structure tubing members.
- The sub-flooring is ¾" Okume 10-ply; void free plywood screwed in place to the floor tube structure. Each fastener location is countersunk, treated with body filler, and sanded to a smooth even finish.
- The floor is to be finished with black Lonseal heavy-duty vinyl flooring. An 8-foot-wide material is to be used to eliminate seams in the finished floor.

### 3.5. Personnel and Compartment Doors

#### 3.5.1. Door Construction

The doors is to be fabricated by design of the manufacturer. Doors are to be installed with 3" continuous stainless-steel hinges. All door hardware is to be fully adjustable to maintain a perfect alignment throughout the life of the vehicle. The entry door is to have a minimum width of 29" with a minimum height of 6 feet and include heavy-duty spring-loaded devices to keep the door open or closed as required.

#### 3.5.2. Door Design

The door design is a pan-formed, welded assembly with 1/8" 5052 aluminum sheet forming the exterior skin. Two rotary latches is to be installed in each door.

#### 3.5.3. Door Jamb

The door jamb extrusion is to be welded to the body wall structure. Two striker pins is to be installed in each entry door jamb. A full width formed stainless steel rub strip threshold is to protect the top and front of the door entry.

#### 3.5.4. Door Handles

The door handles is to be stainless steel to include locking two stage rotary latches with paddle-type handles and dual door striker pins for secure closure.

#### 3.5.5. Hinges

All exterior hinges used for entry and compartment doors is to be stainless steel, continuous, piano type, with a 3" open dimension with a 1/4" diameter hinge pin. Hinge mounting holes is to be slotted to allow door adjustment in two planes. Holes is to be drilled and tapped in door and jamb extrusions to accept stainless steel fasteners protected with an anti-corrosion material.

#### 3.5.6. Gaskets

The passenger and compartment door gaskets is to be designed to match the door jamb extrusions. The gaskets is to be extruded from a material designed to satisfy use in extreme ambient temperatures. There is to be no interruptions in the gasket for door locks, latches, or hinges. Gaskets is to be miter cut at the corners and sealed with weather strip adhesive.

#### 3.5.7. Door Window

Each entry door is to have a tempered tinted glass non-opening window and removable cover

#### 3.5.8. Entry Steps

A fold out / flip down entry step system is to be provided behind a dedicated door below the entry door. The step system door is to match the storage doors in the body. The door folds out flat to provide the upper 3 steps of the system. An additional 2 step folding extension that extends the steps down from the door. This is to provide a 5-step system that is ergonomically designed to provide a nominal step height of 8" to 9".

The steps are constructed of 1/8" NFPA aluminum diamond plate welded to ¼" aluminum side wall supports. The steps are to be illuminated with (2) 12V LED lights installed in the front faces of the upper steps.

A stainless steel full width formed angle is to be installed on the entry step door. This surface is to protect the door from wear that the fold out step deployment may cause. The fold out step is to rest against this surface to prevent the paint from being damaged.

#### 3.5.9. Grab Handles

For entry step safety, two 1¼" non-slip grab handles with rubber inserts that meet NFPA 1901 is to be installed. One is to be installed vertically on the modular body at the opening side of the entry door, and one is to be installed on the inside of the door at a 45-degree angle. The grab handles is to be approximately 30-36 inches in length and be securely mounted to properly reinforced locations within the structure.

#### 3.5.10. Rear Access Ladder

A Zico model 3096 Quic-Ladder or equivalent is to be installed on the rear of the body to access the roof.

### 3.6. Compartments

#### 3.6.1. Generator Compartment

The generator compartment is to be designed and constructed from 1/8" aluminum sheet, continuously welded to prevent carbon monoxide intrusion into the user area of the vehicle. The floor of the compartment is to be reinforced to withstand a minimum static load of 1000 pounds. This requirement is needed to support the generator and all related equipment.

Air flow through the compartment is critical to the extended operation of the generator in high ambient temperature

conditions. Fresh air intake and exhaust are located to provide maximum air flow while minimizing noise. Air louvers that are exposed to the exterior painted surfaces of the vehicle is to custom designed and manufactured units fabricated from 1/8" aluminum welded to an aluminum frame and is to match the exterior of the vehicle. The design of the louver is to provide a minimum air flow and provide a minimum of 85 percent free air efficiency. Behind the louvers is to be a wire mesh screen to prevent small object infiltration, while maximizing air flow.

The compartment is to be lined with thermal and acoustical insulation to minimize thermal and audible intrusion into the personnel area. The material is to be Polymer Technologies or equal and provide a triple composite insulation system. The thickness is to be 1 3/8" inches minimum and is to be bonded to the generator compartment walls and ceiling.

The compartment is to be lighted by a minimum of two compartment lights. All 12 VDC circuits and battery cables is to be protected in high temperature loom and supported. All high voltage wiring is to be run in flexible conduit properly sized to handle the circuits and cables.

Service points is to be readily accessible and not blocked by added equipment or devices. An oil drain system is to be included to prevent drain oil from entering the compartment and provide a secure shutoff and drain hose extension system.

### 3.6.2. Battery Compartment

The battery compartment is to be constructed from 1/8" aluminum sheet, continuously welded to prevent battery gas intrusion into the user area of the vehicle. Vent fittings is to be installed on the inboard side of the compartment. This vent system is to include a 120VAC fan that is activated during charger operation (When charger is installed in battery compartment) and is to allow for air circulation around the batteries.

### 3.6.3. Storage Compartments

Storage Compartments is to be installed on the street and curbsides of the modular area body and is to be a continuously welded all-aluminum design. The compartment is to be fabricated from 1/8" aluminum sheet and be a "Sweep out" design. These compartments is to offer quick access for easy service and maintenance from the exterior of the vehicle.
All compartments are to have weather strip gaskets around the full perimeter of the doors, and non-skid material installed on the sills.

