

**INVITATION FOR BID  
QUICK ATTACK APPARATUS FOR  
TOWN OF MOSHEIM FIRE  
DEPARTMENT**



Issued by:

Town of Mosheim Fire Department  
Chief James Foshie  
1000 Main Street  
Mosheim, TN 37818

Phone (423) 422-7401 Fax (423) 422-6554  
jamesfoshie@tmvfd.org  
Date of Issue: Wednesday May 10, 2023

**Due Date/Time: Tuesday May 23, 2023, at 3:45 p.m.  
DEADLINE FOR RECEIVING SEALED BIDS**

## **CALENDAR OF EVENTS/BID TIMELINE**

Listed below are the important dates and times by which the actions noted must be completed. All dates are subject to change by the Town of Mosheim Fire Department. If the Town of Mosheim Fire Department finds it necessary to change any of these dates or times prior to the due date, the change will be accomplished by addendum.

### **ACTIONS**

### **COMPLETION DATE**

Distribution of Specs	Wednesday May 10, 2023
Sealed Bids Due	Tuesday May 23 by 3:45 p.m.
Bid Opening	Tuesday May 23 at 4:00 p.m.
Consideration of Bids	Thursday May 25, 2023
Expected award of Bid	Thursday May 25, 2023

### **FORMS AND SPECIFICATIONS**

Details and specifications are available from the Town of Mosheim website [www.mosheim.net](http://www.mosheim.net). Submitters are required to use the official "BID FORMS", and all attachments itemized herein are to be submitted as a single document.

### **HOW TO SUBMIT A SEALED BID**

One original and one copy (for a total of 2), of each bid shall be submitted in a sealed package, prominently marked on the outside with the words, "QUICK ATTACK BID". Bids must be received no later than 3:45 pm Tuesday May 23, 2023. Bids submitted by FAX or other electronic media will not be accepted under any circumstances. Late bids will not be accepted, and will be returned, unopened, to the Bidder, at the Bidder's expense.

The Town of Mosheim Fire Department reserves the right to reject any and/or all bids, reserves the right to waive any informalities or irregularities in the bid, and reserves the right to award contract(s) in the best interest of the Department.

Sealed Bids are to be submitted to the following address:

**Town of Mosheim Fire Department  
Attn: Chief James Foshie (QUICK ATTACK BID)  
1000 Main Street  
Mosheim, TN 37818**

**BID COVER PAGE**

Name of Firm, Entity, or Organization:

Federal Employer Identification Number (EIN):

Name of Contact Person:

Title:

E-Mail Address:

Mailing Address:

Street Address (if different):

City, State, Zip:

Telephone:

Organizational Structure – please check one:

Corporation    Partnership    Proprietorship    Joint Venture    Other:

If Corporation:

Date of Incorporation:

State of Incorporation:

States Registered in as Foreign Corporation:

Does your firm accept credit cards for payment?    Yes    No

Authorized Signature:

Print Name:

Signature:

Title:

Phone:

**This document must be completed and returned with your submittal.**

**BID FORM**

**TOWN OF MOSHEIM FIRE DEPARTMENT**



Name of Firm Submitting Bid \_\_\_\_\_

Name of Person Submitting Bid \_\_\_\_\_

**BID ACKNOWLEDGMENT**

"The undersigned, as Bidder, hereby declares that he/she has informed himself/herself fully in regard to all conditions to the work to be done, and that he/she has examined the bid and specifications for the work and comments hereto attached. The Vendor agrees, if this bid is accepted, to contract with Town of Mosheim Fire Department in the form of a Purchase Order, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, labor, and service necessary to complete the work covered by the Bid and Contract Documents for this Project. The Bidder agrees to accept in full compensation for each item the prices named in the schedules incorporated herein."

\_\_\_\_\_

**TOTAL SUM OF BID \$**

\_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

*This document must be completed and returned with your Submittal.*

**VENDOR QUESTIONNAIRE AND REFERENCES**

*(You may use a separate sheet for additional information)*

VENDOR: \_\_\_\_\_

DATE: \_\_\_\_\_

1. Where are your corporate/ business headquarters located?
  
2. Where is your factory located?
  
3. Where is the nearest full-service center?
  
4. How many years has your organization been in business under your present business name?
  
5. List all previous business names of your organization:
  
6. Will you furnish a written guarantee that sufficient replacement equipment and/or replacement parts and components will be available at your facility if requested within a minimum 24-hour period?
  
7. Will your company provide a written copy of the manufacturer's written or expressed warranty on the equipment? The provider must state the length of standard warranty and any extended warranties available as well as all requirements for the department to remain within warranty compliance.
  
8. Does your company contract out warranty repair work? If so, how long has your company done this? How long has the current vendor been with your company? Please provide name, address, and phone number of vendor.

9. Have you ever failed to complete any work awarded to you in the last 3 years? Yes \_\_\_ No \_\_\_  
If yes, where, and why?

10. List/describe five (5) contracts/projects with similar specifications that you currently have or have recently completed.

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Project	Location
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Date	Contract Amount
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Contact Name, Phone Number and Fax Number
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Project	Location
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Date	Contract Amount
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Contact Name, Phone Number and Fax Number
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Project	Location
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Project	Location
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Contact Name, Phone Number and Fax Number
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Project	Location
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Date	Contract Amount
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Contact Name, Phone Number and Fax Number
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**NO-BID RESPONSE**

**TOWN OF MOSHEIM FIRE DEPARTMENT  
Statement of "No Bid"**

If you do not intend to submit a bid for this project, please complete and return this form prior to date shown for receipt of bids to:

Town of Mosheim Fire Department  
Attn: Chief James Foshie (QUICK ATTACK BID)  
1000 Main Street  
Mosheim, TN 37818

We, the undersigned, have declined to submit a bid on your " QUICK ATTACK BID " for the following reasons:

- Specifications are too "tight," i.e., geared toward one brand or manufacturer only (please explain below)
- Insufficient time to respond to the Invitation for Bid.
- We do not offer this product or equivalent.
- Remove us from your Vendor list for this commodity or service.
- Our product schedule would not permit us to perform to specifications.
- Unable to meet specifications.
- Unable to meet insurance requirements.
- Specifications unclear (please explain below).
- Competition restricted by pre-approved owner standards.
- Other (please specify below).

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Signature and Title: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Date: \_\_\_\_\_

**NOTICE OF INVITATION TO BID**

The **Town of Mosheim, TN** hereby gives Public Notice of the Invitation for Bid for the purchase of one (1) **“Quick Attack”** fire apparatus and auxiliary equipment per the specifications described on the attached pages.

**INTENT OF SPECIFICATIONS**

It is the intent of these specifications to cover the furnishings and delivery to the Town of Mosheim Fire Department a complete and soundly engineered fire apparatus equipped as hereinafter specified. These specifications address only general requirements regarding the type of construction and tests to which the apparatus must conform. Also, only general requirements of certain details concerning finish, equipment, and appliances with which the successful bidder must comply are included in these specifications. Where not otherwise specified, minor details of construction and materials are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features. The apparatus shall conform to the requirements of the current National Fire Protection Association Standard 1901 for Automotive Fire Apparatus, as if they were written out in full detail, as far as they apply, unless otherwise indicated in these specifications.

