

GODFREY FIRE PROTECTION DISTRICT

RESCUE ENGINE REQUIREMENTS/ SPECIFICATIONS

2018

REV. F

BID SOLICITATION NOTICE

Pursuant to 70 ILCS 705/11k, the Godfrey Fire Protection District is soliciting sealed, competitive bids for: **Rescue Engine Fire Apparatus**

Solicitation Notice and Specification Requirements are posted at **www.godfreyfire.com** or may be obtained by contacting Fire Chief Erik Kambarian at 618-466-0131 Extension 2 or godfreyfirechief@gmail.com;

Any clarifications, modifications, or responses to inquiries or questions concerning the solicitation or requirements will **only be posted on the District's website and bidders will be responsible for compliance with same**

Deadline for bid submission to District: **Monday, November 26th, 2018 at**

12:00pm

Bids are to be submitted to the District at: **Godfrey Fire Protection District, PO Box F, Godfrey, IL 62035 by U.S. Mail or to Godfrey Fire Protection District, 6011 Godfrey Road, Godfrey, Illinois 62035 by personal or other non-postal forms of delivery**

Bids are to be delivered by mail or personal delivery to the foregoing address and are to be clearly marked "**Rescue Engine Bid**" on the outside of the envelope.

Bids will be publicly opened at a meeting of the Board of Trustees to be held on: **Monday November 26th at 7:00pm at the Liberty Bank Community Room, 3112 Godfrey Road, Godfrey, IL 62035.**

BID PROCEDURES AND EVALUATION

Late or incomplete bids will not be accepted or eligible for consideration.

In addition to compliance with the written requirements bids must provide pricing and terms of payment, any proposed form of contract, the brand/manufacturer of the product and each component, material characteristics, warranties, technical specifications, and proposed delivery date and terms of delivery. Unless otherwise stated in separate written requirements or agreed by the District, delivery is to be FOB Godfrey, Illinois. The bid shall include all financial terms applicable to the purchase of the apparatus such as down payment, progress payments and escalator clauses on bid prices. No bid will be accepted that does not disclose the **complete** financial terms of the bid.

Following the opening of bids, an award may be made, or bids may be referred to the Fire Department for review with any bid award to be made subsequently.

All bids must remain valid for not less than 60 days from the bid opening.

Any exceptions taken to any of the District's requirements must be separately identified and the basis for the exception must be provided with the bid.

Any proposed alternate to any of the District's requirements must be clearly identified and an explanation of equivalence as to the alternate must be provided with the bid.

The District reserves the right to require demonstration of the equipment for which a bid is submitted as part of the bid evaluation process following bid opening.

In addition to compliance with District's requirements as stated below, bids will also be evaluated based on the following factors: additional features of the apparatus which are not required by the District's requirements, but which the District determines provide added value and utility to the apparatus; the bidder's experience and reputation in the industry and with the District; the bidder's capability to produce the apparatus and to do so within the time frame represented in the bid; the delivery time for the apparatus; the proposed contract terms presented by the bidder; the warranty terms presented by the bidder; the compatibility of the apparatus with District's existing apparatus, equipment, and facilities; the capability of the bidder to provide service for the apparatus following delivery; time allowed for inspection and acceptance following or at the time of delivery.

INTENT OF SPECIFICATIONS

It shall be the intent of these specifications to provide a complete apparatus equipped as hereinafter specified. With a view to obtaining the best results and the most acceptable apparatus for service in the Godfrey Fire Protection District (hereinafter referred to as the District), these specifications cover only the general requirements as to the type of construction and tests to which the apparatus must conform. The National Fire Protection Association Standard 1901, current edition, unless otherwise specified in these specifications, shall prevail. The apparatus shall also conform to any and all Federal Motor Vehicle Safety Standards in effect at the time construction of the vehicle is completed.

These specifications shall form a part of any proposal submitted and will be incorporated into any contract awarded. In the event of any discrepancy between these specifications and the contractor's working documents and or proposal, the terms of these specifications shall govern. Each and every deviation proposed by the bidder must be separately and distinctly noted. These deviations shall be detailed and submitted on a separate sheet(s) along with the bidder proposal in bid sequence and citing page and paragraph number. Bidder must explain in detail, and with full supporting data, how the proposed deviation

meets or exceeds the specifications. The purchaser reserves the right to determine which (if any) deviations are acceptable.