All compartments include locking two stage rotary latches with stainless steel paddle-type handles and dual "Nader Pins" for secure closure. All compartments is to have automatic DC LED lighting.

Compartments are to be made of smooth aluminum. All storage compartments is to have a small circular filtered air vent in the upper rear corner to allow moisture to escape.

All compartments include heavy duty gas shock closers, one installed per door.

### 3.6.4. Exterior Display Compartment

This is to be external mounted and capable of containing a 55" display. Custom fabricated aluminum frame and door. Painted to match body. Includes two gas shocks, lockable latch, and LED compartment lighting with switch. Includes raceway and wiring for power/video/audio to display and 120V duplex outlet. I/O panel installed in raceway is an additional option.

### 3.6.5. Hydraulic / Pneumatic Compartment

A storage compartment is to be installed at the rear street side of the modular body that is used for the air compressor and hydraulic pump, if required. The compartment is to be fabricated from 1/8" aluminum sheet and be "Sweep out" design.

### 3.6.6. Awnings

Awnings is to be installed on the slide-out side of the body. One shall be 14' in length with the other being 17' in length. The awning recommendation is to be manufactured by Carefree of Colorado and the model requested to be the Mirage or of similar quality. Each awning is to be mounted in a way that is to not interfere with the operation of the slide-outs when both

the slide-outs and awnings are in use. These is to be housed in a black case and have a black fire-resistant acrylic fabric. They are to be fully electric and have the ability to self-retract to wind or movement of the awning is sensed. LED lights is to be installed in the railing of the awning to provide lighting under the awnings. These awning is to also have the available remote control with extra remote.

**3.7. Electrical**

**3.7.1. Emergency Lighting and Audible Warning**

Emergency lights is to be installed on both sides and the rear of the body as well as on the cab of the chassis. Lights and siren is to be controlled by a controller located in the cab of the chassis.
Do to the requirements for light bars

- Upper Body Perimeter Lighting

8) Whelen M9 series lights with internal flashers and black bezels is to be installed on the upper portion of the body with 3) each being mounted on the left and right sides and 2) on the rear. These lights is to be evenly spaced for aesthetics. The lights mounted on the side of the body is to be blue/white in color with the rear mounted lights being blue/amber in color.

- Lower Body Perimeter Warning

8) Whelen M6 series lights with internal flashers and black bezels is to be installed on the lower portion of the body with 3) each being mounted on the left and right sides and 2) on the rear. These lights is to be evenly spaced for aesthetics. The lights mounted on the side of the body is to be blue/white in color with the rear mounted lights being blue/amber in color.

- Chassis Lightbar

One Whelen Freedom IV of appropriate size is to be mounted and installed on the cab roof of the chassis. The lights is to be blue/white in color and the lenses is to be smoked. This lightbar is to also be capable of being turned all white to operate as a forward facing scene light. No light heads is to be in the rear portion of the bar with the exception of the two rear corners.

- Chassis Grille Lighting

2) Whelen M6 series lights is to be mounted behind the grille of the hood. These is to be blue/white in color.

- Siren & Lighting Controller

The lighting and siren controller is to be a Whelen CenCom Core unit with the CCTL7 Controller and is to control all emergency lighting, audible warning, and body mounted scene lighting. The siren is to be capable of producing 200 watts and include the Howler low frequency option.

**3.7.2. Body Mounted Scene Lighting**

The body is to have 2) Whelen M9 series LED scene lights with black flanges mounted and wired on the left, right and rear sides of the body and is to be controlled by the Whelen controller located in the chassis cab. The scene lights is to be two-way switched from the electrical control panel or cab emergency light controller. The two on the rear is to also serve as back up lights that is to be activated along with the standard reverse lights when the transmission is placed in the reverse gear.

**3.7.3. Ground Lighting**

LED Underbody Ground/Perimeter lighting activated by switch or opening of vehicle or body entrance doors. Quantity / Location: (2) cab doors, (2) rear bumper (2) per side

**3.7.4. Light Tower**

A Command Light, manufactured by Command Light, part number CL802A-FX, light tower shall be provided for installation on the apparatus. The location of the light tower and its controls shall be installed according to

instructions given by the customer and the requirements of the light tower manufacturer. The light tower shall extend 131" above the mounting surface and shall extend to full upright position in less than 15 seconds. The overall size of nested light tower shall be approximately 43" wide x 74" long x 12" high and weigh approximately 300 pounds. The light tower shall be controlled by a wireless remote control in addition to the hand-held 15 foot umbilical line remote control. The storage station for the remote control unit shall be equipped with a button to activate the "Auto-Park" automatic nesting feature. The controls on the remote box shall be:

Two (2) buttons, one (1) for the upper light banks and one (1) for the lower light banks.
One (1) button for optional light bank rotation.
One (1) button for the optional strobe.
One (1) button for lamp tree rotation.
One (1) button for elevating lower stage.
One (1) button for elevating upper stage.
One (1) indicator light to indicate when light is out of roof nest position.
One (1) indicator light to indicate when light is rotated to proper nest position.

The Command Light shall be equipped with the following bank of floodlights:

| | |
|---|---|
| Floodlight manufacturer: | Fire Research Corp. |
| Number of lamp heads: | Eight (8) Spectra SPC105-K28-BOB |
| Voltage: | 120 VAC |
| Watts of each lamp head: | 335 watts |
| Total watts of light tower: | 2,980 watts |
| Total Lumens of light tower: | 224,000 lumens |

Configuration: The light heads shall be mounted in four (4) on each side of the light tower, giving two (2) vertical lines of four (4) when the lights are in the upright position.

