



LAKE COUNTY  
FLORIDA

INVITATION TO BID (ITB)  
FIRE APPARATUS

ITB Number: 14-0601 Contracting Officer: Donna Villinis  
Bid Due Date: September 18, 2013 Pre-Bid Conf. Date: Not applicable  
Bid Due Time: 3:00 p.m. ITB Issue Date: August 22, 2013

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| SPECIFIC SOLICITATION REQUIREMENTS ARE AS NOTED BELOW: |                                      |
|--|--------------------------------------|
| Proposal and/or Performance Bond:                      | Not applicable for this solicitation |
| Certificate of Competency/License:                     | Not applicable for this solicitation |
| Indemnification/Insurance:                             | See Section 1.8                      |
| Pre-Bid Conference/Walk-Thru:                          | Not applicable for this solicitation |

At the date and time specified above, all bids that have been received in a timely manner will be opened, recorded, and accepted for consideration. The names of the bidders submitting bids will be read aloud and recorded. The bids will be available for inspection during normal business hours in the Office of Procurement Services thirty (30) calendar days after the official bid due date. When countersigned by an authorized County representative, this document and any specifically identified attachments may form the contract document binding the parties to all performance specified herein.

Vendors shall complete and return the entirety of this ITB Document, and attach all other information requested in this ITB document (See Provision 1.13). Failure to sign the bid response, or to submit the bid response by the specified time and date, may be cause for rejection of the bid.

NO-RESPONSE REPLY

If any vendor does not want to respond to this solicitation at this time, or, would like to be removed from Lake County’s Vendor List, please mark the appropriate space, complete name below and return this page only.

- Not interested at this time; keep our firm on Lake County’s Vendors List for future solicitations for this product / service
- Please remove our firm from Lake County’s Vendor’s List for this product / service.

VENDOR IDENTIFICATION:

Company Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
E-mail Address: \_\_\_\_\_ Contact Person: \_\_\_\_\_

**Section 1.1: Purpose**

The purpose of this solicitation is to establish a contract with a single contractor for: (1) an initial purchase of the specific fire apparatus specified herein and, (2) to provide for an indefinite quantity contract with the awarded contractor for future purchases of various specified and unspecified fire apparatus. The resulting contract shall guarantee the construction and delivery to the County of any additional fire apparatus as may be required by the County throughout the initial contract term and any subsequent contract renewal periods.

Orders for apparatus and related equipment will be by issuance of a purchase order throughout the contract period as needs and the availability of funds are determined.

Only apparatus proposed from companies which are actively engaged in manufacturing apparatus comparable and have been in the business for a minimum of fifteen years with an established favorable reputation shall be considered.

**Section 1.2: Designated Procurement Representative**

Questions concerning any portion of this solicitation shall be directed in writing [fax and e-mail accepted] to the below named individual who shall be the official point of contact for this solicitation. To ensure reply, questions should be submitted no later than seven (7) working days before the bid due date.

Donna Villinis, CPPB, Senior Contracting Officer  
Lake County BCC  
Office of Procurement Services  
315 W. Main Street, Room 441  
PO BOX 7800  
Tavares, FL 32778-7800

Phone : 352.343.9839  
Fax : 352.343.9473  
E-mail: [dvillinis@lakecountyfl.gov](mailto:dvillinis@lakecountyfl.gov)

No answers given in response to questions submitted shall be binding upon this solicitation unless released in writing as an addendum to the solicitation by the Lake County Office of Procurement Services.

**Section 1.3: Method of Award**

As the best interests of the County may require, the County reserves the right to make award(s) on a lowest price basis by individual item, group of items, all or none, or a combination thereof; with one or more vendor(s); to reject any and all offers or waive any minor irregularity or technicality in bids received.

**Section 1.4: Pre-Bid Conference / Site Visits**

Not applicable to this solicitation.

**Section 1.5: Term of Contract**

This contract shall commence on the first calendar day of the month succeeding approval of the contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Notice of Award Letter distributed by the County's Office of Procurement Services; and contingent upon the completion and submittal of all required pre-award documents. The initial contract term shall remain in effect for twelve (12) months, and then the contract will remain in effect until completion of the expressed and/or implied warranty period. The contract prices resultant from this solicitation shall prevail for the full duration of the initial contract term unless otherwise indicated elsewhere in this document.

**Section 1.6: Option to Renew**

Prior to, or upon completion, of the initial term of this contract, the County shall have the option to renew this contract for four (4) additional one (1) year period(s). Prior to completion of each exercised contract term, the County may consider an adjustment to price based on an applicable Manufacturers Price Increase evidenced by appropriate manufacturer documentation submitted to the County as instructed below.

It is the vendor's responsibility to request in writing any pricing adjustment under this provision. The vendor's written request for adjustment should be submitted thirty (30) calendar days prior to expiration of the then current contract term. The vendor adjustment request must clearly substantiate the requested increase. The written request for adjustment should not be in excess of the relevant pricing index change. If no adjustment request is received from the vendor, the County will assume that the vendor has agreed that the optional term may be exercised without pricing adjustment. Any adjustment request received after the commencement of a new option period shall not be considered.

The County reserves the right to reject any written price adjustments submitted by the vendor and/or to not exercise any otherwise available option period based on such price adjustments. Continuation of the contract beyond the initial period, and any option subsequently exercised, is a County prerogative, and not a right of the vendor. This prerogative will be exercised only when such continuation is clearly in the best interest of the County.

**Section 1.7: Method of Payment - Phased Payments for Units Delivered**

The County shall provide periodic payments for units delivered by the vendor. The vendor shall provide a fully documented invoice to the County user department(s) that requested the units through a purchase order. In addition to the basic information set forth below, the invoices shall identify critical, descriptive data including, but not limited to, model numbers, VIN numbers and/or serial numbers. It shall be understood that such invoices shall not be authorized for payment until such time as a County representative has inspected and approved the units.

All invoices shall contain the contract and/or purchase order number, date and location of delivery or service, and confirmation of acceptance of the goods or services by the appropriate County representative. Failure to submit invoices in the prescribed manner will delay payment, and the vendor may be considered in default of contract and its contract may be terminated. Payments shall be tendered in accordance with the Florida Prompt Payment Act, Part VII, Chapter 218, Florida Statutes.

**Section 1.8: Insurance**

Each vendor shall include in its solicitation response package proof of insurance capabilities, including but not limited to, the following requirements: [This does not mean that the vendor must have the coverage prior to submittal, but, that the coverage must be in effect prior to a purchase order or contract being executed by the County.]

An original certificate of insurance, indicating that the awarded vendor has coverage in accordance with the requirements of this section, shall be furnished by the vendor to the Contracting Officer within five (5) working days of such request and must be received and accepted by the County prior to contract execution and/or before any work begins.

The vendor shall provide and maintain at all times during the term of any contract, without cost or expense to the County, policies of insurance, with a company or companies authorized to do business in the State of Florida, and which are acceptable to the County, insuring the vendor against any and all claims, demands or causes of action whatsoever, for injuries received or damage to property relating to the performance of duties, services and/or obligations of the vendor under the terms and provisions of the contract. The vendor is responsible for timely provision of certificate(s) of insurance to the County at the certificate holder address evidencing conformance with the contract requirements at all times throughout the term of the contract.

Such policies of insurance, and confirming certificates of insurance, shall insure the vendor is in accordance with the following minimum limits:

General Liability insurance on forms no more restrictive than the latest edition of the Occurrence Form Commercial General Liability policy (CG 00 01) of the Insurance Services Office or equivalent without restrictive endorsements, with the following minimum limits and coverage:

|                                   |                       |
|-----------------------------------|-----------------------|
| Each Occurrence/General Aggregate | \$1,000,000/2,000,000 |
| Products-Completed Operations     | \$2,000,000           |
| Personal & Adv. Injury            | \$1,000,000           |
| Fire Damage                       | \$50,000              |
| Medical Expense                   | \$5,000               |
| Contractual Liability             | Included              |

Automobile liability insurance, including owned, non-owned, and hired autos with the following minimum limits and coverage:

|                       |             |
|-----------------------|-------------|
| Combined Single Limit | \$1,000,000 |
|-----------------------|-------------|

Workers' compensation insurance based on proper reporting of classification codes and payroll amounts in accordance with Chapter 440, Florida Statutes, and/or any other applicable law requiring workers' compensation (Federal, maritime, etc). If not required by law to maintain workers compensation insurance, the vendor must provide a notarized statement that if he or she is injured; he or she will not hold the County responsible for any payment or compensation.

Employers Liability insurance with the following minimum limits and coverage:

|                       |             |
|-----------------------|-------------|
| Each Accident         | \$1,000,000 |
| Disease-Each Employee | \$1,000,000 |
| Disease-Policy Limit  | \$1,000,000 |

Professional liability and/or specialty insurance (medical malpractice, engineers, architect, consultant, environmental, pollution, errors and omissions, etc.) insurance as applicable, with minimum limits of \$1,000,000 and annual aggregate of \$2,000,000.

The following additional coverage must be provided if a dollar value is inserted below:

Loss of Use at coverage value: \$ \_\_\_\_\_  
Garage Keepers Liability at coverage value: \$ \_\_\_\_\_

Lake County, a Political Subdivision of the State of Florida, and the Board of County Commissioners, shall be named as additional insured as their interest may appear on all applicable liability insurance policies.

The certificate(s) of insurance, shall provide for a minimum of thirty (30) days prior written notice to the County of any change, cancellation, or nonrenewal of the provided insurance. It is the vendor's specific responsibility to ensure that any such notice is provided within the stated timeframe to the certificate holder.

If it is not possible for the Vendor to certify compliance, on the certificate of insurance, with all of the above requirements, then the Vendor is required to provide a copy of the actual policy endorsement(s) providing the required coverage and notification provisions.

Certificate(s) of insurance shall identify the applicable solicitation number (ITB 13-0611) in the Description of Operations section of the Certificate.

Certificate holder shall be:

LAKE COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF  
FLORIDA, AND THE BOARD OF COUNTY COMMISSIONERS.  
P.O. BOX 7800  
TAVARES, FL 32778-7800

Certificates of insurance shall evidence a waiver of subrogation in favor of the County, that coverage shall be primary and noncontributory, and that each evidenced policy includes a Cross Liability or Severability of Interests provision, with no requirement of premium payment by the County.

The Vendor shall be responsible for subcontractors and their insurance. Subcontractors are to provide certificates of insurance to the prime vendor evidencing coverage and terms in accordance with the Vendor's requirements.

All self-insured retentions shall appear on the certificate(s) and shall be subject to approval by the County. At the option of the County, the insurer shall reduce or eliminate such self-insured retentions, or the vendor or subcontractor shall be required to procure a bond guaranteeing payment of losses and related claims expenses.

The County shall be exempt from, and in no way liable for, any sums of money, which may represent a deductible or self-insured retention in any insurance policy. The payment of such deductible or self-insured retention shall be the sole responsibility of the vendor and/or subcontractor providing such insurance.

Failure to obtain and maintain such insurance as set out above will be considered a breach of contract and may result in termination of the contract for default.

Neither approval by the County of any insurance supplied by the vendor or Subcontractor(s), nor a failure to disapprove that insurance, shall relieve the vendor or Subcontractor(s) of full responsibility for liability, damages, and accidents as set forth herein.

### **Section 1.9: Bonding Requirements**

Not applicable to this solicitation.

### **Section 1.10: Delivery**

Delivery dates shall be negotiated prior to the issuance of purchase orders. All deliveries shall be made in accordance with good commercial practice and all required delivery timeframes shall be adhered to by the vendor, except in such cases where the delivery will be delayed due to acts of God, strikes, or other causes beyond the control of the vendor. In these cases, the vendor shall notify the County of the delays in advance of the original delivery date so that a revised delivery schedule can be appropriately considered by the County.

Should the vendor(s) to whom the contract(s) is awarded fail to deliver a specific order in the number of days negotiated, the County reserves the right to cancel the contract on a default basis after any back order period that has been specified in this contract has lapsed. If the contract is so terminated, it is hereby understood and agreed that the County has the authority to purchase the equipment elsewhere and to charge the incumbent vendor with any re-procurement costs.

Certain County employees may be authorized in writing to pick-up materials under this contract. Vendors shall require presentation of this written authorization. The vendor shall maintain a

copy of the authorization. If the vendor is in doubt about any aspect of material pick-up, vendor shall contact the appropriate user department to confirm the authorization.

Apparatus, to insure proper break in of all components while under warranty, shall be delivered under its own power. Rail or truck freight is not acceptable. A qualified delivery engineer representing the bidder shall deliver the apparatus and remain for a length of time sufficient to thoroughly instruct required personnel in the proper operation, care and maintenance of the equipment delivered.

### **Section 1.10.1: Shipping Terms, F.O.B. Destination**

All vendors shall quote prices based on F.O.B. Destination, and shall hold title to the goods until such time as they are delivered to, and accepted by, an authorized County representative at Lake County Public Safety.

### **Section 1.11: Acceptance of Goods or Services**

The apparatus delivered as a result of an award from this solicitation shall remain the property of the vendor, and services rendered under the contract will not be deemed complete, until a physical inspection and actual usage of the apparatus and/or service(s) are accepted by the County, and found to be in compliance with the terms herein, fully in accord with the specifications, and of the highest quality.

Any apparatus and/or services purchased as a result of this solicitation and/or contract may be tested/inspected for compliance with specifications. In the event that any aspect of the goods or services provided is found to be defective or does not conform to the specifications, the County reserves the right to terminate the contract or initiate corrective action on the part of the vendor, to include return of any non-compliant goods to the vendor at the vendor's expense, requiring the vendor to either provide a direct replacement for the item, or a full credit for the returned item. The vendor shall not assess any additional charge(s) for any conforming action taken by the County under this clause. The County will not be responsible to pay for any product or service that does not conform to the contract specifications.

In addition, any defective product or service or any product or service not delivered or performed by the date specified in the purchase order or contract, may be procured by the County on the open market, and any increase in cost may be charged against the awarded vendor. Any cost incurred by the County in any re-procurement plus any increased product or service cost shall be withheld from any monies owed to the vendor by the County for any contract or financial obligation.

### **Section 1.12: Warranty**

#### **A. Type of Warranty Coverage Required**

The vendor should supply a copy of its written warranty certificates with its initial offer; however, the vendor may be given the opportunity to submit these certificates to the County during the offer evaluation period. Failure to meet this requirement may result in rejection of the

vendor's offer. The warranty supplied by the vendor shall remain in force for the full period identified by the vendor; regardless of whether the vendor is under contract with the County at the time of defect. Any payment by the County on behalf of the goods or services received from the vendor does not constitute a waiver of these warranty provisions.

B. Correcting Defects Covered Under Warranty

The vendor shall be responsible for promptly correcting any deficiency, at no cost to the County, within thirty (30) calendar days after the County notifies the vendor of such deficiency in writing. If the vendor fails to honor the warranty and/or fails to correct or replace the defective work or items within the period specified, the County may, at its discretion, notify the vendor, in writing, that the vendor may be debarred as a County vendor, and/or become subject to contractual default if the corrections or replacements are not completed to the satisfaction of the County within thirty (30) calendar days of receipt of the notice. If the vendor fails to satisfy the warranty within the period specified in the notice, the County may (a) place the vendor in default of its contract, and/or (b) procure the products or services from another source and charge the incumbent vendor for any additional costs that are incurred by the County for this work or items; either through a credit memorandum or through invoicing.

The bidder shall have full responsibility of warranty of all components of the equipment. A statement shall be attached with the bid setting out the conditions of the warranty(s) printed on company letterhead. The manufacturer's standard warranty shall be furnished. Warranty shall include parts and service for a minimum of **two (2) years**. Warranty shall become effective when the vehicle is accepted by the County rather than time of delivery. Vehicles and equipment must meet all ANSI, SAE and other applicable standards.

It is the County's desire to have a warranty policy made with one company and to be able to execute all warranties through one service department.

If the bid offered included more than one warranty or more than one service department and parts department then a list must be provided of difference dealer names and locations. The bidder shall list the nearest licensed and authorized factory dealer for the chassis.

The bidder shall include as part of the bid, a quotation on any extended warranty's which may be offered by the bidder or OEM.

This warranty shall not apply:

- 1) To normal maintenance and adjustments.
- 2) To any vehicle which has been repaired or altered outside of the factory in any way so that, in the manufacturer's judgment, it would affect the stability. Also it shall not apply to any vehicle which has been subject to misuse, neglect, or accident, or to any vehicle which shall operate at any speed exceeding the factory rated speed, or loaded beyond the factory rated load capacity.

3) To commercial chassis and associated equipment furnished with the chassis, signaling devices, generators, batteries, or other trade accessories in which they are usually warranted separately by their respective manufacturers.

This warranty is in lieu of all other warranties, expressed or implied, all others representations to the original purchaser and all other obligations or liabilities, including liability for incidental or consequential damages on the part of the company. The manufacturer neither assumes nor authorizes any other person to give or assume any other warranty or liability on the company's behalf, unless made or assumed in writing by the company.

The transmission shall have a **five (5) year/unlimited mileage** warranty covering 100% parts and labor. The warranty shall be provided by transmission manufacturer and not the apparatus builder.

A copy of the fire apparatus manufacturer's warranty shall be included with the bid. The warranty shall state that the body shall be free of structural failures caused by defective design or workmanship for a warranty period of **ten (10) years** from the date the new vehicle is first delivered **or 100,000 miles**, whichever occurs first and that defective parts, under the warranty, shall be repaired or replaced without charge to the original purchaser.

The engine shall come with a **five (5) year** warranty provided by the engine manufacturer.

The water tank shall have a **lifetime** warranty.

If the tank manufacturer determines that the tank problem has rendered the truck out-of-service, the tank manufacturer shall dispatch a service technician **WITHIN 48 HOURS (2 DAYS)** to repair the tank (This time period is for the United States and Canada only).

A **five (5) year** warranty shall be provided for the warranty of the pump.

The stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of **ten (10) years or 100,000 miles**. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of **ten (10) years** from the date of delivery. A copy of the warranty shall be submitted with the bid. (No exceptions)

Valves shall have a **ten (10) year** warranty.

The body exterior paint finish shall be warranted against blistering, peeling, corrosion, lack of adhesion or any other manufacturing or material defect for a period of **ten (10) years**.

The body shall also be warranted against corrosion perforation for a period of **ten (10) years**.

A copy of the manufacturer's warranty shall be included with the bid.

**Section 1.13 Delivery and Completion of Solicitation Response****Section 1.13.1: Delivery of Solicitation Response**

Unless a package is delivered by the vendor in person, all incoming mail from the U.S. Postal Service and any package delivered by a third party delivery organization (FedEx, UPS, DHL, private courier, etc.) will be opened for security and contamination inspection by the Lake County Clerk of the Circuit Court Mail Receiving Center in an off-site secure controlled facility prior to delivery to any Lake County Government facility, which includes the Lake County Office of Procurement Services.

To be considered for award, a bid or proposal must be received and accepted in the Office of Procurement Services prior to the date and time established within the solicitation. A response will not be considered for award if received in the Office of Procurement Services after the official due date and time regardless of when or how it was received by the Lake County Clerk of Court Mail Receiving Center. Allow sufficient time for transportation and inspection.

Each package shall be clearly marked with the applicable solicitation number, title, and company name. Ensure that your bid or proposal is securely sealed in an opaque envelope/package to provide confidentiality of the bid or proposal prior to the due date stated in the solicitation.

If you plan on submitting your bid or proposal **IN PERSON**, please bring it to:

LAKE COUNTY PROCUREMENT SERVICES  
315 W. MAIN STREET  
4TH FLOOR, ROOM 441  
TAVARES, FLORIDA

If you submit your bid or proposal by the **UNITED STATES POSTAL SERVICE (USPS)**, please mail it to:

LAKE COUNTY PROCUREMENT SERVICES  
PO BOX 7800  
TAVARES, FL 32778-7800

If you submit your bid or proposal by a **THIRD PARTY CARRIER** such as FedEx, UPS, or a private courier, please send it to:

LAKE COUNTY PROCUREMENT SERVICES  
MAIL RECEIVING CENTER  
32400 COUNTY ROAD 473  
LEESBURG, FL 34788

Facsimile (fax) or electronic submissions (e-mail) will not be accepted.

**Section 1.13.2: Completion Requirements for Invitation to Bid**

**Two (2) signed original bids (complete ITB document) and two (2) complete copies of the bid submitted by the vendor shall be sealed and delivered to the Office of Procurement Services no later than the official bid due date and time. Any bid received after this time will not be considered and will be returned unopened to the submitter.** The County is not liable or responsible for any costs incurred by any Bidder in responding to this ITB including, without limitation, costs for product and/or service demonstrations if requested.

When you submit your bid, you are making a binding offer to the County and are agreeing to all of the terms and conditions in this Invitation to Bid. Use only the form(s) provided in this document. If you make any change to the content or format of any form, the County may disqualify your offer. All information shall be legible and either written in ink or typewritten. If you make a correction or change on any document, the person signing the bid proposal must initial the change. The bid shall be manually signed in **BLUE INK** by an official authorized to legally bind the Bidder to its provisions.

