

# **Beaumont Reserve Fleet Statement of Work**

## **Purchase of 28' Patrol boat with Honda Engines, Electronics, HVAC, Generator & Trailer**

### **1. INTRODUCTION:**

- 1.1. Description: Purchase of (1) new 28' patrol boat with (2) Honda Outboard 150HP engines, Electronics, HVAC, Generator & Trailer.

### **2. ABSTRACT:**

- 2.1. Patrol boats are starting to show the wear and tear they have been put through over the last 15 years. Developing leaks and other deficiencies that we are having to fix and not have boats in the water for patrol and passengers when needed.

### **3. SCOPE OF WORK:**

- 3.1 Purchase of new 28' aluminum boat with (2) new Honda engines and all electronics including HVAC, Generator, and Trailer. The contractor/vendor shall provide/sell/supply the following: Specifications listed below.

#### **3.2. HULL & DECK**

##### **3.2.1. Model**

- 2884DVWB2-SB2

##### **3.2.2. Length**

- 28'5" (approx. 30'7" LOA with motor bracket)

##### **3.2.3. Beam**

- 8' 6"

##### **3.2.4. Deadrise**

- 18 degrees

##### **3.2.5. Bottom**

- 1/4" aluminum 5086 alloy, 7' wide.

##### **3.2.6. Side**

- 3/16" aluminum 5086 alloy, 36" height

##### **3.2.7. Front Deck**

- 3/16" aluminum tread plate, 6' long with a collision bulkhead.

##### **3.2.8. Front Deck Extension**

- 3/16" (9' total deck length)

##### **3.2.9. Longitudinal frames**

- 4" flat bar keel
- 2" angle keel protector
- Two 3/16" vertical flange plate girders
- Four 2" x 3" angle-fitting strakes

##### **3.2.10. Transverse Frames**

- 3" t-bar hull bottom frames
- 2" square tubing double bottom frames

##### **3.2.11. Transom**

- 1/4" aluminum plate, 5086 alloy, with reinforcements.

##### **3.2.12. Gunnel**

- 10" wide tread plate

#### **3.2.13. Rubber Rubrail**

- 3" D rubber bumper perimeter with aluminum coned ends.

#### **3.2.14. Tire Bumpers**

- One row of 14" diameter air craft tires installed with stainless wire rope thru padeye hangers at the center of each tire and secured with stainless clamps at every third tire.

#### **3.2.15. Double Bottom**

- 3/16" tread plate, seal welded airtight, tested at 2 psi.

### **3.3. CABIN**

#### **3.3.1. Dimensions**

- 10" long inside, approximately 6' 4" centerline clearance constructed of 1/8" aluminum plate.

#### **3.3.2. Cabin Forward**

- Center door with stainless door dog and 1/4" safety glass. Remaining sections to have 1/4" safety glass.

#### **3.3.3. Cabin Sides**

- Custom 68" Long Horizontal slide windows, one port, and one starboard. The remaining sections are to have 1/4" safety glass.

#### **3.3.4. Cabin Rear bulkhead**

- Center door with stainless door dog and 1/4" safety glass. The remaining sections are to have 1/4" safety glass.

#### **3.3.5. Cabin Top**

- Two handrails the length of the cabin, port, and stbd.

### **3.4. CABIN INSIDE**

#### **3.4.1. Captain Seat**

- One heavy-duty, with an adjustable high backrest, armrest, and seat slider, with a pedestal and footrest.

#### **3.4.2. Storage / Seat Port**

- One bench seat/storage 86" long with seat/lid 63" long with a 2" vinyl bottom cushion and a 4" vinyl back cushion.

#### **3.4.3. Storage / Seat Stbd**

- One bench seat/storage 86" long with seat/lid 63" long with a 2" vinyl bottom cushion and a 4" vinyl back cushion.

#### **3.4.4. Table**

- 3/16" aluminum table top approximately 30" deep installed on the port side attached to the cabin forward bulkhead., with a shelf for customer furnished microwave.

#### **3.4.5. Console**

- 26" wide, stbd side, with removable face plate.

#### **3.4.6. Instrument Box**

- One overhead over the console.

#### **3.4.7. Roof Insulation**

- Foam insulation on the ceiling with ornite (FRP) cover and trim.

### **3.5. HATCHES**

#### **3.5.1. Hatch Water Tight**

- One 15" x 24" single lever quick-acting hatch to access the under-deck compartment.