Each bidder shall furnish satisfactory evidence of their ability to construct the apparatus specified and shall state the location of the factory or factories where the apparatus is to be built. They shall also show that they are in a position to render prompt service and to furnish replacement parts for said apparatus.

Each bid shall be accompanied by a set of "Contractor's Specifications" consisting of a detailed description of the apparatus being furnished under this contract which conform.

QUALITY AND WORKMANSHIP

The design of the apparatus must embody the latest approved automotive engineering practices. The workmanship must be of the highest quality in its respective field. Special consideration will be given to the following points: Accessibility of the various units that require periodic maintenance operations, ease of operation (including both pumping and driving), turning radius and symmetrical proportions.

Construction must be rugged, and ample safety factors must be provided to carry loads as specified and to meet both on and off-road requirements.

Welding will not be employed in the assembly of the apparatus in a manner that will prevent the ready removal of any component part for service, repair or replacement.

Consideration will be given to single source manufacturing by bidders as one factor in the evaluation of bids. Single source manufacturing refers to a manufacturing process by the bidder which includes the design, engineering, and manufacturing of the apparatus by the bidder using an integrated approach including the fabrication and assembly of the chassis, cab, pumphouse, and body on the bidder's premises.

GENERAL CONDITIONS

Where a product is identified by brand, mark or name of the supplier, that identification is intended to indicate the quality and performance characteristics of the product desired. Any proposed substitution must be noted in the bid and must identify the supplier's name, mark brand and/or model number for the product which the bidder proposes to substitute. The District shall have the right to reject any substitution proposed by the bidder.

Where specific names, brands, part numbers or other identification of components are given, the truck committee has, to the best of its ability, researched these items and believes them to be correct, suitable and desirable for their intended use. Bidders are, however, cautioned against accepting these

items without verifying the correctness, suitability or desirability through their own research. Upon request of a bidder, the committee will supply its sources of information as is available.

As stated above, where exceptions to these specifications are taken, bidders shall state what alternative they propose in order to meet the objective(s) of the District. The District shall have the right to reject any exception and/or alternative proposed by the bidder.

The District reserves the right to require a performance bond from the successful bidder. The amount of the bond shall be equal to 100% of the bid amount. The bond shall be written by a corporate surety acceptable to the District. The bidder shall state in its bid the cost of the bond. If a performance bond is not required by the District, that amount shall be deducted from the total cost of the apparatus.

The contractor shall execute a satisfactory waiver of liens for recording.

The District reserves the right to require bidders to submit their latest audited financial statement. The statement must be in written form and include profit or loss statements, Dun & Bradstreet rating and bank references.

In the event that the District would elect to purchase the vehicle chassis separately, or to pay for it when it is delivered to the contractor, the successful bidder shall provide the District with:

Certificate(s) of insurance from its insurance company evidencing coverage for the chassis while the chassis is in the care and custody of the apparatus manufacturer. The certificate(s) shall: describe the chassis; give the Vehicle Identification Number (V.I.N.) of the chassis; state its value and name the Godfrey Fire Protection District as an additional named insured A.T.I.M.A. A letter from the contractor's lending institution(s) signed by (a) competent officer(s) thereof shall be provided to the District. The letter shall describe the chassis giving its Vehicle Identification Number (V.I.N.). The letter shall recognize that the Godfrey Fire Protection District is the sole owner of the chassis and that the lending institution has no financial interest in or claim upon the chassis.

The successful bidder shall submit to the District complete layout drawings and working documents for approval by the District. Fabrication of the vehicle may start only after final approval of the appropriate drawings by the District. However, if at any time prior to final acceptance of the completed vehicle by the District, disagreements arise that cannot otherwise be resolved; the provisions of these specifications shall govern.

The successful bidder shall state to the best of its ability what the approximate gross weight and individual axle weights of the apparatus will be, filled with fuel, water, a complete complement of hose and equipment common to pumpers or as stated by the District. This statement shall accompany the bid proposal.

