

Quincy Fire Department  
Quincy, MI

Quincy Fire Department  
Quincy, Michigan

Request for Proposal

Custom Cab Pumper

October 2018

Revised October 22, 2018

Revised October 30, 2018

Revised October 31, 2018 (Release)

**1.0 Background:**

# Quincy Fire Department

## Quincy, MI

The Quincy Fire Protection District, Michigan has convened an apparatus committee to research and procure a new pumper fire apparatus for the Quincy Fire Department. This committee has worked for many months researching concepts that we feel will provide for a pumper that will best serve our department and residents of the Quincy Fire Department protected area. This pumper will replace a 1997 HME with Central States bodywork.

### **2.0 Scope of the Project:**

2.1 The Quincy Fire Department is interested in purchasing an NFPA compliant six (6) person custom cab pumper with a minimum 2,000 gallon per minute fire pump and a minimum 750 gallon (maximum 800 gallon) booster tank. The Quincy Fire Department desires to see which vendors are capable of building an apparatus meeting the technical requirements of the RFP, providing a firm cost and delivery schedule associated for this apparatus. The RFP includes a number of requested options with pricing to be provided for consideration when determining the final configuration for the new pumper. The Quincy Fire Department through the Quincy Fire Department reserves the right to accept or reject any and all bids.

2.2 The acceptance of a manufacturer's proposal and contract is subject to Quincy Fire Department approval and a permissive referendum. The Quincy Fire Department would prefer that any bidders offering a pumper to meet the intent of the RFP would be able to provide a demonstrator or stock unit available for viewing at the BFD location prior to award of a final contract for the vehicle.

2.3 This Request for Proposal (RFP) has been broken down into categories: cab and chassis, body, equipment and optional items. The sections detail specifics set forth for each category.

### **3.0 Proposal Expectations:**

Each bidder is required to submit proposals that include the following information (NO EXCEPTIONS):

3.1 Brief history of company pertaining to designing and building fire apparatus, specifically pumper type units.

3.2 A list of five references of recent customers who have purchased a similar pumper apparatus from the company.

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3.3 Manufacturer's detailed specifications for building the pumper described in this proposal.

3.4 A set of detailed preliminary drawings following the requirements set forth in section 10.0 of the RFP.

3.5 A firm cost to build the pumper as specified in the proposal. This price should be valid for a period of ninety (90) days from the date of submission to the Quincy Fire Department.

3.6 A firm estimate of amount of time in calendar days from signing of contract to delivery of the completed apparatus.

3.7 A Dunn and Bradstreet report to validate the financial stability of the manufacturer.

3.8 The accurate location of complete apparatus construction.

3.9 The bidders number of full time employees.

3.10 A statement of the estimated number of completed fire apparatus sold or delivered in the last 12-month period.

### **4.0 Terms of RFP:**

4.1 Vendor proposals are due back by no later than November 30, 2018 in order to be considered for further action. Within twenty-one days (21) of receipt of all on time proposals, the apparatus committee and Town personnel will review each proposal and consider its accuracy and completeness. The Quincy Fire Department reserves the right to choose to meet with bidder to clarify technical portions of their proposal.

4.2 The Quincy Fire Department will evaluate each manufacturer's proposal for accuracy and adherence to the requirements listed within the RFP. It is not the intent of the Quincy Fire Department to accept any proposal on currently built stock or demonstrator apparatus.

### **5.0 Communications:**

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5.1 The Quincy Fire Department urges vendors to ask questions as needed to prepare a complete and precise proposal. In order to answer all questions in a uniform manner – Questions received on or before November 20, 2018 will receive a response. Written answers will distributed to all potential respondents. Verbal communications are considered non-binding. The principal point of contact for this project is Chief Michael Sherman with contact information listed below; e-mail contact is preferred for all inquiries:

5.1

Township Contact: Chief Michael Sherman  
Phone Number: (517) 639-9065 extension 2539  
E-mail: Msherman@quincy-mi.org

### **6.0 Vehicle Life Cycle and Equality:**

6.1 This apparatus will serve the Quincy Fire Department for a minimum period of twenty five years. Due to the life cycle and expected in service time, as a minimum requirement the apparatus cab, chassis and body should be the respective suppliers' top-of-the-line product as offered by the bidder. Sub-contracting of the apparatus fabrication, supply or painting shall be disclosed by the bidder. Each bidder is encouraged to supply their severe service model components where available.

6.2 The mention of items by brand name and any specific description of same are intended to convey to the bidder's understanding the minimum component quality and reliability that is required. Except where standardization, commonality, maintenance ease or uniqueness is designated by the words "NO EXCEPTIONS", items of equal type, quality, and approximate size which will conform substantially to the standard of excellence established and are of equivalent merit, strength, durability and appearance to perform the required functions are deemed eligible if approved in writing by the Quincy Fire Department. It is not the purpose or intention of these specifications to eliminate any qualified bidder.

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

### **7.0 Delivery:**

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7.1 Each bidder shall state their firm delivery date in calendar days from receipt of order from Quincy. The new pumper shall be delivered during normal business hours to the Quincy Fire Department station. If the manufacturer is delayed in completion of the work by chassis availability, strikes, fire, or by any cause beyond the manufacturer's control, then the time of delivery shall be extended for a period of time equal to the time lost due to such delays, at no cost penalty to the Quincy Fire Department. No such delivery time extension shall be made for delays unless written notice of the delay is provided to the Town within seven (7) days of its commencement.

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

## **8.0 Exceptions and Evaluation of RFP Responses:**

8.1 To insure complete understanding between the bidder and the Quincy Fire Department, each of the specifications listed herein have a space to denote compliance with that specification. All bidders shall indicate by the letter "X" whether their specifications are in compliance (COMPLY or Y) or not (EXCEPTION on N).

8.2 Failure to complete by the letter "X" on the RFP shall be interpreted as non-compliance and the bidder has taken exception. Any exception shall be clearly noted and explained with full written detail in the bidder's specifications on a separate piece of paper. Failure to fully and clearly explain in detail any exception may render the bid informal and be cause for rejection.

8.3 No bid will be accepted from manufacturers who subcontract any portion of the fabrication, construction or finish painting of any portion of the apparatus including the chassis, body, cab and compartments.

8.4 During the RFP evaluation process by the Quincy Fire Department it may be necessary to have each bidder respond to technical questions regarding their proposal. There shall be no obligation on behalf of the Quincy Fire Department to award a contract to any bidder as a result of these questions and any technical information supplied to the Fire Department will be kept confidential and not shared with any other bidder.