**COMPLETION OF BID PACKAGE:** The vendor shall complete all required entries in Section 4 of the bid form such as, but not limited to, pricing pages, signature, certifications, references, and acknowledgement of any solicitation addenda. The vendor shall submit the entire solicitation with all Section 4 entries completed in the number of copies specified to the address specified in this solicitation. The vendor shall also submit any supporting documents (to include proof of insurability and provision of bid bonds as required), samples, and/or descriptive literature required by any of the provisions in Section 2 of the solicitation in a separate sealed envelope / package marked "Literature for Bid 13-0611." Do not indicate bid prices on literature.

**Specific Completion Directions:**

- Pricing shall be completed as directed within Section 4..
- Initial and date in **BLUE INK** the appropriate space(s) for each addendum you received for this ITB.
- Insert any prompt payment discount that you will offer. Note payment is NET 30 DAYS otherwise.
- Complete all certifications included within Section 4 of the solicitation.
- Complete the reference information sheets (include at least three references) contained within the solicitation.
- Complete the vendor information, and sign the bid (IN BLUE INK) in the spaces provided in Section 4 of the solicitation.
- If insurance is required, submit either a certificate of insurance, or evidence of insurability, that is in compliance with the stated insurance requirements.

**Section 1.14: Compliance with Federal Standards**

All items to be purchased under this contract shall be in accordance with all governmental standards, to include, but not be limited to, those issued by the Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety Hazards (NIOSH), and the National Fire Protection Association (NFPA).

**Section 1.15: Cooperative Purchases**

The awarded Contractor shall agree to allow any Political Subdivisions of the State of Florida, and/or any other State, County, and Local agencies, Special and/or Volunteer Fire Districts to purchase apparatus at the bid pricing under the same conditions, processes and contract periods. Each ordering agency shall be responsible for their paperwork and billed separately. Lake County shall not be responsible for any costs, damages, etc.; incurred by any entity should they enter into any resultant contracts derived from this bid request.

Lake County has the sole authority to modify the contract.

The awarded contractor shall submit in writing entities requesting to utilize contract quarterly.

**Section 1.16: Demonstration of Equipment May Be Required During Evaluation**

After receipt of offers by the County, the vendors may be required to demonstrate their specifically offered equipment to cognizant County personnel, at no separate cost. The purpose of this demonstration is to observe the equipment in an operational environment and to verify its capability, suitability, and adaptability in conjunction with the performance requirements stipulated in this solicitation. If a demonstration is required, the County will notify the vendor of such in writing and will specify the date, time and location of the demonstration. If the vendor fails to perform the demonstration on the specified date stipulated in the notice, the County may elect to reject that vendor's offer, or to re-schedule the demonstration, whichever action is determined to be in the best interests of the County. The County shall be the sole judge of the acceptability of the equipment in conformance with the specifications and its decision shall be final.

The equipment used for the demonstration shall be the same as the manufacturer's model identified in the vendor's offer. Accordingly, the equipment used in the demonstration shall create an express warranty that the actual equipment to be provided by the vendor during the contract period shall conform to the equipment used in the demonstration. The vendor shall be required to provide adequate restitution to the County, in the manner prescribed by the County, if this warranty is violated during the term of the contract.

**Section 1.17: "Equal" Products**

If a product or service requested by this ITB has been identified in the specifications by a brand name, and has not been notated as a "No Substitute" item, such identification is intended to be descriptive and not restrictive, and is to indicate the quality and characteristics of product or service that will be acceptable. Vendors offering an alternate product will be considered for

award if such product is clearly identified in the bid or proposal and is determined by the County to fully meet the salient characteristic requirements listed in the specifications. An alternate product will not be considered for any item notated “No Substitute”.

Unless the vendor clearly indicates in its bid or proposal that it is proposing an alternate product, the bid or proposal shall be considered as offering the same brand name referenced in the specifications.

If the vendor proposes to furnish an alternate product or service, the brand name of the product or service to be furnished shall be clearly identified. The evaluation of the bid or proposal and the determination as to acceptability of the alternate product or service shall be the responsibility of the County and will be based upon information furnished by the vendor. The County will not be responsible for locating or securing any information which is not included in the bid or proposal. To ensure that sufficient information is available, the vendor shall furnish as part of the bid or proposal all descriptive material necessary for the County to determine whether the product offered meets the salient characteristics required by the specifications. Failure to do so may be considered a material deviation supportive of rejection of the bid.

**Section 1.18: Estimated Quantities**

Any contract entered into shall be of the “open end” type. The contractor shall deliver such quantities as may be ordered, and the contract shall be binding only for the actual quantities ordered during the contract period. Order(s) shall be issued throughout the contract period by issuance of purchase orders as needs are determined.

The quantities indicated in the pricing section are the apparatus that may be ordered initially with award of the ITB. Future orders are dependent on the appropriation of funds.

**Section 1.19: Factory Delays**

Factory scheduling delays shall be reported to the County in writing. Delays should be addressed to:

Donna Villinis, Senior Contracting Officer  
Lake County BCC  
Office of Procurement Services  
315 W. Main Street, Room 416  
PO BOX 7800  
Tavares, FL 32778-7800

**Section 1.20: Licenses, Permits and Fees**

The vendor shall obtain and pay for all licenses, permits and inspection fees required for this project; and shall comply with all laws, ordinances, regulations and building code requirements applicable to the work contemplated herein. Damages, penalties and or fines imposed on the County or the vendor for failure to obtain required licenses, permits, inspection fees, or inspections shall be borne by the vendor.

**Section 1.21: Maintenance Agreement**

A maintenance agreement shall be available to the County after the expiration of the apparatus warranty period. Bidder shall submit a copy of the proposed maintenance agreement with their bid submittal.

**Section 1.22: Omission from the Specifications**

The apparent silence of this specification and any addendum regarding any details or the omission from the specification of a detailed description concerning any point shall be regarded as meaning that only the best commercial practices are to prevail, and that only materials and workmanship of first quality are to be used. All interpretations of this specification shall be made upon the basis of this agreement.

**Section 1.23: Parts and Service**

Bidders shall furnish with their bid submittal a statement identifying where parts and service for the apparatus offered are available to the County.

**Section 1.24: Patents and Royalties**

A. The Contractor, without exception, shall indemnify and hold harmless the County, its employees and officers from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or un-patented invention, process or article provided by the Contractor. The Contractor has no liability when such claim is solely and exclusively due to the combination, operation, or use of any article supplied hereunder with equipment or data not supplied by the Contractor or is based solely and exclusively upon the County's alteration of the article. The County will provide prompt written notification of a claim of copyright or patent infringement.

B. Further, if such a claim is made or is pending, the Contractor may, at its options and expenses, procure for the County the right to continue use of, replace or modify the article to render it non-infringing. (If none of the alternatives are reasonably available, the County agrees to return the article on request to the contractor and receive full reimbursement of all monies paid to the Contractor). If the Contractor uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid proposal price(s) include all royalties and/or costs arising from the use of such design, device or materials in any way involved in the work.

C. The Contractor will defend, at its own expense, any action brought against the County to the extent that it is based on a claim that the article supplied by the Contractor under the contract infringes a patent, industrial design, or any other similar right, and the Contractor will pay any costs and damages finally awarded against the County in any such action, where they are attributable to any such claim, but such defense and payments are conditional on the following:

- the Contractor will be notified promptly in writing by the County of any notice of such claim received by the County, and
- the Contractor will have the sole control of the defense of any action or such claims, and all negotiations for its settlement or compromise.

**Section 1.25: Purchase of Other Items Not Listed Within this Solicitation Based on Price Quotes**

While the County has listed major items within this solicitation which are utilized by County departments in conjunction with their operations, there may be ancillary or similar items that must be purchased by the County during the term of this contract. Under these circumstances, a County representative will contact the primary vendor to obtain a price quote for the ancillary items. If there are multiple vendors on the contract, the County representative may also obtain price quotes from these vendors. The County reserves the right to award these ancillary items to the primary contract vendor, another contract vendor based on the lowest price quoted, or to acquire the items through a separate solicitation.

**Section 1.26: Repairs and Parts Manuals to be provided**

The vendor shall supply the County with a minimum of three (3) comprehensive repair and parts manuals which identify the component parts, and which describe the appropriate process for repairing the equipment purchased by the County in conjunction with this solicitation. The manuals shall be supplied prior to, or upon, delivery of the equipment. Final payment shall be withheld until such time as these manuals are received by the County.

The service parts information included in these manuals should also be available on the factory website.

A CD format service manual supplement containing parts and service information on factory installed components shall also be provided with the completed unit.

The manual shall be specifically written for the unit being purchased. It shall not be a generic manual for a multitude of different units.

**Section 1.27: Rebates and Special Promotions**

All administrative credits issued, rebates and/or special promotions offered by a manufacturer during the term of the contract shall be passed on by the vendor(s) to the County. It shall be the responsibility of the vendor to notify the County of such credits, rebates and/or special promotions during the contract period and/or attached to Section 4, Pricing Section, of the vendor(s) bid response.

Special promotions shall be offered by the vendor(s) to the County provided that the new price charged for the item(s) is lower than would otherwise be available through the contract. It is understood that these special promotions may be of a limited duration. At the end of such promotion, the standard contract price shall prevail.

**Section 1.28: Service Facilities shall be Available from Reliable Sources in Central Florida**

While this solicitation is for the acquisition of equipment, offers will only be accepted from vendors which can certify that service facilities will be available from reliable sources in Central Florida (defined as Lake, Osceola, Orange, Seminole, Volusia, Marion, Polk, and Sumter counties) for parts and repairs. As part of its initial offer, the vendor shall either certify through a written statement that the vendor has its own facility within the stated area for servicing the equipment, or certify through a written agreement with an alternate source, that this alternate source will be available for servicing the equipment that will be provided by the vendor. If this certification is not provided with the initial offer, the vendor may be given the opportunity to submit the certification to the County during the offer evaluation period should such action be considered to be in the best interest of the County.

The County reserves the right to perform an inspection of these service facilities during the offer evaluation period, and any time during the term of the contract, and to use this inspection as a means for determining the vendor to which award will be made under this solicitation. The acceptability of the size, location, level of security, and overall functionality of the service facility shall be determined by the County in consideration of the contract requirements. The County's best interests shall prevail in this regard, and the decision of the County shall be final.

**Section 1.29: Special Notice to Vendors Regarding Federal and/or State Requirements**

Upon award of a contract resulting from this solicitation, the vendor shall utilize the U.S. Department of Homeland Security's E-Verify system in accordance with the terms governing use of the system to confirm the employment eligibility of:

- 1) All persons employed by the vendor during the term of the contract to perform employment duties within Lake County; and
- 2) All persons, including subcontractors, assigned by the vendor to perform work pursuant to the contract.

**Section 1.30: Trade-In Allowances**

It is hereby understood that if the County wishes to trade in existing equipment in exchange for the new equipment specified in this solicitation, a trade-in allowance shall be quoted by the contractor and applied to the purchase cost of any apparatus ordered by issuance of a purchase order. Apparatus being used for trade in may be inspected by contacting Chief John Dickerson at 352.343.9458 for an appointment. The trade-in equipment shall be removed from the County premises at no cost to the County.

**Section 1.31: Training Program**

The vendor shall provide sufficient comprehensive operator training program for the Lake County Public Safety employees regarding the use of the fire apparatus supplied by the vendor in conjunction with this solicitation. The vendor shall bear all costs of manuals and texts, or other instructional materials associated with the required training.

**Section 1.32: Training Manuals to be provided**

The vendor shall supply the county with a minimum of three (3) comprehensive training manuals which describe the appropriate use of the equipment purchased by the County in conjunction with this solicitation. The manuals shall be supplied prior to, or upon, delivery of the equipment. Final payment shall be withheld until such time as these manuals are received by the County.

**Section 1.33: Vehicle Documents**

The contractor shall deliver all necessary documentation required for licensing the furnished apparatus to Lake County Fleet Management Division, 20423 Independence Boulevard, Groveland, FL, 34736.

Vehicles shall be titled:

Board of County Commissioners  
Lake County, Florida  
PO Box 7800  
315 W Main St  
Tavares, Florida 32778-7800

Bid prices shall include the cost of vehicle titles. Titling procedures shall be in accordance with the rules and regulation of the Department of Highway Safety and Motor Vehicles which require the contractor to obtain title for the purchaser.

Units shall be delivered with each of the following documents completed:

1. Statement of origin
2. Warrant certificates (including rust proofing warranty)
3. Copy of pre-delivery service report
4. Copy of manufacturers invoice to dealer, price may be deleted
5. Application for certification of title and/or vehicle registration
6. Check for title
7. Temporary tag and 20 day extension tag
8. Any additional documentation that may be required at no additional costs

**Section 1.34: Public Records**

Pursuant to Section 119.0701, Florida Statutes, the awarded contractor shall comply with the Florida Public Records' laws, and shall:

- 1) Keep and maintain public records that ordinarily and necessarily would be required by the County in order to perform the services identified herein.
- 2) Provide the public with access to public records on the same terms and conditions that the County would provide the records and at a cost that does not exceed the cost provided for by law.

- 3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
- 4) Meet all requirements for retaining public records and transfer, at no cost, to the County all public records in possession of the contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the County.

Failure to comply with this section shall be deemed a breach of the contract and enforceable as set forth in Section 119.0701, Florida Statutes.

**SCOPE / SPECIFICATIONS**

The purpose of this solicitation is to establish a contract with a single bidder for: (1) an initial purchase of the fire apparatus specified in the Pricing Section and, (2) to provide for an indefinite quantity contract with the awarded contractor for future purchases of various hereto specified and unspecified fire apparatus.

Only apparatus proposed from companies which are actively engaged in manufacturing apparatus comparable and have been in the business for a minimum of fifteen years with an established favorable reputation shall be considered.

Items that may be purchased under resulting contract include:

- Aerial Vehicle and all associated Vehicular Apparatus
- Pumper Fire Vehicle and all associated Vehicular Apparatus
- Heavy Rescue/Mobile Command Vehicle and all associated Vehicular Apparatus
- Pumper/Tender Vehicle and all associated Vehicular Apparatus
- Water Tender Vehicle and all associated Vehicular Apparatus
- Wildland Interface Vehicle and all associated Vehicular Apparatus
- Mini and Midi Pumper Vehicle and all associated Vehicular Apparatus

**CONTRACT ACCESS REMITTANCE**

A one-half percent (0.5%) contract access remittance shall be provided to Lake County for other public entities and/or special fire districts that access the resulting contract. A quarterly report will be provided by the awarded contractor showing entities that have accessed the contract, along with their respective anticipated delivery dates. Lake County invoice reductions would be based solely on apparatus deliveries that were completed and had been paid for by the other entity or district. Upon termination of the contract, any unpaid access fees would be settled by cash remittance (check) once the units had been delivered.

**GENERAL**

It is the intent of these specifications to describe the furnishings and delivery to the County, a complete fire apparatus (hereafter “apparatus”) equipped as specified herein. These specifications cover specific requirements as to the type of construction and tests the apparatus must conform, together with certain details as to finish, material preferences, equipment and appliances with which the successful bidder shall conform.

Apparatus furnished under this contract shall be built for the US market.

The design of the apparatus shall embody the latest approved automotive design practices. The workmanship shall be of the highest quality in its respective field. Construction shall be heavy duty and ample safety factors must be provided to carry loads as specified. The construction method employed shall allow ready removal of any component for service or repair.

The apparatus shall conform to the National Fire Protection Association Standard for Automotive Fire Apparatus, in its most recent edition, unless otherwise specified in this document. Only the specified firefighting support equipment listed in these specifications shall be provided.

The apparatus shall further conform to all Federal Motor Vehicles Safety Standards.

Each bidder shall furnish satisfactory evidence of their ability to design; engineer and construct the apparatus specified and shall state the location of the factory producing the apparatus. They shall also substantiate they are in a position to render prompt and proper service and to furnish replacement parts for the apparatus.

An all aluminum body per specifications is required. The body shall be extruded construction design. Formed plate construction is not acceptable.

Aluminum bodies mounted on steel sub-frames are not acceptable. To eliminate mixture of dissimilar metal, only aluminum sub-frames shall be considered.

All aerial devices shall have certified Type 1 aerial testing. Custom cabs shall be certified through a third part crash test program.

The County requires that a representative of the contractor attend a Pre-Construction Conference to finalize technical specifications for each type model to be purchased. The Director of Public Safety shall confer with the Contractor to schedule a date for each conference. A final pre-production drawing of the apparatus shall be prepared by the Contractor and be approved by the County prior to construction commencing. This drawing shall become part of the total contract and it shall show, but not limited to, such items as the chassis being utilized; lights; horns; sirens; compartment location and dimensions; etc. Print is to be a visual interpretation of the apparatus to be built. One copy of the final drawing shall be left with the Department of Public Safety and one copy shall be given to the Office of Procurement Services for record retention.

Each bid shall be accompanied by a set of detailed specifications consisting of a detailed description of the apparatus and equipment proposed. All bid proposal specifications shall be in the same sequence as the advertised specification for ease of comparison. These specifications shall include size, location, type and model of all component parts being furnished. Detailed information shall be provided on the materials used to construct all facets of the apparatus body.

The bidder shall include as part of their bid a list of recommended OEM replacement parts and optional equipment to include guaranteed delivery time (standard and emergency) guaranteed pricing or price structure and/or discount terms to apply.

The bidder shall be able to supply ninety percent (90%) of parts required to maintain this equipment within 24 hours and have access to the remaining ten percent (10%) of parts within 72 hours.

The bidder shall supply upon request original manufacturer part numbers crossover for parts which are not manufactured by the equipment manufacturer after the award of contract and prior to delivery of equipment.

The bidder shall include as part of their bid suggested stocking levels of replacement parts (See Attachment A).

On line parts ordering systems are preferred. Demonstrations and a recommended parts inventory list may be required.

Documentation provided at the time of delivery shall also include an apparatus safety video, in DVD format. This video shall address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus. Safety procedures for the following shall be included: vehicle pre-trip inspection, chassis operation, pump operation, and maintenance.

The pump shall be tested, approved and certified by an independent third party testing agency at the manufacturer's expense.

The County shall not be held liable for costs associated with Change orders for which they are not properly notified.

The contractor shall notify the County, in writing, of any changes on any apparatus ordered. All change orders shall be approved by the Department of Public Safety's Director **prior** to work being performed.

Written change order requests shall include:

1. Changes to be made (i.e.; chassis and/or chassis components; equipment and/or equipment components
2. Any additional time associated with changes
3. Any additional costs associated with changes

The County reserves the right to make minor changes to the awarded bid apparatus prior to ordering.

The awarded contractor shall provide all transportation, lodging and meals for up to three (3) County employees which are reasonable and in accordance with County policy to travel to the contractors manufacturing facilities where the apparatus shall be constructed for a total of two (2) nights minimum per trip if said facility is out of the State of Florida or more than two hundred fifty (250) miles from Tavares, Florida. Commercial air travel is the preferred method of transportation round trip from the Orlando International Airport. The County will coordinate with the awarded Contractor at least three weeks prior to a scheduled visit.

The County visits shall be:

1. A preconstruction meeting required to completely review the specifications and the drawings prior to the apparatus assembly/construction assembly.
2. Final inspection/performance test. The apparatus shall be 100% complete and ready for delivery. The County shall perform a final inspection and full performance test of the apparatus and all integral systems. The Contractor shall provide technical information and authorized representatives to allow for a complete and thorough conformance meeting inspection. All third part certifications shall be available for review at this meeting.
3. Additional trips may be required to the apparatus fails to be ready and in compliance at the expense of the Contractor with no additional costs to the County.

A road test shall be conducted with the apparatus full loaded and a continuous run of ten (10) or more miles will be made under all driving conditions, 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.

Vehicle shall adhere to the following parameters:

1. The front to rear weight distribution of the full loaded vehicle (as defined by applicable NFPA guidelines) shall be within the limits set by the chassis manufacturer. The front axle load shall not be less than the minimum axle loads specified by the chassis manufacturer, under full load and all other loading conditions.
2. The apparatus shall be capable of accelerating to thirty five (35) mph from a standing start within twenty five (25) seconds on a level concrete highway without exceeding the maximum governed rpm of the engine.
3. The service brakes shall be capable for stopping the fully loaded vehicle in thirty five (35) feet at twenty (20) mph on level concrete highway.
4. The apparatus, fully loaded, shall be capable of obtaining a speed of 60 mph on a level concrete highway with the engine not exceeding its governed rpm.

In the event the apparatus fails to meet the test requirements of these specifications on the first trial, second trials may be conducted at the request of the contractor and the approval of the County within thirty (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. Failure to comply with changes as the County may consider necessary to conform to any clause of the specifications with thirty (30) days after notice is given to the contractor of such changes shall also be cause for rejection of the apparatus. Permission to keep or store the apparatus in any building owned or occupied by the County or its use by the County during the above specified period with the permission of the contractor shall not constitute acceptance.

**DETAIL SPECIFICATIONS FOR A TRIPLE COMBINATION PUMPER**

If it is necessary to bid alternate equipment or to take exceptions to specification requirements, this must be so stated in your bid. For each item, please place a **Y- (Yes) or N-(No)** in the appropriate space to signify whether or not you are in complete compliance with the specification. Failure to follow the format or answer the specification may cause your bid to be disqualified. If you need extra space to describe your product, please feel free to attach extra sheets. When doing this, be sure your description references the appropriate title and page number.