On request directed to "Fire Chief, Godfrey Fire Protection District, PO Box F, Godfrey, IL 62035" a copy of these specifications will be supplied to any manufacturer of fire apparatus or fire apparatus chassis who indicates a desire to bid. **Bids must be in the hands of the Chief no later than 12pm on Monday, November 26th, 2018.**

All bids on hand at that time will be opened and read aloud at a meeting of the Board of Directors of the Godfrey Fire Protection District. The District reserves the right to reject any or all bids as the best interests of the District may dictate.

LIABILITY

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

RIGHT TO REJECT BIDS

The purchaser reserves the right to reject any and all bids received after evaluation of bids, for budgetary reasons, or as a result of a change in the procurement plans of the District, or if any or all bids are determined to be nonresponsive or not responsible. If a bid is awarded, it will be to the lowest responsible and responsive bidder as determined by the District

BID DRAWINGS

Detailed drawings including, but not limited to, the overall dimensions, wheelbase, and overall length of the proposed apparatus shall be required with the bid. The drawing shall include top, right, left, front and rear views of the apparatus. Large size "D" drawings of the apparatus proposed shall be furnished with the bid.

WARRANTIES

The successful bidder shall warrant the fitness of the apparatus to be supplied as well as all parts and items of the equipment to be supplied therewith, for the performance of their intended services.

The apparatus and all peripheral equipment shall be warranted for a minimum of one year from the date of final acceptance by the District. All equipment and peripherals listed within this specification shall be new and any warranties pertaining to such equipment shall commence upon final acceptance of the apparatus by the District. When individual components are covered by longer warranties, those warranties shall apply. A full statement of warranty shall be included with the bid. Where an apparatus manufacturer is supplying a completed apparatus on a chassis supplied by a separate chassis manufacturer,

the respective manufacturers must outline, to the District's satisfaction, the areas and parts affected by their respective warranty coverage. In any event, the bidder/contractor will be held ultimately responsible for all warranties and/or for the enforcement of the warranties of its suppliers. If extended warranties are available, the availability and the terms of those extended warranties shall be disclosed to the District. Bids shall include any terms for an extension of the warranty period and bids will be evaluated based on the length of this warranty. The term "Lifetime" or "Lifetime Warranty" shall be defined as a minimum of twenty years.

FRAME WARRANTY

The frame (including cross members) shall carry a lifetime warranty to the original purchaser. No exceptions.

CHASSIS WARRANTY

The chassis manufacturer shall warrant to the original purchaser the custom fire truck chassis for a period of at least twelve months with the exception of the actual fire apparatus chassis frame (including cross members) which carries a lifetime warranty. The warranty may include conditional items which shall be listed in the detailed warranty document that shall be provided upon request.

CAB WARRANTY

The cab shall be warranted for a period of ten years. Warranty conditions may apply and shall be listed in the detailed warranty document that shall be provided.

WATER (BOOSTER) TANK WARRANTY

The water tank shall be issued an unlimited time warranty with \$200 per day out of service guarantee and transfer option.

The tank shall be installed following the manufacturer's installation recommendations.

PAINT WARRANTY

The manufacturer shall warrant the finishes for a minimum period of ten years from its date of delivery.

This warranty shall apply to the finished areas for the following defects:
Cracking or Checking.

A total loss of gloss caused by chalking or fading.

Peeling of the top coat or all layers included in the process from the substrate.

Spot or, random discoloration in the overall finish.

RUST PROOFING WARRANTY

A ten year or 100,000 mile warranty certificate against perforation shall be issued in the District's name.

SERVICING OF WARRANTIES

Bidders shall submit a statement outlining how warranty service, parts and repairs are obtained. The statement shall include:

Name of the organization(s) providing the service(s)

Location of the service center(s)

Regular business hours

Arrangements for after hours emergency service and/or parts

Manufacturers for whom they are authorized warranty service representatives.

Number of full time personnel employed

Capability to provide service at the District's location.

Stocking level of service parts for the apparatus and its components.

Arrangements for rapidly obtaining "unit down" non-stock parts.

The statement will extend to standard truck chassis components such as engine, transmission, driveline, axles, pump or foam system.

