

**SECTION 10 81 05**  
**WATER FEATURES**

**PART 1 GENERAL****1.1 SECTION INCLUDES**

A. Water features as specified in this Section and as indicated on the Drawings.

**1.2 RELATED SECTIONS**

A. Section 03 30 53 - Cast-In-Place Concrete: Coordination of inserts with concrete.

B. Section 22 05 11 - Common Work Resulting For Plumbing.

C. Section 26 05 11 - Requirements for Electrical Installations.

**1.3 REFERENCES**

A. ASTM C1048 - Standard Specification for Heat-Treated Flat Glass.

**1.4 SUBMITTALS**

A. Coordinate with Section 01 33 23 for general submittal requirements.

B. Product Data: Submit manufacturer's printed product data, specifications, standard details, installation instructions, maintenance instructions, and recommendations for each piece of equipment, system, and material used.

C. Shop Drawings:

1. Submit plan, section, and elevation drawings and details of anchorages, connections and accessory items.
2. Provide wiring diagrams and installation templates for work installed by others. Show all interfaces and relationships to work of other trades.
3. Coordinate with the Contract Drawings to locate placement of each unit to be installed.

D. Selection Samples: For each finish product specified, two complete sets of color samples representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product selected, two 4 inch by 4 inch (102 by 102 mm) samples.

**1.5 QUALITY ASSURANCE**

A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of three (3) years experience.

B. Installer Qualifications: All products listed in this Section shall be installed by manufacturer's representative.

C. Testing: Each water feature shall be assembled and tested at manufacturer's facility. Inspect each water feature for proper functioning. Confirm that product meets specifications and quality control standards prior to shipping.

**1.6 DELIVERY, STORAGE, AND HANDLING**

A. Store products in manufacturer's unopened packaging until ready for installation.

**1.7 PROJECT CONDITIONS**

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

B. Field Measurements: Verify field measurements with drawing dimensions prior to fabrication of products.

**1.8 WARRANTY**

A. Water Feature: Manufacturer warrants the product, for a period of one year from the original date of purchase, to be free from defects in workmanship and faulty operation. Warranty includes components originally manufactured or fabricated by manufacturer, light fixtures and submersible pumps. Warranty does not include replacement of bulbs in submersible or recessed light fixtures or defects due to negligence, misuse, infrequent or improper maintenance, improper installation, or assembly by the purchaser or for events or circumstances beyond the range of limited warranty.

B. Glass: Manufacturer warrants the product, for a period of 30 days from the original date of purchase. Characteristics such as bubbles, mirror rubs, slight discolorations, blurs, and hairline scratches are not considered flaws, in accordance with ASTM C1048.

**PART 2 PRODUCTS****2.1 MANUFACTURERS**

A. Acceptable Manufacturer: Bluworld, which is located at: 635 W. Michigan St. ; Orlando, FL 32805; Tel: 407-426-7674; Email: request info; Web: [www.bluworldusa.com](http://www.bluworldusa.com)

B. Substitutions: permitted.

**2.2 WATER FEATURES****2.3 CUSTOM WATER FEATURES**

**A. Architectural Elements: Custom Straight Rain Curtain**

B. Blu Uniques:

C. Signage Water Feature:

**1. Model: Custom Straight Rain Curtain**

2. Size: 106 inches high by 216 inches wide

3. Size: As indicated on Drawings.

4. Frame Style:

a. Single panel.

b. Horizontal multi-panel.

c. Vertical multi-panel.

**d. Rain curtain.**

- e. Water wall.
- f. Free floating.
- g. C-shaped.
- h. As indicated on Drawings.
- 5. Frame Material:

**a. Stainless steel.**

- 6. Water Panel Material:

**a. MYLAR Strands.**

- 7. Mounting: Wall mounted.
- 8. Mounting: Free standing.

- 9. Fountain Pool: Coordinate with pool indicated on Drawings.

- 10. Reservoir Material: **Brushed Stainless Steel.**

- 11. Stone Type: **N/A.**

- 12. Plumbing: **Yes.**

- 13. Pump: **Yes.**

- 14. Filtration: **Yes, UV Sterilizer, Magnetic Conditioner, Ionizer Capsule  
Anti-Microbial Coating.**

- 15. Power Cords: **Yes, for pump and UV sterilizer.**

- 16. Use: **Indoor.**

- 29. Rating: Continuous duty.

A. AV System: Provide full color, moving video image that is visible in stream of falling water. Video monitor shall be in self-contained and freestanding fixture that shows through falling water with no distortion to image quality. Provide the following:

1. Audio: N/A\_\_\_\_\_.

2. Control Device: \_N/A\_\_\_\_\_.

B. Size:

1. Counter top.

2. Jumbotron.

3. As indicated on Drawings.

4. \_\_\_\_\_ inches (\_\_\_\_\_ mm) high by \_\_\_\_\_ inches (\_\_\_\_\_ mm) wide by \_\_\_\_\_ inches (\_\_\_\_\_ mm) deep.

C. Temporary installation.

D. Permanent installation.

### PART 3 EXECUTION

#### 3.1 EXAMINATION

A. Manufacturer shall provide representative to accept product shipment on site. Representative shall assess site conditions.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

C. Do not begin installation until substrates have been properly prepared.

#### 3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Manufacturer's representative shall unpack the water feature.

#### 3.3 INSTALLATION

A. Manufacturer's representative shall assemble the water feature, perform a system startup and tune the water feature for optimal performance.

B. Install in accordance with manufacturer's instructions.

C. Securely anchor work to substrate. Install control panel in location protected from sun and weather.

D. Install electrical system in accordance with the National Electric Code and applicable regulations.

#### 3.4 ADJUSTING, TESTING, AND CLEANING

A. Adjust equipment, operating parts and similar items to work easily, smoothly, and correctly.

B. Clean exposed surfaces using manufacturer recommended materials and methods. Remove and replace work which cannot be successfully cleaned.

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C. Test all equipment to show that it complies with specified requirements, and that the water features are in proper working order.

3.5 DEMONSTRATION

A. . Manufacturer's representative shall provide and review maintenance manual, demonstrate equipment, and instruct Owner's personnel in routine maintenance and proper operation procedures.

3.6 PROTECTION

A. Protect installed products until completion of project.

END OF SECTION