

## INVITATION TO BID

# EASTON FIRE DEPARTMENT

Refurbishment of one (1) 2005 Emergency One Pumper Engine 5

The Town of Easton Massachusetts is requesting bids for the refurbishment of the Fire Department's 2005 Emergency One Pumper Engine 5 as outlined in the attached specifications.

The Town reserves the right to reject any and all bids in the best interest of the Town.

### **Intent of Specifications**

It is the intent of these specifications to cover the refurbishing process herein as specified, with a view towards obtaining increased safety and service life of the apparatus. These specifications cover minimum requirements as to the type of repairs, construction, finish, and tests to which the apparatus must conform, together with certain details as to equipment and appliances to be furnished. Minor details of construction, materials, where not otherwise specified, are left to the discretion of the contractor who shall conform to industry standards along with applicable requirements of the current NFPA standards. Exempt are original designs that remain unchanged.

### **Exceptions**

Substitutions, deviations, clarifications, or exceptions to these specifications must be listed on a separate page marked, "EXCEPTIONS" and must be accompanied by adequate data to allow the Fire Chief to determine acceptability. Proposals that are found to have deviations without listing them will be rejected.

### **Pre-Bid Meeting**

No bid will be accepted unless the prospective bidder has thoroughly inspected the vehicle and become fully knowledgeable as to the work to be performed. In order to allow all potential bidders an equal opportunity to be acquainted with the apparatus and specifications, a mandatory information session shall be held at the Easton Fire Department Headquarters, 413 Bay Road, South Easton, MA 02375 on September 18, 2018, at 2:00 pm. Bids will not be accepted from any vendor that does not meet this qualification.

### **Bid Identification**

The outside of the sealed envelope must be clearly marked "Easton Fire Department –Bid for Refurbishment of Engine 5" with the name of the bidder on the exterior of the envelope. It must be addressed to the attention of the Chief Procurement Office in the Office of the Town Administrator, located at the Easton Town Offices, 136 Elm Street, No. Easton, MA 02356. The bid must be received/delivered by October 5, 2018, by 10:00 am, at which time the bids will be opened and read aloud.

The bid shall be awarded to the lowest responsive and responsible bidder by the Town of Easton in accordance with these specifications.

### **Qualification of Bidders**

Bids will only be considered from companies that have been in the business of emergency apparatus refurbishment without interruption for a minimum period of no less than ten (10) years.

Bids shall only be accepted from corporations registered to do business in this state. Bidders must submit a copy of a current "Certificate of Good Standing" from The Secretary of State. No contract or purchase order shall be awarded to any bidder not meeting this requirement.

### **Service Requirements**

It is the intent of the department to assure that parts and service are readily available for the apparatus specified. SERVICE CAPABILITIES WILL BE A MAJOR CRITERIA FOR AWARD OF THIS BID. To insure proper service, no bid will be accepted unless the bidder has a facility within fifty (50) miles of the town of Easton, MA. The facility must provide access to parts and service for emergency vehicles. The facility must be staffed by full time personnel who are properly trained and EVT certified in the operation and repair of fire apparatus, including the fire pump. In addition, the facility shall have access to the complete inventory including major pump parts, body components, electrical items, fire apparatus hardware, etc., and shall offer in-house services including pump overhaul, body fabrication, collision repair, and a paint shop complete with a cross flow booth with air makeup and bake options to insure the highest quality paint finish available. The bidder must be able to conduct an on-site pump test at a suitable pump test station. Bids from companies who use third party service personnel, facilities, or who do not offer a service center will be immediately rejected.

## **Emergency Vehicle Technician Qualifications**

Due to the highly specialized nature of fire apparatus repair, emergency vehicle technicians (EVT's) employed by the bidder shall be in conformance with NFPA standards 1915 and 1071. The bidder shall employ E.V.T. and ASE certified personnel including a minimum of one (1) employee that carries a current "Master EVT/ASE" certification for fire apparatus. Proof of current certifications must be supplied with the bid.

## **Service Qualification Requirements**

The bidder shall include the following information with their bid.

- Number of miles from the Town of Easton to the bidders facility, which must be owned and operated by the bidder (maximum 50 miles):
- The length of time the bidder has been in the emergency vehicle refurbishment and repair business (minimum 10 years).
- There must be a full body/collision repair, fabrication, paint booth, and pump test services on-site:
- Facility must have EVT, ASE, and paint certified personnel on staff.

## **Project Management**

The bidder must employ a full time on-site manager to oversee the project.