*Backlight:*
Bottom 2 light banks able to rotate up to 180 degrees opposite of the top 2 banks of lights. This keeps 4 lights fixed on the main scene while allowing illumination or heating in other areas.

*Special Color:*
The Command Light color shall be changed to black from the stock hammer-tone gray. This paint shall be a powder coat finish for increased durability.

*Strobe:*
Top mounted strobe with (Green) color.

The light tower is to have a custom removable 1/8” aluminum mast cover painted to match the body color. This is to be purely aesthetic.

**3.7.5. Roof Message Board**

A Traffic Flow Board (TFB), manufactured by Command Light, part number TFB-HM3, shall be provided for installation on the apparatus. The location of the TFB and its controls shall be installed according to instructions given by the customer and the requirements of the TFB manufacturer. The TFB shall extend 64" above the mounting surface and shall extend to full upright position in less than 15 seconds. The overall size of nested light tower shall be approximately 64" wide x 75" long x 61" high and weigh approximately 240 pounds. The TFB shall be a single-stage device with message board, capable of 90 degree rotation. The light shall be elevated by an electric linear actuator. The actuator shall adjust the message board angle from 0 to 94 degrees. The base shall have a light that illuminates the envelope of motion during any movement of the light tower mast. The TFB shall be controlled with a hand-held 15-foot umbilical line remote control and shall be equipped with a button to activate the “Auto-Park” automatic nesting feature. The Matrix Board shall be controlled by an in-cab mounted touch screen controller. The TFB shall be equipped with LED light pods and have an average power draw of 38 amps at 12 VDC. This unit is to be mounted on the exterior roof towards the rear of the body.

### 3.7.6. Camera Mast

A Is to-Burt 7-42 Heavy Duty Non-Locking Mast is to be installed on the rear of the body. The mast is to be capable of reaching an extended height of 41’-2” and its nested height is to be 7’-1”. It is to have a payload capacity of 200 lbs. This mast is to be controlled by a wireless/rechargeable remote-control system with a 300’ range and have an optional tethered remote control. All controllers have an emergency stop button for immediate reaction to unexpected situations. All controllers have a one button auto-deploy and auto-stow function to simplify tower operation.

### 3.7.7. Surveillance Camera for Mast

A Silent Sentinel Oculus camera from Is to-Burt is to be installed on top of the mast. This camera is to be capable of HD/4K video, thermal video, and have a 30X zoom capability. The camera is to be controlled from inside the body and wired as to be seen on any of the installed TVs or computer monitors at the work stations. A DVR system is to be needed to record captured footage.

### 3.7.8. Cord Reel

An electrical cord reel shall be provided and mounted in one of the exterior compartments. This reel with be capable of holding 200’ of 10/3 electrical cord and is to have a 30A/120V twist lock female connection on the end. The reel is to have an electric rewind feature for ease of cord retraction. Preferred manufacture is to be Hannay Reels or equitant in specification.

A junction box shall be provided with the cord reel containing 4) 20 amp receptacles and is to have a male plug to match the twist lock on the cord reel. This shall also have an indicator light to indicate power is available when attached to the supplying source.

### 3.7.9. Antenna Raceway

Tubular antenna raceway installed on roof, custom fabricated, .125" aluminum, approximately 6" x 6", welded to roof with 2" standoffs at 60" spaces. To include two vertical raceways/chimneys welded through diamond plate roof for interior wiring routing. Exterior side and ends of raceway painted to match vehicle. Includes grommeted service points at approximately 24” spacing, increasing serviceability.  Accommodates direct mounting of MIMO and other large antennas.

### 3.8. VDC Low Voltage Wiring

All DC wires are heat resistant type that meets SAE J1128 type SXL and/or Multi-Conductor, Tinned Copper Conductors, PVC Insulation Cable. (Multi-conductors are used only for Control and Instrumentation inside the modular body) The wires are loomed and routed the maximum distance away from possible high heat sources and properly clamped to body or frame members to preclude chaffing on other components.

Where holes are cut in the body structure for wiring, they shall have the whole circumference grounded and filed smooth and rubber grommets shall be installed. The wires are to be labeled every 3” with number and function and of a gauge that is rated to carry 125% of the maximum current for which the circuit is projected. All wires and cables shall be marked at each end with a function number that is documented in the DC schematic and described in the wire list.

Battery cables are sized to match the OEM cables with crimped terminals and a black shrink tubing protecting the negative terminals and red for the positive terminals.

### 3.8.1. Modular Body Battery System

The modular body is to be equipped with a dual battery system. Two Group 31 lead acid batteries with a minimum of 210-amp hours are used to support the modular body and communications loads. The batteries is to be charged by a converter/charger. The system batteries are to be protected by a 300 amp in-line fuse.

### 3.8.2. Battery Parallel System

The system batteries are to be isolated from vehicle batteries and be paralleled when necessary to assist in starting vehicle or generator. There is to be a momentary switch located on the vehicle cab console and one in the modular body power distribution panel. This switch is to combine both battery banks for 5 minutes.

### 3.8.3. Power Converter/Charger

A 120VAC to 12VDC Progressive Dynamic marine grade 80-amp power converter is to be provided to support the 12VDC electrical load and charge the batteries during generator or shore power operations.

Vent fittings is to be installed on the inboard side of the compartment. This vent system is to include a 120VAC fan that is activated during charger operation (When charger is installed in battery compartment) and is to allow for air circulation around the batteries.