**CONDITIONS FOR SOLICITATION OF BIDS**

1. Price quotations shall be firm FOB, Mosheim, TN and exclusive of any Federal excise tax and all State of Tennessee tax.
2. Each bid shall be accompanied by a set of contractor's specifications consisting of a detailed description of the apparatus and equipment proposed, including warranties and guarantees, a ½" – 1' scale drawing of the exact apparatus, and specifications indicating size, type, model, and make of all component parts and equipment.

**Manufacturer's specifications shall be submitted in the same order as the published specifications, to facilitate effective review by the fire department.**

Each bid shall include a “Statement of Exceptions” as indicated in NFPA 1901 Section 4.21. The statement of exceptions shall specifically describe each aspect of the completed apparatus that will not be fully compliant with the requirements of the standard at the time of delivery.

The drawing and specifications must be approved by the department prior to construction. The written specifications shall take precedence over the drawing where discrepancies may arise. Any bid received without these specifications and drawing shall be automatically rejected. There shall be No Exceptions to any of these requirements.

Bidder Complies	
YES	NO



3. Bids will only be considered from companies which have established a favorable reputation in the field of fire apparatus construction. Therefore, each bidder shall furnish the following information:

- a. A customer listing of like units in service and their location.
- b. The location of the closest factory representative in proximity to department.
- c. The manufacturer's closest factory staffed facility to Customer.
- d. Documentation of the length of time manufacturing aluminum fire apparatus bodies.

4. Each bid shall furnish satisfactory evidence of the ability to construct the apparatus as specified and show proof that the manufacturer is able to render prompt service and furnish replacement parts for said apparatus.

5. The bid shall specify the location(s) of warranty work. If the warranty work is to be performed at a location other than the manufacturer, a statement must be made naming the party or parties responsible for delivery and pick-up of the apparatus to the location. Expenses that are covered by the manufacturer should be included along with a listing of acceptable firms for performing warranty work. A statement indicating whether warranty work performed by a vehicle maintenance shop would be compensated for by the manufacturer shall also be included.

6. Total delivery time from contract award and receipt of order to the department must not exceed 240 calendar days from the formal acceptance of this bid. Bids exceeding this schedule may be considered on a case-by-case basis. The successful manufacturer shall acknowledge the receipt of the order and certify the delivery schedule within 14 calendar days of contract signing.

7. The successful manufacturer must submit a full set of accurate drawings and specifications to the department for approval before the apparatus goes on the production line.

8. Failure to comply with any of the above items may be cause for immediate rejection of the bid.

**SERVICE**

The bidder must have "Factory Direct Service". The bidder must include all information about the "Factory Direct Service Center", including the distance from the service center to the Town of Mosheim Fire Department. If the bidder does not have a "Factory Direct Service Center", all information about the factory authorized service center shall be included. The information shall include but not be limited to the following:

- Number of miles from the service center to Mosheim, TN.
- Number of EVT (Emergency Vehicle Technician) certified mechanics
- Description of all repair work (major or minor) that can be performed.
- Description of all repair work that would have to be sent back to factory for repair.
- Description of all chassis and chassis related work that can be performed at the service facility including warranty work.

If any repair or warranty work shall be contracted to a facility not owned by the bidding dealership, the address of the contracted facility must be noted.

Bidder Complies	
YES	NO

**INSTRUCTION OF MANUFACTURERS**

1. Bids must be typewritten, legible, and in their original form. No copies will be accepted.
2. When requested, samples or descriptive matter shall be filed prior to the opening of the bids.
3. In submitting the bid, the manufacturer agrees that acceptance of the bid by the department within the stated period of bid validity, constitutes a contract. No delivery shall become due or be accepted unless notification in writing is first made.
4. The specifications identified by an asterisk (\*) shall be individually priced, as they may be deleted by the purchaser in the final contract.
5. The successful manufacturer shall indemnify and save harmless the department, its officials, agents, and employees, against all claims for royalties and patent infringements thereon which may be involved in the manufacture or use of the apparatus or equipment to be furnished.
6. All goods shall remain the property of the seller until delivered to and accepted by the department.
7. The following chassis, pump, and body specifications have been written to those of Town of Mosheim Fire Department. Exceptions may be allowed if they meet the full intent and function of the specifications and are equal or superior to those specified and provided, they are listed and fully explained on a separate page entitled "Exceptions to Specifications". The bids exception list shall refer to the specification by page and paragraph to prevent misinterpretation. All exceptions shall be listed. Any exceptions not taken shall be assumed by the department to be included in the manufacturer's bid and will conform to the published specifications, regardless of the cost to the manufacturer. Failure to adhere to these instructions, or specifications contained herein, will be just cause for rejection of the bid quotation. Bids taking total exception to these specifications will not be accepted.
8. All bids must be valid for a minimum of thirty (30) days from the bid opening date.
9. The department reserves the right to award the contract by sections, or to accept the bid they shall deem is in the best interest, regardless of whether the accepted bid is the lowest bid, and to waive any informalities, omissions, oversights, or irregularities in any bid and to reject any and all bids when unsatisfactory.
10. The department does not intend to consider bids on prototype, experimental, or unproven types of apparatus.

Bidder Complies	
YES	NO

- 11. These conditions, instructions, and specifications have been developed and written in good faith.
- 12. A preconstruction conference shall be held at the manufacturer’s determined location within thirty (30) days of the contract award. Upon completion of the conference, a set of notes and drawings for the department's approval shall be forwarded prior to the start of any construction. (The Town of Mosheim Fire Department may waive this requirement.)
- 13. The Manufacturers should submit a bid price for the apparatus and any loose equipment.

**QUALITY AND WORKMANSHIP**

The apparatus and equipment specified herein shall be the manufacturer's latest model of production embodying the latest improved automotive engineering practices. All materials, workmanship, and finish must be of superior quality and conform to the nature of service and the character to which the apparatus is intended, to insure long life, dependability, and low costs of maintenance and repair.

**DESIGN CRITERIA**

The apparatus shall be designed, constructed, and equipment mounted with consideration to the distribution of the load to be sustained and to the general type and character of service to which the apparatus will be subjected. All parts of the apparatus shall be sufficiently strong, with ample safety factors provided to withstand the general service under load, meeting both on and off-road requirements.

The design of the apparatus must allow for ease of operation, symmetrical proportions, and ready access to the various parts requiring lubrication, inspection, adjustment, and repair.

Welding that would prevent the removal of any component part for service or repair shall not be employed in the assembly of the apparatus.

The electrical system shall be designed to meet and exceed the anticipated electrical load requirements of the devices indicated in the specifications. The manufacturer shall provide an amp load performance chart for the apparatus as specified.