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

## **9.0 Bond Requirements:**

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9.1 Each bid shall be accompanied by a bid bond from a bonding company licensed to do business in the State of Michigan or certified check in the amount of ten percent (10%) of the total amount of the bid. Bonds/checks of unsuccessful bidders shall be returned within seven (7) days after award of contract or rejection of all bids. Bond/check of the successful bidder shall be returned within five (5) days after acceptance of a purchase contract.

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

9.2 A performance bond is not required as no money is being supplied in advance of delivery on this new fire apparatus.

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

### **10.0 RFP Required Documentation and Engineering Drawings:**

10.1 Two (2) complete copies of the manufacturer's response to the RFP including all documentation, drawings and certifications shall be submitted. All proposals submitted shall include detailed engineering drawings with a minimum size of 11" x 17" with the following views: left & right side views of cab, chassis and body, top view of entire vehicle and rear view of body.

10.2 The drawing shall indicate the principle dimensions including: overall length, overall height and wheelbase, front bumper to center of front wheel, length and width of body, principle compartment dimensions, actual angle of approach and rear angle of departure. The drawing will become a part of the contract and reviewed at the engineering conference for written approval by the Quincy Fire Department prior to construction of the apparatus.

10.3 Each bidder shall provide a complete weight analysis with the proposal indicating the estimated front and rear axle weights for the loaded vehicle including six (6) personnel, expected hose loads and 2000 pounds of Fire Department supplied equipment together with a full tank of fuel and all bidder supplied equipment as outlined in these specifications. A center of gravity (CG) statement shall also be included in the proposal.

10.4 Each bid proposal shall include an electrical system draw analysis for the completed apparatus as proposed.

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10.5 Each proposal shall include a turning radius report which shall show the wall to wall, curb to curb and bumper to bumper turning radius of the proposed vehicle.

10.6 These specifications shall be incorporated into the final contract between the manufacturer and the Quincy Fire Department. Where there is a conflict between the bidder's proposal and these specifications the Quincy Fire Department specification requirements shall prevail in all areas unless specific exception has been noted and described by the bidder with their submitted proposal.

10.7 All bid packages must be provided in duplicate at the time of the bid opening for evaluation by the Fire Department to include technical data, manufacturer's specifications, blueprints, statements of warranty, Fire Department RFP with exceptions and clarifications noted and other supporting documentation.

10.8 All requested technical documentation must be submitted with the original bid and cannot be supplied at a later date after the bid opening. This shall include the requested certifications, testing documentation, blueprints and statements of warranty.

10.9 During the bid evaluation process by the Fire Department it may be necessary to have each bidder respond to technical questions regarding their proposal. There shall be no obligation on behalf of the Quincy Fire Department to award a contract to any bidder as a result of these questions and any technical information supplied to the Quincy Fire Department and Fire Department officials will be kept confidential and not shared with any other bidder.

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

## **11.0 Terms of Vehicle Acceptance and Payment:**

11.1 The Quincy Fire Department shall accept the vehicle upon delivery of the completed apparatus to the Fire Department station after all discrepancies noted during the final inspection have been successfully completed and repaired.

11.2 In addition all required documentation including a certified weight ticket for the completed apparatus, electrical load analysis, warning light certifications and all manuals including as built wiring diagrams shall be delivered with the apparatus, prior to final acceptance and payment by the Quincy Fire Department.

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11.3 Payment for the apparatus shall be made in full upon delivery and acceptance as defined above. Each bidder shall submit one (1) lump sum price for the apparatus, together with individual prices for the requested alternates, shall be supplied in accordance with these specifications with full payment upon delivery and acceptance as noted above.

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

### **12.0 NFPA 1901 Compliance, Testing and Certification:**

12.1 This unit and all associated equipment must comply with the NFPA 1901 standards for the apparatus type in effect at the time of contract execution. A signed certificate stating compliance shall be provided by the manufacturer. The apparatus shall also be third-party, independently, audit certified for compliance with the current edition of NFPA 1901 standards. The certification shall include all design, production, operational and performance testing of the apparatus.

12.2 The pump and plumbing system shall be tested, approved and certified by an independent third party testing agency at the manufacturer's expense. The test results details shall be forwarded to the Fire Department and copies shall be provided in PDF format at the time of the final inspection.

12.3 The vehicle shall be road tested fully loaded, covering a continuous run of ten (10) miles made under average driving conditions. The apparatus shall show no loss of power or overheating. The transmission, drive shafts, front and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus. The apparatus will be delivered to the Quincy Fire Department driven over the road for proper break in.

12.4 The GAWR and GVWR of the chassis will be adequate to carry the fully equipped apparatus with tanks filled, personnel weight, ground ladders, fire hose, and an equipment allowance of at least 2000 pounds excluding the fixed equipment detailed in these specifications.

12.5 The difference in weight on the end of each axle, from side to side, when the vehicle is fully loaded and equipped will not exceed 7 percent. The completed apparatus when delivered shall be weighted by the Fire Department with a full tank of fuel together with all tools and equipment to verify the in service weight of the apparatus.

12.6 This shall be done prior to final acceptance by the Quincy Fire Department and the



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release of final payment for the completed apparatus.

12.7 In the event the apparatus fails to meet the test requirements of these specifications on the first trials, second trials may be made at the option of the bidder within 30 days of the date of the first trials. Such trials shall be final and conclusive and failure to comply with these requirements shall be cause for rejection. Permission from the manufacturer to keep or store the apparatus in any building owned or occupied by the purchaser or its use by the Quincy Fire Department for inspection and testing during the above specified period shall not constitute acceptance.

**COMPLY\_\_\_\_\_ EXCEPTION\_\_\_\_\_**

### **13.0 Engineering Conference and Final Inspection:**

13.1 The bidder's proposal shall include arrangements for an engineering conference, and final inspection trips to the factory for prior to delivery of the completed apparatus. Specific timing of these trips shall be mutually agreeable between the Fire Department and the manufacturer.

13.2 The engineering conference is expected to be performed by the sales dealership at the Quincy Fire Department town hall or Quincy Fire Department fire station.

**COMPLY\_\_\_\_\_ EXCEPTION\_\_\_\_\_**

13.3 Personnel from the Fire Department during the final inspection will conduct a review of the fully completed apparatus including road, fire pump and operational testing. Any deficiencies noted during this inspection shall be corrected to the full satisfaction of the Quincy Fire Department prior to delivery.

13.4 The manufacturer shall appoint a principal point of contact within the sales and engineering groups who will administer on behalf of the manufacturer all aspects of the contract for the apparatus.