### 3.8.4. 120/240 VAC High Voltage Wiring

Wire sizes is to be determined per circuit requirements and in accordance with the National Electrical Code. All 120/240VAC wiring is to be routed through cable raceways. Fixed wiring systems that are not in raceway are routed in flexible conduit rated at not less than 194 degrees Fahrenheit.

Type SO cord with a rating at least 600 volts are use on equipment plugged into receptacles. All wires is to be type THHN, THW or Type SO cord. Electrical cords or conduits is to be supported within 6 inches of any junction box and at a minimum of every 24 inches of continuous run. All wiring is to be secured and fastened at all bends and is to be protected against chaffing and damage. Wiring is to be concealed but easily accessible.

All circuits is to be properly grounded in accordance with the National Electrical Code NEC-250-6. All wires and cables is to be mark at each end with a function number that is documented in the AC schematic and described in the wire list.

All wiring and associated equipment is to be tested by the manufacturer and quality assurance personnel. Electrical polarity verification is to be made on all permanently mounted equipment and receptacles.

### 3.8.5. Power Distribution Panel

The Power Distribution Panel is to consist of a custom designed anodized black aluminum panel with white laser etched descriptions for every breaker and switch. The panel is equipped with 120/240-volt, 50 amps, single-phase, three-wire system that has appropriately sized circuit breakers.

Install an Analog Frequency/Amps/Voltmeter to be located on the main power distribution panel. Its features need to be frequency display 55 to 65Hz, Ammeter displays 0 to 100amps, AC Voltmeter display 0 to 150vac with a selector switch between phases. A surge suppression device that meets the requirements of ANSI and IEEE is to be installed per phase located in the power distribution enclosure. Other appropriately sized circuit breakers is to be installed for 12 VDC applications.

A manual power transfer switch is to be installed in the electrical distribution panel for selection of either generator power or shore power. The transfer switch is to switch both hot legs and the neutral keeping all power sources isolated. The panel is to also contain DC meters for monitoring voltage and generator hours. A generator remote start/stop switch and Line Alive indicators for shore power, generator and night service is to be provided. The panel should be hinged to provide easy service entrance for maintenance.

### 3.8.6. External Shore Power Input Connector(s)

An external power inlet, preferably a Hubbell 100A 125/250V, 3 pole 4 wire Twist-Lock is to be installed on the street side of the modular body. Recommend a stainless-steel shore power inlet with a self-closing cover so that the interior is shielded from the elements when not in use, creating a watertight cover, securely fastened. This connector is to be used to provide

the required 240-volt, 100 amp, single-phase, three-wire AC service to the power distribution panel.

A recessed aluminum waterfall enclosure is to be installed in the body for the shore power connector. This enclosure will provide protection for the shore power connector and is angled downward to allow water to run off.

#### 3.8.7. Night Service

Install a "Night Service" 120VAC auxiliary AC input that will allow connection of chassis and generator block heaters, and the battery charger/converter. This circuit is used when the vehicle is on the road and standard external power is not available overnight.

#### 3.8.8. 120 VAC Outlets Recommendations

One (1) 120VAC/USB duplex outlet is to be installed in the raceway at each of the workstations.

Two (2) 120VAC GFCI duplex outlets with weatherproof covers is to be installed on the exterior curbside; each exterior duplex is to be on separate circuits.

#### 3.8.9. 12 VDC Lighting (Interior)

12-volt ceiling mounted I2 white dimmable light fixtures with switches is to be installed in the interior areas. The lights are to be individually switched in zones or at the electrical Power Distribution Panel.

#### 3.8.10. 12 VDC compartment Lighting (Exterior)

Each exterior compartment is to have 12VDC LED lighting operated off of a switch triggered when opening the compartment door.

#### 3.8.11. Rear FMVSS Lighting recommendations

The rear (D.O.T.) LED lighting is to consist of the following:

Two (2) Whelen®, Model M6BTT, red LED stop/taillights
Two (2) Whelen, Model M6T, amber LED arrow turn lights
Two (2) Whelen Model M6BUW, LED backup lights

The lights is to be mounted in polished combination housing.

Two (2) Whelen, Model M6FCV3P, three (3) place chromed ABS housings provided for the rear M6 series stop/tail, directional, and back up lights.

The marker and clearance lights is to be Truck-Lite, LED light fixtures.

Truck-Lite NYK-77 anti-corrosive is to be applied to lamp-plug interfaces.

### 3.9. Generator

A 30KW 120/240VAC 60 Hz water-cooled diesel-powered generator is to be provided. The generator is to be mounted on rubber isolators. The generator and muffler is to be mounted as required to suppress sound and vibration. The orientation of the generator shall be made to allow for ease of maintenance and service.

The generator is to be equipped with sensors that is to activate the generator shut down system on low oil pressure and high-water temperature.

The generator is to be equipped with engine block heater if available from the generator manufacturer as an OEM feature. The generator is to include a remote Start/Stop preheat switch and hour meter located in the modular body power distribution panel.

Fuel supply for the generator is to be from the chassis fuel tank. The system is to be designed and installed to leave a

minimum of 10% of fuel in the tank when the generator runs out of fuel.
The generator is to be equipped with a 12VDC alternator that is to be wired to charge the modular body battery as well as satisfy all 12VDC systems of the generator.

A "Night Service" 120VAC auxiliary AC input allows connection of chassis and generator block heaters, and the battery charger/converter. This circuit is used when the vehicle is on the road and standard external power is not available overnight.

