

Request for Bid Specification Proposals

1. BID SPECIFICATION PROPOSALS for:

FIRE DEPARTMENT

PLATFORM AERIAL APPARATUS

FOR BEDFORD TOWNSHIP, MONROE COUNTY, MICHIGAN

Proposals to be received by Bedford Township, Attn: Trudy L. Hershberger, Clerk, 8100 Jackman Road, Temperance, MI 48182 until

2:00 P.M., LOCAL TIME
FRIDAY, OCTOBER 20, 2017

and will be publicly opened sometime thereafter.

2. The Specification sheet for the platform aerial apparatus is on file at the Bedford Township Clerk's Office, 8100 Jackman Road, Temperance, MI 48182. A copy may be requested by contacting the Clerk's Dept. at the Township Hall by mail or (734) 224-7323.

Bedford Township, Michigan reserves the right to reject any or all Bid Specification Proposals.

By Order of Bedford Township, Michigan

Trudy L. Hershberger, Twp. Clerk

Intent of Request for Bid Specification Proposals

The Bedford Township Fire Department is seeking bid specifications to cover the furnishing and delivery of a fire apparatus meeting the general requirements for a platform aerial apparatus as outlined in this document. **This request is for specifications only, do not include pricing at this time.** Specifications will be reviewed and any requested changes will be sent to potential bidders. At that time, formal bid requests will be solicited based on the specifications.

This document is intended to provide general requirements for the type of apparatus desired, bidders shall provide a complete set of specifications for review. Submitted proposals including specifications shall be reviewed and rated based on their ability to meet the general requirements set forth by this document. Proposals will be evaluated based on design features which represent the best possible design for the intended apparatus use.

No design professional or specific manufacturer was utilized in developing this document to allow considerable flexibility for bidders. Bidders are encouraged to list on a separate page of the proposal design features or proprietary components they believe differentiate their proposal from other manufacturers.

The intent of this process is not meant to favor a specific manufacturer. The broad scope of this proposal is designed so that exceptions to the bid are virtually unnecessary. In the event a manufacturer cannot meet the requirement of the proposal, exceptions shall be accepted provided they meet the intent of the proposal. Exceptions must be listed on a separate page of the proposal.

PROPOSALS TAKING TOTAL EXCEPTION TO THESE SPECIFICATIONS WILL BE IMMEDIATELY REJECTED. BIDDERS THAT TAKE NO EXCEPTIONS SHALL BE REQUIRED TO MEET EVERY REQUIREMENT TO THE FULLEST EXTENT SHOULD THEIR PROPOSAL AND BID BE ACCEPTED.

Timely Proposal

It is the bidder's responsibility to provide both the proposal, a completed set of specifications, and a separated bid sheet including pricing and any suggested upgrades. Late proposals, facsimiles, e-mails, telegram, or telephone bids shall not be considered.

Purchaser's Obligations

The purchaser reserves the right to accept or reject any or all bids on such basis as the purchaser deems to be in its best interest. All bidders shall be advised that the purchaser is not bound in any manner to automatically accept the lowest bid.

Drawings

A total of six (6) packets of 11" x 17" drawings, each packet complete with a single view drawing for each side of the apparatus shall be supplied

- All drawings shall be drawn and printed to an appropriate scale to maximize the size of the apparatus on each 11" x 17" sheet of paper.
- Compartment door opening dimensions shall be shown in each compartment. Drawings shall be five (5) views. (left, right, front, rear, top) with the exception of chassis that are not always available as AutoCAD drawings
- Rear plumbing, such as 2-1/2" discharges, rear steamers, and direct tank fills, shall be shown
- Ladders shall be labeled with a letter designation referring to the table for an explanation of the ladder type
- OAL (overall length) in feet and inches - Estimated length shall be rounded up to the nearest inch
- OAH (overall height) in feet and inches - Estimated height shall be rounded up to the nearest inch
- Body dimensions shown - pump house width and front of the body to centerline of the rear axle
- Wheelbase in inches
- Submit weight report with specification package.
- Turning clearance radius report with specifications.
- Water tank outline
- Foam tank(s) fill towers
- Exterior mounted hard suction hose
- Warning lights • D.O.T. lights
- Generator outline
- No front bumper layout Roll up doors will be shown in open position. Lap doors will be shown in the closed position
- Compartment depth break over measurement. The measurement where the compartment switches from full depth to shallow depth
- Angle of approach and departure

- Top view of chassis • Chassis model
- Water tank capacity
- Foam tank capacity
- Hose bed capacity in cubic feet
- Total compartment cubic feet
- Drawing box is to read "BID" and utilize the bid number

Text Block Items

- Chassis model
- Water tank capacity
- Foam tank capacity
- Hose bed capacity in cubic feet
- Total compartment cubic feet
- Drawing box is to read "BID" and utilize the bid number

Specialization

Due to the complexity of the apparatus proposed, it is the desire of the purchaser to obtain equipment that is built by companies that specialize in the construction of NFPA 1901 compliant aerial devices.