**COMPLY\_\_\_\_\_ EXCEPTION\_\_\_\_\_**

13.5 Any inspection trips or manufacturer location visits by the buyer shall be paid for by the buyer. Bidders do not need to add the cost of buyer trips within these proposal responses.

**COMPLY\_\_\_\_\_ EXCEPTION\_\_\_\_\_**

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## **14.0 Delivery and Training:**

14.1 The Quincy Fire Department and Quincy Fire Department desires to have the completed custom cab pumper apparatus delivered within 330 to 360 calendar days from receipt of order and signed contract. Each bidder shall state their firm delivery date in calendar days from receipt of order from the Quincy Fire Department. If the manufacturer is delayed in completion of the work by engine availability, strikes, fire, or by any cause beyond the manufacturer's control, then the time of delivery shall be extended for a period of time equal to the time lost due to such delays, at no cost penalty to the Town.

14.2 The apparatus to insure proper break in of all components while still under warranty shall be delivered under its own power. The apparatus shall undergo a pre-delivery inspection at a local authorized dealership prior to delivery to the Quincy Fire Department.

14.3 Each bidder shall identify their service and warranty facilities with their proposal to include photos and descriptions of the local service and warranty center that will be responsible for performing work on the apparatus. The number of EVT certified technicians, service trucks and facilities shall be provided for review by the apparatus committee.

14.4 Qualified training technician representing the manufacturer shall coordinate with the Fire Department to provide instruction for personnel in the proper operation, care and maintenance of the apparatus and equipment delivered. The technician shall conduct a complete destination inspection and correct any deficiencies identified during the inspection.

14.5 The sessions shall be planned for two (2) eight hour classes for apparatus operation and one (1) eight hour class for vehicle maintenance. One eight-hour session shall be either a Saturday or Sunday to be determined by the Quincy Fire Department.

14.6 The successful bidder shall be responsible for all costs associated with the delivery training at the Quincy Fire Department headquarters.

**COMPLY\_\_\_\_\_ EXCEPTION\_\_\_\_\_**

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### **15.0 Minimum Warranty Requirements:**

15.1 The entire vehicle shall be the responsibility of the successful bidder. Any component other than the bidder's own is the responsibility of the bidder in regards to settling service and warranty issues.

15.2 The manufacturer shall warranty each new apparatus to be free from defects in materials or workmanship under normal use and service. This warranty shall include the necessary parts and labor to affect any required repairs during the one (1) year warranty period from the date of acceptance by the Quincy Fire Department.

15.3 Chassis frame rails and cross members shall be warranted to be free from structural defects, cracking or deformation of components for the lifetime of the vehicle. For the purpose of the Quincy Fire Department project – "lifetime" is defined as the period that the Quincy Fire Department owns and operates this vehicle.

15.4 Cab and Body Structure, including the body sub frame shall be warranted against structural defects including cracking, deformation of material and corrosion for a period of ten (10) years.

15.5 The finish paint on the cab and body shall be warranted against peeling, cracking and adhesion for a period of seven (7) years, without pro-rating for the entire period.

15.6 Transportation and shipping costs to successfully complete any warranty work on the apparatus shall be the responsibility of the successful manufacturer. Should the apparatus require warranty work which cannot be completed within the Quincy Fire Department the cost for transportation of the apparatus shall be the responsibility of the manufacturer.

15.8 Each manufacturer shall supply specific statements of warranty with their proposal for each of these areas and shall note any specific exclusion due to age, mileage or other terms of use.

15.9 Should the apparatus be out of service for a period of more than seven (7) consecutive days including weekends to perform any warranty service the amount of out of service time will be added to the term of the warranty for the entire apparatus without penalty to the Quincy Fire Department. This requirement is understood to be clear that, if the vehicle is returned to the dealership, manufacturer facility or component manufacturer (example: engine or transmission service shop) for more than a week – the week plus all the "down-time" days will be added to to extension of the warranty drop date.

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15.10 Any component warranty that exceeds the requested warranty time period by the Quincy Fire Department shall be provided at no additional cost.

15.11 Any warranty work conducted on the apparatus shall be documented with a no cost invoice to the Quincy Fire Department outlining the work conducted and any parts that were repaired or replaced. This documentation shall be supplied within seven (7) days of any completed warranty work.

15.12 All associated warranties that the bidder is offering shall be included in the bidder's proposal package. Failure to provide detailed bidding information on a component or subject area will be declared "non-responsive" for the area in the bidding review.

**COMPLY\_\_\_\_\_ EXCEPTION\_\_\_\_\_**

## **16.0 Apparatus Dimensions:**

Based upon the fire station bay space, structural conditions and street development within the first due response area the Quincy Fire Department has established the following minimum and maximum dimensions for the proposed new pumper:

	Minimum	Maximum
Wheelbase:	212 inches	220 inches
Overall Length:	440 inches	460 inches
Overall Height:	110 inches	124 inches
Overall Width of Body:	96 inches	102 inches
Front bumper extension:	18 inches	24 inches
Cab Length:	134 inches	148 inches

**COMPLY\_\_\_\_\_EXCEPTION\_\_\_\_\_**

## **19.0 Cab and Chassis Requirements:**

19.1 Cab general

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The cab shall be a single piece tilt cab, four door with medium raised roof design over crew area capable of seating six (6) personnel. Bidder shall specify the height from the floor to the underside of the ceiling area. Cab length shall be a minimum of 60.00 inches to a maximum of 70.00 inches from the centerline of the front axle to the rear of the cab. Cab shall be constructed of a minimum of .125 inch aluminum sheet to a maximum of .188 inch aluminum sheet with all aluminum sub-structure or all stainless steel with a stainless steel sub-structure and be provided with four (4) barrier style cab doors. A compartment behind the crew door shall be provided on each side. Bidder to specify clear door openings for both front the rear crew cab doors. Each bidder shall detail the make and model of the custom chassis being proposed and provide the principal cab dimensions.

**COMPLY** \_\_\_\_\_ **EXCEPTION** \_\_\_\_\_

## 19.2 Cab Exterior

19.2.1 A stainless steel front bumper shall be provided to include a full width .38 inch thick reinforcement channel located behind the bumper which shall be supported at both ends.

**Y** \_\_\_\_\_ **N** \_\_\_\_\_

19.2.2 Openings in the bumper for dual air horns, Federal Q siren, electronic siren speaker and front suction inlet will be recessed in the face of the bumper unless otherwise noted.