The chassis must be designed for fire apparatus use.

Bidder Complies	
YES	NO

Bidder Complies	
YES	NO

**WARRANTY REQUIREMENTS-MINIMUM**

- Standard Factory Chassis, Motor, Transmission Warranty
- A standard one (1) year warranty applies to defects in materials and workmanship under normal use and service.
- A ten (10) year warranty applies to the body structure.
- A twenty (20) year warranty applies to the substructure.
- A seven (7) year prorated warranty applies to the paint.
- A three (3) year warranty applies to the lettering and striping lamination.
- A five (5) year warranty applies to electrical components.
- A five (5) year warranty applies to pump plumbing.

A copy of each of the above warranties shall be supplied with the bid for review.

**DELIVERY**

A qualified and responsible manufacturer's representative shall deliver the apparatus and equipment, remaining at the department for enough time to instruct personnel in the operation, care, and maintenance of the apparatus and equipment.

Responsibility for the apparatus and equipment shall remain with the manufacturer until satisfactory completion of the acceptance tests and formal acceptance by the department occurs.

To ensure proper break-in of all apparatus components while still under warranty, the apparatus shall be delivered under its own power by the manufacturer. The apparatus and equipment shall be ready for immediate use at the time of delivery.

The apparatus will be inspected upon delivery for compliance with the specifications. Deviations will not be tolerated and will cause for rejection of apparatus unless listed in the bidder's original bid.

The apparatus shall be covered by comprehensive and liability insurance during the delivery period. The department will assume the insurance obligation on acceptance and at that time, shall present to the manufacturer a certificate of verification, showing liability, comprehensive and collision insurance coverage.

**INFORMATION REQUIRED FROM MANUFACTURER**

The manufacturer must supply at the time of delivery at least two (2) copies of the complete operation and maintenance manuals covering the completed apparatus and equipment as delivered, two (2) destination effective wiring diagrams, copies of electrical and mechanical component manuals for equipment purchased on or with the apparatus.

Bidder Complies	
YES	NO

**INSPECTION TRIP**

One inspection trip during the construction phase will be provided to the Chief and his designees (up to 4) with all travel and living expenses paid by the manufacturer. The trip shall allow the department's representatives to inspect the apparatus for quality, compliance with the specifications and to make all necessary additions and deletions. The travel and living expenses shall be included in the price of the apparatus. (The Town of Mosheim Fire Department may wave this requirement.)

**DESIGN SPECIFICATIONS**

**1. Personnel Capacities**

To meet the spirit of N.F.P.A. 1500 paragraph 6.3.1, this apparatus has been designed to transport not more than four (4) people.

6.3 Riding in Fire Apparatus

6.3.1 All persons riding in fire apparatus shall be seated and belted securely to the vehicle by seat belts in approved riding positions and at any time the vehicle is in motion. Standing or riding on tailsteps, sidesteps, running boards or in any other exposed position shall be specifically prohibited.

**2. Component Protection**

Hydraulic lines, air system tubing, control cables, and electrical lines shall be clipped to the frame or body structure of the apparatus and shall be furnished with metal protective looms or grommets at each point where they pass through body panel or structural members.

**3. Vehicle Stability**

a. The height of the fully loaded vehicle's center of gravity shall not exceed the chassis manufacturer's maximum limit.

b. The front to rear weight distribution of the fully loaded vehicle as defined by NFPA shall be within the limits set by the chassis manufacturer. The front axle loads shall not be less than the minimum axle loads specified by the chassis manufacturer, under full load and all other loading conditions.

c. The difference in weight on the end of each axle, from side to side, when the vehicle is fully loaded and equipped as defined by NFPA shall not exceed 7 percent (7%).

**INFORMATION TO BE PROVIDED:**

The successful bidder shall supply, at the time of delivery, the following documents:

1. The manufacturer's record of apparatus construction details, including the following information (as applicable):
  - (a) Owner's name and address.
  - (b) Apparatus manufacturer, model, and serial number.
  - (c) Chassis make, model, and serial number.
  - (d) GAWR of front and rear axles.
  - (e) Front tire size and total rated capacity in pounds.
  - (f) Rear tire size and total rated capacity in pounds.
  - (g) Chassis weight distribution in pounds with water and manufacturer mounted equipment.
  - (h) Engine make, model, serial number, number of cylinders, bore, stroke, displacement and compression ratio, rated horsepower and related speed, and no-load governed speed.
  - (i) Type of fuel and fuel tank capacity.
  - (j) Electrical system voltage and alternator output in amps.
  - (k) Battery make and model, capacity in CCA.
  - (l) Transmission make, model, and type.
  - (m) Engine to pump gear ratio and transmission gear ratio used. Paint numbers.
  - (v) Company name and signature of responsible company representative.
2. Written load analysis and results of the electrical system performance tests.
3. Two (2) destination effective wiring diagrams.
4. Copies of electrical and mechanical component manuals for equipment purchased on or with the apparatus.

Bidder Complies	
YES	NO

Bidder Complies	
YES	NO

**STATEMENT OF EXCEPTIONS – CHASSIS SYSTEMS:**

The chassis to be utilized for this apparatus shall incorporate the OEM seat belt system and as such may not be designed to comply with NFPA 1901-2016 Section 14.1.3 regarding seat belt design, seat belt web length, and the color requirements of the seat belts.

The chassis is supplied with an OEM installed seat belt indicator system; however, it will not specifically comply with requirements of NFPA 1901-2016 Section 14.1.3.9.

In addition, the chassis manufacturer will not allow an apparatus manufacturer to access any of the data from its electrical system to comply with NFPA 1901-2016 Sections 4.11 and 14.1.3.9; Vehicle Data Recorder and Seat Belt Indicator System.

Unauthorized access to the chassis electrical system voids all warranties and transfers all liability away from the chassis manufacturer. Due to this restriction, a Vehicle Data Recorder and a Seat Belt Indicator System will not be supplied or installed by the OEM with this vehicle.

We hereby certify by the following signatures that we have read, understand, and accept that upon delivery, the vehicle supplied by the OEM will not specifically comply with NFPA Standard 1901-2009 Sections 4.11, 14.1.3, and 14.1.3.9.