**NOTE: Brand names are intended to be descriptive and not restrictive, and are included to indicate the quality and characteristics of the product or service that will be acceptable. If offering an alternate product, please note that alternate product or service descriptive materials must be submitted with the Bid for the County to determine if the product or service offered meets the required specification.**

**CHASSIS**

The chassis shall be a Freightliner FL-106 Comply: (Y/N) \_\_\_\_\_

**SEATING CAPACITY**

The seating capacity in the cab shall be five (5). Comply: (Y/N) \_\_\_\_\_

**WHEELBASE**

The wheelbase of the vehicle shall be no greater than 246 inches. Comply: (Y/N) \_\_\_\_\_

**GVW RATING**

The gross vehicle weight rating shall be a minimum of 40,600 pounds. Comply: (Y/N) \_\_\_\_\_

**FRAME**

The frame rails shall be formed from 120,000 psi yield, heat treated alloy steel. Comply: (Y/N) \_\_\_\_\_

**FRONT AXLE**

Front axle, Meritor, 16,000 pounds. Shall be Freightliner M2-106/112 4 X 2 ground rating capacity of 16,000 pounds. Comply: (Y/N) \_\_\_\_\_

**FRONT SUSPENSION**

Spring Mounted: 8-Leaf, 54.00" x 4.00" Comply: (Y/N) \_\_\_\_\_

Capacity at ground (2 springs): 14,660 pounds. Comply: (Y/N) \_\_\_\_\_

Shock Absorbers: Double Acting Comply: (Y/N) \_\_\_\_\_

Shock absorbers shall be provided on the front axle. Comply: (Y/N) \_\_\_\_\_

**REAR AXLE**

Rear axle, Meritor RS, Freightliner 26,000 pounds. Comply: (Y/N) \_\_\_\_\_

The brake chambers shall be forward mounted and brakes shall be 16.50" x 7.00", S-Cam type. Comply: (Y/N) \_\_\_\_\_

**PARKING BRAKE**

The parking brake shall be spring set and located on the rear axle service brake. Comply: (Y/N) \_\_\_\_\_

**REAR AXLE RATIO**

The ratio of the rear axle shall be provided by the chassis manufacturer. The maximum top speed shall be in accordance with NFPA 1901. Comply: (Y/N) \_\_\_\_\_

**REAR SUSPENSION**

The rear suspension shall be a Hendrickson spring mounted, 14-leaf with a capacity at ground of 31,000 pounds. Comply: (Y/N) \_\_\_\_\_

Auxiliaries shall be included and the deflection rate shall be variable. Comply: (Y/N) \_\_\_\_\_

**DUST SHIELDS**

The front and rear brakes shall be provided with dust shields. Comply: (Y/N) \_\_\_\_\_

**ANTI-LOCK BRAKE SYSTEM**

The vehicle shall be equipped with an anti-lock braking system. The ABS shall provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. When any particular wheel begins to lockup, a signal is to be sent to the control unit. This control unit then shall reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system shall eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control. Comply: (Y/N) \_\_\_\_\_

**FRONT BRAKES**

The front brakes shall be S-Cam, 16.50" x 6.00". Comply: (Y/N) \_\_\_\_\_

**EXHAUST BRAKE**

An exhaust brake with an integral variable geometry turbo (VGT) style, Freightliner with Cummins will be provided. The control will be located on instrument panel within easy reach of the driver. Comply: (Y/N) \_\_\_\_\_

**AIR COMPRESSOR, BRAKE SYSTEM**

The air compressor shall be a Wabco Cummins with 18.7 cubic feet per minute output. Comply: (Y/N) \_\_\_\_\_

**AIR DRYER**

A Bendix AD-IP air dryer with a heater shall be provided. Comply: (Y/N) \_\_\_\_\_

**AIR INLET**

A single air inlet with male coupling shall be provided. It shall allow station air to be supplied to

the apparatus brake system through a shoreline hose. The inlet shall be located on the driver side of pump panel. A check valve shall be female coupling shall also be provided with the loose equipment. Comply: (Y/N) \_\_\_\_\_

### **AIR OUTLET**

One (1) air outlet shall be installed with a female coupling and shut off valve, located on the driver side of pump panel. This system shall tie into the "wet" tank of the brake system and include an 85 psi pressure protection valve in the outlet line to prevent the brake system from losing all air. Comply: (Y/N) \_\_\_\_\_

A mating male fitting shall be provided with the loose equipment. Comply: (Y/N) \_\_\_\_\_

### **AIR TANK, ADDITIONAL**

An additional air tank with 1454 cubic inch displacement shall be provided to increase the capacity of the main air brake system. This tank shall be plumbed into the rear half of the brake system. Comply: (Y/N) \_\_\_\_\_

The output flow of the engine air compressor shall vary with engine rpm. Full compressor output shall only be achieved at governed engine speed. Engine speed shall be limited by generators, pumps and other PTO driven options. Comply: (Y/N) \_\_\_\_\_

### **ENGINE**

- Model: Cummins Comply: (Y/N) \_\_\_\_\_

- Number of Cylinders: Six (6) Comply: (Y/N) \_\_\_\_\_

- Bore and Stroke: 4.49" x 5.31" Comply: (Y/N) \_\_\_\_\_

- Displacement: 506 cubic inches Comply: (Y/N) \_\_\_\_\_

- Compression Ratio: 16.60:1 Comply: (Y/N) \_\_\_\_\_

- Rated Brake Horsepower: 350 at 2000 rpm Comply: (Y/N) \_\_\_\_\_

- Peak Torque: 1000 at 1400 rpm Comply: (Y/N) \_\_\_\_\_

- Governed rpm: 2200 Comply: (Y/N) \_\_\_\_\_

- Turbocharger Comply: (Y/N) \_\_\_\_\_

- Charge Air Cooled Comply: (Y/N) \_\_\_\_\_

- Combustion System: Hydraulically actuated electronically controlled unit injectors (HEUI)  
Comply: (Y/N) \_\_\_\_\_

**ENGINE ACCESSORIES**

- Fan Clutch: Electric with nylon fan Comply: (Y/N) \_\_\_\_\_
- Air Cleaner: Dry type, with restriction indicator in cab Comply: (Y/N) \_\_\_\_\_
- Fuel Filters: Dual, with check valve Comply: (Y/N) \_\_\_\_\_
- Governor: Limiting speed type Comply: (Y/N) \_\_\_\_\_
- Lube Oil Cooler Comply: (Y/N) \_\_\_\_\_
- Lube Oil Filter: Full flow Comply: (Y/N) \_\_\_\_\_
  
- Starting Motor: 12-volt Comply: (Y/N) \_\_\_\_\_
- Oil Fill and Level Gauge Comply: (Y/N) \_\_\_\_\_
- Hand Operated, Re-prime Pump Comply: (Y/N) \_\_\_\_\_

**ENGINE INSTALLATION CERTIFICATION**

The fire apparatus manufacturer shall provide, at the time of bid, a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The approval of the engine installation shall be at full horsepower rating in a continuous duty application under all operating conditions, including road and pump. No type of automatic horsepower reduction feature shall be allowed. Comply: (Y/N) \_\_\_\_\_

There shall be no exception to any portion of the engine installation certification. Nonconformance shall lead to immediate rejection of bid. Comply: (Y/N) \_\_\_\_\_

**RADIATOR**

- Pressurized System, Tube, and Fin Comply: (Y/N) \_\_\_\_\_
- Deaeration Tank and Sight Glass Comply: (Y/N) \_\_\_\_\_
- Anti-Freeze Protection to -30 Degrees Fahrenheit Comply: (Y/N) \_\_\_\_\_

**AIR INTAKE, w/EMBER SEPARATOR**

The air inlet shall be equipped with a stainless steel mesh to separate water and burning embers from the air intake system such that particulate matter larger than 0.039 in. (1.0 mm) in diameter cannot reach the air filter element. Comply: (Y/N) \_\_\_\_\_

This shall be in compliance with NFPA 1901 and 1906 standards. Comply: (Y/N) \_\_\_\_\_

**EXHAUST SYSTEM**

The exhaust system shall include a diesel particulate filter (DPF) and a selective catalytic reduction (SCR) device to meet current EPA standards. The DPF shall be mounted horizontally

outside of the frame rails in the passenger side front step. The exhaust shall terminate with horizontal tailpipe and diffuser ahead of passenger side rear wheels. Comply: (Y/N) \_\_\_\_\_

A heat deflector shield shall be provided where the tailpipe is routed under any side compartmentation. Comply: (Y/N) \_\_\_\_\_

**FUEL/WATER SEPARATOR**

An Alliance fuel/water separator shall be provided on the chassis. Comply: (Y/N) \_\_\_\_\_

**FUEL PRIMER PUMP**

Fuel primer pump will be included with the fuel/water separator. Comply: (Y/N) \_\_\_\_\_

**HIGH IDLE**

A high idle switch shall be provided, inside the cab, on the instrument panel, that shall automatically maintain a preset engine rpm. A switch shall be installed, at the cab instrument panel, for activation/deactivation. Comply: (Y/N) \_\_\_\_\_

The high idle shall be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light shall be provided, adjacent to the switch. The light shall illuminate when the above conditions are met. The light shall be labeled "OK to Engage High Idle". Comply: (Y/N) \_\_\_\_\_

**COOLANT LINES**

All hoses shall be Silicone used for coolant lines installed by the chassis manufacturer. They shall include the following:

- Cab Heater Hose (outside cab only) Comply: (Y/N) \_\_\_\_\_

Hose clamps shall be "constant torque type" to prevent coolant leakage. They shall react to temperature changes in the cooling system and expand or contract accordingly while maintaining a constant clamping pressure on the hose. Comply: (Y/N) \_\_\_\_\_

**FUEL TANK**

A 70-gallon fuel tank shall be provided and mounted at the right-hand cab step. The tank shall be constructed of welded steel. Comply: (Y/N) \_\_\_\_\_

**TRANSMISSION**

An Allison, model 3000 EVS, electronic torque converting automatic transmission shall be provided. **Programmed in Performance Mode** Comply: (Y/N) \_\_\_\_\_

Two (2) PTO openings shall be located on left side and top of converter housing (positions 8 o'clock and 4 o'clock). Comply: (Y/N) \_\_\_\_\_

A transmission temperature gauge or warning light shall be installed on cab instrument panel. Comply: (Y/N) \_\_\_\_\_

**TRANSMISSION SHIFT CONTROL**

A push button shift module shall be mounted to right of driver. Shift position indicator shall be indirectly lit for after dark operation. Comply: (Y/N) \_\_\_\_\_

The transmission shall be a 5 speed. The transmission ratio's shall be 1st - 3.49 to 1.00, 2nd - 1.86 to 1.00, 3rd - 1.41 to 1.00, 4th - 1.00 to 1.00, 5th - 0.75 to 1.00, R - 5.03 to 1.00.

Comply: (Y/N) \_\_\_\_\_

**TRANSMISSION COOLER**

A transmission oil cooler shall be provided in the lower tank of the radiator.

Comply: (Y/N) \_\_\_\_\_

**DRIVELINE**

Drivelines shall be a heavy duty metal tube equipped with universal joints properly sized for the application. A splined slip joint shall be provided in each driveshaft. Comply: (Y/N) \_\_\_\_\_

**STEERING**

Steering shall consist of a hydraulically driven Sheppard, model M100, steering system.

Comply: (Y/N) \_\_\_\_\_

The steering wheel shall have an 18.00" diameter and also tilt feature. Comply: (Y/N) \_\_\_\_\_

**TIRES, FRONT**

Front tires shall be Goodyear 12R22.50, radial highway tread with a capacity of 14,780 pounds.

Comply: (Y/N) \_\_\_\_\_

**WHEELS, FRONT**

Wheels for the front axle shall be 22.50" x 8.25" aluminum disc, ten (10)-hole pattern.

Comply: (Y/N) \_\_\_\_\_

**TIRES, REAR**

Rear tires shall be Goodyear 12R22.50 XZY3, 16-ply traction tread. Tires shall meet or exceed the weight rating of the axle and/or suspension.

Comply: (Y/N) \_\_\_\_\_

**WHEELS, REAR**

The rear wheels shall be 22.50" x 8.25" aluminum disc with a ten (10)-hole pattern.

Comply: (Y/N) \_\_\_\_\_

**WHEEL CHOCKS**

There shall be one (1) set of folding Ziamatic SAC-44-E, aluminum alloy, Quick-Choc wheel blocks with easy-grip handle and SQCH-44-H horizontal mounting brackets provided. The chocks shall be mounted in the left front compartment.

Comply: (Y/N) \_\_\_\_\_

**MUD FLAPS**

Mud flaps shall be installed behind the rear wheels of the apparatus. Comply: (Y/N) \_\_\_\_\_

**CAB**

Type: Four (4) Doors, High roof cab (engine forward) Comply: (Y/N) \_\_\_\_\_

Construction: Welded Steel and Fiberglass Comply: (Y/N) \_\_\_\_\_

Accessories: Comply: (Y/N) \_\_\_\_\_

- Tinted Glass in all Windows
- Rubber Floor Mats, Gray in color
- Dual Sun-Visors
- 18.00" Cab Entrance Handrails - 1.28" diameter extruded aluminum with rubber inserts one (1) each side
- Dome Light with Map Light
- Fresh Air Heater and Defroster
- Fiberglass Front End, Three (3) Piece Construction
- Hood Mounted Chrome Grille
- Composite Aero Design Halogen Headlights, Chrome Bezels
- Daytime Running Lights
- Air Ride Cab Suspension
- Gray Vinyl Upholstery

**CAB ACCESS STEPS**

The left-hand cab step shall be provided by the apparatus manufacturer. The left-hand cab step shall be a two (2) step design fabricated from bright aluminum tread plate. The step assembly shall completely cover the batteries and air tanks. Access shall be provided to the chassis batteries. Comply: (Y/N) \_\_\_\_\_

The right-hand cab step shall be provided by the apparatus manufacturer. The right-hand cab step shall be a two (2) step design fabricated from bright aluminum tread plate. The step assembly shall completely cover the chassis fuel tank. The fuel tank fill cap shall be exposed for refueling. Comply: (Y/N) \_\_\_\_\_

**COMPARTMENT, STORAGE**

A storage compartment shall be provided under the crew cab in both the left side and right side step areas. An aluminum tread plate drop-down door with a rubber seal shall be provided on the compartment. The door shall have a single pan construction. Comply: (Y/N) \_\_\_\_\_

**MIRRORS**

West Coast Style heated, remote operated mirrors constructed from a molded composite material with a bright finish will be provided. A heated 8.00” convex mirror shall be included below the primary mirrors. An auxiliary down view mirror shall be included on the passenger side.

Comply: (Y/N) \_\_\_\_\_

**BUMPER**

A one (1) piece, 10.00" high, stainless steel bumper, shall be attached to the front of the frame.

Comply: (Y/N) \_\_\_\_\_

A 9.00" channel shall be mounted directly behind the bumper for additional strength.

Comply: (Y/N) \_\_\_\_\_

The bumper shall be extended 16.00" from front face of cab.

Comply: (Y/N) \_\_\_\_\_

**HOSE TRAY**

A hose tray, constructed of aluminum, shall be placed in the center of the bumper extension.

Comply: (Y/N) \_\_\_\_\_

The tray shall have a capacity of 100' of 1.75" double jacket cotton-polyester hose.

Comply: (Y/N) \_\_\_\_\_

Black rubber grating shall be provided at the bottom of the tray. Drain holes are also provided.

Comply: (Y/N) \_\_\_\_\_

**GRAVEL PAN**

A gravel pan, constructed of bright aluminum tread plate, shall be furnished between the bumper and cab face.

Comply: (Y/N) \_\_\_\_\_

The gravel pan shall be properly supported from the underside to prevent flexing and vibration of the aluminum tread plate.

Comply: (Y/N) \_\_\_\_\_

**HOSE HOLD DOWN STRAP**

One (1) hose trays shall have a pair of 1.875" wide black nylon strap(s), with Velcro fasteners, provided. The strap(s) shall be used to secure the hose in the tray.

Comply: (Y/N) \_\_\_\_\_

**TOW HOOKS**

Two (2) chromed steel tow hooks shall be installed under the bumper and attached to the front frame members. The tow hooks shall be designed and positioned to allow up to a 6,000 pound straight horizontal pull in line with the centerline of the vehicle. The tow hooks shall not be used for lifting of the apparatus.

Comply: (Y/N) \_\_\_\_\_

**SEATING**

Seating inside the cab shall consist of an air-ride driver seat and a Seats Inc. 911, SCBA officer seat.

Comply: (Y/N) \_\_\_\_\_

**SEATING (crew cab)**

Three (3) individual, Seats Inc. 911, SCBA style seats shall be provided. Comply: (Y/N) \_\_\_\_\_

**AIR BOTTLE HOLDERS**

A Ziamatic model ULLH SCBA holder shall be mounted in the back rest of the SCBA seat. This bracket shall be compliant with NFPA 1901-04 Section 14.1.10.1 and shall include a back plate, two seats, a footplate and the model LLS ("Load & Lock") strap to hold the bottle in the bracket. The bracket seats shall be a "one size fits all" style seat and shall accommodate SCBA cylinders from the high pressure 30-minute to the high pressure 60-minute. Seats shall be adjustable up and down by unbolting, relocating, and rebolting in the desired position. There shall be a quantity of three (3). Comply: (Y/N) \_\_\_\_\_

**ENGINE COMPARTMENT LIGHTS**

Two (2) engine compartment lights shall be installed under the engine hood, of which the switches are an integral part. Comply: (Y/N) \_\_\_\_\_

**STEP LIGHTS**

There shall be eight (8) Ri-Tar, Model M27, clear LED step lights provided. There shall be two (2) lights installed at each cab and crew cab door, one (1) light per doorstep. The lights shall be activated when the adjacent door is opened. Comply: (Y/N) \_\_\_\_\_

**AIR CONDITIONING**

An air conditioner shall be provided that is integral with heater and defroster system. In addition, another evaporator core shall be provided for more cooling capacity in the crew cab. Auxiliary air conditioner shall be provided for rear area of cab. Comply: (Y/N) \_\_\_\_\_

The system shall deliver a 12,000 BTU/hour in the air conditioning mode when tested per SAE J1484 with inlet air conditions of 80 degrees F. dry bulb and 67 degrees F. wet bulb. Comply: (Y/N) \_\_\_\_\_

Includes Hydrofluorocarbon HFC-134A refrigerant Comply: (Y/N) \_\_\_\_\_

**CAB INSTRUMENTS**

- Engine Temperature Gauge and Warning Buzzer Comply: (Y/N) \_\_\_\_\_

- Engine Oil Pressure Gauge and Warning Buzzer Comply: (Y/N) \_\_\_\_\_

- Speedometer with Odometer Comply: (Y/N) \_\_\_\_\_

- Engine Tachometer Comply: (Y/N) \_\_\_\_\_

- Engine Hour meter Comply: (Y/N) \_\_\_\_\_

- Fuel Level Gauge Comply: (Y/N) \_\_\_\_\_

- Voltmeter: Low voltage red warning light and audible alarm Comply: (Y/N) \_\_\_\_\_

- Air Brake Pressure Gauge Comply: (Y/N) \_\_\_\_\_
- Air Restriction Indicator Comply: (Y/N) \_\_\_\_\_
- Circuit Breakers: For overload protection of electric circuits Comply: (Y/N) \_\_\_\_\_
- Ignition Switch: Keyless type Comply: (Y/N) \_\_\_\_\_
- Windshield Wiper Control with intermittent feature Comply: (Y/N) \_\_\_\_\_
- Windshield Washer Controls Comply: (Y/N) \_\_\_\_\_

**STORAGE CONSOLE**

There shall be a console located between the front seats, with room for emergency switches and map storage. There shall be an area approximately 8.50" x 21.75" for switching, pump shift and siren. There shall be four sections for map storage. Each section shall be approximately 5.00" wide x 13.00" long x 12.25" deep. The console shall be constructed of smooth aluminum and painted black. Comply: (Y/N) \_\_\_\_\_

**BATTERY SYSTEM**

A single starting battery system shall be provided consisting of three (3)-12 volt, 700 CCA, maintenance-free, group 31 batteries. Comply: (Y/N) \_\_\_\_\_

The batteries system shall have a total of 2100 CCA with a minimum reserve capacity of 540 minutes. Comply: (Y/N) \_\_\_\_\_

**MASTER BATTERY SWITCH**

A master battery switch, to activate the battery system, shall be provided inside the cab within easy reach of the driver. Comply: (Y/N) \_\_\_\_\_

The master battery disconnect switch shall be wired between the starter solenoid and the remainder of the electrical loads on the apparatus. Comply: (Y/N) \_\_\_\_\_

A green "battery on" indicator light, visible from the driver's position shall be provided. Comply: (Y/N) \_\_\_\_\_

**BATTERY CHARGER/ AIR COMPRESSOR**

A Kussmaul Pump Plus 1200 single output battery charger/air compressor system shall be provided. A bar graph display indicating the state of the battery charge shall be mounted on the driver's side pump panel. Comply: (Y/N) \_\_\_\_\_

The automatic charger shall maintain a single battery system with a maximum output current of 40 amps. Comply: (Y/N) \_\_\_\_\_

The 12-volt air compressor shall be provided to maintain the air system pressure when the vehicle is not in use. A selector switch shall be provided on the charger to operate the air compressor either as a DC compressor or as an AC compressor. If the selector switch is in the DC position the compressor shall operate whenever the pressure switch senses low system

pressure, however if in the AC position the shoreline inlet must be plugged in before the compressor shall operate. Comply: (Y/N) \_\_\_\_\_

The battery charger/compressor shall be wired to the 120-volt shoreline to activate automatically when power is connected. The shoreline shall be installed on the driver's side pump panel. Comply: (Y/N) \_\_\_\_\_

Battery charger/compressor shall be located in the front left body compartment and shall be covered in aluminum for protection. Comply: (Y/N) \_\_\_\_\_

**KUSSMAUL AUTO EJECT FOR SHORELINE**

One (1) shoreline receptacle shall be provided to operate the dedicated 120-volt circuits on the truck without the use of the generator. Comply: (Y/N) \_\_\_\_\_

The shoreline receptacle (s) shall be provided with a NEMA 5-20, 120 volt, 20-amp, straight blade Kussmaul auto eject plug with a yellow weatherproof cover. The cover is spring loaded to close, preventing water from entering when the shoreline is not connected. Comply: (Y/N) \_\_\_\_\_

A solenoid wired to the vehicle's starter is energized when the engine is started. This instantaneously drives the plug from the receptacle. Comply: (Y/N) \_\_\_\_\_

The shoreline shall be connected to the on-board battery charger. Comply: (Y/N) \_\_\_\_\_

A mating connector body shall also be supplied with the loose equipment. Comply: (Y/N) \_\_\_\_\_

The shoreline receptacle shall be located on the driver side of pump panel. Comply: (Y/N) \_\_\_\_\_

**ELECTRICAL SYSTEM**

Alternator: Delco Remy 40SI quadra-mount, with remote battery voltage sensor and capacity of 12-volt 275 amperes. Comply: (Y/N) \_\_\_\_\_

The alternator shall be provided with a 2.40" diameter pulley. Comply: (Y/N) \_\_\_\_\_

The pulley shall increase alternator output at engine idle, allowing the apparatus to meet or exceed current N. F. P. A. 1901 testing. Comply: (Y/N) \_\_\_\_\_

**ELECTRICAL WIRING DIAGRAMS**

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, shall be provided. Comply: (Y/N) \_\_\_\_\_

**RADIO ANTENNA MOUNT**

An antenna mounting base, Model MA with 17 feet of coax cable and weatherproof cap shall be provided for a two way radio. The mount shall be located on the cab roof just to the rear of the front cab seats. The cable shall be routed to center console, with enough cable for the customer

to route to the instrument panel twelve (12) inches minimum from the light bar if needed.  
Comply: (Y/N) \_\_\_\_\_

Two (2) shall be provided. Comply: (Y/N) \_\_\_\_\_

**SPARE CIRCUIT**

There shall be two (2) pair of wires installed. Comply: (Y/N) \_\_\_\_\_

The above wires shall have the following features:

Wires shall be connected directly to the ignition switched power.