**Y** \_\_\_\_\_ **N** \_\_\_\_\_

19.2.3 Each cab door shall be provided with a full height polished stainless steel serrated handrail with stainless steel scuff plate located behind each rail.

**Y** \_\_\_\_\_ **N** \_\_\_\_\_

19.2.5 Each cab door opening shall be provided with a full height polished stainless steel scuff panel at the door jamb area to protect the painted surface of the cab.

**Y** \_\_\_\_\_ **N** \_\_\_\_\_

19.2.6 Velvac model 2010 or equal door mounted west coast style heated mirrors with convex lens shall be provided with remote control from the cab.

**Y** \_\_\_\_\_ **N** \_\_\_\_\_

19.2.7 All exterior cab running lights shall be LED style. Bidder shall specify manufacturer and model of lighting being provided.

**Y** \_\_\_\_\_ **N** \_\_\_\_\_

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## 19.3 Cab Interior

19.3.1 Drivers seat to be USSC Valor air ride with high back seat cushion. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.2 Officers seat to be USSC Valor SCBA seat with SecurAll bracket. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.3 Two (2) rear facing USSC Valor SCBA fixed seats with SecurAll bracket.  
**Y\_\_\_\_\_N\_\_\_\_\_**

19.3.4 Two (2) inboard forward facing USSC Valor SCBA seats with flip down seat cushions and SecurAll bracket. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.5 Each seat to be equipped with IMMI Reach Ready full length orange color seat belts with extended extra length female hardware.  
**Y\_\_\_\_\_N\_\_\_\_\_**

19.3.6 Each seat to be provided with BLACK color Cordura material with RED color stitching. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.7 Interior of each door to be full height brushed stainless steel with reflective strip and LED amber color flashing light at the lower section. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.8 Cab interior cabinet to be provided forward facing with Amdor shutter door. Cabinet to have basic dimensions of 38.50 inches wide by 60.00 inches of height by 18.00 inches deep. Bidder to provide two adjustable shelves with 0.75" upward lip on the shelf units. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.9 Cab to be provided with front and rear heating and air conditioning with controls at the front dash area and rear seating area. Bidder to provide detailed information on BTU heating and cooling output for the components being offered. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.10 Cab interior to be provided with a minimum of six (6) LED red/white split lens lighting on the cab ceiling area. **Y\_\_\_\_\_N\_\_\_\_\_**

19.3.11 Cab interior to be finished with BLACK color mar resistant paint or Linex type material. **Y\_\_\_\_\_N\_\_\_\_\_**

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19.3.12 All cab windows to be tinted. Cab doors shall have power operated window regulators where the windows shall completely retract into the door panel.

Y\_\_\_\_N\_\_\_\_

19.3.13 Auxiliary grab handles shall be provided on the inside door post for the driver's and officer's positions. Orange color web handholds shall be provided at the lower portion of each cab door strap. Y\_\_\_\_N\_\_\_\_

19.3.14 Bidder shall submit a proposed dashboard and panel layout with their submission.

Y\_\_\_\_N\_\_\_\_

19.3.15 Three (3) roof mounted antenna bases shall be provided with cables run to the underside of the officer's seat for mounting of Fire Department supplied radio equipment. Y\_\_\_\_N\_\_\_\_

19.3.16 All cab step surfaces shall be .188 inch non slip aluminum tread plate. Any exterior step surface shall incorporate a Bustin grating or equal insert. Each step area shall have a protected LED light to illuminate the area. Y\_\_\_\_N\_\_\_\_

19.3.17 Full frontal and side air bags shall be provided in the cab for occupant protection. Y\_\_\_\_N\_\_\_\_

### 19.4 Chassis

19.4.1 Frame to be constructed of 110,000 PSI high strength steel with sufficient cross members for the intended load of the apparatus. Bidder to specify exact frame dimensions, section modulus and RBM for the frame. The frame and cross members shall be warranted for the life time of the vehicle.

19.4.2 Frame is to be either hot-dipped galvanized coated (which does not receive a color coat) or sealed and finish painted truck primary color with an e-coating process prior to attachment of any components Y\_\_\_\_N\_\_\_\_

19.4.3 Front axle to have minimum rating of 18,740 pounds and shall be provided with EX 225 disc brakes, front shock absorbers, oil seals, Alcoa polished aluminum wheels, stainless steel lug nut covers, Goodyear G291 MSA 315/80R22.5 minimum tires, tire pressure monitoring device and leaf spring suspension to match axle capacity. Front axle to be provided with parking brake and guarded control. Tires to be balanced with counteract beads. Y\_\_\_\_N\_\_\_\_

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19.4.4 Rear axle to be a Dana S26-190 have a minimum rating of 27,000 pounds and shall be provided with a rear spring suspension, oil seals, EX225 disc brakes, Alcoa polished aluminum wheels, stainless steel lug nut covers, Goodyear G622 RSD 12R22.5 tires and Crossfire tire pressure monitoring device. Tires to be balanced with counteract beads. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.5 Top speed of vehicle to be a maximum of 65 mph. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.6 Chassis air system shall have a minimum of 5300 cubic inch capacity with one (1) 1200 cubic inch reservoir for reserve capacity. Each tank to have manual drain valve with stainless steel pull cables run to the outside edge of the body. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.7 Air system to have a Wabco 1200 IWT air dryer, wet air tank to be equipped with automatic moisture ejector, all wheel lockup with guarded control shall be provided. Air inlet with quick disconnect shall be provided at the drivers step area. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.8 Chassis to be equipped with ABS, ATC for the rear axle and Roll Stability Control. Bidder to specify manufacturer and model of these components. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.9 Engine to be a minimum 500 horsepower with 1750 lb-ft torque or Quincy Fire Department approval equal. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.10 Engine to be equipped with fuel/water separator with shut off valves on either side of filter. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.11 Engine to be equipped with silicone hoses with constant torque stainless steel clamps, coolant filter, Horton or equal fan clutch and auxiliary pump cooler. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.12 Transmission to be Allison EVS-4500 with push button controls, internal oil cooler and TES-295 fluid. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.13 Drivelines to be Spicer 1810 series equipped with a minimum of three (3) bolt on U shape driveline guards. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.14 Engine to be equipped with Jacobs three speed engine brake with controls and indicator lights. **Y\_\_\_\_\_N\_\_\_\_\_**



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19.4.15 Fuel tank to be a minimum of 65 gallons constructed of stainless steel with stainless steel straps. A stainless steel door provided on the body shall cover both the diesel fuel fill and the 4.5 gallon DEF tank fill. A single stainless steel hinged door shall be provided at the left side rear of the body to cover both the diesel fuel and DEF tank fill tubes. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.16 Chassis exhaust shall terminate ahead of the rear axle on the right side of the body with a straight pipe. Heat shields shall be provided on the exhaust piping. **Y\_\_\_\_\_N\_\_\_\_\_**