### 3.10. HVAC

Northern Air, TO48DXWM, 4-Ton Wall Mount HVAC Unit is to be installed and include the following specifications or of similar spec and quality:
1. 48,000 BTU/hr. total cooling capacity at 80db/67wb return air and 95°F ambient
2. 240 VAC, single-phase, 60 Hz
3. Motorized impeller style centrifugal evaporator supply fan with EC motor
4. High quality German-designed Variable Speed Condenser Fan
5. 6 kW resistive heat
6. Low ambient operation to -10 F
7. Supply air located at ceiling level
8. Filters: Standard MERV 7
9. R-407C refrigerant
10. 16-18ga galvanized sheet metal construction
11. Custom Polyester Powder Coat
12. Hinged access doors
13. Remote Display (20EPGD1)

The unit is to mounted to the rear wall of the vehicle and is to include custom aluminum plenums for ducting of supply and return air. The HVAC ducting is to be comprised of three (3) channels, one (1) supply in the middle with two (2) return channels to either side. The channels shall be insulated with 1/8" vinyl foam on the interior of the ducts. The channels are to be divided with vertical support structure for the ceiling to attach to. All supply vents is to be adjustable curved blade grills with dampers to adjust air flow into the vehicle to maximize the users comfort. All return vents is to feature a removable grille that houses a washable metal filter.

### 3.11. Interior

#### 3.11.1. Walls

The walls is to be insulated with minimum 2” sprayed in two-part Dow Chemical polyethylene insulating foam providing an R-12 value. The insulation is to be covered with 3/8” plywood and screwed to the aluminum wall structure. The walls is to be finished with gray colored commercial grade non-static sound absorbing carpet.

#### 3.11.2. Floor

The floor is to be insulated with minimum 2” sprayed in two-part Dow Chemical polyethylene insulating foam providing an R-12 value. The insulation is to be covered with 3/4” plywood and screwed to the aluminum floor tubes. The floor is to be finished with black Lonseal heavy-duty vinyl flooring. An 8-foot-wide material is to be used to eliminate seams in the finished floor.

#### 3.11.3. Ceiling

The ceiling is to be insulated with minimum 2” sprayed in two-part Dow Chemical polyethylene insulating foam providing an R-12 value. 3/8” plywood is to be applied to the bottom of the roof structure and finished with gray colored commercial grade non-static sound absorbing carpet that matches the interior walls.

## 3.12. Cabinet

### 3.12.1. Cabinet Construction

Interior cabinets is to be constructed of aluminum panels, aluminum extrusions and zinc plated, aluminum or stainless-steel fasteners. No rivets is to be used, and all components is to be CNC punched. The principal walls, shelves and frames is to be fabricated from .063” aluminum and pre-punched with all required assembly and mounting slotted holes. Latches is to be a full width extruded pull handle with integrated self-latching mechanisms that allow one hand unlatching and opening on the entire width of the panel. The finish is to be a polyester powder coat, color to be light gray. Drawer slides is to be all steel double carriage ball bearing, full extension slides capable of withstanding 234 lbs. loading per drawer. Doors are formed to a 1” thickness from a single sheet of aluminum.

### 3.12.2. Microwave

A microwave oven, 1 cubic foot, 900 watt, and is to be installed in a cabinet on a dedicated circuit breaker.

### 3.12.3. Refrigerator

A Norcold DE-0041 is to be installed in a cabinet. This is to be 3.6 cubic feet, AC/DC.

### 3.12.4. Weapons Vault

A weapons vault capable of holding two long guns, two pistols, and assorted ammunition. This is to have electric locking system with keyed backup to limit access. Unit can be mounted under the bench seat cushions.

### 3.12.5. Work Surface Construction

The work surface construction is to include ¾” plywood top with 5/8” build up below 1 3/8” deep for attachment of black rubber bull nose trim to front of console. Top to be white spectrum laminate glued in place to finish the countertop surface.

### 3.12.6 Conference Area

The conference area is located as shown as a possible rendering body plan view drawing. This area consists of a conference table with seating. Bid must include chairs and a conference table. These is to be secured with eyehooks and bungee cords while the vehicle is in transit.
The conference table is to be supported by an aluminum trough and legs to provide cable routing paths. Space for recessed equipment points in tabletops may also be added to this section.

### 3.12.7. Workstation Area

Storage cabinets and workstations per drawing is to be provided. Overhead storage cabinets is to be installed above the base cabinets. Chairs are to be provided for the front area workstations. Chairs are to be secured with eyehooks and bungee cords while vehicle is in transit.

### 3.13.8. Pocket Door

A lockable pocket door is to be provided to separate the interior sections of the vehicle per vehicle drawing. The pocket doors is to be constructed of 3/4" x 1 3/4" aluminum tube frame covered in 1/16” aluminum skins. The door is to be finished to match the walls. A window is to be installed in the upper section of the door. A nylon or fabric cover is to be provided for the window and attach to the door with Velcro or snaps.

### 3.12.9. Communications Wiring Raceways

A typical 3 1/2” x 4 3/4”, painted (gray) steel cable raceway is to be installed above consoles and in the upper corners of the walls and roof, from the equipment racks throughout the truck to provide for communication cabling to the workstations, conference table or other locations as needed. The raceway covers is to be removable to provide easy access

to the wiring. Wiring installed in the raceway is to be neatly bundled and secured.

#### 3.12.10. Equipment Rack

One, custom-built, EIA 19" equipment rack is to be installed for maximum strength and best utilization of space. See drawing for locations. The rack is to be manufactured from angled steel rails drilled and tapped per industry standards. The rack frame is to be constructed of 1/8" aluminum sheet reinforced with ¼" aluminum plate as required. The rack frame is to be securely fastened to ¼" plate that is welded to modular body frame. A ½" wide braided ground strap is to be installed between the racks and the modular body frame. No wood is to be used for any structural component of equipment racks.

All racks include edge protected circular openings for clean routing of cables, and full-length cable tie-off bars to facilitate secure and reliable equipment installation.