Wires shall be protected to 15 amps.

Power and ground shall end on the center console.

Termination shall be with 15-amp, power point fuse blocks.

Wires shall be sized to 125% of the protection. Comply: (Y/N) \_\_\_\_\_

**CUSTOMER RADIO WIRING**

There shall be two (2) 12 volt combination wiring leads of which each shall include, one (1) battery switched, one (1) ignition and one (1) negative, for use with radio equipment. Each lead shall be 18" long and be provided at the center console. The leads shall be clearly marked and in a coil. A breaker rated for 30 amps shall be provided for circuit protection of the battery switched lead with a minimum of 10 gauge wire. The ignition lead is for sensing purposes only.

The wires shall be colored coded as follows:

-red for battery switched

-yellow for ignition

-black for ground

Comply: (Y/N) \_\_\_\_\_

**ELECTRONIC LOAD MANAGEMENT**

A Kussmaul Load Manager 2 shall be provided on the apparatus. The device is an electronic load management (ELM) system that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system. Comply: (Y/N) \_\_\_\_\_

The ELM shall monitor the vehicle's voltage while at the scene (parking brake applied). It shall sequentially shut down individual electrical loads when the system voltage drops below a preset value. Two (2) separate electrical loads shall be controlled by the load manager. The ELM shall sequentially re-energize electrical loads as the system voltage recovers. Comply: (Y/N) \_\_\_\_\_

**AMP DRAW REPORT**

The bidder shall provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system. Comply: (Y/N) \_\_\_\_\_

The manufacturer of the apparatus shall provide the following:

1) Documentation of the electrical system performance tests.

2) A written load analysis, which shall include the following: Comply: (Y/N) \_\_\_\_\_

A) The nameplate rating of the alternator.

B) The alternator rating under the conditions specified per:  
Applicable NFPA 1901 or 1906 (Current Edition).

C) The minimum continuous load of each component that is specified per:  
Applicable NFPA 1901 or 1906 (Current Edition).

D) Additional loads that, when added to the minimum continuous load, determine the total connected load.

E) Each individual intermittent load.

All of the above listed items shall be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition). Comply: (Y/N) \_\_\_\_\_

**EXTERIOR LIGHTING**

Exterior lighting shall meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at time of proposal. Comply: (Y/N) \_\_\_\_\_

Front headlights shall be halogen type and comply with all FMVSS requirements. Comply: (Y/N) \_\_\_\_\_

Five (5) clearance and marker lights shall be installed across the leading edge of the cab. Comply: (Y/N) \_\_\_\_\_

**WARNING LIGHTS (Cab Face)**

A pair of flush mounted, Whelen model 60\*02F\*R, flashing Super LED lights shall be provided on the cab face. Comply: (Y/N) \_\_\_\_\_

The color of these lights shall be red Super LED/red lens. Comply: (Y/N) \_\_\_\_\_

These lights shall meet or exceed the NFPA required optical light output for the front lower zone. Comply: (Y/N) \_\_\_\_\_

A switch shall be provided inside the cab on the switch panel for actuation. Comply: (Y/N) \_\_\_\_\_

These lights shall be installed with a flange. Comply: (Y/N) \_\_\_\_\_

**BACK-UP ALARM**

An ECCO, Model SA917-PM2, solid state electronic audible back-up alarm that actuates when the truck is shifted into reverse shall be provided. The device shall sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum five (5) dba above surrounding environmental noise levels. Comply: (Y/N) \_\_\_\_\_

**WATER TANK**

Booster tank shall have a capacity of 1000 gallons and be constructed of polypropylene plastic by United Plastic Fabricating, Incorporated. Comply: (Y/N) \_\_\_\_\_

Tank joints and seams shall be nitrogen welded inside and out. Comply: (Y/N) \_\_\_\_\_

Tank shall be baffled in accordance with NFPA Bulletin 1901 requirements. Comply: (Y/N) \_\_\_\_\_

Baffles shall have vent openings at both the top and bottom to permit movement of air and water between compartments. Comply: (Y/N) \_\_\_\_\_

Longitudinal partitions shall be constructed of .38" polypropylene plastic and shall extend from the bottom of the tank through the top cover to allow for positive welding. Comply: (Y/N) \_\_\_\_\_

Transverse partitions shall extend from 4.00" off the bottom of the tank to the underside of the top cover. Comply: (Y/N) \_\_\_\_\_

All partitions shall interlock and shall be welded to the tank bottom and sides. Comply: (Y/N) \_\_\_\_\_

Tank top shall be constructed of .50" polypropylene. It shall be recessed .38" and shall be welded to the tank sides and the longitudinal partitions. Comply: (Y/N) \_\_\_\_\_

Tank top shall be sufficiently supported to keep it rigid during fast filling conditions. Comply: (Y/N) \_\_\_\_\_

Construction shall include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two (2) of the dowels shall be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes. Comply: (Y/N) \_\_\_\_\_

A sump that is 8.00" long x 8.00" wide x 6.00" deep shall be provided at the bottom of the water tank. Comply: (Y/N) \_\_\_\_\_

Sump shall include a drain plug and the tank outlet. Comply: (Y/N) \_\_\_\_\_

Tank shall be installed in a fabricated cradle assembly constructed of structural steel. Comply: (Y/N) \_\_\_\_\_

Sufficient crossmembers shall be provided to properly support bottom of tank. Crossmembers shall be constructed of steel bar channel or rectangular tubing. Comply: (Y/N) \_\_\_\_\_

Tank shall "float" in cradle to avoid torsional stress caused by chassis frame flexing. Rubber cushions, .50" thick x 3.00" wide, shall be placed on all horizontal surfaces that the tank rests on. Comply: (Y/N) \_\_\_\_\_

Stops or other provision shall be provided to prevent an empty tank from bouncing excessively while moving vehicle. Comply: (Y/N) \_\_\_\_\_

Mounting system shall be approved by the tank manufacturer. Comply: (Y/N) \_\_\_\_\_

Fill tower shall be constructed of .50" polypropylene and shall be a minimum of 8.00" wide x 14.00" long. Comply: (Y/N) \_\_\_\_\_

Fill tower shall be furnished with a .25" thick polypropylene screen and a hinged cover. Comply: (Y/N) \_\_\_\_\_

An overflow pipe, constructed of 4.00" schedule 40 polypropylene, shall be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle. Comply: (Y/N) \_\_\_\_\_

### **HOSE BED**

The hose body shall be fabricated of aluminum. Comply: (Y/N) \_\_\_\_\_

Hose body width shall be a minimum of 68.00" inside. Comply: (Y/N) \_\_\_\_\_

Upper and rear edges of side panels shall have a double break for rigidity, a split tube finish shall not be acceptable. Comply: (Y/N) \_\_\_\_\_

The upper inside area of the beavertails shall be covered with brushed stainless steel to prevent damage to painted surface when hose is removed. Comply: (Y/N) \_\_\_\_\_

Flooring of the hose bed shall be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats shall have spacing between the slats for hose ventilation. Comply: (Y/N) \_\_\_\_\_

Hose bed shall accommodate 400' of 3" DJ, and 1000' of 5" LDH. Comply: (Y/N) \_\_\_\_\_

One (1) adjustable hosebed divider shall be furnished for separating hose. Comply: (Y/N) \_\_\_\_\_

Each divider shall be constructed of aluminum sheet. Comply: (Y/N) \_\_\_\_\_

Each divider shall be fully adjustable by sliding in tracks, located at the front and rear of the hose bed. It shall be held in place by tightening bolts at each end. Comply: (Y/N) \_\_\_\_\_

Acorn nuts shall be installed on all bolts in the hose bed which have exposed threads. Comply: (Y/N) \_\_\_\_\_

Flat surfaces shall be sanded for uniform appearance, or constructed of brushed aluminum. Comply: (Y/N) \_\_\_\_\_

**HOSEBED DIVIDER, SPECIAL LOCATION**

A hosebed divider for separating hose shall be attached to the water tank dome.  
Comply: (Y/N) \_\_\_\_\_

It shall be adjustable by sliding in tracks, located on the tank dome and rear of the hose bed. It shall be held in place by tightening bolts at each end.  
Comply: (Y/N) \_\_\_\_\_

Acorn nuts shall be installed on all bolts in the hose bed which have exposed threads.  
Comply: (Y/N) \_\_\_\_\_

Flat surfaces shall be sanded for uniform appearance, or constructed of brushed aluminum.  
Comply: (Y/N) \_\_\_\_\_

**HOSE RESTRAINT**

The hose in the hosebed shall be restrained by black nylon Velcro straps at the top of the hosebed and a black nylon web strap netting at the top and rear of the hosebed. The netting shall include quick release fasteners.  
Comply: (Y/N) \_\_\_\_\_

**RUNNING BOARDS**

Running boards shall be fabricated of .125" bright aluminum tread plate.  
Comply: (Y/N) \_\_\_\_\_

Each running board shall be supported by a welded square tubing and channel assembly, which shall be bolted to the pump compartment substructure.  
Comply: (Y/N) \_\_\_\_\_

Running boards shall be spaced away from the pump panel.  
Comply: (Y/N) \_\_\_\_\_

A splash guard shall be provided above the running board tread plate.  
Comply: (Y/N) \_\_\_\_\_

**TAILBOARD**

Rear step shall also be constructed of .125" bright aluminum tread plate and spaced .50" from the body, as well as supported by a structural steel assembly.  
Comply: (Y/N) \_\_\_\_\_

The rear tailboard shall be 16.00" deep and 8.00" to the rear of the extended side compartments.  
Comply: (Y/N) \_\_\_\_\_

The exterior side shall be flanged down and in.  
Comply: (Y/N) \_\_\_\_\_

Flanges shall not be notched.  
Comply: (Y/N) \_\_\_\_\_

Entire rear surface between the beavertails shall be covered with bright aluminum tread plate to protect the painted surface when removing hose.  
Comply: (Y/N) \_\_\_\_\_

Inside surface of each beavertail in the hose bed area shall be covered with polished stainless steel to protect the paint finish.  
Comply: (Y/N) \_\_\_\_\_

The remaining inside surface of the beavertails shall be covered with bright aluminum tread plate. Comply: (Y/N) \_\_\_\_\_

**TOW EYES (Rear)**

Two (2) tow eyes shall be installed below the rear tailboard compartment attached to frame rails. Comply: (Y/N) \_\_\_\_\_

The tow eyes shall be properly reinforced so that the truck can be pulled from the eyes. Comply: (Y/N) \_\_\_\_\_

**COMPARTMENTATION**

Body and compartments shall be fabricated of aluminum. Comply: (Y/N) \_\_\_\_\_

Side compartments shall be an integral assembly with the rear fenders. Comply: (Y/N) \_\_\_\_\_

Circular fender liners shall be provided for prevention of rust pockets and ease of maintenance. Comply: (Y/N) \_\_\_\_\_

Compartment flooring shall be of the sweep out design with the floor higher than the compartment door lip. Comply: (Y/N) \_\_\_\_\_

Drip protection shall be provided above the doors by means of bright aluminum extrusion or formed bright aluminum tread plate. Comply: (Y/N) \_\_\_\_\_

The top of the compartment shall be covered with bright aluminum tread plate rolled over the edges on the front, rear and outward side. These covers shall have the corners “TIG” welded. Comply: (Y/N) \_\_\_\_\_

Side compartment covers shall be separate from the compartment tops. Comply: (Y/N) \_\_\_\_\_

Front facing compartment walls shall be covered with bright aluminum tread plate. Comply: (Y/N) \_\_\_\_\_

All screws and bolts which protrude into a compartment shall have acorn nuts on the ends to prevent injury. Comply: (Y/N) \_\_\_\_\_

**AGGRESSIVE WALKING SURFACE**

All exterior surfaces designated as stepping, standing, and walking areas shall comply with the required average slip resistance of NFPA section 13-7.3. Comply: (Y/N) \_\_\_\_\_

**LOUVERS**

Louvers shall be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they shall be formed into the metal and not added to the compartment as a separate plate. Comply: (Y/N) \_\_\_\_\_

**COMPARTMENTATION, DRIVER’S SIDE**

A full height, roll-up door compartment ahead of the rear wheels shall be provided. The interior dimensions of this compartment shall be approximately 44" wide x 58.25" high x 25.88" deep in the lower 26" of the compartment and 12" deep in the remaining upper portion. The height of the compartment shall be measured from the compartment floor to the bottom edge of the door roll. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be approximately 38.25" wide x 58.25" high.

Comply: (Y/N) \_\_\_\_\_

Closing of the door shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.

Comply: (Y/N) \_\_\_\_\_

A roll-up door compartment over the rear wheels shall be provided. The interior dimensions of this compartment shall be approximately 66.50" wide x 25.38" high x 12" deep. The height of the compartment shall be measured from the compartment floor to the bottom edge of the door roll. The depth of the compartment shall be calculated with the compartment door closed. The clear door opening of this compartment shall be approximately 58.25" wide x 25.12" high.

Comply: (Y/N) \_\_\_\_\_

Closing of the door shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.

Comply: (Y/N) \_\_\_\_\_

A full height, roll-up door compartment behind the rear wheels shall be provided. The interior dimensions of this compartment shall be approximately 47.50" wide x 58.25" high x 25" deep in the lower 26" of height and 12" deep in the remaining upper section of the compartment. The height of the compartment shall be measured from the compartment floor to the bottom edge of the door roll. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be approximately 44.75" wide x 58.25" high.

Comply: (Y/N) \_\_\_\_\_

Closing of the door shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.

Comply: (Y/N) \_\_\_\_\_

**COMPARTMENTATION, PASSENGER’S SIDE**

A full height, roll-up door compartment ahead of the rear wheels shall be provided. The interior dimensions of this compartment shall be approximately 44" wide x 58.25" high x 25.88" deep in the lower 26.00" of the compartment and 12.00" deep in the remaining upper portion. The height of the compartment shall be measured from the compartment floor to the bottom edge of the door roll. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be approximately 38.25" wide x 58.25" high. Closing of the door shall not require releasing, unlocking, or unlatching any

mechanism and shall easily be accomplished with one hand.

Comply: (Y/N) \_\_\_\_\_

A roll-up door compartment over the rear wheels shall be provided. The interior dimensions of this compartment shall be approximately 66.50" wide x 25.38" high x 12" deep. The height of the compartment shall be measured from the compartment floor to the bottom edge of the door roll. The depth of the compartment shall be calculated with the compartment door closed. The clear door opening of this compartment shall be 58.25" wide x 25.12" high. Closing of the door shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.

Comply: (Y/N) \_\_\_\_\_

A full height, roll-up door compartment behind the rear wheels shall be provided. The interior dimensions of this compartment shall be approximately 47.50" wide x 58.25" high x 12" deep. A section of this compartment shall be 25.88" deep x 47.50" wide x 26" high directly behind the rear wheels. The height of the compartment shall be measured from the compartment floor to the bottom edge of the door roll. The depth of the compartment shall be calculated with the compartment door closed. The compartment interior shall be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment shall be approximately 44.75" wide x 58.25" high. Closing of the door shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.

Comply: (Y/N) \_\_\_\_\_

### **ROLL-UP DOOR, SIDE COMPARTMENTS**

Roll-up doors with a finish that is painted one color to match the lower portion of the body shall be installed on the side compartments. They shall be double faced, aluminum construction. A total of six (6) compartments with painted roll-up style doors shall be provided.

Comply: (Y/N) \_\_\_\_\_

Lath sections shall be an interlocking rib design and shall be individually replaceable without complete disassembly of door.

Comply: (Y/N) \_\_\_\_\_

Between each slat at the pivoting joint shall be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals shall allow door to operate in extreme temperatures ranging from plus 180 to minus 40 degrees Fahrenheit. Side, top and bottom seals shall be provided to resist ingress of dirt and weather and be made of Santoprene

Comply: (Y/N) \_\_\_\_\_

All hinges, barrel clips and end pieces shall be nylon 66. All nylon components shall withstand temperatures from plus 300 to minus 40 degrees Fahrenheit. Hardened plastic shall not be acceptable.

Comply: (Y/N) \_\_\_\_\_

A polished stainless steel lift bar with locking key latches shall be provided for each roll-up door. The keys shall be model #1250 to match all compartment doors. The lift bar shall be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge shall be supplied over lift bar for additional area to aid in closing the door. A total of Six (6) compartment doors require this style of latch.