19.4.17 Front axle shall be provided with a Ross TAS-85 or equal steering with assist cylinder. **Y\_\_\_\_\_N\_\_\_\_\_**

### 19.5 Chassis Electrical

19.5.1 All chassis wiring shall be protected against damage and shall be covered in a loom and secured with permanently attached clamps. No exposed wiring shall be permitted under the cab, chassis or body. No push on style connectors shall be permitted. Where required access panels shall be provided in the body to cover exposed wiring and electronic controls. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.2 A minimum of four (4) 1150 CCA batteries shall be provided and installed mounted on stainless steel trays. Each battery compartment shall have a stainless steel lift off cover. Suitable provisions shall be provided for battery jumper studs to be located without having to tilt the cab. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.3 A Niehoff 360 amp alternator with external regulator shall be provided. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.4 A Kussmaul Pump Plus 1200 battery charger with chassis air pump and Kussmaul auto eject shall be provided. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.5 A dedicated shore line power supply shall be provided and installed in the cab with power strip. Final location to be determined at engineering conference. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.6 A Fire Research or equal Vehicle Data Recorder and Seat Belt monitoring system shall be provided and installed. **Y\_\_\_\_\_N\_\_\_\_\_**

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19.5.7 An electronic back up alarm shall be provided. Bidder shall provide manufacturer and model of alarm being provided. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.8 All chassis running lights, marker lights, mid-body turn signals shall be LED type, Bidder to provide make and model of each light. The rear body stop, tail, back up lights shall be Whelen M6 LED with rear body mounted Britax cornering lights. All lights shall be provided with a chrome bezel. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.9 Chassis and body shall be either hard wired or a multiplexing electrical system. Please note bidders design in RFP. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.10 Amdor Lumabar or Gortite LED strip lights shall be provided and installed at each cab step area and four (4) locations on each side of the body and rear step areas. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.11 Two (2) Whelen LED flashing lights with buzzer shall be provided and installed in the ceiling of the cab to indicate a cab or compartment door open. One (1) red color LED light shall be for the left side of the cab/body and one (1) amber color LED light shall be for the right and rear of the cab/body. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.12 A color back up camera at the rear body with additional right side camera shall be provided with screen located on the driver's side of the cab. The rear body camera shall be protected from damage with an aluminum tread plate cover. Final location of all components shall be determined at the engineering conference. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.13 Six (6) Streamlite Vulcan hand lights with chargers shall be provided and installed on the apparatus. Final location to be determined at the engineering conference. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.14 All emergency lighting shall be Whelen Super LED or Fire Department approved equal to include the following lighting. **Final location, lens and warning light colors shall be determined at the engineering conference. All pods on the light bars shall be provided with an LED lamp.** **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.15 Three (3) Whelen Edge Ultra Freedom LED cab roof mounted light bars. **Y\_\_\_\_\_N\_\_\_\_\_**

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19.5.16 A minimum of fourteen (14) Whelen M6 series LED alternating flashing warning lights installed as follows: four (4) at the cab front over the headlights in a dual chrome housing, one (1) each side at the front bumper extension, one (1) each side over the front wheel, one (1) each side ahead of the rear axle, two (2) each side at the rear of the body. Each light shall have a chrome flange. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.17 Two (2) Whelen L31HRFN LED beacon lights, one (1) red and one (1) amber shall be provided and installed on the upper portion of the rear body. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.18 Six (6) Whelen model PFP2 Pioneer LED scene lights shall be provided, one (1) each side mounted above the windshield and two (2) each side of the body, one (1) at the front and one (1) at the rear. The body lights shall be enclosed in stainless steel boxes and shall be controlled with three (3) cab rocker switches as well as pump panel controls, one (1) for the cab brow lights and one (1) for each side of the body lights. Exact location of these lights and switches shall be determined at the engineering conference. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.19 Two (2) Whelen model PFP1 Pioneer LED scene lights shall be provided, one (1) each side recess mounted at the rear of the body. These lights shall be controlled through a single cab dashboard rocker switch and a protected weatherproof switch at the rear of the body. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.20 Each enclosed body compartment shall be provided with two (2) full height Amdor Luma Bar or Gortite LED light strips which shall activate when a compartment door is opened. The forward body transverse compartment and ground ladder compartment at the rear of the body shall have several Trucklite 4.00 inch diameter LED lights provided at the ceiling and side walls of the compartment. Final location of these lights shall be determined at the engineering conference.

**Y\_\_\_\_\_N\_\_\_\_\_**

19.5.21 LED lights with individual switches shall be provided inside of the engine compartment. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.22 A Whelen TAM83 45 inch long LED traffic advisor shall be provided at the top rear deck of the apparatus. The light shall be protected if required with controls located in the cab dashboard area. **Y\_\_\_\_\_N\_\_\_\_\_**

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19.5.23 Two (2) LED scene lights shall be provided one (1) each side of the cab. Lights shall be controlled through the door switch on each cab door and with two (2) dashboard rocker switches, one (1) for each light. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.24 Trucklite LED ground lights shall be provided at each underside location to illuminate this area. Bidder shall provide the make and model of the lights being proposed. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.25 A Federal Q-2B mechanical siren recessed into the front bumper with a steering wheel controlled switch and push button on the officer's side dashboard shall be provided. Power for the mechanical siren shall be tied into the master warning light rocker switch. A siren brake button shall be provided on the cab dash area. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.26 A Whelen model 295HFS3 electronic siren with a SA314A speaker shall be provided and installed. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.27 Two (2) Grover Stuttertone air horns shall be recess mouthed in the front bumper with a driver's side Linemaster foot switch and push button on the officer's side dash board shall be provided. **Y\_\_\_\_\_N\_\_\_\_\_**

19.5.28 In addition to the dash mounted speedometer, a second speedometer shall be provided at the officer position. **Y\_\_\_\_\_N\_\_\_\_\_**

### **20.0 Body and Compartments:**

20.1 Apparatus body to be constructed of stainless steel or marine grade aluminum with a preference for Amdor brand PAINTED roll-up (shutter) doors on all full height compartments and 12 – gauge 304 stainless steel or .188 inch aluminum hinged, painted doors on all compartment with a clear door opening of less than 20.00 inches high. Any compartment provided with a roll up door shall be provided with a guard below door roll with an orange color pull strap. The hinged body doors shall be provided with a brushed stainless steel or aluminum inside door pan, stainless steel hinge and Cleveland over center door hardware. **Y\_\_\_\_\_N\_\_\_\_\_**

20.2 The body shall have a minimum of seven (7) enclosed body compartments on the apparatus sides with three (3) on each side and a rear compartment. The design shall utilize all available space on the body to provide enclosed compartment storage as well as sufficient room for the specified ground ladders and components. All compartments shall have sweep out floors and stainless steel floor edge protection. Each bidder shall

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provide the exact compartment dimensions, clear door openings and cubic foot storage space for each body compartment. **Y\_\_\_\_\_N\_\_\_\_\_**

20.3 The following lower compartment arrangement shall be provided for the left and right sides of the body:

L-1/R-1: Full height with full depth left side and narrow depth right side upper storage compartment between the pump module and rear axle. Estimated dimensions should be 41.00 inches wide x 72.00 inches high on each side.