No prototype devices or aerials without a proven field record shall be acceptable. The aerial device provided shall be of the highest quality available in the industry.

Safety Requirements

It is required that the bidder shall meet all State and Federal safety standards and laws that are in effect on the date of the bid for the item(s) that are being specified and the particular use for which they are meant. The proposal shall meet all requirements for safety set forth by the National Fire Protection Association.

Acquaintance with Proposal Request

It is the responsibility of the bidder to review all of the bidding requirements. Failure of a bidder to be acquainted with this information shall not relieve them from any obligations.

Quality and Workmanship

The design of the apparatus shall embody the latest approved automotive engineering practices. Experimental designs and methods shall not be acceptable.

The workmanship shall be of the highest quality in its respective field. Special consideration shall be given to the following points: accessibility of the various units that require periodic maintenance, ease of operation (including both pumping and driving), and symmetrical proportions.

Construction shall be rugged and ample safety factors shall be provided to carry loads as specified.

General Construction

The complete apparatus, assemblies, sub-assemblies, component parts, and so on, shall be designed and constructed with due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subjected when placed in service.

All parts of the apparatus shall be strong enough to withstand the general service under full load. The apparatus shall be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

The apparatus shall be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between the front and rear axles, and side to side loading that all specified equipment, including a full complement of specified ground ladders, full water tank, loose equipment, and firefighters; shall be carried without overloading or damaging the apparatus as per requirements defined in NFPA 1901.

The main apparatus body structure shall have an approximate width of 100" in order to maximize the enclosed compartment space of the apparatus. The 100" wide measurement represents the main body structure measured from the bottom, outermost rear corners of the apparatus body structure. Components affixed or fastened to the apparatus will increase the body width proportionately.

Liability

The bidder, if their bid is accepted, shall defend any and all suits and assume all liability for the use of any patented process, device or article forming a part of the apparatus or any appliance furnished under the contract.

Warranty

A copy of the warranties for the chassis, pump, body, paint, water tank, aerial device, waterway, and waterway seals shall be furnished with each bidder's proposal.

Information Required Upon Delivery

The manufacturer shall supply at the time of delivery at least two copies of a complete operation and maintenance manual covering the completed aerial device as delivered. Parts manuals, where possible, shall be cross referenced so as to show the actual manufacturer's name, part number and description on all outside purchased parts and fittings that are commercially available.

Design/Construction/Testing Criteria

The following criteria shall be applicable to this specification to the extent specified

- NFPA 1901
- American Society for Testing and Materials (ATSM A-36)
- Society of Automotive Engineers, Inc. (SAE) "SAE Handbook"
- American Welding Society (AWS) AWSO 14.4-77
- American Welding Society (AWS) D1.1 and D1.2.
- American Society of Non-Destructive Testing (ASNT) "ASNT CP-189"

The aerial ladder shall be designed, fabricated, and tested in accordance with the above codes and specifications, as well as all other applicable codes, standards, and specifications that may be referenced by any of the above.

Road Ability

The apparatus, when fully equipped and loaded, shall be capable of the following performance while on dry paved roads that are in good condition:

- Accelerating from 0 to 35 mph (55km/hr) within 25 seconds on a 0 percent grade.
- Attaining a speed of 50 mph (80 km/hr) on 0 percent grade.

- Maintaining a speed of at least 20 mph (32 km/hr) on any grade up to and including 6 percent.
- The maximum top speed of the apparatus shall not exceed the tire manufacturer's maximum speed rating for the tires installed on the apparatus.