Comply: (Y/N) \_\_\_\_\_

Door(s) shall be constructed from an aluminum box section. The exterior surface of each slat shall be flat. The interior surfaces shall be concave to provide strength and prevent loose equipment from jamming the door from inside. Comply: (Y/N) \_\_\_\_\_

To conserve space in the compartment(s), the spring roller assembly shall not exceed 3.00" in diameter. Comply: (Y/N) \_\_\_\_\_

A roll-up door that retracts below the compartment ceiling (garage door style) shall not be acceptable. Comply: (Y/N) \_\_\_\_\_

The header for the roll-up door assembly shall not exceed 4.00". Comply: (Y/N) \_\_\_\_\_

A heavy-duty magnetic switch shall be used for control of "open compartment door" warning lights. Comply: (Y/N) \_\_\_\_\_

### **PUMP TEST**

The pump shall be tested, approved and certified by an independent third party testing agency at the manufacturer's expense. The test results along with the pump manufacturer's certification of hydrostatic test, the engine manufacturer's certified brake horse power curve and the manufacturer's record of pump construction details shall be forwarded to the Fire Department. Comply: (Y/N) \_\_\_\_\_

### **REFERENCE DRAWING**

A drawing of the proposed apparatus shall be provided for review. This drawing shall indicate the major components such as the chassis make and model, body configuration and door style, location of the lights, siren, horns, compartments, major components, etc. Comply: (Y/N) \_\_\_\_\_

All mechanical components of the door shall be warranted to be free from defects in materials and workmanship for the lifetime of the vehicle. All parts covered under this warranty shall be to the original owner. Comply: (Y/N) \_\_\_\_\_

The roll up doors exterior paint finish shall be warranted against blistering, peeling, bubbling, lack of adhesion or any other manufacturing or material defect for a period of **six (6) years**. Comply: (Y/N) \_\_\_\_\_

The roll up doors shall also be warranted against corrosion perforation for a period of **ten (10) years**. Comply: (Y/N) \_\_\_\_\_

### **COMPARTMENTATION, REAR**

A roll-up door compartment above the rear tailboard shall be provided. Comply: (Y/N) \_\_\_\_\_

Interior dimensions of this compartment shall be approximately 40" wide x 54.13" high x 25.88"

deep in the lower 45.25" of height and 15.75" deep in the remaining upper portion. Depth of the compartment shall be calculated with the compartment door closed. Comply: (Y/N) \_\_\_\_\_

Rear compartment shall be open into the rear side compartments. Comply: (Y/N) \_\_\_\_\_

Clear door opening of this compartment shall be approximately 33.25" wide x 45.25" high. Comply: (Y/N) \_\_\_\_\_

Closing of the door shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand. Comply: (Y/N) \_\_\_\_\_

**ROLL-UP DOOR, REAR COMPARTMENT**

The roll-up door shall be painted, double faced, aluminum construction. Comply: (Y/N) \_\_\_\_\_

Lath sections shall be an interlocking rib design and shall be individually replaceable without complete disassembly of door. Comply: (Y/N) \_\_\_\_\_

Between each slat at the pivoting joint shall be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals shall allow door to operate in extreme temperatures ranging from plus 180 to minus 40 degrees Fahrenheit. Side, top and bottom seals shall be provided to resist ingress of dirt and weather and be made of Santoprene. Comply: (Y/N) \_\_\_\_\_

All hinges, barrel clips and end pieces shall be nylon 66. All nylon components shall withstand temperatures from plus 300 to minus 40 degrees Fahrenheit. Hardened plastic shall not be acceptable. Comply: (Y/N) \_\_\_\_\_

A polished stainless steel lift bar shall be provided for opening door. Lift bar shall be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge shall be supplied over lift bar for additional area to aid in closing the door. Comply: (Y/N) \_\_\_\_\_

Door(s) shall be constructed from an aluminum box section. The exterior surface of each slat shall be flat. The interior surfaces shall be concave to provide strength and prevent loose equipment from jamming the door from inside. Comply: (Y/N) \_\_\_\_\_

To conserve space in the compartment(s), the spring roller assembly shall not exceed 3.00" in diameter. A roll-up door that retracts below the compartment ceiling (garage door style) shall not acceptable. Comply: (Y/N) \_\_\_\_\_

The header for the roll-up door assembly shall not exceed 4.00". Comply: (Y/N) \_\_\_\_\_

A heavy-duty magnetic switch shall be used for control of "open compartment door" warning lights. Comply: (Y/N) \_\_\_\_\_

All mechanical components of the door shall be warranted to be free from defects in materials and workmanship for the lifetime of the vehicle. All parts covered under this warranty shall be to the original owner. Comply: (Y/N) \_\_\_\_\_

**PULL-OUT TRAY**

There shall be two (2) slide-out trays with 2.00" sides and a minimum capacity of 500 pounds provided. Capacity rating shall be in the extended position. Comply: (Y/N) \_\_\_\_\_

Slides shall be General Device ball bearing type for ease of operation and years of dependable service. Comply: (Y/N) \_\_\_\_\_

Automatic locks shall be provided for both the "in" and "out" positions. The trip mechanism for it shall be located at the front of the tray for ease of use with a gloved hand. Comply: (Y/N) \_\_\_\_\_

Tray location shall be in the rear compartment and the passenger’s side rear compartment. Comply: (Y/N) \_\_\_\_\_

Heavy-duty steel angle iron assembly shall support the body under the compartment floor. It shall be attached to the chassis frame for load transfer and to reduce stress on body. Comply: (Y/N) \_\_\_\_\_

**PULL-OUT ADJUSTABLE HEIGHT TRAY**

There shall be one (1) slide-out tray with 2.00" sides and a minimum capacity of 500 pounds provided. Capacity rating shall be in the extended position. Comply: (Y/N) \_\_\_\_\_

Slides shall be Jonathan brand with ball bearings for ease of operation and years of dependable service. Comply: (Y/N) \_\_\_\_\_

Tray location shall be in the rear compartment. Comply: (Y/N) \_\_\_\_\_

Automatic locks shall be provided for both the "in" and "out" positions. The trip mechanism for it shall be located at the front of the tray for ease of use with a gloved hand. Comply: (Y/N) \_\_\_\_\_

Each tray shall be adjustable up and down within the compartment. Comply: (Y/N) \_\_\_\_\_

**ADJUSTABLE SHELVES**

There shall be six (6) shelves, with a minimum capacity of 215 pounds provided. The shelf construction shall consist of .125" pan-shaped aluminum with 2.00" sides. Each shelf shall be infinitely adjustable by means of a threaded fastener, which slides in a track. Comply: (Y/N) \_\_\_\_\_

The location shall be in the driver’s side forward upper compartment, driver’s side forward lower compartment, driver’s side rearward upper compartment, passenger’s side forward upper compartment, passenger’s side forward lower compartment, and the passenger’s side over the wheel compartment. Comply: (Y/N) \_\_\_\_\_

**MOUNTING TRACKS**

There shall be seven (7) sets of tracks for mounting shelf(s) in all compartments. These tracks shall be installed vertically to support the adjustable shelf(s). Comply: (Y/N) \_\_\_\_\_

**RUB RAIL**

Bottom edge of the side compartments shall be trimmed with a bright aluminum extruded rub rail. Comply: (Y/N) \_\_\_\_\_

Trim shall be approximately 2" high with 1.5" flanges turned outward for rigidity. Comply: (Y/N) \_\_\_\_\_

The rub rails shall not be an integral part of the body construction, which allows replacement in the event of damage. Comply: (Y/N) \_\_\_\_\_

**BODY FENDER CROWNS**

Stainless steel fender crowns shall be provided around the rear wheel openings. Comply: (Y/N) \_\_\_\_\_

A rubber welting shall be provided between the body and the crown to seal the seam and restrict moisture from entering. Comply: (Y/N) \_\_\_\_\_

A dielectric barrier shall be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion. Comply: (Y/N) \_\_\_\_\_

**HARD SUCTION HOSE**

Hard suction hose to meet required NFPA 1901 specifications as outlined in Chapters 5 - 12. Comply: (Y/N) \_\_\_\_\_

There shall be two (2) lengths of 10' long hose provided. The brand shall be Kocheck. Comply: (Y/N) \_\_\_\_\_

**HOSE TROUGHS**

Hard suction hose shall be carried in troughs, mounted one (1) above the other, inside the hose bed, on the driver's side. Comply: (Y/N) \_\_\_\_\_

Troughs shall be constructed of stainless steel. Comply: (Y/N) \_\_\_\_\_

A strap shall be provided to contain the hose at the rear of the hose trough. Comply: (Y/N) \_\_\_\_\_

**HANDRAILS**

The handrails shall be 1.25" diameter anodized aluminum extrusion, with a ribbed design, to provide a positive gripping surface. Comply: (Y/N) \_\_\_\_\_

Chrome plated end stanchions shall support the handrail. Plastic gaskets shall be used between end stanchions and any painted surfaces. Comply: (Y/N) \_\_\_\_\_

Drain holes shall be provided in the bottom of all vertically mounted handrails.

Comply: (Y/N) \_\_\_\_\_

- Two (2) handrails shall be provided - one above each side pump panel.

Comply: (Y/N) \_\_\_\_\_

- One (1) vertical handrail, not less than 29.00" long, shall be located on each rear beavertail.

Comply: (Y/N) \_\_\_\_\_

- One (1) full width horizontal handrail shall be provided below the hose bed at the rear of the apparatus.

Comply: (Y/N) \_\_\_\_\_

**AIR BOTTLE STORAGE**

A total of four (4) air bottle compartments shall be provided, two (2) each side of the body. The air bottle compartment shall be in the form of a PVC round tube to accommodate different size air bottles. A Cast Products door with latch shall be provided to contain the air bottle.

Comply: (Y/N) \_\_\_\_\_

**GROUND LADDERS**

The following ladders shall be furnished and must meet or exceed the latest NFPA standards:

- 24', two (2) section, aluminum

Comply: (Y/N) \_\_\_\_\_

- 14' roof, aluminum

Comply: (Y/N) \_\_\_\_\_

**LADDER STORAGE**

The ladders shall be stored between the water tank and the passenger's side compartments.

Comply: (Y/N) \_\_\_\_\_

The ladders shall extend into the pump compartment just to the rear of the water pump discharges. A ladder stop shall be provided to prevent the ladders from contacting any pump or plumbing components. The ladder storage area shall be enclosed except for at the front where it extends into the pump compartment.

Comply: (Y/N) \_\_\_\_\_

Each ladder shall be stored vertically in a separate storage area.

Comply: (Y/N) \_\_\_\_\_

A pair of pike pole storage tubes and an area for a folding ladder shall also be provided.

Comply: (Y/N) \_\_\_\_\_

To properly contain the ladders, a bright aluminum tread plate enclosure shall be provided at the rear that shall extend to the rear of the body.

Comply: (Y/N) \_\_\_\_\_

The rear of the ladder storage area shall have a vertically hinged single pan door with a lift & turn latch.

Comply: (Y/N) \_\_\_\_\_

**FOLDING LADDER**

One (1) 10' aluminum folding ladder shall be installed in a U-shaped trough inside the ladder storage compartment. Comply: (Y/N) \_\_\_\_\_

**STEPS**

An Eberhard step shall be provided on the front of each fender compartment. The front step shall be a bright finished folding type. Comply: (Y/N) \_\_\_\_\_

**REAR FOLDING STEPS**

Chrome Eberhard folding steps and corner steps shall be provided at the rear. All steps shall provide adequate surface for stepping. Comply: (Y/N) \_\_\_\_\_

Two (2) additional folding steps, Eberhard, shall be located on the front of the body each side. Comply: (Y/N) \_\_\_\_\_

**PUMP**

Pump shall be a Waterous CS, 1250 gpm, single stage midship mounted centrifugal type. Comply: (Y/N) \_\_\_\_\_

Pump shall be the class "A" type. Comply: (Y/N) \_\_\_\_\_

Pump shall deliver the percentage of rated discharge at pressure indicated below:

- 100% of rated capacity at 150 psi net pump pressure. Comply: (Y/N) \_\_\_\_\_
- 70% of rated capacity at 200 psi net pump pressure. Comply: (Y/N) \_\_\_\_\_
- 50% of rated capacity at 250 psi net pump pressure. Comply: (Y/N) \_\_\_\_\_

Pump body shall be close-grained gray iron, bronze fitted, and must be horizontally split in two (2) sections for easy removal of the entire impeller shaft assembly (including wear rings). Comply: (Y/N) \_\_\_\_\_

Pump shall be designed for complete servicing from the bottom of the truck, without disturbing the pump setting or apparatus piping. Comply: (Y/N) \_\_\_\_\_

Pump case halves shall be bolted together on a single horizontal face, to minimize chance of leakage and facilitate ease of reassembly. No end flanges may be used. Comply: (Y/N) \_\_\_\_\_

Discharge manifold of the pump shall be cast as an integral part of the pump body assembly, and shall provide a minimum of three (3) 3.50" openings, for flexibility in providing various discharge outlets for maximum efficiency. Comply: (Y/N) \_\_\_\_\_

The 3.50" openings shall be located as follows: one (1) outlet to the right of the pump, one (1) outlet to the left of the pump, and one (1) outlet directly on top of the discharge manifold. Comply: (Y/N) \_\_\_\_\_

Impeller shaft shall be stainless steel accurately ground to size, and supported at each end by sealed, anti-friction ball bearings, for rigid precise support. Comply: (Y/N) \_\_\_\_\_

Bearings shall be protected from water and sediment by suitable stuffing boxes, flinger rings, and

oil seals. No special or sleeve type bearings shall be used. Comply: (Y/N) \_\_\_\_\_

Stuffing boxes shall be of the conventional two (2) pieces, split-gland type, to permit adjustment or replacement of Grafoil packing without disturbing the pump. Water shall be fed into stuffing box lantern rings for proper lubrication and cooling when the pump is operating.

Comply: (Y/N) \_\_\_\_\_

Lantern rings shall be located at the inner ends of the stuffing boxes, to avoid having to remove them when replacing pump packing.

Comply: (Y/N) \_\_\_\_\_

Wear rings shall be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.

Comply: (Y/N) \_\_\_\_\_

### **PUMP TRANSMISSION**

Pump transmission shall be made of a three (3) piece, aluminum, horizontally split casing. Power transfer to pump shall be through a high strength Morse HY-VO silent drive chain.

Comply: (Y/N) \_\_\_\_\_

Drive shafts shall be a minimum of 2.35" diameter hardened and ground alloy steel. All shafts shall be ball bearing supported. The case shall be designed as to eliminate the need for water cooling.

Comply: (Y/N) \_\_\_\_\_

### **AIR PUMP SHIFT**

Pump shift engagement shall be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control shall also be located on the driver's side pump panel.

Comply: (Y/N) \_\_\_\_\_

Two (2) indicator lights shall be provided adjacent to the pump shift inside the cab. One (1) green light shall indicate the pump shift has been completed and be labeled "pump engaged". The second green light shall indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light shall be labeled "OK to pump".

Comply: (Y/N) \_\_\_\_\_

Another green indicator light shall be installed adjacent to the hand throttle on the pump panel and indicate either the pump is engaged and the road transmission is in pump gear, or the road transmission is in neutral and the pump is not engaged. This indicator light shall be labeled "Warning: Do not open throttle unless light is on".

Comply: (Y/N) \_\_\_\_\_

### **TRANSMISSION LOCK-UP**

The direct gear transmission lock-up for the fire pump operation shall engage automatically when the pump shift control, in the cab, is activated.

Comply: (Y/N) \_\_\_\_\_

### **AUXILIARY COOLING SYSTEM**

A supplementary heat exchange cooling system shall be provided to allow the use of water from the discharge side of the pump for cooling the engine water. Heat exchanger shall be cylindrical type and shall be a separate unit. It shall be installed in the pump or engine compartment with

the control located on the pump operator's control panel. Exchanger shall be plumbed to the master drain valve. Engine water lines shall be run inside plastic conduit. Comply: (Y/N) \_\_\_\_\_

**INTAKE RELIEF VALVE**

An Elkhart relief valve shall be installed on the suction side of the pump preset at 125 psig. Comply: (Y/N) \_\_\_\_\_

Relief valve shall have a working range of 75 psig to 250 psig. Comply: (Y/N) \_\_\_\_\_

Outlet shall terminate below the frame rails with a 2.50" National Standard hose thread adapter and shall have a "do not cap" warning tag. Comply: (Y/N) \_\_\_\_\_

Control shall be located behind an access door at the right (passenger's) side pump panel. Comply: (Y/N) \_\_\_\_\_

**PRESSURE GOVERNOR**

A Fire Research Corporation "Pump Boss" pressure sensing governor (PSG) system shall be provided. The PSG system shall eliminate the need for a discharge pressure relief valve. Comply: (Y/N) \_\_\_\_\_

The pressure governor system shall be connected directly to the engine mounted Electronic Control Module (ECM) or may be an integral part of the engine ECM. A pressure transducer shall be installed in the water discharge manifold on the pump. The transducer continuously monitors pump pressure sending a signal to the pressure governor. The pressure governor then sends a signal to the engine ECM, which modulates fueling in order to maintain a set pressure or engine speed (within engine/pump operating capabilities). There shall be no user serviceable items or maintenance required on the PSG system. The PSG system shall not require a mechanical drive, oil, or air supply for a means of control. Comply: (Y/N) \_\_\_\_\_

The pressure sensor governor system shall be operable only after the vehicle parking brake has been set, the transmission is the pumping mode, and the fire pump has been engaged. Comply: (Y/N) \_\_\_\_\_

The pressure sensor governor system shall have two (2) modes of operation: pressure mode or rpm mode. Comply: (Y/N) \_\_\_\_\_

When in the pressure mode, the PSG system shall automatically maintain the discharge pressure set by the operator regardless of flow (within engine/pump operating capabilities). Comply: (Y/N) \_\_\_\_\_

In the rpm mode, the PSG system shall automatically maintain a set engine speed, regardless of engine load (within engine operation capabilities). Comply: (Y/N) \_\_\_\_\_

A pump cavitation protection feature shall be provided which shall return the engine to idle should the pump cavitate. Comply: (Y/N) \_\_\_\_\_

A VHS videotape describing the operation, of the pressure governor, and troubleshooting

procedures shall also be provided with the apparatus. Comply: (Y/N) \_\_\_\_\_

### **ESP PRIMING PUMP**

The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multistage venture-based AirPrime System, conforming to standards outlined in NFPA pamphlet #1901. Comply: (Y/N) \_\_\_\_\_

One (1) priming control shall open the priming valve and start the priming motor. Comply: (Y/N) \_\_\_\_\_

Primer shall be environmentally safe and self-lubricating. Comply: (Y/N) \_\_\_\_\_

### **IMPELLER HUB**

The midship pump impeller hubs shall be flame plated. Comply: (Y/N) \_\_\_\_\_

### **RECIRCULATING LINE**

A .50" diameter recirculating line, from the pump to the water tank, shall be furnished with a control installed at the pump operator's control panel. Comply: (Y/N) \_\_\_\_\_

### **PUMP MANUALS**

Two (2) pump manuals from the pump manufacturer shall be furnished in compact disc format with the apparatus. Manuals shall cover pump operation, maintenance, and parts. Comply: (Y/N) \_\_\_\_\_

### **PLUMBING**

All inlet and outlet plumbing, 3.00" and smaller, shall be plumbed with either stainless steel pipe or synthetic rubber hose reinforced with hi-tensile polyester braid. Small diameter secondary plumbing such as drain lines shall be stainless steel, brass or hose. Comply: (Y/N) \_\_\_\_\_

Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping shall be equipped with Victaulic or rubber couplings. Comply: (Y/N) \_\_\_\_\_

Plumbing manifold bodies shall be ductile cast iron or stainless steel. Comply: (Y/N) \_\_\_\_\_

All lines to drain through either a master drain valve or shall be equipped with individual drain valves. All individual drain lines for discharges shall be extended with a hose to drain below the chassis frame. Comply: (Y/N) \_\_\_\_\_

All water carrying gauge lines shall be of flexible polypropylene tubing. Comply: (Y/N) \_\_\_\_\_

### **MAIN PUMP INLETS**

A 6.00" pump manifold inlet shall be provided on each side of the vehicle. The suction inlets shall include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump. Comply: (Y/N) \_\_\_\_\_

The main pump inlets shall have National Standard Threads with a long handle chrome cap.

Comply: (Y/N) \_\_\_\_\_

The cap shall be designed to automatically relieve stored pressure in the line when disconnected.

Comply: (Y/N) \_\_\_\_\_

**VALVES**

All ball valves shall be Akron Brass in-line valves. The Akron valves shall be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.

Comply: (Y/N) \_\_\_\_\_

**INLET (Left side)**

On the left side pump panel shall be one (1) - 2.50" auxiliary suction, terminating in 2.50" National Standard Hose Thread. The auxiliary suction shall be provided with a strainer, chrome swivel and plug.

Comply: (Y/N) \_\_\_\_\_

**INLET (Right side)**

On the right side pump panel shall be one (1) - 2.50" auxiliary suction, terminating in 2.50" National Standard Hose Thread. The auxiliary suction shall be provided with a strainer, chrome swivel and plug.

Comply: (Y/N) \_\_\_\_\_

The location of the valve for the two (2) inlets shall be recessed behind the pump panel.

Comply: (Y/N) \_\_\_\_\_

**INLET CONTROL**

Control for the side auxiliary inlet(s) shall be located at the inlet valve. Comply: (Y/N) \_\_\_\_\_

**INLET BLEEDER VALVE**

A .75" bleeder valve shall be provided for each side gated inlet. The valves shall be located behind the panel with a swing style handle control extended to the outside of the panel. The handles shall be chrome plated and provide a visual indication of valve position. The swing handle shall provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. The water discharged by the bleeders shall be routed below the chassis frame rails.

Comply: (Y/N) \_\_\_\_\_

**TANK TO PUMP**

The booster tank shall be connected to the intake side of the pump with heavy duty piping and a quarter turn 3.00" full flow line valve with the control remotely located at the operator's panel. Tank to pump line shall run straight (no elbows) from the pump into the front face of the water tank and angle down into the tank sump. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing.

Comply: (Y/N) \_\_\_\_\_

A check valve shall be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.

Comply: (Y/N) \_\_\_\_\_

**TANK REFILL**

A 2.50" combination tank refill and pump re-circulation line shall be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.