L-2/R-2: Compartment over forward rear wheels, one (1) on each side. Estimated dimensions should be 52.00 inches wide x 33.00 inches high.

L-3/R-3: Full height with full depth left side and upper narrow depth right side compartment rear of rear axle on each side of the body. Estimated dimensions should be 47.50 inches wide x 72.00 inches high.

Rear: Half height compartment full depth in the lower portion and reduced depth in the upper section with ladder notch into the tank. The rear ladder compartment can be separate from the lower rear compartment. Bidders to show their design on the drawings provided with the RFP response package.

**Y\_\_\_\_\_N\_\_\_\_\_**

20.4 The following upper compartment arrangement shall be provided for the left and right sides of the body:

U-1/U-2: Full length (front to rear) of body compartment with two lift up access doors and a rear door for access to hard suction. Estimated dimensions should be 158.00 inches deep x 28.00 inches wide and 18.00 inches from floor to top of access hatch.

**20.5 Compartment Equipment:** The body compartments shall be provided with the following equipment:

20.5.1 Six (6) 500 pound rated On Scene Solutions floor mounted .188 inch aluminum slide trays. Located: Two (2) in L1, One (1) each in R1, L4, R4 and Rear Compartment.

**Y\_\_\_\_\_N\_\_\_\_\_**

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20.5.2 Eight (8) .188 inch aluminum DA finish adjustable shelves with uni-strut hardware. Final locations shall be determined at pre-construction meeting. **Y\_\_\_\_\_N\_\_\_\_\_**

20.5.3 Four (4) compartments shall be provided with Performance Advantage Company Pac Trac tool boards or aluminum panels on the rear and side walls. **Y\_\_\_\_\_N\_\_\_\_\_**

22.5.4 Four (4) SCBA bottle compartments on each side of the body. Compartments shall have PVC bottle tubes with rubber matting equipped with a stainless steel hinged door and flush style lift and turn latch. **Y\_\_\_\_\_N\_\_\_\_\_**

20.6 All horizontal surfaces should be equipped with black color Dri-Deck material. **Y\_\_\_\_\_N\_\_\_\_\_**

20.7 All compartments shall be equipped with ventilation louvers. **Y\_\_\_\_\_N\_\_\_\_\_**

20.8 The apparatus body shall be provided with stainless steel rub rails that are spaced away from the body, fully protecting the roll door lift bar latches. **Y\_\_\_\_\_N\_\_\_\_\_**

20.9 The rear wheel well panel shall be painted and include a full fender inner liner and bolt on stainless steel fender. The rear wheel well panel shall incorporate the diesel and DEF fill door. **Y\_\_\_\_\_N\_\_\_\_\_**

20.10 The rear wheel wells shall have SCBA storage compartments that shall be unpainted or have durable finish and include a full inner liner and bottle valve restraint in the compartment. The wheel well SCBA door panels shall incorporate a mechanical latch for the door. **Y\_\_\_\_\_N\_\_\_\_\_**

20.11 The bidder shall explain in detail the sub-structure and attachment method of the apparatus body to under structure as well as all mountings to the chassis frame. It is expected that the description shall include the type of metals used in the assemblies. **Y\_\_\_\_\_N\_\_\_\_\_**

20.12 Two (2) heavy plate rear tow eyes shall be provided at the rear of the apparatus body, painted truck color red. **Y\_\_\_\_\_N\_\_\_\_\_**

20.13 An 8.00 – 14.00 inch minimum rear bumper fabricated from .188 inch aluminum tread-plate shall be provided and installed. The rear bumper shall fully protect the rear body, hand-rails, running and warning lights. **Y\_\_\_\_\_N\_\_\_\_\_**

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20.14 The hose bed shall be constructed in such a manner that will prevent damage to fire hose. The hose bed shall comply with the current NFPA requirements. The interior of the hose bed shall be free of projections such as nuts, sharp edges or brackets that may damage hose. **Y\_\_\_\_\_N\_\_\_\_\_**

20.15 The hose bed and walls shall be manufactured from stainless steel or aluminum. **Y\_\_\_\_\_N\_\_\_\_\_**

20.16 An aluminum extrusion shall be installed over the rear opening of the hose bed to protect the body from wear. The hose bed bottom shall be fitted with removable slatted, ribbed 6" heavy-duty extruded aluminum floorboards. **Y\_\_\_\_\_N\_\_\_\_\_**

20.17 Two (2) 10 foot x 6.0 inch hard suction hoses will be provided and supplied on the pumper. **Y\_\_\_\_\_N\_\_\_\_\_**

20.18 One (1) gray powder coated aluminum or stainless steel hard suction tray shall be installed in the left side of the apparatus above the side compartments to accommodate the two hard suction. **Y\_\_\_\_\_N\_\_\_\_\_**

20.19 The tray shall be designed to accommodate from three to six-inch hard suction hose in a ten-foot length and employ a design without fasteners or clamps to hold the suction hose in place in the tray. **Y\_\_\_\_\_N\_\_\_\_\_**

20.20 Three (3) adjustable hosebed dividers shall be provided. Each divider shall be fabricated from .250" thick smooth aluminum plate, 5052-H32 alloy. The rear end of each divider shall have a 3" radius corner and shall be sanded and deburred to prevent damage to hose. **Y\_\_\_\_\_N\_\_\_\_\_**

20.21 There shall be two hand hold openings provided. One (1) at the rear in a vertical position and one (1) approximately 24 inches in from the rear in a horizontal position. **Y\_\_\_\_\_N\_\_\_\_\_**

20.22 A red vinyl hose bed cover shall be provided and designed to cover the entire main hose bed area. The cover shall be installed with "stretch cord type" fasteners along each side of the hose bed. A sand filled flap shall be incorporated into the rear edge of the cover. **Y\_\_\_\_\_N\_\_\_\_\_**

20.23 The hose bed cover rear flap shall have a positive locking device to meet the requirements of NFPA. **Y\_\_\_\_\_N\_\_\_\_\_**

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20.24 The hose bed shall accommodate:

Left side – 1200 feet of 5.00 inch supply line  
Middle-left – 700 feet of 2.50 inch supply line  
Middle-right – 500 feet of 2.50 inch supply line  
Right – 500 feet of 1.75 inch attack line

**21.0 Ground Ladders:** The apparatus body shall carry the following bidder supplied aluminum ground ladders, Duo-Safety or Alco-Lite brand. Bidder shall specify the exact model of each ladder being supplied.