### **3.6. PROPULSION, PERFORMANCE**

#### **3.6.1. Motor bracket Dual**

- Dual outboard bracket, extends out 30" fitted for 25" shaft outboards, with a tread plate platform across the transom, and two aluminum bolted inspection hatches.

#### **3.6.2. Motor Guard**

- 2" sch 80 pipe with a 10" wide tread plate perimeter, and removable rear section.

#### **3.6.3. Outboards**

- Dual Honda 150 HP, 4-stroke outboards, 25" shaft, mechanical controls, Honda HD-4 LCD multi-functional gauge, and three-blade stainless propellers.
- Propellers must have the correct size and pitch for full weight load.

#### **3.6.4. Steering**

- Seastar hydraulic steering for dual outboards, with an HH5272 helm, dual HC5345 cylinders, HO6002 stainless tie bar, and stainless steering wheel.

#### **3.6.5. Trim Tabs**

- Lectro Marine aluminum trim tabs, 12v actuators, with rocker switch.

### **3.7. FUEL SYSTEM**

#### **3.7.1. Gas Fuel Tank**

- Two 75-gallon aluminum fuel tanks installed at the rear of the cabin.
- Note, the fuel tank meets or exceeds requirements of EPA, USCG Regulations, and ABYC standards.

#### **3.7.2. Gas Fuel System**

- Two fuel valve
- Two water separators
- Two Teleflex fuel gauges
- Two Wema fuel sending unit
- Shields 3/8" fuel hose (EPA ethanol approved)

### **3.8. MOORING / TOWING / LIFTING**

#### **3.8.1. Cleats**

- Four 14" wide x 1-1/2" round rod cleats for mooring, with a 1-1/4" x 6" flat bar thru gunnel and welded to the side of the hull for lifting.
- Four additional cleats, two cleats installed at the back of the cab one port and one stbd, and two cleats installed at the side of the sliding windows one port and one stbd.
- Four certified lifting eyes to lift the boat out of the water.

#### **3.8.2. Push Knees**

- 4' solid rubber bumper push knees, installed 12" above deck and 20" below deck.

#### **3.8.3. Bow Bit**

- Two button chocks, 3" sch 80 pipes, one on top of each push knee.

#### **3.8.4. Tow Bit**

- 4" sch 80 aluminum pipe, 36" tall with 1-1/2" rod crucifix.

#### **3.8.5. Tow Bit Guard**

- Constructed of 2" sch 40 Aluminum pipe creating two pipes across the top of the engine.

#### 3.8.6. Davit

- One Aluminum pipe davit, 400 lb capacity, with 12v winch, stainless wire rope and hook, with two socket capable of moving davit to port or stbd side.

### 3.9. 12V DC DISTRIBUTION

#### 3.9.1. Battery

- Three 12V marine batteries 1,000ca (840 cca), with ABS box.

#### 3.9.2. Battery Switch

- Three Perko 8501, battery switches (1, 2, ALL, Off selections).

#### 3.9.3. Switch Panel

- One Bluesea 4308, 8-switch fused switch panel.
- Bluesea 5026, 12 circuit fuse panel with a negative bus.
- Main fuse at the battery.

#### 3.9.4. Battery Charger

- Two Yamaha battery charging isolators to house the battery.

#### 3.9.5. 12V Receptacle

- One SeaDog 426115, 12V receptacle installed on the console.

#### 3.9.6. Battery Meter

- One SeaDog 426517, in dash DC voltmeter with USB.

### 3.10. LIGHTS

#### 3.10.1 Navigation Lights

- LED side mount running lights
- LED 36" all-around stern light.

#### 3.10.2. Search Lights

- One ACR model RCL-95, LED searchlight 460.000 CP remote control, mounted to a pipe pedestal.

#### 3.10.3. Flood Lights

- Two Optronix UCL20CB, 12V LED Spot/Flood light bar 22", 4521 lumens.

#### 3.10.4. Cabin Lights

- Two SeaDog 400353, 12V LED Cabin dome lights with an on/off/on toggle switch to switch between Red or White light colors.

### 3.11. NAVIGATION EQUIPMENT

#### 3.11.1. Radar Stand

- One 12" tall stationary radar stand with your company logo cut into it.

#### 3.11.2. Radar Combo

- One Garmin 1042x sv, 10" high-resolution screen, 18" HD Radome 4 Kw radar, 35 nm range, GPS Chartplotter, and sonar/depth, with NMEA 2000.