Comply: (Y/N) \_\_\_\_\_

**DISCHARGE OUTLETS (Left Side)**

There shall be two (2) discharge outlets with a 2.50" valve on the left side of the apparatus, terminating with a male 2.50" National Standard hose thread adapter. Comply: (Y/N) \_\_\_\_\_

**DISCHARGE OUTLETS (Right Side)**

There shall be one (1) discharge outlet 2.50" valve on the right side of the apparatus, terminating with a male 2.50" National Standard hose thread adapter. Comply: (Y/N) \_\_\_\_\_

There shall be one (1) discharge outlet with a 3.00" valve on the right side of the apparatus, terminating with a male 3.00" National Standard hose thread adapter. Comply: (Y/N) \_\_\_\_\_

**DISCHARGE OUTLET (Front)**

There shall be a 1.50" gated discharge outlet plumbed to the lower portion of the tray located in the driver's side front bumper extension (center rear). Comply: (Y/N) \_\_\_\_\_

The discharge shall have a 90-degree swivel and terminate with 1.50" NHT. Comply: (Y/N) \_\_\_\_\_

Plumbing shall consist of 2.00" piping with a 2.00" full flow ball valve controlled at the pump operator's panel. Comply: (Y/N) \_\_\_\_\_

Automatic drains shall be provided at all low points in the plumbing. Comply: (Y/N) \_\_\_\_\_

**DISCHARGE CAPS**

Chrome plated, rocker lug, caps with chains shall be furnished for all side discharge outlets. Comply: (Y/N) \_\_\_\_\_

The caps shall be designed to automatically relieve stored pressure in the line when disconnected. (NO EXCEPTIONS) Comply: (Y/N) \_\_\_\_\_

**OUTLET BLEEDER VALVE**

A .75" bleeder valve shall be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application. Comply: (Y/N) \_\_\_\_\_

The valves shall be located behind the panel with a swing style handle control extended to the outside of the side pump panel. The handles shall be chrome plated and provide a visual indication of valve position. The swing handle shall provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. Bleeders shall be located at the bottom of the pump panel. They shall be properly labeled identifying the discharge they are plumbed in to. The water discharged by the bleeders shall be routed below the chassis frame rails. Comply: (Y/N) \_\_\_\_\_

**ELBOWS, LEFT SIDE OUTLETS**

The 2.50" discharge outlets, located on the left side pump panel, shall be furnished with a 2.50"(F) National Standard hose thread x 2.50"(M) National Standard hose thread, chrome plated, 45 degree elbow. Comply: (Y/N) \_\_\_\_\_

The elbow shall be designed to automatically relieve stored pressure in the line when disconnected. (NO EXCEPTIONS) Comply: (Y/N) \_\_\_\_\_

### **ELBOWS, RIGHT SIDE OUTLETS**

The 2.50" discharge outlets, located on the right side pump panel, shall be furnished with a 2.50"(F) National Standard hose thread x 2.50"(M) National Standard hose thread, chrome plated, 45 degree elbow. Comply: (Y/N) \_\_\_\_\_

The elbow shall be designed to automatically relieve stored pressure in the line when disconnected. Comply: (Y/N) \_\_\_\_\_

### **ELBOW, 3.00" OUTLET**

The 3.00" outlet shall be furnished with a 3.00"(F) National Standard hose thread x 5.00" Storz elbow adapter with Storz cap. Comply: (Y/N) \_\_\_\_\_

### **DISCHARGE OUTLET CONTROLS**

The discharge outlets shall incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism shall indicate the position of the valve. Comply: (Y/N) \_\_\_\_\_

If a hand wheel control valve is used, the control shall be a minimum of a 3.9" diameter chrome plated hand wheel with a dial position indicator built in to the center of the hand wheel. Comply: (Y/N) \_\_\_\_\_

### **DELUGE RISER**

A 3.00" deluge riser shall be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping shall be installed securely so no movement develops when the line is charged. The riser shall be gated and controlled at the pump operator's panel. Comply: (Y/N) \_\_\_\_\_

The deluge riser shall have male National Pipe Threads for mounting the monitor. Comply: (Y/N) \_\_\_\_\_

### **CROSSLAY HOSE BEDS**

Two crosslays with 1.50" outlets shall be provided. Each bed shall be capable of carrying 200 feet of 1.75" double jacketed hose and shall be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve. Comply: (Y/N) \_\_\_\_\_

Outlets to be equipped with a 1.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus. Comply: (Y/N) \_\_\_\_\_

The crosslay controls shall be at the pump operator's panel. Comply: (Y/N) \_\_\_\_\_

The center crosslay dividers shall be fabricated of .25" aluminum and shall provide adjustment from side to side. The divider shall be unpainted with a DA finish. The remainder of the crosslay bed shall be painted job color. Comply: (Y/N) \_\_\_\_\_

Vertical scuff plates, constructed of stainless steel, shall be provided at the front and rear ends of the bed on each side of vehicle. Comply: (Y/N) \_\_\_\_\_

Crosslay bed flooring shall consist of removable perforated brushed aluminum. Comply: (Y/N) \_\_\_\_\_

**CROSSLAY HOSE BED, 2.50"**

One (1) crosslay with a 2.50" outlet shall be provided. The bed shall be capable of carrying 200' of 2.5" DJ hose (connection in center of bed) and shall be plumbed with 2.50" i.d. pipe and gated with a 2.50" quarter turn ball valve. Comply: (Y/N) \_\_\_\_\_

The outlet to be equipped with a 2.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus. Comply: (Y/N) \_\_\_\_\_

The crosslay control shall be at the pump operator's panel. Comply: (Y/N) \_\_\_\_\_

The center crosslay dividers shall be fabricated of .25" aluminum and shall provide adjustment from side to side. The divider shall be unpainted with a DA finish. The remainder of the crosslay bed shall be painted job color. Comply: (Y/N) \_\_\_\_\_

Stainless steel vertical scuff plates shall be provided at hose bed ends (each side of vehicle). Bottom of hose bed ends (each side) shall also be equipped with a stainless steel scuff plate. Comply: (Y/N) \_\_\_\_\_

Crosslay bed flooring shall consist of removable perforated brushed aluminum. Comply: (Y/N) \_\_\_\_\_

**CROSSLAY/SPEEDLAY HOSE RESTRAINT**

Elastic netting shall be provided across the top and on the ends of the crosslays/speedlays to secure the hose during travel. Comply: (Y/N) \_\_\_\_\_

**CROSSLAY COVER**

A hinged aluminum tread plate cover shall be installed over the crosslay hose beds. It shall include a latch at each end of the cover to hold it securely in place, a chrome grab handle at each end for opening and closing the cover and a foam rubber gasket where the cover comes into contact to a painted surface. Comply: (Y/N) \_\_\_\_\_

**DEADLAY HOSE BEDS**

One (1) deadlay bed, without plumbing, shall be provided behind the crosslays above the pump compartment capable of carrying two backboards. Comply: (Y/N) \_\_\_\_\_

There will be no center crosslay dividers. The hosebed shall be 18" tall x minimum 8" wide, but may utilize the entire cargo area. The deadlay shall be painted job color. Comply: (Y/N) \_\_\_\_\_

Stainless steel vertical scuff plates shall be provided at hose bed ends (each side of vehicle). Bottom of hose bed ends (each side) shall also be equipped with a stainless steel scuff plate. Comply: (Y/N) \_\_\_\_\_

Deadlay bed flooring shall consist of removable perforated brushed aluminum.

Comply: (Y/N) \_\_\_\_\_

### **BACKBOARD STORAGE**

A transverse area over the pump and forward shall hold two (2) backboards. A blister shall be supplied at each side to enclose the backboard due to its length.

Comply: (Y/N) \_\_\_\_\_

The backboards shall be accessible from the either side of the vehicle through stainless steel doors. The size of the back boards is 17" high x 72" long x 2.0" thick per backboard.

Comply: (Y/N) \_\_\_\_\_

### **PUMP COMPARTMENT**

The pump compartment shall be separate from the hose body and compartments so that each may flex independently of the other. It shall be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards.

Comply: (Y/N) \_\_\_\_\_

The pump compartment shall be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist.

Comply: (Y/N) \_\_\_\_\_

Pump compartment, pump, plumbing and gauge panels shall be removable from the chassis in a single assembly.

Comply: (Y/N) \_\_\_\_\_

### **PUMP MOUNTING**

Pump shall be mounted to a substructure which shall be mounted to the chassis frame rail using rubber isolators. The mounting shall allow chassis frame rails to flex independently without damage to the fire pump.

Comply: (Y/N) \_\_\_\_\_

### **PUMP CONTROL PANELS (Left Side Control)**

All pump controls and gauges shall be located at the left (driver's) side of the apparatus and properly identified.

Comply: (Y/N) \_\_\_\_\_

Layout of the pump control panel shall be ergonomically efficient and systematically organized.

Comply: (Y/N) \_\_\_\_\_

The pump operator's control panel shall be removable in two (2) main sections for ease of maintenance.

Comply: (Y/N) \_\_\_\_\_

The upper section shall contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels shall be removable from the face of the pump panel for ease of maintenance. Below the sub panels shall be located all valve controls and line pressure gauges.

Comply: (Y/N) \_\_\_\_\_

The lower section of the panel shall contain all inlets, outlets, and drains.

Comply: (Y/N) \_\_\_\_\_

All push/pull valve controls shall have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods shall be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls shall be capable of locking in any

position. The control rods shall pull straight out of the panel and shall be equipped with universal joints to eliminate binding. Comply: (Y/N) \_\_\_\_\_

### **IDENTIFICATION TAGS**

The identification tag for each valve control shall be recessed in the face of the tee handle. All discharge outlets shall have color coded identification tags, with each discharge having its own unique color. Color coding shall include the labeling of the outlet and the drain for each corresponding discharge. Comply: (Y/N) \_\_\_\_\_

All line pressure gauges shall be mounted directly above the corresponding discharge control tee handles and recessed within the same chrome plated casting as the rod guide for quick identification. The gauge and rod guide casting shall be removable from the face of the pump panel for ease of maintenance. The casting shall be color coded to correspond with the discharge identification tag. Comply: (Y/N) \_\_\_\_\_

All remaining identification tags shall be mounted on the pump panel in chrome plated bezels. Comply: (Y/N) \_\_\_\_\_

The pump panel on the right (passenger's) side shall be removable with lift and turn type fasteners. Comply: (Y/N) \_\_\_\_\_

Trim rings shall be installed around all inlets and outlets. Comply: (Y/N) \_\_\_\_\_

The trim rings for the side discharge outlets shall be color coded and labeled to correspond with the discharge identification tag. Comply: (Y/N) \_\_\_\_\_

### **PUMP PANEL CONFIGURATION**

The pump panel configuration shall be arranged and installed in an organized manner that will provide user-friendly operation. Comply: (Y/N) \_\_\_\_\_

### **PUMP AND GAUGE PANEL**

The pump and gauge panels shall be constructed of black vinyl covered aluminum to allow easy identification of the gauges and controls and to eliminate glare. Comply: (Y/N) \_\_\_\_\_

The black vinyl shall be bonded to the aluminum by the company that supplies the product. Comply: (Y/N) \_\_\_\_\_

A polished aluminum trim molding shall be provided on both sides of the pump panel. Comply: (Y/N) \_\_\_\_\_

The passenger's side pump panel shall be removable and fastened with swell type fasteners. Comply: (Y/N) \_\_\_\_\_

### **PUMP PANEL GAUGES AND CONTROLS**

The following shall be provided on the pump and gauge panels in a neat and orderly fashion:

- Fire Rescue Corporation: With LED display of the engine oil pressure, engine temperature and

engine rpm. A warning alarm shall be provided for these items.

- Tachometer: Electric
- Voltmeter

Also provided at the pump panel shall be the following:

- Master Pump Drain Control
- Check Transmission Warning Indicator Light
- Stop Engine Warning Indicator Light
- Check Engine Warning Indicator Light.

Comply: (Y/N) \_\_\_\_\_

**AIR HORN BUTTON**

An air horn control button shall be provided at the pump operator's control panel. This button shall be properly labeled and put within easy reach of the operator. Comply: (Y/N) \_\_\_\_\_

**GAUGES, VACUUM and PRESSURE**

The pump vacuum and pressure gauges shall be silicone filled and manufactured by Class 1, Inc. Comply: (Y/N) \_\_\_\_\_

The gauges shall be a minimum of 4.50" in diameter and shall have white faces with black lettering, with a pressure range of 30.00"-0-600#. Comply: (Y/N) \_\_\_\_\_

The pump pressure and vacuum gauges shall be installed adjacent to each other at the pump operator's control panel. Comply: (Y/N) \_\_\_\_\_

Test port connections shall be provided at the pump operator's panel. One shall be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They shall have 0.25 in. standard pipe thread connections and polished stainless steel plugs. They shall be marked with a label. Comply: (Y/N) \_\_\_\_\_

**PRESSURE GAUGES**

The individual "line" pressure gauges for the discharges shall be interlube filled and manufactured by Class 1. Comply: (Y/N) \_\_\_\_\_

They shall be a minimum of 2.50" in diameter and shall have white faces with black lettering. Comply: (Y/N) \_\_\_\_\_

Gauges shall have a pressure range of 0-400#. Comply: (Y/N) \_\_\_\_\_

The individual pressure gauge shall be installed as close to the outlet control as practical. Comply: (Y/N) \_\_\_\_\_

**WATER LEVEL GAUGE**

A Fire rescue Corporation electronic water level gauge shall be provided on the operator's panel, which registers water level by means of five colored LED lights. The lights shall be durable, ultra-bright five LED design viewable through 180 degrees. The water level indicators shall be as follows:

- 100% = Green
- 75% = Yellow
- 50% = Yellow
- 25% = Yellow
- Refill = Red

Comply: (Y/N) \_\_\_\_\_

The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the water tank is empty.

Comply: (Y/N) \_\_\_\_\_

The level measurement shall be based on the sensing of head pressure of the fluid in the tank.

Comply: (Y/N) \_\_\_\_\_

The display shall be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design shall provide complete protection from water and environmental elements. An industrial pressure transducer shall be mounted to the outside of the tank. The display measures head pressure to accurately show the tank level.

Comply: (Y/N) \_\_\_\_\_

**WATER LEVEL GAUGE, CAB SIDES**

There shall be two (2) additional water level indicators, Whelen, Model: PSTANK, LED module, installed behind the cab doors, as high as practical.

Comply: (Y/N) \_\_\_\_\_

This light module shall include four (4) colored levels, and function similar to the water level indicator located at the operators panel:

- First green module indicates a full water level.
- Second blue module indicates a water level above 3/4 full.
- Third amber module indicates a water level above 1/2 full.
- Last red module indicates a water level above 1/4 full and empty.
  - Above 1/4 this light shall be steady burning.
  - At empty this light shall be flashing.

Comply: (Y/N) \_\_\_\_\_

This module shall be activated when the pump is in gear.

Comply: (Y/N) \_\_\_\_\_

**LIGHT SHIELD**

Illumination shall be provided for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. External illumination shall be a minimum of 5 foot-candles on the face of the device. Internal

illumination shall be a minimum of 4 foot lamberts. Comply: (Y/N) \_\_\_\_\_

Lights shall be installed under a stainless steel shield. Comply: (Y/N) \_\_\_\_\_

**ELECTRICAL**

All 12-volt electrical equipment installed by the apparatus manufacturer shall conform to modern automotive practices. All wiring shall be high temperature crosslink type. Wiring shall be run in loom or conduit where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers shall be provided which conform to SAE Standards. Wiring shall be color, function and number coded. Function and number codes shall be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Comply: (Y/N) \_\_\_\_\_

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

(1) All holes made in the roof shall be caulked with silicon. Rope caulk is not acceptable. Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof. Comply: (Y/N) \_\_\_\_\_

(2) Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body. Comply: (Y/N) \_\_\_\_\_

(3) Electrical components designed to be removed for maintenance shall not be fastened with nuts and bolts. Metal screws shall be used in mounting these devices. Also a coil of wire shall be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work. Comply: (Y/N) \_\_\_\_\_

(4) Corrosion preventative compound shall be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation (of the plug). Comply: (Y/N) \_\_\_\_\_

(5) All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area. Comply: (Y/N) \_\_\_\_\_

(6) All electrical terminals in exposed areas shall have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches shall be mounted on a separate panel installed in the cab. A master warning light switch and individual switches to be provided to allow preselection of emergency lights. The light switches shall be "rocker" type with an internal indicator light to show when switch is energized. All switches shall be properly identified and mounted in a removable panel for ease in servicing. Identification of the switches shall be done by either printing or etching on the switch panel. The switches and identification shall be illuminated. Comply: (Y/N) \_\_\_\_\_

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, shall be furnished. Rear identification lights shall be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads shall be protected from damage by installing a false bulkhead inside the rear compartments. Comply: (Y/N) \_\_\_\_\_

An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order. Comply: (Y/N) \_\_\_\_\_

The results of the tests shall be recorded and provided to the purchaser at time of delivery. Comply: (Y/N) \_\_\_\_\_

**STEP LIGHTS**

Four (4) LED, step lights shall be provided. One (1) step light shall be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard. Comply: (Y/N) \_\_\_\_\_

These step lights shall be actuated with the pump panel light switch. Comply: (Y/N) \_\_\_\_\_

**REAR FMVSS LIGHTING**

The rear stop/tail and directional LED lighting shall consist of the following: Comply: (Y/N) \_\_\_\_\_

- Two (2) Whelen model 60R00XRR red LED stop/tail lights.
- Two (2) Whelen model 60A00TAR amber LED arrow turn lights.

Each light shall be installed separately at the rear with a flange. Comply: (Y/N) \_\_\_\_\_

Four (4) red reflectors shall be provided. Comply: (Y/N) \_\_\_\_\_

A Weldon, Model 23882-2600-00, license plate bracket shall be mounted on the driver's side above the warning lights. A Weldon, Model 9186-23882-30, step lamp shall illuminate the license plate. Comply: (Y/N) \_\_\_\_\_

Two (2) Whelen, Model: 60J000CR, backup lights shall be provided. Comply: (Y/N) \_\_\_\_\_

Both lights shall be installed with 6E or 64 Flange Kit. Comply: (Y/N) \_\_\_\_\_

The three (3) identification lights located at the rear shall be installed per the following:  
As close as practical to the vertical Centerline.  
Centers spaced not less than six (6) inches or more than twelve (12) inches apart.  
Red in color.  
All at the same height.  
(3) Ri-Tar red Model M27 LED lights or (1) Truck Lite model 15050R LED ID bar  
Comply: (Y/N) \_\_\_\_\_

The outside clearance lights located at the rear shall be installed per the following:  
To indicate the overall width of the vehicle.  
At least one (1) each side of the vertical Centerline.

All at the same height.  
As near the top as practical.  
To be visible from the rear and the side.  
(4) Ri-Tar red Model M27 LED lights

Comply: (Y/N) \_\_\_\_\_

Per FMVSS 108 and CMVSS 108 requirements.

Comply: (Y/N) \_\_\_\_\_

**MAP LIGHT**

One (1) map light with goose neck and toggle switch control shall be provided. The map light shall be a Federal Lite, Model LF18ESB, and be located on the center console. Each map light shall be provided with an 18.00" long flexible neck that exits the top of the chassis mount.

Comply: (Y/N) \_\_\_\_\_

Each light shall be provided with a red filter that easily slides over the clear lamp for night vision.

Comply: (Y/N) \_\_\_\_\_

**"DO NOT MOVE APPARATUS" INDICATOR**

A Whelen, model CR12, rotating beacon indicator light with red lens (located in the driving compartment) shall be illuminated automatically (per NFPA 1996 edition, 9-11 or 1999 edition, 11-11) when the vehicle's parking brake is not fully engaged, and passenger or equipment door is open, or powered light tower is extended. The light shall be labeled "Do Not Move Apparatus If Light Is On".

Comply: (Y/N) \_\_\_\_\_

**OPEN DOOR INDICATOR LIGHT**

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

Comply: (Y/N) \_\_\_\_\_

**COMPARTMENT LIGHTING**

6.00" diameter Truck-Lite, model 79384, light/s shall be provided in each enclosed compartment. Each light shall have a number 1076 one filament, two wire bulb.

Comply: (Y/N) \_\_\_\_\_

Opening the compartment door shall automatically turn compartment lighting on.

Comply: (Y/N) \_\_\_\_\_

**PUMP COMPARTMENT LIGHT**

A compartment light shall be provided inside the pump enclosure.