21.1 One (1) two-section 26 foot extension ladder.

21.2 One (1) 18 foot roof ladder.

21.3 One (1) 10 foot folding ladder.

21.4 One (1) Little Giant model 17 ladder.

21.5 The ground ladder compartment shall be protected with a door. A positive latching mechanism shall be provided to hold the ground ladders in place.

All ground ladders shall be mounted in the ladder compartment at the rear of the body. The blueprint submitted with the proposal shall clearly show the ground ladder banking arrangement.

Y\_\_\_\_N\_\_\_\_

21.6 A back board and rescue sled compartment shall be located transverse across the aft area of the pump module. A positive latch mechanism shall be provided on each side door.

Y\_\_\_\_N\_\_\_\_

## **23.0 Pump system and booster tank:**

23.1 A Waterous CSU or equal mid-ship mounted pump shall be provided. The pump shall be tested at a minimum of 2,000 gallons per minute. Y\_\_\_\_N\_\_\_\_



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23.2 The booster tank shall carry a minimum 750 gallons and maximum of 1,000 gallons of water and be made of either UV stabilized plastic polymer or fiberglass reinforced polyester resin. **Y\_\_\_\_\_N\_\_\_\_\_**

23.3 Tank level gauges shall be provided at all sides of body, pump panel and cab dash location.  
**Y\_\_\_\_\_N\_\_\_\_\_**

23.4 LED lights shall be provided and installed on the stainless steel pump panels. These lights shall be activating with a switch at the operators panel. **Y\_\_\_\_\_N\_\_\_\_\_**

23.5 The pump module and frame shall be made of stainless steel. The exterior panels shall be 12 – gauge type 304 stainless steel with a #4 pump panel grade finish or covered with Linex. Framing shall come off of the module to support the running boards. The running boards shall be provided with Bustin non-slide inserts or Quincy approved equal stepping surface. The center of the running board shall have a hose through with a cover. The upper instrument panel and curb side discharge panel shall be side hinged to permit easy access to the inner pump mounting area. **Y\_\_\_\_\_N\_\_\_\_\_**

23.6 A discharge manifold of stainless steel shall be provided and installed for discharges that do not come off of the pump casting. The pump module and non-pump mounting plumbing shall be stainless steel. Victaulic connectors shall be provided to permit rapid and easy removal of plumbing piping and valves. **Y\_\_\_\_\_N\_\_\_\_\_**

23.7 Offered gauges and control locations shall be explained in detail by the bidder responding to the RFP. Bidders are expected to comply with NFPA 1901 pump system descriptions and components for valves, drains, control system, relief valves, screens and caps. **Y\_\_\_\_\_N\_\_\_\_\_**

23.8 The primer shall be a Trident air system or equal. Bidders are to identify the type of primer supplied. **Y\_\_\_\_\_N\_\_\_\_\_**

23.9 A deck gun discharge or monitor is required and specified for this RFP.  
**Y\_\_\_\_\_N\_\_\_\_\_**

23.10 The rear body shall be provided with one 2.50 inch rear body tank inlet equipped with a 5.00 inch storz adapter with integral 2.50 inch NST thread adapter, cap and chain.  
**Y\_\_\_\_\_N\_\_\_\_\_**

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23.11 All pump system controls shall be manually driven where possible and shall be capable of operating in all temperature ranges. **Y\_\_\_\_\_N\_\_\_\_\_**

23.12 The inlets shall be located as follow:

Main steamer (6.00 inch) connections located one each side.

Front bumper inlet (5.00 inch) shall be located on the curb side of the apparatus and have a stowage bin for hose.

Auxiliary (2.50 inch) inlet at operator's position.

**Y\_\_\_\_\_N\_\_\_\_\_**

23.13 Discharges shall be module located and provided as follows:

One (1) 2.50 inch discharge shall be provided on the left side panel area.

One (1) right side 2.50 inch.

One (1) right side 3.00 inch.

**Y\_\_\_\_\_N\_\_\_\_\_**

23.14 Discharge shall be provided around the vehicle as follows:

One (1) 3.00 inch discharge located at left side rear of body.

Two (2) 2.50 inch discharges located at the rear center and right side rear of the body.

**Y\_\_\_\_\_N\_\_\_\_\_**

23.15 A storage area for customer supplied air bags and a customer supplied rescue sled shall be provided above the pup module will positive latching door access from both street and curb side positions. The storage areas shall have ample compartment lighting and be properly designed to permit efficient removal of customer supplied equipment.

**Y\_\_\_\_\_N\_\_\_\_\_**

23.16 One (1) 3.00 inch deck gun discharge shall be provided and mounted in upper dunnage area center of pump module.

**Y\_\_\_\_\_N\_\_\_\_\_**

23.17 One (1) Elkhart Sting Ray model 8390-A shall be mounted on the deck gun riser.

**Y\_\_\_\_\_N\_\_\_\_\_**

23.18 One (1) 18.00 inch Task Force Tips Model XG18 Extend-A-Gun extension shall be provided and mounted.

**Y\_\_\_\_\_N\_\_\_\_\_**

23.19 Aluminum tread plate cover shall be provided over dunnage area and deck gun assembly.

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Y\_\_\_\_N\_\_\_\_

## **24.0 Painting, Lettering and Striping:**

24.1 The cab shall be painted in a two color configuration with the apparatus body painted a two color design as well. The paint shall be warranted for a minimum of seven (7) years with a non pro-rated, non-exclusionary warranty by the bidder. Fire department shall provide paint numbers prior to the engineering conference. Manufacturer shall provide paint chip samples for written approval by the Quincy Fire Department. Black upper color with deep red lower color.