#### 3.11.3 VHF Radio

- One Uniden VHF Radio, with an 8' antenna and ratchet mount.

#### 3.11.4. Flag Pole

- Removable flag pole and socket mounted to the rear of the cabin.

### 3.12. SECURITY EQUIPMENT

#### 3.12.1 Light Bar

- One Aviator Linear LED light bar, Blue colored linear LEDs, 12V DC, Selectable Flash Patterns, aluminum housing, fully weatherproof, 24” long, 12” wide, 3” tall.

### 3.13. CATHODIC PROTECTION

#### 3.13.1 Anodes

- Three 5 Lb zinc anodes for use in brackish and saltwater.

### 3.14. COATINGS & FLOORING

#### 3.14.1. Paint

- Blast and paint waterline down, 10 mils of epoxy primer, and 5 mils of anti-fouling color black.

### 3.15. 120V AC DISTRIBUTION

#### 3.15.1. Generator

- One Honda EU7000i, inverter generator, electric start with the battery mounted on four isolated pads.

#### 3.15.2. Generator stand

- One Aluminum generator stand with a removable cover, vents, and lockable hatch.

#### 3.15.3. Circuit Protection

- One breaker panel with ground fault breakers, three receptacles (1 port aft, 1 port fwd, and 1 stbd fwd), with a twist lock plug disconnect from the generator.

### 3.16. CLIMATE CONTROL

#### 3.16.1. Air Conditioner

- Two Dometic Commercial, 15,000 BTU roof mount, 120V AC, with electric heat strip.

### 3.17. SAFETY EQUIPMENT

#### 3.17.1. Windshield Wiper

- Two SeaDog 41228W, 12V heavy duty windshield wiper.

#### 3.17.2. Horn

- One SeaDog 431510, 12v single trumpet horn, stainless

#### 3.17.3. Bilge Pump

- One Rule RM2000, 2000gph, 12v automatic, stainless thru hull.

#### 3.17.4. Fire Extinguisher

- Two 10B: C USCG approved with bracket.

#### 3.17.5. CO Detector

- One safe-T 62-541, Carbon Monoxide detector with memory scan that retains the CO level that activated the alarm.

#### 3.17.6. Steps

- Step at rear deck, 18” wide, one port and one starboard, with a 1” grabrail behind cabin.

### 3.17.7. Life Ring

- One 24" orange life ring bouy with retro-reflective tape, a storage bag that contains 90' of highly visible 3/8" polypropylene floating rope and aluminum bracket.

### 3.18. TRAILER

#### 3.18.1. Magic Tilt: TTCA28130

- Aluminum frame
- Triple Axle, 15" Tires
- 13,000 LB Net Capacity
- Vertical guide posts, Buddy Bearings, Jack
- Forward adjustable bunks with polymer covers
- Rear 3" x 10" solid bunks with carpet covers
- Winch post with steps
- Surge disc brakes on all axles, Spare tire & mounting bracket

### 4. ITEM LOCATION:

- 4.1 Beaumont Reserve Fleet  
2600 Amoco Road Beaumont, Tx 77705

### 5. DEFINITIONS:

- 5.1 N/A

### 6. PERFORMANCE CRITERIA/DELIVERABLES:

- 6.1 Provide a written warranty
- 6.2 Boat will be delivered to Beaumont Reserve Fleet.
- 6.3 All bolts, screws, clamps, etc., is stainless steel. All wiring to be double insulated multi-strand copper wiring and all electrical wire penetrations thru bulkheads have rubber grommets to prevent stray current corrosion and electrical short circuits, in accordance with ABYC and USCG 46 CRF.

### 7. SITE VISIT:

- 7.1. N/A

### 8. POINTS OF CONTACT:

- 8.1. Contracting Officer: Bridget Bonnacarrere, [bridget.bonnecarre@dot.gov](mailto:bridget.bonnecarre@dot.gov)

### 9. GOVERNMENT-FURNISHED/MATERIAL:

- 9.1 N/A

### 10. GOVERNMENT-FURNISHED SERVICES:

- 10.1 NA

### 11. GENERAL SPECIFICATIONS AND WORK REQUIREMENTS:

- 11.1 Beaumont Reserve Fleet hours of operation are 6:30 am to 5:00 pm Monday-Thursday and No National holidays.
- 11.2 Materials or equipment identified in the specifications will be new OEM. Provided with standard manufacturers' warranties and applicable to manufacturers' specifications.