The rear of the rack is to have a vertical outlet strip with AC outlets to accommodate all equipment power distribution requirements.

The rear of the rack is to have 12V DC LED vertical light strips installed to illuminate the back of the rack. Lights are controlled by a switch at the DC power panel or when the rack door is open.

Rack door, removable, aluminum mesh, installed on front of equipment rack. Includes key lock and fans.

Racks are to have maximum amount of vertical space for equipment installation and is to be 30" deep with rear mounting rails at 18" and 24".

The equipment rack(s) are cooled with a 100 CFM blower panel per rack located in the top trim panel. This blower pulls hot air from the top of the equipment rack and expels it into the main compartment. This hot air is then conditioned by the air conditioning system to be supplied back into the vehicle.

#### 3.12.11. Securing the Interior

Implement various methods for positively securing all drawers, tables, TV, chairs, doors, or other items within the interior of the unit.

### 3.13. Safety and Security

#### 3.13.1. Smoke and CO Detectors

The modular body is to be provided with smoke and CO detectors, per zone (ops / conference), powered by the 12-volt system.

#### 3.13.2. Door Alarms

An audible and visual warning shall be installed in the cab and activated when ignition is turned on and any compartment, personnel, or cab door is open. The warning is also activated when any deployable equipment is deployed, including but not limited to mast, awning, satellite antenna and stabilizer jacks.

#### 3.13.3 Fire Extinguishers

Two (2) five (5) pound fire extinguishers – one in cab and one in body.

#### 3.13.4. Road Safety Kit

Reflective warning triangles shall be included, located in a storage compartment.

#### 3.13.5. Documentation

OEM manuals including the chassis, and individual OEM provided component manuals are included as provided by the OEM manufacturers. A PDF copy of the exteriors, interiors, AC and DC, and communications systems drawings is to be

provided.

## 4. CUSTOMER FURNISHED EQUIPMENT (CFE)

A list of all CFE must be provided to allow for consideration of vehicle preparation, materials and labor for installation and integration.

*Customer furnished equipment is to be handled and integrated with due care and is to be delivered in the same condition it was received.*

Customer furnished equipment includes equipment identified as “CFE”

### 4.1 Computer Equipment

(6) Work Station Computers is to be provided by the customer. These computers is to be installed in the equipment racks and all cabling ran to the work stations.

## 5. Additional Technical Equipment

This list of additional equipment must be provided and should be considered for vehicle preparation, materials and labor for installation and integration.

### Radios

8) Motorola APX 8500 Tri Band radios is to be installed at the work stations in the body of the unit. One at each of the interior workstations, one in the equipment rack, and one located in the exterior work station. Each unit is to have a magnetic microphone holder installed. Each radio is to also have a dedicated antenna mounted on the roof in the above mentioned raceway.

1) Motorola APX 8500 Tri Band radio is to be installed in the chassis cab within easy access of the driver. This unit is to have a magnetic microphone holder installed. The provided antenna is to be mounting is to be dependent of the chassis.

### DVRS (Digital Vehicular Repeater System)

A Motorola Tri-band DVRS is to be provided and installed in the unit for radio patching. This is to be installed in the equipment racks and all cabling routed to a designated work station.

### A/V Equipment

#### Video Switching Equipment

1) Extron, 60-1497-21, Fixed Switcher: DXP 1616 HD 4K PLUS, 16 x 16 HDMI Matrix Switcher

4) Extron, 60-682-02, MKP 2000 - Remote Control Panel X-Y Button Panel for Extron Matrix Switchers.

4) Monoprice, 43328, 4K SlimRun AV 49' Active Optical HDMI/Fiber

1) Monoprice, 43329, 4K SlimRun AV 65' Active Optical HDMI/Fiber Conversion Cable, (or equivalent model)

#### Off Air TV Equipment

1) iView, 3500STBII, Multi-Function Digital ATSC Tuner. Built-in HDMI and Analog Output or Equivalent

1) Middle Atlantic, RC-2, 2 RU Clamping Rack Mount Shelf

1) Winegard, Air 360, Off-Air Antenna, Omnidirectional Dome, Roof-Mount

### Audio Equipment

1) Shure, BLX24RSM58-H10, Wireless Vocal Rack Mount System with SM58 Handheld Microphone (or equivalent model).

1) RDL, ST-VCA3, Voltage-Controlled Amplifier

1) RDL, PS-24AS, 24 Vdc Switching Power Supply, North American AC Plug, 500 mA, dc Plug

1) RDL, DB-RCL10K, Remote Level Control, Black (interior/exterior compartment)

1) Speco, PMM120A, 120W RMS P.A. Mixer Amplifier (or equivalent model)

2) Whelen, SA315P, Exterior 100 Watt Speaker, Nylon Composite, Black (or equivalent model)

1) Furrion, FSBNN30MSS-BL, Outdoor Rated IP45 Soundbar, 70W 2.1 Outdoor Soundbar with Built-in Subwoofer - Black, RCA / 3.5mm / Optical, 39.4" x 3.5" x 3.5"

### Displays

6) Viewsonic, XG2405, 24" Gaming Monitor with Speakers, 1080P, 2x HDMI & DP ports, VESA 100mm (Or Equivalent)

1) Samsung, 80” LED 4k UHD Smart TV or Equivalent

1) Samsung, 55” LED 4K UHD Smart TV or Equivalent

1) Samsung, 55” Ultra-thin rated for exterior use or Equivalent

1) Logitech, 960-001101, MeetUp HD Video and Audio Conferencing System for Small Meeting Rooms