Comply: (Y/N) \_\_\_\_\_

**PERIMETER SCENE LIGHTS, CAB**

There shall be a Truck-Lite, model 40003, 4.00" grommet mount weatherproof light provided for each cab door. Lighting shall be designed to provide illumination on areas under the driver, officer, and crew cab riding area exits, which shall be activated automatically when the exit doors are opened and by the same means as the body perimeter lights. Comply: (Y/N) \_\_\_\_\_

The lighting shall be capable of providing illumination at a minimum level of one (1) foot-candle on ground areas within 30.00" of the edge of the apparatus in areas which personnel climb in or

out of the apparatus or descend from the apparatus to the ground level. Comply: (Y/N) \_\_\_\_\_

**PERIMETER SCENE LIGHTS, BODY**

There shall be a total of four (4) Truck-Lite, model 40003, 4.00" grommet mount weatherproof lights provided on the apparatus. Two (2) lights shall be provided under the rear step area and two (2) lights shall be provided under the pump panel running boards. The lights shall be spaced one (1) each side of apparatus and have a clear lens. The perimeter scene lights shall be activated by a rocker switch in the cab. Comply: (Y/N) \_\_\_\_\_

The lighting shall be capable of providing illumination at a minimum level of one (1) foot-candle on ground areas within 30.00" of the edge of the apparatus in areas designed for personnel to climb onto the apparatus or descend from the apparatus to the ground level. Comply: (Y/N) \_\_\_\_\_

**REAR SCENE LIGHTS**

One (1) pair of Whelen, Model 60\*000\*U, halogen scene lights shall be installed at the rear of the truck, on each side of the rear of the body as high as possible. Comply: (Y/N) \_\_\_\_\_

These lights shall have thirteen degree internal optics. Comply: (Y/N) \_\_\_\_\_

The lights shall be controlled by rocker switch in the cab. Comply: (Y/N) \_\_\_\_\_

These lights shall be installed with flange. Comply: (Y/N) \_\_\_\_\_

**12 VOLT LIGHTING**

Two (2) lights, Havis-Shields, Magnafire 3000 Model: 31, 70 watt, 12VDC, floodlights with switch, shall be installed, each side of the pump house. Comply: (Y/N) \_\_\_\_\_

A pull up pole, side mount shall be installed for each light head. Comply: (Y/N) \_\_\_\_\_

These lights shall be load managed when the parking brake is set. Comply: (Y/N) \_\_\_\_\_

These lights shall not be connected to the Do Not Move Truck indicator. Comply: (Y/N) \_\_\_\_\_

**CAB SPOTLIGHT**

One (1) GOLIGHT, model 2020, will be mounted in front of the lightbar, centered on the cab roof. The spotlight will be remote controlled from inside the cab, by a four (4) position joystick. The joystick will be within easy reach of the driver. Comply: (Y/N) \_\_\_\_\_

**DECK LIGHTS**

Two (2)-6.00" Unity AG deck lights with swivel mount shall be provided at the rear of the hose bed, one (1) each side. Comply: (Y/N) \_\_\_\_\_

One (1) light shall be furnished with a 160,000 candle power halogen spot bulb and the other shall be furnished with a 6,000 candle power halogen flood bulb. Comply: (Y/N) \_\_\_\_\_

**AIR HORN SYSTEM**

Two (2) Grover air horns shall be provided and located, in the front bumper, recessed each side of the hose tray. The horn system shall be piped to the air brake system wet tank utilizing .38" tubing. A pressure protection valve shall be installed in-line to prevent loss of air, in the air brake system. Comply: (Y/N) \_\_\_\_\_

**AIR HORN CONTROL**

The air horns shall be actuated by a push button located on officer side instrument panel and by the horn button in the steering wheel. The driver shall have the option to control the air horns or the chassis horns from the horn button by means of a selector switch located on the instrument panel. Comply: (Y/N) \_\_\_\_\_

**ELECTRONIC SIREN**

A Whelen, Model: 295HFSA1, electronic siren with noise canceling microphone shall be provided. Comply: (Y/N) \_\_\_\_\_

Siren head shall be located in the center console. Comply: (Y/N) \_\_\_\_\_

The electronic siren shall be controlled on the siren head only. No horn button or foot switches shall be required. Comply: (Y/N) \_\_\_\_\_

**SPEAKER**

There shall be one (1) speaker provided and recessed in the bumper extension. Each speaker shall be a Federal, model BP100P, 100 watt, bumper mount, with polished aluminum finish. Each speaker shall be connected to the siren amplifier. Comply: (Y/N) \_\_\_\_\_

**ELECTRONIC SIREN, (Auxiliary)**

A Federal, model E-Q2B, electronic siren with noise canceling microphone shall be provided. Comply: (Y/N) \_\_\_\_\_

**SWITCHES, MECHANICAL SIREN**

The mechanical siren shall be actuated by one (1) foot switch located on the driver's side and a push button switch on the officer's side of cab. Comply: (Y/N) \_\_\_\_\_

**AUXILIARY SPEAKER**

There shall be one (1) speaker recessed in the front bumper, driver's side. Comply: (Y/N) \_\_\_\_\_

The speaker to be supplied shall be a Federal, Model: BP200-EF, 200 watt. Comply: (Y/N) \_\_\_\_\_

This speaker shall be connected to the auxiliary electronic siren. Comply: (Y/N) \_\_\_\_\_

**WARNING LIGHTS**

A Whelen Freedom model FN\*\*QLED lightbar shall be mounted on the cab roof. Comply: (Y/N) \_\_\_\_\_

The length of the lightbar shall be 72" Comply: (Y/N) \_\_\_\_\_

The lightbar shall include the following:

- Six (6) red flashing forward facing LED modules.
- Two (2) clear flashing forward facing LED modules.
- Two (2) red flashing front corner LED modules.
- One (1) red flashing driver side facing LED module.
- One (1) red flashing officer side facing LED module.
- One (1) Opticom™, traffic light controller with National standard.

Comply: (Y/N) \_\_\_\_\_

All lenses shall be clear

Comply: (Y/N) \_\_\_\_\_

Two (2) switches located in the cab on the switch panel shall control this lightbar.

- One (1) switch for the warning lights.
- One (1) switch for the traffic light controller.

Comply: (Y/N) \_\_\_\_\_

To meet NFPA requirements the clear warning lights and the traffic light controller will be turned off when the parking brake is set.

Comply: (Y/N) \_\_\_\_\_

**SIDE ZONE LOWER LIGHTING**

Four (4) Whelen model 60\*02F\*R, flashing Super LED warning lights shall be located in the following positions:

- Two (2) lights, one each side on the bumper extension
  - The color of these lights shall be red Super LED/red lens each side.
- Two (2) lights, one each side in the rear body fender panel area.
  - The color of these lights shall be red Super LED/red lens each side.

Comply: (Y/N) \_\_\_\_\_

The above four (4) lights shall be required to meet or exceed the lower level optical warning and optical power requirements of NFPA.

Comply: (Y/N) \_\_\_\_\_

These lights shall be controlled by a lighted switch on the cab instrument panel.

Comply: (Y/N) \_\_\_\_\_

These lights shall be installed with a flange.

Comply: (Y/N) \_\_\_\_\_

**REAR ZONE LOWER LIGHTING**

Two (2) Whelen model 60\*02F\*R flashing "Super" LED warning lights shall be located at the rear of the apparatus, required to meet or exceed the lower level optical warning and optical power requirements of NFPA.

Comply: (Y/N) \_\_\_\_\_

The color of these lights shall be red Super LED/red lens.

Comply: (Y/N) \_\_\_\_\_

One (1) switch in the cab on the switch panel shall control these lights. Comply: (Y/N) \_\_\_\_\_

These lights shall be installed with a flange.

Comply: (Y/N) \_\_\_\_\_

**WARNING LIGHTS (Rear of Hose Bed)**

Two (2) Whelen L31HRFN LED warning beacons shall be provided at the rear of the truck located one (1) each side. These lights shall be activated by a lighted switch on the instrument panel. The color of the lights shall be red. Comply: (Y/N) \_\_\_\_\_

The rear warning lights shall be mounted on top of the compartmentation with all wiring totally enclosed. The rear deck lights shall be mounted on the beavertails high as possible.

Comply: (Y/N) \_\_\_\_\_

**PAINT**

The exterior custom body painting finishing process as follows:

Manual Surface Preparation - All exposed metal surfaces on the custom body shall be thoroughly cleaned and prepared for painting. Surfaces that shall not be painted include all chrome plated, stainless steel, anodized aluminum and bright aluminum tread plate. Each imperfection on the exterior metal surface shall be removed or filled and then sanded smooth for a smooth appearance. All seams shall be sealed before painting. Comply: (Y/N) \_\_\_\_\_

Chemical Cleaning and Treatment - The metal surfaces shall be properly cleaned using an acid etching system. Surfaces are chemically cleaned to remove all dirt, oil, grease and metal oxides to ensure the subsequent coatings bond well. An ultra pure water final rinse shall be applied to all metal surfaces, excluding undercarriage components, at the conclusion of the metal treatment process. Comply: (Y/N) \_\_\_\_\_

Sealer Primer Coat - A two (2) component sealer primer coat shall be applied.

Comply: (Y/N) \_\_\_\_\_

Topcoat Paint - Two (2) coats of an automotive grade, two (2) component acrylic urethane paint, shall also be applied. Comply: (Y/N) \_\_\_\_\_

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

Comply: (Y/N) \_\_\_\_\_

The chassis shall be painted by the chassis manufacturer, and shall remain the commercial grade finish as provided. To ensure a good color match between the body and chassis, the apparatus manufacturer and chassis manufacturer shall have a mutually pre-approved paint color program.

The apparatus shall be painted candy apple red.

Comply: (Y/N) \_\_\_\_\_

Prior to reassembly and reinstallation of lights, handrails, door hardware and any miscellaneous body items, an isolation tape or gasket material must be used to prevent damage to the finish painted surfaces (no exceptions). A nylon washer shall be installed under each acorn nut or metal screw that is fastened directly to a painted body surface. Comply: (Y/N) \_\_\_\_\_

**PAINT - ENVIRONMENTAL IMPACT**

Contractor shall meet or exceed all current State (his) regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water and soil. Controls shall include the following conditions:

- Topcoats and primers must be chrome and lead free.
- Metal treatment chemicals must be chrome free. The wastewater generated in the metal treatment process must be treated to remove any other heavy metals.
- Particulate emissions from painting operations must be collected by a dry filter or water wash process.
- Solvents used in clean-up operations must be collected, sent off-site for distillation and returned for reuse.

Comply: (Y/N) \_\_\_\_\_

Additionally, the finished apparatus shall not be manufactured with or contain products that have ozone depleting substances. Contractor shall, upon demand, present evidence that his manufacturing facility meets the above conditions and that it is in compliance with his State EPA rules and regulations.

Comply: (Y/N) \_\_\_\_\_

**PAINT CHASSIS FRAME ASSEMBLY**

The chassis frame assembly shall remain the color and paint quality as received from the chassis manufacturer. The frame and components shall not be repainted.

Comply: (Y/N) \_\_\_\_\_

Components that are considered part of the "frame assembly" are frame rails, cross members, axles, suspension, steering gear and the fuel tank.

Comply: (Y/N) \_\_\_\_\_

**PAINT, COMPARTMENT INTERIOR**

Interior of compartmentation shall be painted with gray spatter type paint. Comply: (Y/N) \_\_\_\_\_

**REFLECTIVE STRIPES**

Three (3) reflective stripes shall be provided across the front of the vehicle and along the sides of the body. The reflective band shall consist of a 1.00" blue stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" blue stripe on the bottom. A 4.00" band shall be provided at the rear of the apparatus.

Comply: (Y/N) \_\_\_\_\_

**"Z" JOG IN REFLECTIVE STRIPE**

There shall be One (1) "Z"-shaped jog/s provided in the reflective stripe design.

Comply: (Y/N) \_\_\_\_\_

**CHEVRON/INVERTED "V" STRIPING ON REAR BULKHEADS**

There shall be alternating chevron striping located on the rear bulkheads. Comply: (Y/N) \_\_\_\_\_

The striping shall consist of the following colors:

The first color shall be red  
The second color shall be fluorescent green

Comply: (Y/N) \_\_\_\_\_

The size of the striping shall be 4.00".

Comply: (Y/N) \_\_\_\_\_

The reflective band provided on the cab face shall be between the front grille and the front bumper.

Comply: (Y/N) \_\_\_\_\_

**REFLECTIVE STRIPE, CAB DOORS**

A 6.00" x 16.00" white reflective stripe shall be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the stainless steel door panel.

Comply: (Y/N) \_\_\_\_\_

This stripe shall meet the NFPA 1901 requirement.

Comply: (Y/N) \_\_\_\_\_

**REFLECTIVE LETTERING**

Three (3) letters, 18.00" high white reflective shall be installed on the crew cab roof.

Comply: (Y/N) \_\_\_\_\_

**REFLECTIVE LETTERING ON ROLL-UP DOORS**

Six (6) letters, 18.00" high letter/s, made of blue reflective vinyl, with outline or shade, shall be installed on the roll-up doors at the rear each side and on the rear of the body. Navy blue numbers with white outline on side and red with black outline on rear.

Comply: (Y/N) \_\_\_\_\_

**EMBLEMS -- CUSTOMIZED**

One (1) pair of Scotchlite emblems shall be fabricated from fire department supplied artwork. The emblems shall be installed over-the-wheel compartment doors. The size of these emblems shall be approximately 24" by 24".

Comply: (Y/N) \_\_\_\_\_

**EMBLEMS --CAB DOORS**

One (1) pair of Scotchlite emblems shall be fabricated from fire department supplied artwork. The emblems shall be installed on front cab doors and shall match the county fire department seals.

Comply: (Y/N) \_\_\_\_\_

**NFPA 2004 STANDARDS**

This unit must comply with the NFPA standards effective January of 2004.

Comply: (Y/N) \_\_\_\_\_

Certification of slip resistance of all stepping, standing and walking surfaces must be supplied with delivery of the apparatus.

Comply: (Y/N) \_\_\_\_\_

A plate that is highly visible to the driver while seated shall be provided. This plate shall show the overall height, length, and gross vehicle weight rating.

Comply: (Y/N) \_\_\_\_\_

The manufacturer shall have programs in place for training, proficiency testing and performance for any staff involved with certifications.

Comply: (Y/N) \_\_\_\_\_

**3.1 DEFINITIONS**

**Addenda:** A written change to a solicitation.

**Bid:** Shall refer to any offer(s) submitted in response to this Invitation to Bid.

**Bidder:** Shall refer to anyone submitting a bid in response to an Invitation to Bid.

**Contract:** The agreement to perform the services set forth in this solicitation. The contract will be comprised of the solicitation document signed by both parties with any addenda and other attachments specifically incorporated.

**Contractor:** The vendor to which award has been made.

**County:** Shall refer to Lake County, Florida.

**Invitation to Bid (ITB):** Shall mean this solicitation document, including any and all addenda. An ITB contains well-defined terms, conditions, and specifications, and is awarded to the lowest priced responsive and responsible bidder.

**Modification:** A written change to a contract.

**Responsible:** Refers to a bidder that has the capacity and capability to perform the work required under an Invitation to Bid, and is otherwise eligible for award.

**Responsive:** Refers to a bidder that has taken no exception or deviation from the terms, conditions, and specifications set forth in an Invitation to Bid.

**Solicitation:** The written document requesting either bids or proposals from the marketplace.

**Vendor:** A general reference to any entity responding to this solicitation or performing under any resulting contract.

The County has established that the words “shall”, “must”, or “will” are equivalent within this ITB and indicate a mandatory requirement which shall not be waived by the County.

**3.2 INSTRUCTIONS TO BIDDERS****A. Bidder Qualification**

It is the policy of the County to encourage full and open competition among all available qualified vendors. All vendors regularly engaged in the type of work specified in the solicitation are encouraged to submit bids. To be recommended for award the County requires that vendors provide evidence of compliance with the requirements below upon request:

1. Disclosure of Employment
2. Disclosure of Ownership
3. Drug-Free Workplace
4. W-9 and 8109 Forms – The vendor must furnish these forms upon request as required by the Internal Revenue Service.
5. Social Security Number – The vendor must provide a copy of the primary owner’s social security card if the social security number is being used in lieu of the Federal Identification Number (F.E.I.N.)
6. Americans with Disabilities Act (A.D.A.)
7. Conflict of Interest
8. Debarment Disclosure Affidavit
9. Nondiscrimination
10. Family Leave
11. Antitrust Laws – By acceptance of any contract, the vendor agrees to comply with all applicable antitrust laws.

**B. Public Entity Crimes**

Pursuant to Section 287.133(2)(a) of the Florida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 of the Florida Statutes, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

**C. Request for Additional Information**

Any communication or inquiries, except for clarification of process or procedure already contained in the solicitation, are to be made in

writing to the attention of the procurement representative identified in the solicitation no later than five (5) working days prior to the bid due date. Such inquiries shall contain the requester’s name, address, and telephone number. The Procurement Services Office may issue an addendum in response to any inquiry received, prior to bid opening, which changes, adds to, or clarifies the terms, provisions, or requirements of the solicitation. The bidder should not rely on any statement or explanation whether written or verbal, other than those made in this solicitation document or in any addenda issued. Where there appears to be a conflict between this solicitation and any addenda, the last addendum issued shall prevail. It is the bidder’s responsibility to ensure receipt and to acknowledge all addenda and any accompanying documentation. Failure to acknowledge each addendum may prevent the bid from being considered for award

**D. Contents of Solicitation and Bidders’ Responsibilities**

It is the responsibility of the bidder to become thoroughly familiar with the requirements, terms, and conditions of this solicitation. Stated unawareness of contractual terms and conditions will not be accepted as a basis for varying the requirements of the County or the amount to be paid to the vendor.

**E. Restricted Discussions**

From the date of issuance of this solicitation until final County action, vendors should not discuss the solicitation with any employee, agent, or any other representative of the County except as authorized by the designated procurement representative. The only communications that shall be considered pertinent to this solicitation are written documents from the vendor addressed to the designated procurement representative and relevant documents promulgated by the designated procurement representative.

**F. Change to, Withdrawal of, or Mistake in, Bid**

**Changes to Bid** - Prior to bid opening, a bidder may change its bid by submitting a new bid with notice on the firm’s letterhead, signed by an authorized agent, stating that the new submittal replaces the original submittal. The new submittal shall contain all information as required for submitting the original bid.

**Withdrawal of Bid** - A bid may be withdrawn, either physically or by written notice, at any time prior to the bid due date. If withdrawn by written notice, that notice must be addressed to, and received by, the designated procurement representative prior to the bid due date and time. A bid may also be withdrawn after expiration of the specified bid acceptance period, and prior to award, by submitting a letter to the designated procurement representative. The withdrawal letter must be on company letterhead and signed by an authorized agent of the bidder.

**Mistake in Bid** - Any allegation of mistake in Bid shall be treated on a case-by-case basis. It is to be assumed that any alteration in bid price after receipt of bids will be exceptional in nature, and will be allowed only when substantiated by current legal precedence.

**G. Conflicts within the Solicitation**

Where there appears to be a conflict between contractual terms and conditions, the technical specifications, the pricing section, or any addendum issued, the order of precedence shall be: last addendum issued, the pricing section, the technical specifications, the special, and then general conditions. It is incumbent upon the vendor to identify such conflicts prior to the bid response date.

**H. Prompt Payment Terms**

It is the policy of the County that payment for all purchases by County agencies shall be made in a timely manner and that interest payments will be made on late payments in accordance with Part VII, Chapter 218, Florida Statutes, known as the Florida Prompt Payment Act. The bidder may offer cash discounts for prompt payments; however, such discounts will not be considered in determining the lowest price during bid evaluation. Bidders are requested to provide prompt payment terms in the space provided on the signature page of the solicitation.

**3.3 PREPARATION OF BIDS**

- A. The Pricing Section of this solicitation defines the goods or services to be purchased, and must be completed and submitted with the bid. Use of any other form or alteration of

the form may result in the rejection of the bid.

- B. The bid submitted must be legible, and completed using typewriter, computer or ink. Any entry change must be crossed out and initialed in ink. Failure to comply with these requirements may cause the bid to be rejected.
- C. An authorized agent of the bidder's firm must sign the bid. **FAILURE TO SIGN THE BID MAY RENDER THE BID NON-RESPONSIVE.**
- D. The bidder may be considered non-responsive if bids are conditioned to modifications, changes, or revisions to the terms and conditions of this solicitation.
- E. The bidder may submit alternate bid(s) for the same solicitation provided that such offer is allowable under the terms and conditions. The alternate bid must meet or exceed the minimum requirements and be submitted as a separate bid marked "Alternate Bid".
- F. When there is a discrepancy between the unit prices and any extended prices, the unit prices will prevail.
- G. Any bid received after the stipulated bid due date and time through no fault of the County will be considered late, and except under the most exceptional circumstances, not be considered for award.
- H. Unless otherwise specified in the solicitation, prices quoted shall be F.O.B. Destination.

### 3.4 COLLUSION

Where two (2) or more related parties, as defined herein, each submit a bid for the same contract, or evidence any prior understanding, agreement, or connection in such regard, such bids shall be presumed to be collusive. Related parties shall mean bidder or principals thereof that have a direct or indirect ownership interest in another bidder for the same contract or in which a parent company or the principals thereof of one bidder have a direct or indirect ownership interest in another bidder for the same contract. Bids found to be collusive shall be rejected. Bidders which have been found to have engaged in collusion may be considered non-responsive, and may be suspended or debarred. Any contract resulting from collusive bidding may be terminated for default.

### 3.5 PROHIBITION AGAINST CONTINGENT FEES

The vendor warrants that they have not employed or retained any company or person, other than a bona fide employee working solely for the vendor to solicit or secure the contract and that they have not paid or agreed to pay any person, company, corporation, individual, or firm, other than a bona fide employee working solely for the vendor, any consideration contingent upon or resulting from the award or making of the contract.

### 3.6 CONTRACTING WITH COUNTY EMPLOYEES

Any County employee or member of his or her immediate family seeking to contract with the County shall seek a conflict of interest opinion from the County Attorney prior to submittal of a response to contract with the County. The affected employee shall disclose the employee's assigned function within the County and interest or the interest of his or her immediate family in the proposed contract and the nature of the intended contract.

### 3.7 INCURRED EXPENSES

This solicitation does not commit the County to award nor be responsible for any cost or expense which may be incurred by any bidder in preparing or submitting a bid, or any cost or expense incurred prior to the execution of a purchase order or contract.

### 3.8 COUNTY IS TAX-EXEMPT

When purchasing on a direct basis, the County is generally exempt from Federal Excise Taxes and all State of Florida sales and use taxes. The County will provide an exemption certificate if requested by the seller for such purchases. Except for item(s) specifically identified by the vendor and accepted by the County for direct County purchase under the Sales Tax Recovery Program, Contractors doing business with the County are not exempt from

paying sales tax to their suppliers for materials to fulfill contractual obligations with the County, nor shall any contractor be authorized to use any of the County's Tax Exemptions in securing such materials.

### 3.9 PROPRIETARY/CONFIDENTIAL INFORMATION

Bidders are hereby notified that all information submitted as part of a bid will be available for public inspection in compliance with Chapter 119 of the Florida Statutes (the "Public Record Act."). The bidder should not submit any information which the bidder considers proprietary or confidential. The submission of any information to the County in connection with any solicitation shall be deemed conclusively to be a waiver of any protection from release of the submitted information unless such information is exempt or confidential under the Public Records Act.

### 3.10 CANCELLATION OF SOLICITATION

The County reserves the right to cancel, in whole or in part, any Invitation to Bid when it is in the best interest of the County.