## **Bid response Requirements**

- The bidder shall meet all requirements listed in this document and show proof of credentials to perform the work and procedures as specified. Bidders not meeting the qualifications and specifications herein shall be rejected.
- The bidder shall supply the Easton Fire Department with a list of the last ten (10) fire truck rehabs done by the bidder for the purpose of reference checks. The information provided by the bidder shall include contact name, contact telephone number, organization name vehicle type, and type of work performed.
- Each bidder must submit signed documents included in the bid specifications including:
  - Town of Easton Contract Document completed
  - Certificate of Signatures
  - Certificate of Non-Collusion
  - Insurance Certificate showing Town of Easton as additional insured

- Certificate of Good Faith
  - Certificate of Tax Compliance
  - Certificate of Good Standing for Corporation or Certificate of Legal Existence
- Each bidder shall carry and maintain proper insurance throughout the project in an amount of not less than \$2,000,000.00 of aggregate coverage. An official insurance binder stating the coverage amounts shall be supplied with each vendors bid and shall list the Town of Easton on the policy.
  - Each bidder shall submit a “Certificate of Good Standing” from the Secretary of the Commonwealth of Massachusetts.
  - The bidder shall own or offer service facilities within fifty (50) miles of the Town of Easton. The facility shall maintain a complete inventory of major parts, body components, electrical items and hardware suitable for the emergency repair of the fire apparatus. The facility shall offer services including body fabrication, collision repair and a paint shop.
  - Upon completion of the work and upon acceptance by the Easton Fire Department, the vehicle will be inspected and using this document each item and paragraph of this document will be checked for compliance. No deviation from this specification will be permitted unless the vendor has submitted such proposed deviation in writing with the final bid document and such exceptions are accepted by the Town.

### **Information/Contact**

Questions regarding this bid should be directed to the Fire Chief, Kevin Partridge.

### **Rule for Award**

The contract will be awarded to the responsive and responsible bidder who meets the qualifications of this document and is offering the lowest total price for the specified work.

Bidders who do not meet the Service Qualification Requirements will be rejected.

No award will be made to any bidder who cannot satisfy the Town that the bidder has sufficient ability and experience in this work and sufficient resources to enable the bidder to complete the work successfully within the time allowed. The Town’s decision or judgment on these matters will be final, conclusive and binding.

The town may make such investigations as the Town deems necessary and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request.

The contract will be awarded within sixty days after the bid opening unless the time for the award is extended by mutual consent of the parties.

### **Town's Right to Reject Bids**

The Awarding Authority reserves the right to reject any or all bids, if it is in the public interest to do so.

The Town may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informality or reject any and all bids, should the Town deem it to be in the public interest.

The Town may also reject bids, which in its sole judgment are incomplete, conditional, obscure, or not responsive, or which contain additional not called for, erasures not properly initialed, alterations or similar irregularities, or the Town may waive such omissions, conditions, or irregularities, if considered minor.

In these matters, the Town's decision shall be final, conclusive, and binding.

# SPECIFICATIONS

## **1.0 EVALUATIONS, SERVICES, AND TESTING**

### **1.01 Pre-Refurb Inspection (Pumper)**

Prior to the start of the refurbishing process, the successful bidder shall perform a complete and thorough inspection of the apparatus by an OEM approved and EVT certified technician. The inspection shall include checks on the chassis and pump to confirm proper function and to disclose any possible wear and or damage. Also, a visual structural inspection shall be performed on the apparatus cab, pump enclosure, body, and water tank sub-frame as access allows. The department shall be notified along with any associated cost(s) should any repairs be required that fall outside the scope of these specifications. No additional repairs shall be performed without proper authorization by the department.

### **1.02 Apparatus Maintenance**

Perform a thorough "annual service" to the chassis, engine, and fire pump. OEM approved synthetic fluids shall be used for the engine. Each vendor shall supply full details of their proposed service.

### **1.03 Pump Test**

The fire pump shall have a three-stage service test performed. After successful completion of the three stage test a four stage test shall be performed with the apparatus flowing full capacity of the fire pump at 165 psi for five minutes. Any accessories of the fire pump shall also be tested to confirm proper operation. This shall include any installed foam system, pump governor, pressure relief valves, transfer valve, pump shift, or similar accessory as equipped.

Repair and or adjust the Primer operation and assure pump vacuum test, replace the pump input and output shaft seals, refer to pump test report completed on 8/10/18.

The department shall be notified along with any associated cost(s) should any repairs be required that fall outside the scope of these specifications. No additional repairs shall be performed without proper authorization by the department. NOTE: A second full pump test shall be performed at the completion of the refurbishment and prior to delivery to confirm proper component performance and operation. A pump test report shall be provided to the Department for their service records.

#### **1.04 Suspension and Brake Inspection**

The apparatus' suspension shall be thoroughly inspected by a third party specialist. The department shall be notified along with any associated cost(s) should any repairs be required that fall outside the scope of these specifications. No additional repairs shall be performed without proper authorization by the department.