*** All display items is to require appropriate mounting brackets and hardware. ***

## Network and PC Equipment

### Routing and Switching

1) TP-Link, TL-SG3452P,
52-Port JetStream PoE+ Switch, 48 x Gigabit PoE+ Ports (30W), 4 x Shared Gigabit SFP Slots, L2/L3/L4 QoS and IGMP snooping, IPv6, VLAN, QoS, Multicast Support, IPv6, Local & Omada SDN Cloud Management, 104Gbps Switching Capacity, 384W POE Budget (Or Updated Model)

1) Trendnet, TC-P24C6, Patch Panel, RJ-45, CAT6, 1X24

### Cellular Network Equipment

1) Cradlepoint, for Verizon 5G services

1) Cradlepoint, for FirstNet 5G services

1) TAOGLAS, MA1509.AK.001, Synergy 9-in-1 5G MIMO Antenna. 4x 5G (600MHz-6GHz), 1x 5G (1.7-6GHz), 3x WIFI, 1x GPS. (or updated model) Includes low-loss cable extensions to equipment rack.

### Computer Equipment

Installation of Customer supplied workstations.

### Network Security Camera Equipment

1) Axis, 01580-004, S2208 Camera Station, All-in-one recorder with integrated 8 channel PoE switch, 4 TB, 8 Licenses, Windows 10 IOT Enterprise

2) Axis, 0879-020, AXIS Camera Station (v. 5) - Universal Device license - 1 license

6) Axis, M3215-LVE, PERIMETER CAMERA - 1080P FIXED DOME CAM HD, H.265, 100° FOV, WDR, IR, POE, IP66, IK10 (or updated model)

1) Axis, M3115-LVE, DOOR CAMERA - 1080P FLAT-FACED DOME CAM HD, H.265, LIGHTFINDER, IR, POE, IK08, IP67 (or updated model)

## Chassis Added Equipment

### Chassis Backup Camera System

1) The vehicle shall be equipped with an a 360 Video system. This system shall provide the driver with a 360 degree birds-eye style view of the apparatus, along with individual camera views based on determined conditions. A 10" HD monitor is to also be installed in the cab of the chassis. Systems Hardware shall include:

- (1) ECU (Electronic Control Unit)
- (1) Power, Video and Trigger Interface Harness
- (4) Cameras: (1) Front-view, (1) Rear-view, (2) Side-view (and metal camera mount)
- (1) 10" HD In-Cab Monitor
- (4) Camera Extension Cables
- (3) Toggle Button
- (8) Screw Cover

### Air Horns

The chassis shall be equipped with emergency tone (stutter tone) air horns. This is to comprise of two hood or through bumper mounted air horns. These shall be provided with air from the chassis air system. They is to be activated by a pull chain within easy reach of the drivers arm and also a foot switch in both the drivers and passenger's area floorboard. Foot switches is to be placed so that they are not easily activated while entering or exiting the cab.

### Trailer Towing Provisions

A Class 5 - Commercial Duty 3" Receiver Hitch is to be installed on the rear and connected to the chassis frame to allow for trailer towing. This is to be accompanied by a 7-way trailer electrical connection for powering all functions of a trailer.

## 6. Pull Behind Trailer

This section is to outline the requirements for the 20'x8.5' pull behind trailer that is to house the bathroom with needed accommodations. This is to also specify the additional storage area of the trailer.

### 6.1 Trailer Frame

An aluminum trailer frame shall be built and assembled in a manner that is to support the weight of the needed capacity of the trail and all foreseen equipment/accessories up to the allowable weight of the axels. The tongue of the trailer is to be long enough that it is to allow for hook up behind the mobile command unit and clearance of the rear mounted air condition unit.

#### 6.1.2 Axles

There shall be 2) 8,000 lb. axels mounted to the trailer frame giving a load limit of 16,000 lbs.

#### 6.1.3 Trailer Coupler

A pintle hitch loop shall be installed on the vehicle side of the trailer that is to have a rating of 20,000 lbs.

#### 6.1.4 Electrical Connection

A trailer hook up is to be provided to power the lights and functions of the trailer brakes. This is to be a standard 7-way RV style plug that common on all trailer towing vehicles.

#### 6.1.5 Trailer Jacks/Stabilizers

An electric trailer jack is to be installed on the tongue of the trailer to raise and lower the trailer.

There is to also be 4 manual style crank down stabilizers that is to be used to stabilize the trailer when it is in use in a stationary position.

### 6.2 Body Construction

The body of the trailer shall match the build specification of the body for the mobile command unit. Same materials and standards. The trailer is to be divided into two section via a separation wall. The two sections is to be a bathroom located in the front part of the trailer, and a storage area in the rear of the trailer.

#### 6.2.1 Paint

The paint color and specifications is to be the same as the mobile command unit.

#### 6.2.2 Undercoating

Undercoating is to be applied to the underside of the vehicle to protect the body and components from moisture and damaging compounds.

#### 6.2.3 Ceramic Coating

A ten year ceramic coating is to be applied to the vehicles exterior after all painting and lettering have been completed.

#### 6.2.4 Doors

Three doors shall be provided. One is to be the entrance to the bathroom on the right hand side of the trailer. The Second shall be a walk-in door into the storage area on the right hand side of the trailer. The third shall be a fold down door / ramp located on the rear of the trailer.

#### 6.2.5 Flooring

The floor covering material shall be a heavy duty, waterproof, easily cleaned material that also offers an anti-slip characteristic.

### 6.3 Electrical

#### 6.3.1 A/C Power Provisions

An electrical shore power hook up is to be provided so that while deployed, a generator can be hooked up to the trailer to power all accessories requiring power. All power shall be routed through a breaker box for distribution and protection.