The District may, at its option, visit any or all of the facilities during regular business hours.

DELIVERY OF APPARATUS

The completed apparatus shall be delivered under its own power to Godfrey Fire Protection District Station 1 no later than nine months after the award of the contract. Each bid shall indicate the time required between execution of the contract and the delivery date. A deduction of \$125.00 per day in liquidated damages may be made for each day over and above the quoted delivery date.

The apparatus will be tested and approved by Underwriters Laboratories, Inc. in accordance with their standard practices. A report showing the results of each test and certification of the Underwriter's approval for each test shall be supplied with the vehicle upon delivery to the District.

A pump test as outlined in NFPA 1911 (Chapter 5, service tests) will be performed and witnessed at time of delivery. The apparatus must pass all requirements of this chapter to be considered acceptable.

A road test shall be conducted with the apparatus fully loaded and a continuous run of ten miles or more be made, during which time the apparatus shall show no loss of power or overheating. The transmission drive shaft or shafts and rear axles shall run quietly and be free from abnormal vibration or noise throughout the operating range of the apparatus.

The contractor shall furnish copies of the Pump Manufacturer's Certification of hydrostatic test, the Engine Manufacturer's current certified brake horsepower curve, and the Manufacturer's record of pumper construction details.

Proof of all certifications, performance, and requirements of NFPA 1901 (edition in use when contract was signed) shall be provided.

(A) competent person(s) representing/in the employ of the contractor shall, at the contractor's expense, remain with the vehicle after delivery for a period of not less than three days. During that time the contractor's representative shall give instructions on the operation of the apparatus to such members of the District as the Chief thereof shall designate. All expenses incident to the operation of the apparatus during this instruction period shall be borne by the contractor.

Permission to keep or store the apparatus in any building owned or occupied by the Purchaser or its use by the District during the above specified period with the permission of the Bidder will not constitute acceptance.

If any deficiencies are found in the apparatus the bidder shall have 30 calendar days to correct such deficiencies and shall be charged \$125.00 per calendar day until such deficiencies are corrected. If corrective action has not been taken within 30 calendar days, the District has the right to reject the apparatus. The bidder can be considered in default and provisions of the performance bond may be instituted.

The contractor shall provide complete sets of instruction, owners, service, maintenance and repair manuals for the apparatus, its chassis, cab and body components (engine and transmission, etc.) and systems. A detailed wiring diagram which is specific to this vehicle will be provided with the service manual. The manufacturer shall also include spare hardware, extra fasteners, and paint for touch up.

Manuals and software shall be provided:

- (1) hard copy (if available)
- (1) copy on disc or flash drive
- (1) multiplex diagnostic software kit/cables (if equipped)
- (1) engine and transmission diagnostic software kit/cables

FINANCING

Bids are to include options and terms, if available, through the bidder or a third party, for the financing of the purchase of the apparatus by District. Terms are to include 5, 7, and 10 year payment terms with the first payment not less than one year from the contract date.

INSPECTION TRIPS & REPORTS

Bids are to include an allowance for reimbursement of District for expenses associated with two (2) factory inspection trips for three (3) District representatives. The bid shall separately identify a “not to exceed” reimbursement amount for each trip. At its discretion, the District may delete from any bid the trip expense reimbursement and deduct the amount of the trip expense reimbursement allowance from the bid price without otherwise affecting the validity of the bid.

The District will be entitled to conduct reasonable inspections of the apparatus during the manufacturing process at times mutually agreed upon with the bidder without limitation. It is anticipated that, at a minimum there will be a preconstruction meeting to review the proposal with the bidder to confirm that the proposed apparatus complies with the District’s specifications and a predelivery inspection prior to delivery to confirm that the apparatus as built complies with the specifications. Sufficient time will be afforded to the District’s representatives in connection with these inspections to conduct a thorough examination.

During manufacture, and as reasonably requested by District, the bidder will provide District with regular reports on the progress of the manufacturing of the apparatus, including photographs of the apparatus as it is being built and at each stage of production.