#### **1.05 Steam Clean Apparatus**

The apparatus' cab, chassis, powertrain, fire pump, body, and related components shall be thoroughly steam cleaned.

#### **1.06 Evaluate 12VDC Electrical Systems**

The components of the apparatus' DC electrical systems and shoreline charger shall be inspected to confirm proper condition and performance. The inspections shall include a test of the alternator for its rated voltage and amperage. The systems cable ends and or wiring junctions shall be inspected for signs of corrosion and or overheating. Proper grounding of the system shall be checked and confirmed. The department shall be notified along with any associated cost(s) should any repairs be required that fall outside the scope of these specifications. No additional repairs shall be performed without proper authorization by the department.

#### **1.07 Air conditioning**

The air conditioning system's refrigerant shall be evacuated and then recharged as required. Then the system shall be tested for proper function and checked for refrigerant leaks.

#### **1.08 Generator service**

The apparatus hydraulic generator shall have the filter changed and the fluid inspected. The output of the generator shall be tested against the models specifications.

### **2.0 CHASSIS**

#### **2.01 Chassis Frame**

The chassis and related components shall be thoroughly steam cleaned. The left and right main c-channel frame rails shall be replaced with new galvanized rails. All accessible areas of surface corrosion on the chassis crossmembers and frame rail extensions shall be blasted as required, prepared, and then refinished with black POR15 chassis protectant or equivalent. Care is to be taken as to not damage sensitive chassis mounted components during this process.

## **2.02 Chassis Air System**

The chassis air system shall be checked for condition and loss of air. The system protection valve(s) shall also be tested for proper operation. Supply and install four (4) new OEM chassis air tanks, fittings, and brackets as original.

## **2.03 Battery Brackets and Trays**

The left and right chassis battery tray brackets shall be replaced as original. The battery trays, hold downs and covers shall be replaced as required. The batteries shall be load tested and the battery cable ends shall be cleaned and terminal protectant shall be applied to all exposed connections.

## **2.04 Fuel tank**

The apparatus fuel tank and sender shall be replaced as original. The fuel tank strap rubber isolator shall be replaced and any steel fuel tank straps shall be upgraded to stainless.

## **2.05 Suspension**

The front and rear springs, pins, bushings, and u-bolts shall be replaced as original along with any hardware kits. The remaining suspension components shall be inspected for proper condition. The department shall be notified along with any associated cost(s) should any repairs be required that fall outside the scope of these specifications. No additional repairs shall be performed without proper authorization by the department.

## **3.0 CAB / BODY**

### **3.01 Cab Doors**

Supply and install four (4) new OEM exterior cab door handles. The remaining door components shall be inspected for condition and proper operation.

The department shall be notified should repairs be required beyond the scope of this specification along with any associated cost. No additional repairs shall be performed without proper authorization by the department.

### **3.02 Arm rests**

The drivers & officers rubber armrests (2) on the engine cover shall be replaced as original.

### **3.03 Folding steps**

The two (2) folding steps on the front corners of the body that are stuck in the down position shall be replaced as original.

### **3.04 Body rubrails**

The anodized aluminum body rubrails shall be replaced as original including new plastic endcaps and reflective insert. The existing rubrail marker lights shall be inspected, tested for operation and remounted in the new rubrails.

### **3.05 Grab rail stanchions**

Any cracked grab rail stanchions shall be replaced including new rubber gaskets.

### **3.06 D-ring handles**

The three (3) d-ring handles on the ladder tunnel and right side pump panel access doors shall be removed, the aluminum doors cleaned and the handles replaced including new rubber gaskets.

### **3.07 Beavertail hose plates**

The two (2) stainless hose plates on the inside of the diamond plate beavertails shall be removed, cleaned, the diamond plate cleaned and the plates reinstalled using new isolation tape.

### **3.08 Bumper filler**

The aluminum diamond plate bumper filler shall be replaced as original.

## **4.0 ELECTRICAL**

### **4.01 Cab Telescoping Scene Lights**

Supply and install two (2) new Whelen dual panel pioneer plus LED 120 V AC flood light heads to the existing poles on the back of the cab. The new light heads shall be wired to power and controlled as original.

### **4.02 Cab Brow Lights**

Supply and install two (2) new Whelen dual panel pioneer plus LED 12 V flood lights on the front of the cab. The new light heads shall be wired to power and controlled as original.

### **4.03 Cab Side Scene Lights**

Supply and install two new Whelen model 70COELZR LED 12V scene lights one each side of the cab to replace the existing halogen scene lights. The new lights shall be wired to power and controlled as original.

#### **4.04 Pump Panel Lights**

Remove and replace the existing pump panel lights with LED direct replacements. The new lights shall be powered and controlled as original.