**MANUFACTURER**

**FIRE DEPARTMENT**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Bidder Complies	
YES	NO

**CHASSIS:**

Bidder may submit more than one bid if multiple chassis manufacturers are offered. The chassis is to be heavy duty with a minimum GVWR of 19,500 lbs. The chassis shall be designed to carry the intended weight of the apparatus. Below are three chassis to be considered:

- Ford F550 XLT 4x4 4-Door Crew Cab      Color: Red
- Dodge 5500 4x4 4-Door Crew Cab      Color: Red
- Chevrolet 5500 4x4 4-Door Crew Cab      Color: Red

- Diesel engine
- Automatic transmission
- 60" Cab to Axle
- Chrome Front Bumper
- Power Mirrors
- Polished Step Assist Bars
- Bright Aluminum Wheels Front and Rear
- Custom Center Console
- Power Windows and Door Locks
- Air Conditioning
- Power Mirrors
- Chassis Backup Camera
- Cloth Seats (Bucket seats in front, 2 SCBA seats in rear)
- Integrated brake controller with tow package

**WHEELS:**

The front and rear wheels, including inside duals, if applicable, shall be OEM factory polished wheels. (No simulators, Alcoa type wheels only or similar)

**FUEL TANK:**

The chassis shall incorporate a rear fuel tank installed by the chassis manufacturer. The fill and vent shall be installed behind the left rear wheel. The fill shall be labeled with the type of fuel intended.

**BACK-UP ALARM**

One (1) back-up alarm shall be provided and installed on the apparatus.

The minimum 97db backup alarm shall automatically activate when the apparatus transmission is placed into reverse.

The backup alarm shall exceed all NFPA1901 and SAE J994 Type D requirements and testing.



Bidder Complies	
YES	NO

**HELMET STORAGE:**

To meet the intent of NFPA 14.1.8.4.1, the helmet for each occupant shall be stored in an exterior compartment.

**RUNNING BOARDS**

The running boards shall be constructed of 12-gauge star punched stainless steel material. The material meets NFPA standard 13-7.3: all exterior surfaces have a minimum slip resistance of .68.

**SCBA SEATING**

The rear crew bench seating will be removed and two (2) Bostrom Tanker 400 SCBA seats will be installed with SecureAll retainment system for the bottle. The seats will have integrated red seat belts and color of the seat material to closely match the chassis seats. The extended cab console will be between the two (2) seats.

**BODY:**

The body system shall be a lightweight, corrosion-resistant body designed for emergency service application. The body shall be manufactured of 3/16” extruded aluminum to give the product superior strength and dependability.

An independent custom structural stainless-steel or extruded aluminum sub-frame shall support the body. The sub-frame shall float independent of the chassis frame.

The sub-frame shall be designed for emergency service application by using stainless steel or extruded aluminum structural tubing. It shall provide each compartment with total support to prevent the body from prematurely cracking under the extreme conditions common to the emergency service field.

The Sub-Frame shall be bolted to the chassis frame rails with grade 8, 5/8” U-Bolts incorporating shear plates and rubber (anti-vibration) isolation pads, as necessary.

The entire assembled body shall have an overall length of 11 feet and 0 inches from the front of the body to the rear of the 12” step bumper.

**PAINTED BODY FINISH**

The complete outer surface of the body shall be constructed of 3/16”, 5052 alloy, smooth aluminum plate which shall provide superior quality and strength that will allow for the proper amount of flexion without the possibility of forming cracks.

The outer surface shall receive a high gloss coating of base/clear paint to match the color of the cab and chassis.

The inner surfaces (including compartments) of the body shall be constructed of 3/16”, 5052

alloy, smooth aluminum plate which shall provide superior quality and strength that will allow for the proper amount of flexion without the possibility of forming cracks.

The inner compartment surfaces shall have a spatter coating.

**BODY ROOF CONSTRUCTION**

The outer portions of the apparatus body roof shall be an integral portion of the main apparatus body.

**NFPA COMPLIANT STEPPING SURFACES**

All exterior surfaces designated as stepping, standing, and walking areas shall comply with the required average slip resistance of the current NFPA standards.

These areas shall incorporate grip-strut or embossed diamond plate aluminum.

**FENDERETTES**

An all-aluminum polished fenderette shall be installed around both rear wheel openings.

The fenderettes shall have a neoprene welt installed between the trim and the body and shall be bolted in place for easy removal and replacement.

**WHEEL WELL LINER**

The rear wheel well shall be lined with a sheet of aluminum to prevent damage to the body from road debris.

The liner shall be riveted or bolted in place for easy removal in the event they become damaged.

**REAR STEP BUMPER - 12”**

The tailboard shall be constructed of 1/8” polished embossed aluminum diamond plate.

The tailboard shall be a minimum of 12” deep and run the full width of the body.

The exterior sides shall be flanged down for increased rigidity of tailboard structure.

The height from the ground to the top of the step bumper shall not exceed 24” when fully loaded.

**AGGRESSIVE WALKING SURFACE**

All exterior surfaces designated as stepping, standing, and walking areas shall comply with the required average slip resistance of the current NFPA standards.

Bidder Complies	
Yes	No

These areas shall incorporate grip-strut or embossed diamond plate aluminum.

**MUD FLAPS**

Heavy-duty rubber mud flaps shall be provided behind the rear wheels.

The mud flaps shall be a heavy-duty black rubber type for dual wheel trucks.

The mud flaps shall be bolted in place.

**RUB RAIL**

An aluminum “C” channel rub rail shall be bolted at the bottom of the body, using nylon washers between the metal surfaces, along each side of the body.

The rail shall be approximately 2” tall and extend approximately 1”.

The rail shall extend the entire length of the body except between the wheel openings.

The rail shall be taper cut on each end for appearance.

The rail shall be satin aluminum for a durable finish that resists wear marks.

**RUB RAIL REFLECTIVE PANELS**

There shall be a white reflective stripe applied to the interior flat surface of the apparatus rub rail.

The reflective stripe shall meet all FMVSS and NFPA recommendations.

**NFPA HANDRAILS**

There shall be NFPA compliant handrails provided in all areas that require climbing on the apparatus.

In the event there is telescoping scene light, ladder or folding step installed in the same location(s), these items may be substituted to conserve mounting space on the body.

**DIAMOND TREAD ALUMINUM BODYGUARDS**

There shall be a solid covering of polished diamond tread aluminum in the following locations of the apparatus body:

- Front of Body
- Top of Body
- Rear Body Between Step Bumper and Rear Compartment

Bidder Complies	
Yes	No

**COMPARTMENT LOUVERS**

Louvered panels shall be installed into each into compartment to aid in ventilation.

The louvers shall be turned in such a way to prevent unwanted water from entering the compartments.

**COMPARTMENT CONSTRUCTION**

The compartments shall be constructed of formed and welded 3/16", 5052 formed aluminum plate and shall allow for the proper amount of flexion without the possibility of forming cracks.

All compartment sizes are close approximations and may vary as much as +/- 3" to accommodate certain chassis features and/or department requested options.

**DUAL WALL COMPARTMENTS**

The front and rear lower body compartments shall be constructed with a dual wall for accessing and servicing the electrical system as it is installed on the apparatus.

The removable panels shall be readily accessible and shall be removable with the use of common hand tools.

**COMPARTMENT FLOOR TILES**

As standard equipment each compartment shall have interlocking rubberized tiles cut and installed (on the lowest level) in such a manner to supply a cushion to cargo and protect the floor of the compartment.

The tiles shall be readily removed, without the use of tools, for cleaning.

The color of the tiles shall be black.