CHANGE ORDERS/MODIFICATIONS/PRIORITY OF SPECIFICATIONS

No change or modification in the apparatus or its manufacture may be made except by written change order approved by the District, including, modifications due to changes in federal, state, or NFPA standards which do or do not result in a change in manufacturing cost or the price of the apparatus to District. District is to be notified by the bidder of any proposed modification prior to the making of same. District will not be responsible for any additional cost resulting from a change or modification unless agreed to by District in a written change order identifying specifically any increase in the purchase price of the apparatus.

In the event of any conflict between the District’s specifications and those of the bidder, the District’s specifications will control unless otherwise agreed to in writing by the District.

RESCUE ENGINE PERFORMANCE SPECIFICATIONS

All components not specified shall exceed applicable national standards and engineering practices for a severe duty fire apparatus with a minimum 30-year service life. Each manufacturer is encouraged to submit multiple proposals for apparatus that meet this performance specification. Due to the current nature of our fleet, rapid delivery, program, pre-engineered, in-production, add-on,

demonstrator, or other apparatus that are available in **nine months or less** will have priority in consideration of bids and their evaluation.

DIMENSIONS

The wheelbase shall not exceed 205" (under 200" preferred)

The overall length shall not exceed 35' 0" (under 33' preferred)

The overall height shall not exceed 10' 2" (under 10" preferred)

The overall width of the apparatus body shall not exceed 102"

FRAME COATING

Proposals shall have the highest corrosion resistance coating available for the frame (**rails and crossmembers**) such as hot dipped galvanized or equivalent. Hot dipped galvanized frame coating is preferred. Proposals shall include detailed information on the proposed coating.

CRAMP ANGLE

Proposals shall include left and right cramp angles. Higher maneuverability is preferred.

DIESEL ENGINE

A Cummins 400-450hp diesel engine. **No exceptions.**

ALTERNATOR

A minimum 300 amp alternator shall be installed.

FUEL TANK

Minimum capacity of fifty (50) gallons (75 gallons preferred).

CUSTOM CAB

The cab shall be a flat floor, medium four door, 5" - 10" raised roof, tilt cab, built specifically for the fire service. The cab shall be capable of seating 5-6 firefighters with 4-5 SCBA seats.

CAB HEATER / DEFROSTER / AIR CONDITIONER

The cab shall be equipped with an HVAC system.

INTERIOR CAB TRIM

The interior of the cab trim should be rugged and have as little plastic as possible. A "severe duty" style interior is preferred. The ceiling of the cab should have some type of removable, padded, sound absorbing headliner that can be removed for installation of radio and intercom equipment if necessary. There shall be an area on the dog house for storage of binders and miscellaneous equipment.

KNOX BOX KEY SECURE

A Knox Box Key Secure 5 with a mechanical key lock for Godfrey FPD shall be installed with power supplied to it. A 60 degree bracket shall be used.

ELECTRICAL SYSTEM

Manufacturers may propose a hard wired or multiplexed electrical system. Please specify. Multiplexed systems shall include a display for the driver and for the officer. You may also quote this as a cost option. Multiplex systems shall have an interface for the driver and the officer.

MECHANICAL SIREN

Federal Signal # Q2B shall be mounted on the centerline of the truck.

ELECTRIC SIREN

A Code 3 V-Con or equivalent with 100 watt speaker.

STOP, TAIL, TURN, GROUND, BACKUP, PUMP PANEL AND HOSEBED LIGHTS LED

The apparatus shall have a standard compliment of LED stop, tail, turn, ground, backup, pump panel and hosebed lights.

BACKUP CAMERA

A backup camera shall be installed and be viewable by the driver. It shall activate in reverse and also be able to be manually activated by the driver.

WARNING LIGHTS

Warning lights shall exceed NFPA requirements.

SCENE LIGHTS 12V LED

Large area, high lumen scene lights (20,000+ lumens each), one brow, one rear and one on each side shall be installed. FRC is the preferred vendor.

SCENE LIGHT, PUSH UP, 12V LED

One, large area, high lumen, pole mounted, push up scene light shall be installed. FRC is the preferred vendor.

RADIO EQUIPMENT

Provision for a VHF radio shall be made in the center console with provision for a remote head on the pump panel.