#### **4.05 Q2B**

The operation of the Federal Signal Q2B mechanical siren and brake shall be tested. The solenoid inspected for corrosion and the front grill replaced as original.

#### **4.06 Rear Body Scene/Deck Lights**

Supply and install two new Whelen model PAR-46 LED flood light inserts to the existing unity scene/deck light housings at the rear of the apparatus body. The new lights shall be wired to power and controlled as original.

#### **4.07 Hosebed light**

The hosebed load light shall be replaced with a new tecniq P06-WBFP-1 1900 lumen LED flood work light. The light shall be controlled as original.

#### **4.08 Step Lighting**

Any existing incandescent cab step lights shall be replaced with new LED direct replacements. The new LED lights shall be wired and controlled as original.

#### **4.09 Ground Lighting**

Any existing incandescent ground lights shall be replaced with new LED direct replacements. The new LED lights shall be wired and controlled as original.

#### **4.10 Compartment Lights**

Any existing incandescent body compartment lights shall be removed and replaced with new LED direct replacements and mounting grommets.

#### **4.11 Auto eject**

The operation of the apparatus auto eject inlet shall be tested and the flip up cover replaced.

### **5.0 PUMP & PLUMBING RELATED**

#### **5.01 Pump Ball Valves**

All discharge/intake pump ball valves up to and including 3" for the fire pump shall be removed, inspected, and rebuilt using OEM rebuild kits. The valve bodies and flanges shall be checked for signs of distortion. After rebuilding the fire pump shall be pressure and vacuum tested to confirm a proper repair. The pull rods for the ball valves shall be cleaned of corrosion and refinished to insure proper protection and longevity. The clevis pins for the pull rods shall be replaced and lubricated as required.

### **5.02 Pump packing**

The pump packing shall be removed and replaced using an OEM packing set. The new packing shall be installed, adjusted and "run-in" to fully seat its sealing capabilities. After the installation, the fire pump shall be pressure and vacuum tested to confirm a proper repair. The packing gland, lock, and pump shall be inspected during disassembly.

### **5.03 Pressure gauge**

Replace one (1) leaking 2.5" pressure gauge on pump panel.

### **5.04 Electronic gauges.**

The corroded aluminum bezels of the pump panel tank level gauges (2), pump governor and tacpro gauges shall be sanded, masked and painted black. The decals on both tank level gauges shall be replaced.

## **6.0 PAINT**

### **6.01 Paint Upper Cab Black**

The apparatus upper cab shall be prepared and refinished black to match the Easton fire department's 2014 E-One pumper Engine 2's paint codes using a high grade automotive refinishing process that is approved for use on aluminum. To assure full coverage of metal treatments and paint to the exterior painted surfaces of the apparatus, the upper cab shall have no fastener mounted or otherwise removable components still mounted prior to the preparation and paint application. The hinged cab doors shall be painted separately (off the truck) to insure proper paint coverage on the doors and jambs. The height of the paint break shall remain unchanged but shall "dip to the grill" on the front face of the cab to match Engine 2 as closely as possible. The cab and body shall be refinished using a Sikkens paint system and applied by a Sikkens and ASE certified painter. Painter certificates shall be supplied with the bid.

### **6.02 Clean Hardware**

All removed cab hardware and components shall be thoroughly cleaned prior to reinstallation.

### **6.03 Corrosion Protection**

During the reassembly process all mounted components that penetrate the newly painted apparatus exterior shall utilize new gaskets and their hardware and mounting surface coated with ECK protectant as per the apparatus OEM's guidelines.

### **6.04 Cab Door Window Frames**

The cab door window frames shall be prepared and painted black.

#### **6.05 Lettering**

The apparatus shall be renumbered to Engine 3 and the gold and blue pinstripe at the cab paint brake and the gold "EASTON" above the cab grill shall be replaced as original.

#### **6.06 NFPA Scotchlite Stripe**

The apparatus white scotchlite stripe shall be replaced with an otherwise identical black reflective scotchlite triple stripe.

### **7.0 MISCELLANEOUS**

#### **7.01 Final Cleaning / Detailing**

Upon completion of all repairs and prior to delivery, the apparatus shall be thoroughly cleaned and detailed. This shall include the cab interior and apparatus exterior.

#### **7.02 Fluids Check/Lubricate Components**

Check all fluids levels and lube components prior to delivery.

#### **7.03 Warranty**

All bidders shall provide a written statement of warranty with their bid. The warranty shall provide a minimum of one (1) year of coverage for parts and labor on the work as detailed in these specifications.

#### **7.04 Completion**

All work associated with the refurbishment of Engine 5 as described in the specifications shall be completed within 120 days starting from the time the apparatus is delivered to the bidder's facility. Each and every day past the deadline shall be assessed a penalty of \$100.00 per day and deducted off the final invoice.