**ROLL-UP COMPARTMENT DOORS - SATIN FINISH**

Roll-up compartment doors shall be manufactured and assembled in the United States.

Doors shall be front roll and shall have a satin aluminum finish to provide an even surface that resists wear marks.

There shall be an aluminum drip rail above each compartment door with a non-abrasive seal (or) there shall be a brush seal.

Bidder Complies	
YES	NO

Bidder Complies	
YES	NO

Magnetic door-ajar system must be integrated in lift bar handle and the retainer block to signal open door. No mechanical sensors or switches interior to the compartment shall be used.

Every slat must have interlocking end shoes to prevent slats from moving side to side and binding the door.

Between each slat must be a co-extruded PVC inner seal to prevent metal-to-metal contact and to repel moisture. This inner seal shall not be visible from the exterior to detract from the appearance of the door.

Slats shall have interlocking joints with a folding locking flange to provide security and prevent penetration by sharp objects.

Slats shall be double-wall extrusion 1.366” high by .315” thick. Exterior surfaces are to be flat and interior surface are to be concave to prevent loose equipment from interfering with door operation.

The latch system shall be a one-piece full width aluminum lift bar with a two-point exterior latch. The latch shall be operable by one hand. A 2” wide finger pull will be integrated into the bottom rail extrusion for easy one hand opening and closing of the compartment door.  
**NO EXCEPTIONS**

A clip system shall connect the curtain slats to the operator drum which will allow for easy tension adjustments without the use of tools.

Each roll-up door shall have a four-inch diameter counterbalance operator drum to aid in lifting the door and assist in the prevention of accidental closure.

Compartment lighting system integrated into door track. Compartment lights shall activate individually when door is opened and there shall not be a master compartment light switch.

Door tracks shall be a one-piece aluminum extrusion that has an attaching flange and finishing flange incorporated into its design.

The drip rail will have a specially designed seal that prevents the seal from scratching the door.

Bottom rail to have a “V” shaped sill to prevent water and debris from entering the compartment.

Each door shall have a rubber seal installed at the outside edge to prevent moisture from entering the storage area.

Bottom rail extrusion must have a smooth back to prevent loose equipment from jamming the door.

Bidder Complies	
YES	NO

**COMPARTMENT LIGHTING**

Each body compartment shall be equipped with LED compartment lighting.

The lighting shall be mounted vertically along the side of each door to extend the full height of the compartment.

There shall be one (1) full-height light located in each compartment.

Opening the compartment door shall automatically turn the compartment lighting on.

**LEFT COMPARTMENT - L1**

Immediately behind the cab on the driver side of the body shall be a compartment with the following approximate dimensions:

- 50.5” high x 30.25” wide x 22” deep at the lowest floor.

Floors will be sweep out design. A transverse space shall be installed at the front of the compartment with an extended floor.

The compartment shall be equipped with LED lighting that shall be activated when the door is opened.

The front section of this compartment shall transverse into compartment R1.

**LEFT COMPARTMENT - L2**

Immediately behind **L1** on the driver side of the body, over the rear wheel well, shall be a compartment with the following approximate usable door dimensions:

- 29.5” high x 44” wide x 22” deep at the lowest floor.

Floors will be sweep out design.

The compartment shall be equipped with LED lighting that shall be activated when the door is opened.

Bidder Complies	
YES	NO

**LEFT COMPARTMENT - L3**

Immediately behind compartment **L2** on the driver side of the body shall be a compartment with the following approximate usable door dimensions:

- 50.5” high x 33.75” wide x 22” deep

Floors will be sweep out design.

The compartment shall be equipped with LED lighting that shall be activated when the door is opened.

**RIGHT COMPARTMENT - R1**

Immediately behind the cab on the passenger side of the body shall be a compartment with the following approximate usable door dimensions:

- 50.5” high x 30.25” wide x 22” deep at the lowest floor.

Floors will be sweep out design. A transverse space shall be installed at the front of the compartment with an extended floor.

The compartment shall be equipped with LED lighting that shall be activated when the door is opened.

The front section of this compartment shall transverse into compartment L1.

**RIGHT COMPARTMENT - R2**

Immediately behind **R1** on the passenger side of the body, over the rear wheel well, shall be a compartment with the following approximate usable door dimensions:

- 29.5” high x 44” wide x 22” deep at the lowest floor.

Floors will be sweep out design.

The compartment shall be equipped with LED lighting that shall be activated when the door is opened.

Bidder Complies	
YES	NO

**RIGHT COMPARTMENT - R3**

Immediately behind compartment **R2** on the passenger side of the body shall be a compartment with the following approximate usable door dimensions:

- 50.5” high x 33.75” wide x 22” deep

Floors will be sweep out design.

The compartment shall be equipped with LED lighting that shall be activated when the door is opened.

**REAR COMPARTMENT - B1 - OPEN COMPARTMENT**

Directly behind both compartments **L3** and **R3** on the extreme rear of the vehicle shall be an open compartment of the following approximate dimensions:

- 50” wide x 104” deep x Open Top

This compartment shall be finished painted to match the color of the body.

**COMPARTMENT INTERIOR PAINT - MEDIUM GRAY**

The interior of the equipment compartments shall be painted with medium gray spatter type coating.

The coating shall provide an even appearance that resists wear marks and reflects light evenly inside the compartments.

**ADJUSTABLE SHELF TRACK**

There shall be a set of uni-strut track mounted in each compartment that receives adjustable shelves.

The track shall be vertically installed and shall be installed in the upper section of the compartment(s).

The track system shall provide infinite adjustment throughout the track range to allow proper spacing of the shelves for future installation of department owned equipment. The adjustment shall be quickly and easily performed with common hand tools.

The track shall not be painted and shall retain a natural finish for an even appearance that resists wear marks.



Bidder Complies	
YES	NO

**ADJUSTABLE SHELVES**

There shall be a total of four (5) adjustable shelf pans provided and installed on the finished apparatus. One (1) will be in R2, two (2) will be in L3 and two (2) in R3.

Each shelf shall have a minimum weight capacity of 250 pounds.

The shelves shall be fabricated of 3/16” flat plate aluminum and have a satin aluminum finish for increased durability. The shelves shall have a minimum of a 2” lip on front and rear. Each shelf shall have a minimum weight capacity of 250 pounds.

**PULL OUT SLIDE TRAYS**

A total of two (2) pull out aluminum trays will be installed. One (1) will be in L3, mounted to the floor and one (1) will be in R3, mounted to the floor.

**SWING OUT TOOL BOARD**

In the L2 compartment, an aluminum tool board will be installed. It will have a stainless-steel piano style hinge bolted to the front side and a polished “D” ring latch on the rear side. A friction style latch will be installed to hold the tool board open. This tool board will mount with adjustable depth on the front and back within the compartment.

Also, a 3/16” aluminum sheet with 3/4” spacers will be bolted to the back wall at four (4) points for department tool mounting.