Awarding of Contract

All bids submitted shall be good for a minimum of 60 days during. Criteria for the award shall include, but not be limited to, the following:

- Apparatus Performance and Safety Levels / Considerations
- Completeness of proposal
- Accuracy of accompanying data
- Past performance of bidder
- Compliance with the requirements of this proposal.
- Compliance with purchaser's request(s) for personnel qualifications or certifications
- Exceptions and clarifications
- Financial stability of bidder
- Local representation of the manufacturer
- Serviceability of the proposed apparatus
- Service capabilities of the bidder's local representative
- Compliance with NFPA 1901
- Any other factor the purchaser deems relevant

NFPA 1901-2016

The National Fire Protection Association "Standard for Automotive Fire Apparatus", 2016 edition, is hereby adopted and made a part of these specifications, the same as if it were written out in full detail, with the exception of the section dealing with "Equipment Recommended for Various Types of Apparatus". Bidders shall provide the equipment requested herein and the buyer shall supply the rest before the apparatus is put into service. It is the intent of the purchaser to purchase an apparatus that meets 100% of the minimum standards defined and outlined in NFPA 1901-2016 edition. There are to be

no exceptions to this requirement. Tools, equipment, and appliances can be excluded from the bid as they will be solicited separately.

INSPECTION CERTIFICATE - NFPA 1901 COMPLIANCE

An OEM inspection certificate for the apparatus shall be furnished upon delivery. The purpose of this NFPA 1901 compliance inspection shall be to serve as proof to the customer that all applicable standards have been met or exceeded by the responsible manufacturer.

The following objectives shall be achieved as a result (this listing shall not be construed as being all inclusive):

- Ensure that understanding of all party's respective responsibilities have been addressed by the actual referencing of NFPA 1901 and the amendments in these specifications and the purchase contract and documentation.
- Ensure that only structural materials complying with appropriate standards and codes are used for construction.
- Ensure that applicable standards of design and manufacturing have been met or exceeded.
- Ensure that safety factors have been met or exceeded where required.
- Ensure that applicable standards for testing and inspection have been met or exceeded by personnel with the appropriate qualifications, experience, and certifications.
- Ensure that where applicable components, equipment, and loose equipment carry the appropriate characteristics, classifications, and/or certifications.
- Ensure that in general and as a whole, all applicable requirements set forth in NFPA 1901, and those codes, standards, and specifications referenced by said parties are met, exceeded, and/or addressed.

General Requirements

The apparatus shall meet or exceed the requirements set forth in Chapter 9: Quint Fire Apparatus (NFPA 1901-2016). The apparatus shall have cabinet space and mounting features capable to carry the

equipment specified in this chapter, though equipment, hose, ladders, etc... will not be included in the bid unless specified in this document.

General Design Features

- Rear Mount Quint Apparatus with Minimum 100' Aerial Platform
- Minimum 18 square ft inside working area in platform
- Minimum 400 gallon Tank Capacity
- Minimum 20 gallon Foam Tank Capacity
- "Raised Roof" Design
- 5 Seated Positions, Officer Seat and Rear Seats with SCBA Brackets.
- Officer Seat Speedometer and Emergency Air Brake
- Water Level Indicator in cab of vehicle.
- Cabinet(s) Located in Crew Cab for EMS Equipment.
- Two Tone Red/Black Paint Scheme Matching BTFD Apparatus
- Federal Q2B Siren
- Front Bumper Compartment Suitable in Size for Spreader, Cutter, and Hydraulic Line.
- LED Lighting/Scene Lighting
- Rearview Camera System
- Waterous 2000 GPM Pump
- Minimum 6" Steamer Intake on driver and passenger side.
- Single Foam System
- Minimum 6 Kw PTO generator
- 1- 120 Volt Power Strip in Crewcab, 1-120 volt Power Source in Driver Side Compartment, 1-120 volt Power Source in Passenger Side Compartment.
- Three stacked crosslays with 2- 200' 1 3/4" crosslays (foam) and 1- 200' 2 1/2" crosslay.
- Aerial Breathing Air System Compatible with Scott Brand SCBA, 1 bottle supply system.
- Aerial Master Stream to include TFT automatic master stream electric nozzle and electric pattern control as well as TFT stacked tip.
- Include platform load rating capabilities, both dry and wet. Include flow restrictions for platform. Include platform working limitations for submitted specifications.
- 2 1/2" Discharge at tip of aerial ladder.

- 1 ½" Preconnect located on platform with capacity for 10' 1 ¾" hose and nozzle (hose and nozzle not included).
- Lap Doors
- Steel Wheels with Michelin Tires
- On-Board Headset System Included
- Describe options available for protection of the following:
 - Frame/Cross-members
 - Torque Box
 - Stabilizers
 - Body Sub-structure
 - Fuel Tank/ Straps