EXTERIOR PAINT LOWER COLOR

Red. The preferred lower paint color is PPG 71528 Red.

EXTERIOR PAINT UPPER COLOR CAB

White if no additional expense. The preferred upper paint color is PPG 2185 White.

FIRE PUMP

1500-2000gpm single stage pump, Hale or Waterous located in a compact but easily accessible pump house. Pump shall have a mechanical seal. Side, top, and rear mounted pumps will be considered. 1500gpm preferred.

PRESSURE GOVERNOR

A pressure governor and monitoring display kit shall be installed.

INTAKE RELIEF VALVE

Must be integral to pump.

PRIMING SYSTEM

A manual control, three location, air priming system shall be installed with a chassis air compressor sized for this application.

THERMAL RELIEF VALVE

The pump shall have a thermal relief valve.

MASTER INTAKE VALVE

Two, TFT Low Profile Ball Intake Valves as specified by the GFPD truck committee.

EVACUATION HORN BUTTON

A water proof button shall be located on the pump panel and appropriately labeled that sounds the air horn.

TFT CROSSFIRE REMOVABLE MONITOR

One Task Force Tips Crossfire monitor shall be provided. It shall be a package to include the Safe-Tak base with single 5" storz inlet, Monitor Top, Master Stream 1250, quad stack tips, and 10" stream straightener. A storage bracket for the Safe-Tak base shall also be included.

TFT EXTEND A GUN

A TFT Extend A Gun 18" shall be installed to allow the Crossfire monitor to be raised. Any appropriate TFT brackets for the proper installation of the Extend A Gun shall be installed if necessary. A "raised" sensor shall be installed.

PRECONNECTS

Two 1 3/4" preconnected speedlays shall be provided. Each speedlay shall have the minimum capacity of 200 feet of 1 3/4" Niedner XL-800 fire hose and a fog nozzle.

One 2.5" preconnected speedlay shall be provided with a minimum capacity of 200 feet of 2.5" Niedner XL-800 fire hose and a fog nozzle.

It is preferred that all three speedlays are co-located and easily accessible from the ground.

The speedlays shall have removable trays to allow for reloading hose. There shall be a way to secure the sliding trays into the speedlay compartment but allow them to be easily removed as well. Three additional trays shall be provided loose with the truck.

FRONT BUMPER

24" maximum preferred front bumper with a discharge and covered, internal storage for a 100', 1 3/4" attack line with nozzle. The front bumper shall also have air horns.

REAR BUMPER

Rear walking surface shall be a minimum of 12" wide.

BOOSTER TANK

750-1000 gallon poly tank. 750 gallons preferred if this increases available compartment space and reduces overall truck dimensions. No proposals will be accepted under 750 gallon water capacity.

COMPARTMENTS

Apparatus compartment body storage of 300+ cubic feet is preferred. Bidders shall calculate this.

Each side of the apparatus body shall be provided with three (3) rescue-style compartments. The rear shall have one compartment. Storage for at least six SCBA bottles shall be provided in the body.

All doors shall be roll-up doors. It is preferred the doors remain unpainted.

It is preferred the compartments be full height full depth.

Coffin compartments on each side of the large diameter hosebed are preferred.

All compartments shall have LED lighting.

COMPARTMENT COATING

Compartment interiors shall be coated with a heavy-duty coating.

LADDERS, PIKE POLES

Through-the-tank storage is highly preferred to avoid reduction in compartment space. A standard 24', 14', 10' ladder compliment is required but a 28'-35' ladder is preferred in place of the 24'. A standard compliment of pike poles shall be stored with the ladders.

APPARATUS BODY SUPERSTRUCTURE FRAME

Manufacturers can propose aluminum or stainless-steel construction. They must provide detailed specifications and highlight their construction methods. Durability and high-quality methods are preferred.

VOGEL LUBRICATION SYSTEM

A Vogel Lubrication System shall be installed on the chassis. The system shall be capable of lubricating all applicable grease points on the chassis.

HOSEBED CAPACITY DESIGN

The hosebed shall have the preferred capacity to carry the following hoseload with moveable dividers:

1000' of 5" supply hose
400' of 2.5" hose
400' of 3" hose

HOSEBED COVER

A hard hosebed cover rated as a walking surface is highly preferred.