**110 VOLT RECEPTACLES**

Two (2) duplex 110-volt receptacles will be installed in the compartments and hooked up to the inverter/shoreline.

**SCBA BOTTLE COMPARTMENTS**

There will be a total of three (3) SCBA compartments integrated in the wheel wells. One (1) in driver’s side well on the front side. Two (2) will be installed in the passenger’s side well, one (1) in the front side and one (1) in the rear side. The tubes will be 8” in diameter and 23” deep and will have an 1/8” thick rubber mat adhered to the surface where the bottles lay. There will be a hinged aluminum door installed on the face.

**FIRE EXTINGUISHER COMPARTMENT**

There shall be a compartment integrated in the rear of the body and below the pump to accept one (1) 20lb ABC extinguisher and two (2) 2.5-gallon water extinguishers. The door will have stainless steel piano style hinge located on the bottom and will have a polished stainless steel “D” ring latch.

**UPPER COFFIN COMPARTMENTS**

Above the driver’s side compartments, one (1) aluminum sheet compartment will be fabricated and bolted onto the body. The compartment will be 120.00” in length, the width of the driver’s side compartments and 12.00” in height. The top will have a lift door and be hinged outboard. It will have chrome lift handles. The rear door will have stainless steel piano style hinge located on the outboard side and will have a polished stainless steel “D” ring latch. One (1) adjustable aluminum divider will be installed, and LED lights will be installed under the lift up door and will automatically come on when the parking brake is

engaged. This area shall accept a preconnected hose line from the pump.

Above the passenger’s side compartments, one (1) aluminum sheet compartment will be fabricated and bolted onto the body. The compartment will be 120.00” in length, the width of the driver’s side compartments and 12.00” in height. The rear door will have stainless steel piano style hinge located on the outboard side and will have a polished stainless steel “D” ring latch.

A 14’, two section Duo Safety ladder will be supplied and installed in the passenger’s side compartment. One (1) mount incorporating smooth wear strips will be installed for ease of storing and removing the ladder from the compartment. Also, two (2) aluminum 2” tubes will be installed above the ladder to hold pike poles. Tubes will be notched for NY Hook poles.

At the rear of each compartment on top, an aluminum, knurled grab handle with chrome stanchions, will be installed.

**FUEL FILL W/ ACCESS DOOR**

One (1) Cast Products aluminum fuel fill with a hinged access door shall be installed in the left-hand side wheel well rear of the axle. It shall be labeled “Ultra Low Sulfur Diesel Fuel Only.”

**DEISEL EXHAUST FLUID FILL**

The diesel exhaust fluid fill shall be located in between the body and the chassis on the right-hand side. It shall be labeled “Diesel Exhaust Fluid Only.”

**REAR VERTICAL HANDRAILS**

Two (2) vertically mounted handrails will be installed at the rear of the apparatus. The handrails will be constructed of 1.25” diameter extruded aluminum with a knurled finish and attached to the body with chrome stanchions. The handrails will be mounted on each side of the rear compartment.

**INVERTER/CHARGE AND SHORE LINE**

One (1) 2000 watt (minimum) on board inverter/charger will be installed in a compartment. It has an automatic transfer switch when going from shoreline to inverter mode. A Kussmaul super auto eject receptacle with red cover shall be installed on the front of the driver’s side rear wheel well.

**BODY MASTER DISCONNECT SWITCH**

A body master battery switch, to activate the battery system, shall be provided inside the cab within easy reach of the driver.

The switch shall be wired to completely disconnect power between the chassis electrical system and the body electrical system.

There shall be a battery on indicator light located on the switch.

This system shall not interface the chassis electrical system to avoid voiding any of the factory chassis warranties.

Bidder Complies	
Yes	No

**BODY ELECTRICAL SYSTEM**

All 12-volt electrical equipment installed by the apparatus manufacturer shall conform to modern automotive practices.

All wiring shall be high temperature crosslink type.

All exposed wiring shall be run in a loom with a minimum 289 degrees rating or conduit and have grommets where wire passes through sheet metal.

Wiring shall be individually color coded to easily identify its function.

Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture, and automotive fluids.

Electrical wiring and equipment shall be installed utilizing the following guidelines:

- All holes made in the roof shall be caulked with silicon. Rope caulk is not acceptable. Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.
- Electrical components designed to be removed for maintenance shall not be fastened with nuts and bolts. Metal screws shall be used in mounting these devices. Also, a coil of wire should be provided behind the appliance to allow them to be pulled away from the mounting area for inspection and service work.
- Corrosion preventative compound shall be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation (of the plug).
- All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.
- All electrical terminals in exposed areas shall have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches shall be mounted on a separate panel installed in the cab. A master warning light switch and individual switches are to be provided to allow pre-selection of emergency lights. The light switches shall be "rocker" type with an internal indicator light to show when the switch is energized. All switches shall be properly identified and mounted in a removable panel for ease in servicing. Identification of the switches shall be done by either printing or etching on the switch panel. The switches and identification shall be illuminated.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, shall be furnished.

Rear identification lights shall be recessed mounted for protection.

Bidder Complies	
Yes	No

Lights and wiring mounted in the rear bulkheads shall be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

All wiring shall connect at a 12-volt electrical junction box located on the driver's side in the first left side compartment (L-1) in the left wall.

**CUSTOM CENTER CONSOLE**

There shall be a custom fabricated aluminum console provided and installed in the front center of the apparatus cab.

The console shall contain the siren, lighting switches, cup holders, mobile radio, and storage compartment as space allows based on other selected options.

The console shall be finished with a black spatter coating.

The console shall take the place of the center front seat section and be as large as possible to fit in the usable space provided.

**CUSTOM ROCKER SWITCH PANEL**

There shall be a custom designed rocker switch panel provided and installed on the cab center console.

The panel shall be designed specifically to control the operation of this exact truck.

The switch covers shall be color coded and shall illuminate when activated.

A universal switch panel shall not be used.

**OPEN DOOR INDICATOR LIGHT - DOOR AJAR**

An "open door" indicator light shall be provided inside the cab, in clear view of the driver, to warn of an open compartment door.

**EXTERIOR LIGHTING**

Exterior lighting shall meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at time of bid.

Front headlights shall be halogen type and comply with all FMVSS requirements.

Bidder Complies	
Yes	No

Five (5) LED clearance and marker lights shall be installed across the leading edge of the cab if applicable to the chassis size rating.

Bidder Complies	
Yes	No

**REAR FMVSS LIGHTING**

There shall be three (3) LED lights installed as identification lights located at the center rear of the apparatus.

There shall be two (2) LED lights installed at the side rear of the apparatus used as clearance lights located at the rear of the apparatus.

There shall be two (2) LED lights installed on each side at the rear of the apparatus.

There shall be four (4) red reflectors installed as applicable around the body.