Y\_\_\_\_N\_\_\_\_

24.2 The chassis frame assembly shall be finish painted black color before the installation of the cab and body, and before installation of the engine, drive shafts and transmission assembly, air brake lines, electrical wire harnesses, etc. Components that are included with the chassis frame assembly that shall be painted job color are frame rails, cross members, axles, suspension, steering gear, fuel tank, body substructure supports, miscellaneous mounting brackets, etc.

Y\_\_\_\_N\_\_\_\_

24.3 Corrosion mitigation is critical for this apparatus. All components mounted under the apparatus body shall be coated with a sealant or corrosion protection coating. Any mounts, brackets, trim pieces or support assemblies shall be manufactured in the most resistant material possible for the application. Components should be painted, coated and protected. The entire cab under-surface and body under-surface shall be fully coated with a customer approved protective product.

Y\_\_\_\_N\_\_\_\_

## **24.3 Vehicle Lettering and Striping:**

The following letters shall be provided on the completed apparatus:

24.3.1 Genuine 23K gold leaf lettering shall be applied to a vinyl appliqué with clear vinyl overlay protection. The lettering shall match existing Quincy Fire Department apparatus. Each letter shall have a drop shadow and outline. Lettering to match font and style of existing equipment. Y\_\_\_\_N\_\_\_\_

24.3.5 Gold leaf stripe provided at cab paint break line and along each body side.

Y\_\_\_\_N\_\_\_\_

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24.3.6 There shall be alternating 6.00 inch wide chevron striping located on the rear-facing vertical surface of the apparatus. The entire rear of the body shall be covered with chevron striping. The colors shall be red and fluorescent yellow green diamond grade.

Y\_\_\_\_N\_\_\_\_

24.3.7 The apparatus cab and body shall be provided with a six inch white reflective stripe with top and bottom black pin stripe border. Final configuration and layout of stripe on cab and body shall be determined at the engineering conference.

Y\_\_\_\_N\_\_\_\_

24.3.8 All slide trays and tool boards that extend beyond the body shall be provided with red/white reflective stripes.

Y\_\_\_\_N\_\_\_\_

24.3.9 The interior of all body compartments including trays and shelves shall be protected with gray color splatter paint if not offered in stainless steel or aluminum.

Y\_\_\_\_N\_\_\_\_

24.3.10 A cartoon character shall be supplied to the manufacturer to be made into cab side emblems. Y\_\_\_\_N\_\_\_\_

### **25.0 Equipment:**

25.1 Each bidder shall include with their proposal an amount of \$20,000 dollars for tool and equipment mounting within the body compartments. Brackets to retain equipment shall be Performance Advantage Company and custom built aluminum or stainless steel brackets where required. All tool and equipment mounting will be reviewed and approved by the Quincy New Apparatus Committee.

Y\_\_\_\_N\_\_\_\_

25.2 Two (2) Fire Hooks Unlimited 30 inch Pro Bars shall be provided and installed on the apparatus. Y\_\_\_\_N\_\_\_\_

25.3 Three (3) fire extinguishers shall be provided and installed in the compartments to include a non-marring NFPA approved bracket similar to a PAC Extenda-Mount for each extinguisher. The extinguishers shall include the following: 2.50 gallon pressurized water can, 15# CO2 and a 20# ABC extinguisher. Y\_\_\_\_N\_\_\_\_

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25.4 One (1) combination hydrant wrench/storz spanner wrench sets shall be provided with the completed apparatus. **Y\_\_\_\_\_N\_\_\_\_\_**

25.5 Five (5) fluorescent traffic cones with 2.00 inch and 6.00 inch wide reflective stripes. **Y\_\_\_\_\_N\_\_\_\_\_**

25.5 Two (2) wheel chocks of the proper size for the specified tires shall be provided with the completed apparatus. **Y\_\_\_\_\_N\_\_\_\_\_**

25.6 Six (6) helmet holders shall be shipped loose. **Y\_\_\_\_\_N\_\_\_\_\_**

## **26.0 Manuals:**

26.1 Two (2) AS BUILT copies of all operator, service, and parts manuals shall be supplied at the time of delivery of each apparatus as follows. The manuals shall be provided in both hard copy and CD's for all components. The manuals shall include the following information:

Operating instructions, descriptions, specifications, and ratings of the cab, chassis, body, installed components, and auxiliary systems, warnings and cautions pertaining to the operation and maintenance of the fire apparatus and fire-fighting systems.  
**Y\_\_\_\_\_N\_\_\_\_\_**

26.2 Two (2) complete sets of engine service manuals. **Y\_\_\_\_\_N\_\_\_\_\_**

26.3 Two (2) complete sets of transmission service manuals. **Y\_\_\_\_\_N\_\_\_\_\_**

26.4 Two (2) complete sets of chassis maintenance manuals. **Y\_\_\_\_\_N\_\_\_\_\_**

26.5 Two (2) complete sets of installed electrical system component manuals.  
**Y\_\_\_\_\_N\_\_\_\_\_**

26.6 Two (2) operator's instruction manuals for the vehicle chassis. **Y\_\_\_\_\_N\_\_\_\_\_**

26.7 Two (2) sets of manuals for all other additional equipment or options installed on the vehicle.  
**Y\_\_\_\_\_N\_\_\_\_\_**

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## 27.0 Options:

27.1 Bidder may provide an alternate diesel engine rated at a minimum of 500 HP with 1,750 foot pounds of torque. **Y\_\_\_\_\_N\_\_\_\_\_**

**Cost:** \_\_\_\_\_

27.2 Bidder is asked to quote a Backstop™ rear rubber bumper sensor with LED trim strips. **Y\_\_\_\_\_N\_\_\_\_\_**

**Cost:** \_\_\_\_\_

27.3 Bidder is asked to quote a Rosco™ Dual Vision XC3 camera system with side and rear mounted STSC109B look-down cameras. **Y\_\_\_\_\_N\_\_\_\_\_**

**Cost:** \_\_\_\_\_

27.4 Bidder may provide a headset and microphone system for all seating positions. A panel mounted headset should also be included in this option set. David Clark or equal. **Y\_\_\_\_\_N\_\_\_\_\_**

**Cost:** \_\_\_\_\_

27.5 Bidder is asked to quote a independent front suspension system (IFS) to replace the spring front suspension system if available through the bidder. **Y\_\_\_\_\_N\_\_\_\_\_**

**Cost:** \_\_\_\_\_

27.6 Bidder is asked to quote a ladder rack system for the exterior extension ladders if available. **Y\_\_\_\_\_N\_\_\_\_\_**

**Cost:** \_\_\_\_\_

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