### 3.11 AWARD

- A. Unless otherwise allowed by statute or ordinance, award will be made to the lowest priced responsive and responsible bidder. The County reserves the right to reject any and all bids, to waive non-material irregularities or technicalities and to re-advertise for all or any part of this solicitation as deemed in its best interest. The County shall be the sole judge of its best interest.
- B. When there are multiple line items in a solicitation, the County reserves the right to award on an individual item basis, any combination of items, total low bid or in whichever manner deemed in the best interest of the County. This provision specifically supersedes any method of award criteria stated in the solicitation when such action is clearly necessary to protect the best interests of the County.
- C. The County reserves the right to reject any and all bids if it is determined that prices are excessive or determined to be unreasonable, or it is otherwise determined to be in the County's best interest to do so.
- D. The County reserves the right to negotiate prices with the low bidder, provided that the scope of work is not amended.
- E. Award will only be made to firms that satisfy all legal requirements to do business with the County. The County may conduct a pre-award inspection of the bidder's site or conduct a pre-award qualification meeting to determine the responsibility and capacity of the bidder to perform. Award may be predicated on compliance with and submittal of all required documents as stipulated in the solicitation.
- F. The bidder's performance as prime or subcontractor on previous County contracts shall be taken into account in evaluating the responsibility of a responding bidder.
- G. The Director of Procurement Services will decide all tie bids in consonance with current written procedure in that regard.
- H. A vendor wishing to protest any award decision resulting from this solicitation shall do as provided for in the County's Purchasing Procedure Manual.

### 3.12 GENERAL CONTRACT CONDITIONS

The contract shall be binding upon and shall inure to the benefit of each of the parties and of their respective successors and permitted assigns. The contract may not be amended, released, discharged, rescinded or abandoned, except by a written instrument duly executed by each of the parties hereto. The failure of any party hereto at any time to enforce any of the provisions of the contract will in no way constitute or be construed as a waiver of such provision or of any other provision hereof, nor in any way affect the validity of, or the right thereafter to enforce, each and every provision of the contract. Any dispute arising during the course of contract performance that is not readily rectified by coordination between the vendor and the County user department shall be referred to Procurement Services office for resolution.

**3.13 OTHER AGENCIES**

With the consent of the vendor, other agencies may make purchases in accordance with the contract. Such purchases shall be governed by the same terms and conditions as stated herein with the exception of the change in agency name.

**3.14 CONTRACT EXTENSION**

The County has the unilateral option to extend a contract for up to ninety (90) calendar days beyond the current contract period. In such event, the County will notify the vendor(s) in writing of such extensions. The contract may be extended beyond the initial ninety (90) day extension upon mutual agreement between the County and the vendor(s). Exercise of the above options requires the prior approval of the Director of Procurement Services.

**3.15 WARRANTY**

All warranties express and implied, shall be made available to the County for goods and services covered by this solicitation. All goods furnished shall be fully guaranteed by the vendor against factory defects and workmanship. At no expense to the County, the vendor shall correct any and all apparent and latent defects that may occur within the manufacturer's standard warranty period. The special conditions of the solicitation may supersede the manufacturer's standard warranty.

**3.16 ESTIMATED QUANTITIES**

Estimated quantities or dollars are for bidder's guidance only. No guarantee is expressed or implied as to quantities or dollar value that will be used during the contract period. The County is not obligated to place any order for a given amount subsequent to the award of this solicitation. The County may use estimated quantities in the award evaluation process. Estimated quantities do not contemplate or include possible additional quantities that may be ordered by other entities that may utilize this contract. In no event shall the County be liable for payments in excess of the amount due for quantities of goods or services actually ordered.

**3.17 NON-EXCLUSIVITY**

It is the intent of the County to enter into an agreement that will satisfy its needs as described within this solicitation. However, the County reserves the right to perform, or cause to be performed, all or any of the work and services herein described in the manner deemed to represent its best interests. In no case will the County be liable for billings in excess of the quantity of goods or services actually provided under this contract.

**3.18 CONTINUATION OF WORK**

Any work that commences prior to, and will extend, beyond the expiration date of the current contract period shall, unless terminated by mutual written agreement between the County and the vendor, continue until completion without change to the then current prices, terms and conditions.

**3.19 LAWS, RULES, REGULATIONS AND LICENSES**

The vendor shall comply with all federal, state, and local laws and regulations applicable to provision of the goods and/or services specified in this solicitation. During the term of the contract the vendor assures that it is in compliance with Title VII of the 1964 Civil Rights Act, as amended, and the Florida Civil Rights Act of 1992, in that the vendor does not on the grounds of race, color, national origin, religion, sex, age, disability or marital status, discrimination in any form or manner against the end/or employees or applicants for employment. The vendor understands that any contract is conditioned upon the veracity of this statement.

**3.20 SUBCONTRACTING**

Unless otherwise stipulated herein, the vendor shall not subcontract any portion of the work without the prior written consent of the County. Subcontracting without the prior consent of the County may result in termination of the contract for default.

**3.21 ASSIGNMENT**

The vendor shall not assign or transfer any contract resulting from this solicitation, including any rights, title or interest therein, or its power to execute such contract to any person, company or corporation without the prior written consent of the County. This provision specifically includes any acquisition or hostile takeover of the awarded vendor. Failure to comply in this regards may result in termination of the contract for default.

**3.22 RESPONSIBILITY AS EMPLOYER**

The employee(s) of the vendor shall be considered at all times its employee(s), and not an employee(s) or agent(s) of the County, The contractor shall provide employee(s) capable of performing the work as required. The County may require the contractor to remove any employee it deems unacceptable. All employees of the contractor may be required to wear appropriate identification.

**3.23 INDEMNIFICATION**

To the extent permitted by law, the vendor shall indemnify and hold harmless the County and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorney's fees and costs of defense, which the County or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of the agreement by the vendor or its employees, agents, servants, partners, principals or subcontractors. The vendor shall pay all claims and losses in connection therewith, and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the County, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorney's fees which may be incurred thereon. The vendor expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the vendor shall in no way limit the responsibility to indemnify, keep and save harmless and defend the County or its officers, employees, agents and instrumentalities as herein provided.

**3.24 MODIFICATION OF CONTRACT**

Any contract resulting from this solicitation may be modified by mutual consent of duly authorized parties, in writing through the issuance of a modification to the contract and/or purchase order as appropriate. This presumes the modification itself is in compliance with all applicable County procedures.

**3.25 TERMINATION FOR CONVENIENCE**

The County, at its sole discretion, reserves the right to terminate this contract upon thirty (30) days written notice. Upon receipt of such notice, the vendor shall not incur any additional costs under this contract. The County shall be liable only for reasonable costs incurred by the vendor prior to notice of termination. The County shall be the sole judge of "reasonable costs."

**3.26 TERMINATION DUE TO UNAVAILABILITY OF CONTINUING FUNDING**

When funds are not appropriated or otherwise made available to support continuation of performance in a current or subsequent fiscal year, the contract shall be cancelled and the vendor shall be reimbursed for the reasonable value of any non-recurring costs incurred amortized in the price of the supplies or services/tasks delivered under the contract.

**3.27 TERMINATION FOR DEFAULT**

The County reserves the right to terminate this contract, in part or in whole, or effect other appropriate remedy in the event the vendor fails to perform in accordance with the terms and conditions stated herein. The County further reserves the right to suspend or debar the vendor in accordance with the County ordinances, resolutions and/or administrative orders. The vendor will be notified by letter of the County's intent to terminate. In the event of termination for default, the County may procure the

required goods and/or services from any source and use any method deemed in its best interest. All re-procurement cost shall be borne by the vendor.

### 3.28 FRAUD AND MISREPRESENTATION

Any individual, corporation or other entity that attempts to meet its contractual obligations through fraud, misrepresentation or material misstatement, may be debarred for up to five (5) years. The County as a further sanction may terminate or cancel any other contracts with such individual, corporation or entity with such vendor held responsible for all direct or indirect costs associated with termination or cancellation, including attorney's fees.

### 3.29 RIGHT TO AUDIT

The COUNTY reserves the right to require CONTRACTOR to submit to an audit by any auditor of the COUNTY's choosing. CONTRACTOR shall provide access to all of its records which relate directly or indirectly to this Agreement at its place of business during regular business hours. CONTRACTOR shall retain all records pertaining to this Agreement and upon request make them available to the COUNTY for three (3) years following expiration of the Agreement. CONTRACTOR agrees to provide such assistance as may be necessary to facilitate the review or audit by the COUNTY to ensure compliance with applicable accounting and financial standards. Additionally, CONTRACTOR agrees to include the requirements of this provision in all contracts with subcontractors and material suppliers in connection with the work performed hereunder. If an audit inspection or examination pursuant to this section discloses overpricing or overcharges of any nature by the CONTRACTOR to the COUNTY in excess of one percent (1%) of the total contract billings, in addition to making adjustments for the overcharges, the reasonable actual cost of the COUNTY's audit shall be reimbursed to the COUNTY by the CONTRACTOR. Any adjustments and/or payments which must be made as a result of any such audit or inspection of the CONTRACTOR's invoices and/or records shall be made within a reasonable amount of time, but in no event shall the time exceed ninety (90) days, from presentation of the COUNTY's audit findings to the CONTRACTOR.

### 3.30 PUBLIC RECORDS/ COPYRIGHTS

All electronic files, audio and/or video recordings, and all papers pertaining to any activity performed by the vendor for or on behalf of the County shall be the property of the County and will be turned over to the County upon request. In accordance with Chapter 119, Florida Statutes, each file and all papers pertaining to any activities performed for or on behalf of the County are public records available for inspection by any person even if the file or paper resides in the vendor's office or facility. The vendor shall maintain the files and papers for not less than three (3) complete calendar years after the project has been completed or terminated, or in accordance with any grant requirements, whichever is longer. Prior to the close out of the Contract, the vendor shall appoint a records custodian to handle any records request and provide the custodian's name and telephone number(s) to the County. Any copyright derived from this Agreement shall belong to the author. The author and the CONSULTANT shall expressly assign to the COUNTY nonexclusive, royalty free rights to use any and all information provided by the CONSULTANT in any deliverable and/or report for the COUNTY's use which may include publishing in COUNTY documents and distribution as the COUNTY deems to be in the COUNTY's best interests. If anything included in any deliverable limits the rights of the COUNTY to use the information, the deliverable shall be considered defective and not acceptable and the CONSULTANT will not be eligible for any compensation.

### 3.31 GOVERNING LAWS

The interpretation, effect, and validity of any contract(s) resulting from this solicitation shall be governed by the laws and regulations of the State of Florida, and Lake County, Florida. Venue of any

court action shall be in Lake County, Florida. In the event that a suit is brought for the enforcement of any term of the contract, or any right arising there from, the parties expressly waive their respective rights to have such action tried by jury trial and hereby consent to the use of non-jury trial for the adjudication of such suit.

### 3.32 STATE REGISTRATION REQUIREMENTS

Any corporation submitting a bid in response to this ITB shall either be registered or have applied for registration with the Florida Department of State in accordance with the provisions of Chapter 607, Florida Statutes. A copy of the registration/ application may be required prior to award of a contract. Any partnership submitting a bid in response to this ITB shall have complied with the applicable provisions of Chapter 620, Florida Statutes. For additional information on these requirements, please contact the Florida Secretary of State's Office, Division of Corporations, 800.755.5111 (<http://www.dos.state.fl.us>).

### 3.33 PRIME CONTRACTOR

The vendor awarded the contract shall act as the prime contractor and shall assume full responsibility for successful performance of the contract. The vendor shall be considered the sole point of contact with regard to meeting all requirements of the contract. All subcontractors will be subject to advance review by the County in regards to competency and security concerns. After the award of the contract no change in subcontractors will be made without the consent of the County. The vendor shall be responsible for all insurance, permits, licenses, and related matters for any and all subcontractors. Even if the subcontractor is self-insured, the County may require the contractor to provide any insurance certificates required by the work to be performed.

### 3.34 FORCE MAJEURE

The parties will exercise every reasonable effort to meet their respective obligations hereunder, but shall not be liable for delays resulting from force majeure or other causes beyond their reasonable control, including, but not limited to, compliance with revisions to Government law or regulation, acts of nature, acts or omissions of the other party, fires, strikes, national disasters, wars, riots, transportation problems and/or any other cause whatsoever beyond the reasonable control of the parties. Any such cause may be cause for appropriate extension of the performance period.

### 3.35 NO CLAIM FOR DAMAGES

No claim for damages or any claim other than for an extension of time shall be made or asserted against the County because of any delays. No interruption, interference, inefficiency, suspension, or delay in the commencement or progress of the Work shall relieve the vendor of duty to perform, or give rise to any right to damages or additional compensation from the County. The vendor's sole remedy shall be the right to seek an extension to the contract time. However, this provision shall not preclude recovery of damages by the vendor for hindrances or delays due solely to fraud, bad faith, or active interference on the part of the County.

### 3.36 TRUTH IN NEGOTIATION CERTIFICATE

For all agreements exceeding \$150,000, the firm awarded the agreement may be required to execute a truth in negotiation certificate stating that the wage rates and other factual unit costs are accurate, complete and current, at the time of contracting.

### 3.37 GRANT FUNDING

In the event any part of the contract is to be funded by federal, state, or other local agency monies, the vendor hereby agrees to comply with all requirements of the funding entity applicable to the use of the monies, including full application of requirements involving the use of minority firms, women's business enterprises, and labor surplus area firms. Vendors are advised that payments under the contract may be withheld pending completion and submission of all required forms and documents required of the vendor pursuant to the grant funding requirements.

**ITB TITLE: Fire Apparatus**

## NOTES:

- When purchasing on a direct basis, Lake County is exempt from all taxes (Federal, State, Local). A Tax Exemption Certificate will be furnished upon request for such purchases. **However, the vendor will be responsible for payment of taxes on all materials purchased by the vendor for incorporation into the project (see provision 3.8 for further detail)**
- The vendor shall not alter or amend any of the information (including, but not limited to stated units of measure, item description, or quantity) stated in the Pricing Section. If any quantities are stated in the pricing section as being “estimated” quantities, vendors are advised to review the “Estimated Quantities” clause contained in Section 3 of this solicitation.
- Any bid containing a modifying or “escalator” clause not specifically allowed for under the solicitation will not be considered.
- All pricing shall be FOB Destination unless otherwise specified in this solicitation document.
- All pricing submitted shall remain valid for a 90 day period. By signing and submitting a response to this solicitation, the vendor has specifically agreed to this condition.
- **Vendors are advised to visit our website at <http://www.lakecountyfl.gov> and register as a potential vendor. Vendors that have registered on-line receive an e-mail notice when the County issues a solicitation matching the commodity codes selected by a vendor during the registration process.**

**ACKNOWLEDGEMENT OF ADDENDA**

**INSTRUCTIONS:** Complete Part I or Part II, whichever applies

|  |
|--|
| <b>Part I:</b>   |
| <p>The bidder must list below the dates of issue for each addendum received in connection with this ITB:</p> <p style="text-align: center;">Addendum #1, Dated: _____</p> <p style="text-align: center;">Addendum #2, Dated: _____</p> <p style="text-align: center;">Addendum #3, Dated: _____</p> <p style="text-align: center;">Addendum #4, Dated: _____</p> |
| <b>Part II:</b>  |
| <p><input type="checkbox"/> No Addendum was received in connection with this ITB.</p>  |

PRICING SECTION

| Item # | Item Description   | Unit | Est. Qty | Unit Price | Extended Price |
|--------|--|------|----------|------------|----------------|
| 1.     | Fire Apparatus, Triple Combination Pumper, per the preceding specifications  | EA   | 1        | \$ _____   | \$ _____       |
| 2.     | <p>State set percent above bidders net cost for the following:</p> <p>(The County reserves the right to audit invoices from manufacturers' suppliers to verify accuracy of percentages listed below.)</p> <p>Apparatus: _____ %</p> <p>Equipment Options: _____ %</p> <p>Apparatus Accessories: _____ %</p> <p>State percentage discount from identified price list(s) of the following:</p> <p>Cab/Chassis Parts: _____ %</p> <p>Price List _____</p> <p>Date of Price List _____</p> <p>Body Parts: _____ %</p> <p>Price List _____</p> <p>Date of Price List _____</p> <p>Bidder has included a complete description of apparatus construction?</p> <p>Yes _____ No _____</p> |      |          |            |                |

|   |  |  |  |  |
|---|--|--|--|--|
| <p>Nearest factory-authorized parts and service facility:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Miles from facility to Groveland, Florida (34736):_____</p> <p>Name/Telephone/Cell/Pager Numbers of contact person:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Attach any extended warranties offered and the yearly costs after all the initial warranties expire (noted in warranty section in the Special Terms and Conditions)</p> <p>Guaranteed delivery time for specified fire apparatus after receipt of purchase order:</p> <p>_____ Days</p> <p><u>Exceptions/Additions to specifications:</u><br/>                 Note: it shall be unacceptable for any bidder to make the statement “see specifications” in lieu of listing all exceptions/additions from the preceding specifications. It shall also be unacceptable for any bidder to submit the manufacturer’s literature in lieu of the above. ALL exceptions/additions to our specifications shall be either handwritten or typed on the bidders letterhead stationery and attached to their bid submittal.</p> |  |  |  |  |
|---|--|--|--|--|

**By Signing this Bid the Bidder Attests and Certifies that:**

- It satisfies all legal requirements (as an entity) to do business with the County.
- The undersigned vendor acknowledges that award of a contract may be contingent upon a determination by the County that the vendor has the capacity and capability to successfully perform the contract.
- The bidder hereby certifies that it understands all requirements of this solicitation, and that the undersigned individual is duly authorized to execute this bid document and any contract(s) and/or other transactions required by award of this solicitation.

**Certification Regarding Acceptance of County Electronic Payable Process**

Vendor will accept payment using the County’s VISA- based electronic payment system:  Yes  No

**Purchasing Agreements with Other Government Agencies**

This section is optional and will not affect contract award. If Lake County awarded you the proposed contract, would you sell under the same terms and conditions, for the same price, to other governmental agencies in the State of Florida? Each governmental agency desiring to accept to utilize this contract shall be responsible for its own purchases and shall be liable only for materials or services ordered and received by it.  Yes  No (Check one)

**Certification Regarding Felony Conviction**

Has any officer, director, or an executive performing equivalent duties, of the bidding entity been convicted of a felony during the past ten (10) years?  Yes  No (Check one)

**Reciprocal Vendor Preference:**

Vendors are advised the County has established, under Lake County Code, Chapter 2, Article VII, Sections 2-221 and 2-222, a process under which a local vendor preference program applied by another county may be applied in a reciprocal manner within Lake County. The following information is needed to support application of the Code:

1. Primary business location of the responding vendor (city/state): \_\_\_\_\_
2. Does the responding vendor maintain a significant physical location in Lake County at which employees are located and business is regularly transacted:  Yes  No If “yes” is checked, provide supporting detail:  
\_\_\_\_\_

**Conflict of Interest Disclosure Certification**

Except as listed below, no employee, officer, or agent of the firm has any conflicts of interest, real or apparent, due to ownership, other clients, contracts, or interests associated with this project; and, this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same services, and is in all respects fair and without collusion or fraud.

**DUNS Number** (Insert if this action involves a federal funded project): \_\_\_\_\_

| <b>General Vendor Information and Bid Signature:</b>   |   |
|--|---|
| Firm Name: _____   |   |
| Street Address: _____  |   |
| Mailing Address (if different): _____  |   |
| Telephone No.: _____   | Fax No.: _____  |
|  | E-mail: _____   |
| FEIN No. _____ - _____   | Prompt Payment Terms: _____ % _____ days, net _____               |
| Signature: _____   | Date: _____   |
| Print Name: _____  | Title: _____  |
| <b>Award of Contract by the County: (Official Use Only)</b>  |   |
| By signature below, the County confirms award to the above-identified vendor under the above identified solicitation. A separate purchase order will be generated by the County to support the contract. |   |
| <b>Vendor awarded as:</b>  |   |
| <input type="checkbox"/> Sole vendor   | <input type="checkbox"/> Pre-qualified pool vendor based on price |
| <input type="checkbox"/> Pre-qualified pool vendor (spot bid)  | <input type="checkbox"/> Primary vendor for items: _____          |
| <input type="checkbox"/> Secondary vendor for items: _____   | <input type="checkbox"/> Other status: _____                      |
| Signature of authorized County official: _____   | Date: _____   |
| Printed name: _____  | Title: _____  |
| Purchase Order Number assigned to this contract for billing purposes: _____  |   |

**THE FOLLOWING DOCUMENTS ARE ATTACHED**

**Attachment 1: References – complete and submit in bid/proposal**

REFERENCES

|                    |  |
|--------------------|--|
| Agency             |  |
| Address            |  |
| City,State,ZIP     |  |
| Contact Person     |  |
| Telephone          |  |
| Date(s) of Service |  |
| Type of Service    |  |
| Comments:          |  |

|                    |  |
|--------------------|--|
| Agency             |  |
| Address            |  |
| City,State,ZIP     |  |
| Contact Person     |  |
| Telephone          |  |
| Date(s) of Service |  |
| Type of Service    |  |
| Comments:          |  |

|                    |  |
|--------------------|--|
| Agency             |  |
| Address            |  |
| City,State,ZIP     |  |
| Contact Person     |  |
| Telephone          |  |
| Date(s) of Service |  |
| Type of Service    |  |
| Comments:          |  |