**TAIL/STOP/TURN LIGHTING**

There shall be stop/tail/turn/back-up LED lighting provided and installed on the rear of the apparatus as follows:

- Two (2) Whelen, M6 series red LED combination stop/tail lights.
- Two (2) Whelen, M6 series amber LED arrow turn signal lights.
- Two (2) Whelen, M6 series clear LED backup lights.

**LICENSE PLATE LIGHT**

There shall be one (1) license plate mounting platform provided and installed at the rear of the apparatus.

There shall be a white LED light with deflector installed to illuminate the license plate.

**WARNING LIGHTS**

An all new Whelen LED warning light package shall be installed on the finished apparatus.

All flashing lights shall be colored appropriately to match the department’s lighting colors.

All lights shall be flush mounted on the cab and body with chrome trim bezels.

**VISUAL WARNING ZONES**

The apparatus shall be divided into warning zones as recommended by NFPA 1901-2016. The upper and lower zones shall correspond to the apparatus as follows:

- Zone “A”: Front
- Zone “B”: Right Side

- Zone "C": Rear
- Zone "D": Left Side

Bidder Complies	
Yes	No

**VISUAL WARNING MODES**

The use of the apparatus warning lights shall be broken into two separate modes of use.

The permissible colors or combination of colors in each zone for each signaling mode (for fire departments) shall be as follows:

- Calling for Right-of-Way
  - Red-Any Zone
  - Yellow- Any Zone Except A
  - White-Any Zone Except C
  
- Blocking Right-of-Way
  - Red-Any Zone
  - Yellow-Any Zone
  - White-Not Permitted

**VISUAL WARNING MODE SWITCHING**

The ability to switch between warning modes shall be provided on the apparatus.

There shall be a sensor that detects the position of the parking brake and changes modes as follows:

- Parking Brake Engaged: "Blocking Right of Way Mode"
- Parking Brake Not-Engaged: "Calling for Right of Way"

Switching between the two visual warning system modes shall require no action by the operator other than setting the chassis parking brake.

**WARNING LIGHT LENS COVERS - COLOR**

The warning lights on the apparatus shall all have colored lenses with the exception of the cab lightbar which shall remain clear with internally colored lights.

**ZONE A UPPER WARNING LIGHTING - WHELEN JUSTICE**

One (1) Whelen SUPER LED light bar shall be mounted on the top of the cab roof.

The light bar shall be a 56" Whelen NFPA Justice and shall be populated on the front and sides with flashing LED modules.

The front center section shall have white LED lights that shall function only when the parking

brake is released.

**ZONE A LOWER WARNING LIGHTING – FRONT**

Two (2) Whelen M6 series LED red warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

Two (2) red lights shall be mounted in the front grill area.

**ZONE B LOWER WARNING LIGHTING – RIGHT**

Two (2) Whelen TIR6 series 2”x5” SUPER LED warning light shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

One (1) light shall be mounted as low and as far forward on the apparatus cab as possible and one (1) light shall be mounted as low as possible in the rear wheel well area.

**ZONE B UPPER WARNING LIGHTING – RIGHT**

Two (2) Whelen M6 series LED red warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

One (1) light shall be mounted as high and as far forward on the apparatus body as possible and one (1) light shall be mounted as high and as far rearward as possible on the apparatus body.

**ZONE C UPPER WARNING LIGHTING – REAR**

Two (2) Whelen M6 series LED red warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

One (1) light shall be mounted as high as possible on the rear of each side of the apparatus body - Total of two (2) lights.

**ZONE C LOWER WARNING LIGHTING – REAR**

Two (2) Whelen M6 series LED red warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

Bidder Complies	
Yes	No

One (1) light shall be mounted as low as possible on the rear of each side of the apparatus body - Total of two (2) lights.

**ZONE D LOWER WARNING LIGHTING – LEFT**

Two (2) Whelen TIR6 series 2”x5” SUPER LED warning light shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

One (1) light shall be mounted as low and as far forward on the apparatus cab as possible and one (1) light shall be mounted as low as possible in the rear wheel well area.

**ZONE D UPPER WARNING LIGHTING – LEFT**

Two (2) Whelen M6 series LED red warning lights shall be provided and mounted on the apparatus.

A chrome bezel shall be provided around the lights.

One (1) light shall be mounted as high and as far forward on the apparatus body as possible and one (1) light shall be mounted as high and as far rearward as possible on the apparatus body.

**ELECTRONIC SIREN - WHELEN 295**

A Whelen 295 electronic siren shall be provided and installed.

The siren shall be mounted in the cab center console.

The siren shall feature wail, yelp and hyper-yelp with noise canceling microphone provided and installed.

**SIREN SPEAKER**

There shall be one (1) 100-watt siren speaker provided and installed on the finished apparatus.

The speaker shall be mounted behind the front bumper and/or grill area of the apparatus.

**PERIMETER GROUND LIGHTS**

There shall be a total of six (6) LED weatherproof lights provided on the apparatus.

Two (2) lights shall be provided under the side body area, two (2) lights shall be

Bidder Complies	
Yes	No



provided under the pump panel running boards and two (2) lights shall be provided under the rear step bumper to light all areas around the apparatus.

The ground lights shall automatically activate with application of the parking brake.

**SIDE STATIONARY SCENE LIGHTS**

There shall be four (4) Hi Viz GESM surface mount Super-LED gradient scene lights installed, inboard the warning lights. The scene lights will be mounted in a chrome bezel in the following locations:

- Two (2) Left Body
- Two (2) Right Body

The lights shall be switched on in the cab of the apparatus to operate the left or right.

**REAR STATIONARY SCENE LIGHTS**

There shall be two (2) Hi Viz GESMJR surface mount Super-LED gradient scene lights installed just below the upper rear warning lights. The scene lights shall be mounted in a chrome bezel. The lights shall be switched on in the cab of the apparatus and at the pump compartment.

**REAR SCENE LIGHTS – ACTIVATE IN REVERSE**

The rear scene lights will be automatically turned on when the chassis is placed into reverse gear.

**FRONT SCENE LIGHTS**

Two (2) FRC telescoping poles with FRC white Spectra Max LED floodlights, one (1) per side will be installed on the front of the body.

One switch in the cab will light both lights.

**FIREFIGHTING SKID MODULE**

Skid Pump - 250 GPM Minimum Rating

- Diesel engine plumbed to chassis fuel tank.
- Electric Start

Rear Pump Operator’s Control Panel - Behind Tank at Rear of Truck

- Pressure Gauge(s)
- Engine Control Panel - Throttle, Start, Stop
- Exhaust Primer - Push/Pull Control
- LED Pump Area Light

Stainless Steel and High Pressure Reinforced Flex Plumbing

Standard Industrial Valves with Stainless Steel Ball - Quarter Turn Style

Bidder Complies	
Yes	No

Suction Manifold

- 2.5” Tank-To-Pump Suction
- 2.5” NST Rear Suction Inlet with Plug and Chain - Integrated Tank Fill Connection

Discharge Manifold

- 1.5” Discharge plumbed to driver side coffin area
- 1.5” Rear Discharge
- 1.0” Hose Reel Discharge
- 1.0” Tank Refill / Recirculation Discharge

Electric Rewind Booster Hose Reel

- Reel Shall Have 150’ of 1.0” Lightweight Booster Hose
- Reel Mounted on Top of Booster Tank - Rear Deployment
- Weather Resistant Rewind Switches Located at Rear

**WATER TANK - 290 GALLON**

The apparatus shall be equipped with a 290-gallon polypropylene water tank and equipped with a 3.0" overflow pipe.