#### 6.3.2 D/C Power

A deep cycle 12 volt battery is to be installed to supply power the trailer jack when not hooked up to the towing vehicle. This is to be mounted in a location that keeps it out of sight for aesthetics.

#### 6.3.3 Air Conditioning

A rooftop air conditioner shall be installed on the trailer that is to condition bathroom space and the storage space. This shall be powered by the A/C power supply.

#### 6.3.4 Interior Lighting

Interior lighting shall be provided to illuminate the inside of the trailer sections.

#### 6.3.5 Exterior Lighting

All exterior lighting that is required by DOT standards shall be installed so that it is to be in compliance is to all laws and regulations.

### 6.4 Bathroom Equipment

A heavy duty commercial toilet, urinal, and sink shall be installed in the bathroom section of the trailer. These is to be stainless steel for ease of care and durability. They is to be supplied water from an onboard water supply. A black tank shall be installed to receive the waste water from all of those appliances. A small wall mounted cabinet shall be installed to keep needed toiletry supplies.

### 6.5 Storage Area

A storage area is to be located in the rear part of the trailer. This is to be for general storage of extra equipment but is to also need the capability to transport a golf cart or something similar.

#### 6.5.1 Load Management

Tie down points is to be provided along the walls and the floor for load management.

## 7. Warranty

Company is to provide warranties as follows:

1) Year against defects in materials and workmanship.

10) Years for the welded structure and skin of the body of the unit against defects in materials and workmanship.

5) Years of fabricated parts and paint of the unit against defects in material and workmanship.

2) Years for the electrical system of the unit against defects in materials and workmanship.

OEM warranties is to be provided by the OEM.

# F. BID SHEET & CONTRACT TERMS ACCEPTANCE FORM

## SHERIFF OFFICE – MOBILE COMMAND UNIT AND TRAILER

**Bid # 24-510-FP-01**

Company _____
Address
City/State/Zip_____

**OFFER**

**A.** This offer shall be open to acceptance and is irrevocable for a minimum of **Ninety Days** from the bid closing date.

**B.** Having examined the Place of Work and all matters referred to in the Bid/Contract Documents prepared by Iredell County for the above mentioned purchase, we, the undersigned, hereby offer to provide a complete Bid in the Sum of:

**BID $**_____ U.S. Dollars Each

**C.** The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.

Addendum # _____ Dated: _____
Addendum # _____ Dated: _____
Addendum # _____ Dated: _____

D. If this Bid is accepted, we will deliver product in _____ calendar days from Notice to Proceed.

Terms & Conditions Acceptance: By signing below, the individual accepts and verifies:

a) That he/she is a duly authorized representative of the company and is able to legally bind the company to this agreement.
b) Understanding & acceptance of all terms and conditions contained within this solicitation and agreement that this solicitation, its terms and conditions, become the entire contract to which Iredell County and contractor will be bound for this project, and shall override and supersede all other terms and conditions, regardless of form or delivery, including requirements to establish a credit account.
c) That it, and any subcontractor used in performance of this contract is in compliance with the E-Verify provisions contained in Article 2 of NC G.S. 64.
d) That this offer is not a "sham" offer and is made without collusion.
e) Acceptance of and agreement to fulfill the insurance & risk requirements set forth above.

_____ _____
Printed Name of Authorized Individual Signature

_____ _____ _____
Title Phone Date

MUST BE INCLUDED WITH BID

# E-VERIFY CERTIFICATION

I, _____(the individual signing below), being duly authorized by and on behalf of _____ (the Company, Contractor or Vendor entity hereinafter "Employer") hereby certify the following:

1. Employer understands that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25(5).

2. Employer understands that Employers must Use E-Verify. Each employer, after hiring an employee to work in the United States, shall verify the work authorization of the employee through E-Verify in accordance with NCGS§64-26(a).

3. Employer is a person, business entity, or other organization that transacts business in this North Carolina and that employs 25 or more employees in this State. (mark Yes or No)

   a. YES _____, or

   b. NO _____

4. Employer's subcontractors comply with E-Verify, and Employer will ensure compliance with E-Verify by any subcontractors subsequently hired by Employer.

_____

Signature of Certifying Official Date

_____

Printed Name Title

MUST BE INCLUDED WITH BID

**CERTIFICATION OF ELIGIBILITY**
**Under the Iran Divestment Act**

Pursuant to G.S. 147-86.59, any person identified as engaging in investment activities in Iran, determined by appearing on the Final Divestment List created by the State Treasurer pursuant to G.S. 147-86.58, is ineligible to contract with the State of North Carolina or any political subdivision of the State. The Iran Divestment Act of 2015, G.S. 147-86.55 *et seq*.* requires that each vendor, prior to contracting with the State certify, and the undersigned on behalf of the Vendor does hereby certify, to the following:

1. that the vendor is not identified on the Final Divestment List of entities that the State Treasurer has determined engages in investment activities in Iran;
2. that the vendor shall not utilize on any contract with the State agency any subcontractor that is identified on the Final Divestment List; and
3. that the undersigned is authorized by the Vendor to make this Certification.

Vendor: _____

By: _____ _____
Signature Date

_____ _____
Printed Name Title

The State Treasurer's Final Divestment List can be found on the State Treasurer's website at the address: https://www.nctreasurer.com/inside-the-department/OpenGovernment/Pages/Iran-Divestment-Act-Resources.aspx and will be updated every 180 days. For questions about the Department of State Treasurer's Iran Divestment Policy, please contact Meryl Murtagh at *Meryl.Murtagh@nctreasurer.com* or (919) 814-3852.

* Note: Enacted by Session Law 2015-118 as G.S. 143C-55 *et seq*., but has been renumbered for codification at the direction of the Revisor of Statutes.