APPARATUS BODY UNDERCOATING

The apparatus body shall be undercoated after assembly is completed.

PULLING EYES

Two front and two rear pulling eyes shall be installed.

ROLL OUT TRAYS

There shall be three, minimum 250lb. capacity roll out tray(s) provided. The trays shall be lined with turtle tile. Installation location shall be determined at pre-construction conference.

SHELVES

There shall be seven adjustable shelves installed, one in each body compartment. The shelves shall be of sturdy construction to hold heavy equipment for use in the fire service. The shelves shall be lined with turtle tile.

NFPA REFLECTIVE STRIPE AND CHEVRONS

A 6" retro-reflective stripe shall be applied horizontally on the apparatus. The stripe shall be white with a yellow/gold bottom and top outline to match current Godfrey Fire District apparatus. A retro-reflective red/lime chevron pattern shall be applied to the rear and front bumper of the apparatus.

FIRE VULCAN 180 LED FLASHLIGHTS

Four Fire Vulcan 180 LED flashlights with charger bases shall be installed in the cab of the apparatus as directed.

SPANNER AND HYDRANT WRENCH SETS

Two sets consisting of two spanner wrenches and one hydrant wrench per set shall be installed as directed.

SHORE POWER AND RECEPTACLES

Truck shall have a Kussmaul system (with air pump) that applies power to truck mounted 125VAC receptacles. The truck shall have at least two receptacles in the cab and two in compartment receptacles for charging of equipment. Receptacles shall be powered by truck mounted generator, if equipped.

GRAPHICS PACKAGE ALLOWANCE

A lettering and graphics package shall be placed on the apparatus similar in appearance to current GFPD engines.

*****OPTIONAL EQUIPMENT*****

The following equipment shall be individually bid as optional equipment separate from the proposed apparatus bid price. If this equipment has already been installed on an apparatus being bid, please indicate that the equipment is already included.

FOAM SYSTEM

A class A foam system with all foam capable preconnects and a 20-50 gallon class A foam tank shall be installed. Mechanical (Feecon) and automatic systems are acceptable.

PORTABLE GENERATOR

One Honda EB2200i portable generator.

HYDRAULIC GENERATOR

One hydraulic generator shall be installed. 125VAC receptacles shall be installed, one on each side of the apparatus and one on the rear. Proposals shall include pricing for a 5,000, - 10,000 watt generator.

ELECTRIC REWIND CORD REEL

There shall be one electric rewind cord reel properly mounted at a location to be determined. The cord reel will have a junction box with multiple receptacles.

AUTOMATIC TIRE CHAINS

On-Spot or equivalent automatic tire chains shall be installed on the rear axle.

PORTABLE MONITOR

One TFT Blitzforce monitor with stacked tips.

ATTACK NOZZLE

One TFT Mid-Force 70-200gpm 1 3/4" automatic nozzle.

ATTACK NOZZLE

One TFT smooth bore nozzle with detachable tip for a 2.5" attack line.

REMOTE TANK LEVEL GAUGE

Two large, LED, remote tank level gauges installed on each side of the apparatus cab to monitor tank water level from a distance.

FIRE COM SYSTEM

A Fire Com system with four wireless headsets shall be installed.

COMPARTMENT TOOLBOARD

One slide out compartment mounted toolboard.

RESQTEC NT HYBRID LIFTING BAGS (itemized)

- (1) NT hybrid 2 with storage bag
- (1) NT hybrid 4 with storage bag

THERMAL IMAGING CAMERA WITH TRUCK CHARGER

One FLIR K53 thermal imaging camera with FLIR K series truck charger

5 INCH HOSE

100ft. section of single jacket five inch hose with storz couplings.
100ft. section of Niedner XL-800 (yellow) hose with storz couplings.

3 INCH HOSE

50ft. section of Niedner XL-800 (yellow) hose with NST threads.

2.5 INCH HOSE

50ft. section of Niedner XL-800 (yellow) hose with NST threads.

1.75 INCH HOSE

50ft. section of Niedner XL-800 (orange) hose with NST threads.

END OF SPECIFICATIONS