**WATER TANK FILL TOWER**

A fill tower measuring approximately 10” x 10” square shall be provided on the water tank up to and including 500 gallons total capacity.

**SCOTTY AROUND-THE-PUMP CLASS A FOAM SYSTEM**

The 4071 Foam Eductor/Mixer is a simple “A-theP” unit to educt foam concentrate into hose lines. It is mounted between the discharge and suction side of a pump. For use on portable forestry pumps or fitted permanently to skid units, the 4071 is a simple and effective way for fire departments to add a foam capability to their equipment.

The unit is adjustable, permitting various foam percentages to be inducted depending on the nozzles being used. A 4071 includes the eductor, pressure hose and pick-up hose. A 4071KIT includes the eductor, pressure hose, pick-up hose and two connecting tees: a 1 1/2” and a 2”.

**1" FOAM TANK CONTROL -- CLASS A**

One (1) Class A foam tank shall be plumbed with a 1” valve and corrosion resistant hose from the foam tank to the foam inlet of the foam system. The manually opened valve shall be provided behind the pump panel with a label.

Bidder Complies	
Yes	No

**INTEGRAL CLASS A FOAM TANK -- 10 GALLON**

One (1) ten (10) gallon Class A foam tank shall be installed within the water tank. The non-corrosive foam tank shall meet applicable sections of NFPA standards. The foam concentrate tank shall be provided with sufficient wash partitions so that the maximum dimension perpendicular to the plane of any partition shall not exceed 36 inches. The swash partition(s) shall extend from wall to wall and cover at least 75 percent of the area of the plane of the partition.

The foam concentrate tank shall be provided with a fill tower or expansion compartment having a minimum area of 12 square inches and having a volume of not less than 2 percent of the total tank volume. The fill tower opening shall be protected by a completely sealed air-tight cover. The cover shall be attached to the fill tower by mechanical means. The fill opening shall be designed to incorporate a 1/4-inch removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped directly to the bottom of the tank to minimize aeration without the use of funnels or other special devices.

The foam tank fill tower shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color-coded label or visible permanent marking that reads "FOAM TANK FILL" shall be placed at or near any foam concentrate tank fills opening. A label shall be placed at or near any foam concentrate tank fill opening that specifies the type of foam concentrate the system is designed to use. Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, and a warning message that reads "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."

The foam concentrate tank outlet connection shall be designed and located to prevent aeration of the foam concentrate and shall allow withdrawal of 80 percent of the foam concentrate tank storage capacity under all operating conditions with the vehicle level.

**FOAM TANK DRAIN -- UNDER TANK**

The foam tank shall have one (1) 1" gate valve drain provision installed.

**CLASS A FOAM TANK GAUGE**

One (1) Fire Research TankVision Pro model WLA360-A00 foam tank indicator kit shall be installed at the operator's panel. The kit shall include an electronic indicator module, a pressure sensor, a 10-ft sensor cable and a tank vent. The indicator shall show the volume of Class A foam concentrate in the tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon, and have a distinctive green label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable colored light patterns

Bidder Complies	
Yes	No

to display tank volume, adjustable brightness control levels and a datalink to connect remote indicators. Low foam warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the foam tank near the bottom. No probe shall be placed on the interior of the tank. The wiring shall be weather resistant and have automotive type plug-in connectors. The foam tank vent shall be installed on the foam fill tower.

**LABELS**

Safety, information, data, and instruction labels for apparatus shall be provided and installed at the operator's instrument panel.

The labels shall include rated capacities, pressure ratings, and engine speeds as determined by the certification tests. The no-load governed speed of the engine, as stated by the engine manufacturer, shall also be included.

The labels shall be provided with all information and be attached to the apparatus prior to delivery.

**COLOR CODED PUMP PANEL LABELING AND NAMEPLATES**

Discharge and intake valve controls shall be color coded in compliance with guidelines of applicable sections of NFPA standards.

Innovative Controls permanent type nameplates and instruction panels shall be installed on the pump panel for safe operation of the pumping equipment and controls.

**WATER TANK GAUGE**

One (1) Fire Research TankVision Pro model WLA300-A00 tank indicator kit shall be installed on the pump panel. The kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon material, and have a distinctive blue label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable colored light patterns to display tank volume, adjustable brightness control levels and a datalink to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall be placed on the interior of the tank. The wiring shall be weather resistant and have automotive type plug-in connectors.

Bidder Complies	
Yes	No

Bidder Complies	
Yes	No

**ANTENNA**

One (1) antenna compatible with Fire department radios will be installed on the cab roof centered behind the light bar with the cable run to the console.

**CHOCKS**

One (1) pair of chocks sized appropriately for the apparatus will be supplied and installed. Chocks to be installed under the driver’s side front compartment.

**LETTERING**

**REFLECTIVE BAND**

A 1"-4"-1" reflective white Scotchlite band shall be provided along the front of the vehicle and along the sides of the body.

Also, reflective white Scotchlite shall be fixed to the inside of each cab door.

**CHEVRON STRIPING, REAR**

There shall be alternating chevron striping located on the rear-facing vertical surface of the apparatus. Covered surfaces shall include the exterior rear wall, up onto the rear upper compartment doors, but the rear roll-up door shall not be covered.

The colors shall be red and fluorescent yellow diamond grade.

Each stripe shall be 6.00" in width.

**GOLD LEAF LETTERING-STRIPING AND GRAPHICS**

A complete graphics package consisting of EZ gold leaf lettering striping and emblems will be supplied to match existing Fire Department’s equipment.

**PAYMENT**

There shall be no pre-payment requirement for this apparatus and no performance bond shall be required.

The finished apparatus shall be paid for in full prior to leaving the apparatus manufacturer’s facility.

If dealer-representatives are up-fitting the apparatus with tools and/or equipment after completion at the factory, payment can be broken into two segments to cover the manufacturing process and then the up-fitting that takes place after the apparatus build is complete.

**\*\*\*END SPECIFICATIONS\*\*\*****EXCEPTIONS**

In the column on the original specification mark “yes” or “no” to each bolded category, to signify compliance. If any category is marked “no” an exception page shall be supplied, by the vendor, with the following information:

- 1.The reference page number from the original specification from the Town of Mosheim Fire Department.
- 2.The reference page number from the vendor bid of the non-compliance.
- 3.Category in non-compliance.
- 4.Please provide a detailed description of your alternative options for each exception.

