

## Scope of Work

### 1. SCOPE

The City of Arlington seeks bids for a one-time purchase for the removal and replacement of the marker buoy (float line) on Lake Arlington for the Arlington Water Utilities Department. The marker buoy (float line) is approximately 1,200 feet long, including regulatory buoy anchors with associated cables and anchoring system.

All items shall be new, unused, and suitable for their intended purpose. All products shall be Worthington Products, Inc. manufactured or an approved equivalent by the Arlington Water Utilities Department.

All fees and charges shall be included in the total lump sum cost, no additional charges will be paid by the City. The bidder shall submit the total cost for the removal and replacement of the marker buoy on the Bid Offer and submit a breakdown of the total cost that includes the cost of labor, materials, and equipment rentals.

Services shall be performed at, and all items shall be delivered to the location listed below during normal business hours:

**5700 Lake Arlington Drive**

**Arlington, TX 76013**

### 2. MARKER BUOY REMOVAL AND REPLACEMENT

The Contractor shall remove and properly dispose of existing marker buoys, float lines, cables, and anchors. See Exhibit A for the current and required replacement marker buoy.

The Contractor shall furnish and install new marker buoys, float lines, cables, and anchors. Approx. 1,200 linear feet.

The following materials must meet the specifications below and will need to be replaced by the Contractor.

#### **BARRIER FLOAT BUOY\***

##### DIMENSIONS & DESIGN REQUIREMENTS:

1. Diameter: 18 IN
2. Length: 30 IN
3. Submerged Buoyancy: 200 LBS

##### MATERIALS & EQUIPMENT:

1. Hull: UV resistant polyethylene.
2. Fill: Polyurethane foam.
3. Thru rod: 1/2 IN minimum diameter galvanized steel rod.
4. Swivel-Eye: Type 304 stainless steel.

## **FLOAT COLLAR REGULATORY BUOY\***

### DIMENSIONS & DESIGN REQUIREMENTS:

1. Can Diameter: 14 IN
2. Can Height: 30 IN
3. Float Collar Diameter: 28 IN
4. Float Collar Height: 12 IN
5. Draft: Under 9 IN
6. Submerged Buoyancy: 320 LBS, minimum
7. Accessories:
  - a. Bottom internal ballast
  - b. Stainless steel anchoring eye
  - c. Stainless steel side ballast eye(s)
    - i. Two (2) per buoy for barrier float buoy anchorage.
  - d. Solar Light
    - i. Visibility: 1 mile
    - ii. Lens/LED Color: Clear

### MATERIALS & EQUIPMENT:

1. Hull: UV resistant polyethylene.
2. Fill: Polyurethane foam.
3. Eyebolts: Type 304 stainless steel.
4. Solar light: LED type

## **POLYPROPYLENE COATED CABLE\***

### DIMENSIONS & DESIGN REQUIREMENTS:

1. Galvanized Steel Wire Rope Diameter: 3/8-IN
2. Outer Diameter with Polypropylene Coating: 15/32-IN
3. Breaking strength, minimum: 14,000 LBS

## **SUBMERGED BUOY ANCHORING CABLE\***

### DIMENSIONS & DESIGN REQUIREMENTS:

1. Wire Cable Diameter: 1/2-IN

### MATERIALS & EQUIPMENT:

1. Wire Cable Material: Type 304 stainless steel

**\*All hardware (unless listed above) and cable connection pieces shall be Type 304 stainless steel.**

### 3. FABRICATION AND DESIGN

1. Hull shall be seamless one-piece construction using UV resistant high-density polyethylene.
2. Refer to Drawings for markings on float collar regulatory buoys.
3. Refer to Drawings for location of eyebolts.
4. See Specification 03 00 05 and 03 15 19 for buoy system anchors. Buoy anchor system and blocks shall be designed by buoy manufacturer or professional engineer.
5. Refer to Drawings for buoy anchor details, including counterweight assembly.

Any manufacturer's names, trade names, brand names, information and/or catalog numbers listed in this specification are for information and not intended to limit competition unless otherwise indicated. Bidders may offer any brand for which he/she is an authorized representative, which meets or exceeds the bid specification for any item(s). If bids are based on equivalent products, indicate on the Bid Offer the manufacturer's product name and reference number.

Bidders shall explain the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Bids which do not comply with these requirements are subject to rejection. Bids lacking any written indication of intent to bid an alternate brand will be received and considered incomplete.

The Water Department or designee will evaluate "equal" products on the basis of information furnished by the bidder or identified in the bid and reasonably available to the Water Department. The Water Department or designee is not responsible for locating or obtaining any information not identified in the bid.

### 4. CONTRACTOR REQUIREMENTS – FAILURE TO MEET REQUIREMENTS BELOW WILL DEEM BIDDER NON-RESPONSIVE

The Contractor shall be a minimum of 5 years in business.

The Contractor shall provide history and experience working with buoy line installation or related field.

The Contractor shall own or have the ability to obtain a work barge and a lift crane for anchor placement.

The Contractor shall have the experience to work with cables, fastener hardware, or similar materials for buoy line installation.

The Contractor shall be able to complete the Scope of Services within 90 calendar days.

### 5. SITE VISIT

There will be a site visit scheduled on April 13, 2023, from 8:30 a.m. – 2:00 p.m. We ask that you RSVP to Emily Hannon ([Emily.Hannon@arlingtontx.gov](mailto:Emily.Hannon@arlingtontx.gov)) by April 12, 2023 at 5:00 p.m., if you plan to attend the site visit due to this area being a secured property. The site visit will be located at the following location:

**5700 Lake Arlington Drive**  
**Arlington, TX 76013**