

SECTION 10 75 00
FLAGPOLES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division-1 specification section, apply to work of this section.

1.2 SECTION INCLUDES:

- A. Aluminum flagpoles, ground mounted.

1.3 REFERENCES

- A. AASHTO M246 - Standard Specification for Steel Sheet, Metallic-Coated and Polymer Precoated, for Corrugated Steel Pipe
- B. ASTM A53/A53M – Standard Specification for Pipe Steel, Black and Hot Dipped, Zinc Coated, Welded and Seamless
- C. ASTM A123/A123M - Standard Specification for Zinc (Hot Dipped Galvanized) Coatings on Iron and Steel Products
- D. ASTM A790/A790M - Standard Specification for Seamless and Welded Ferrite/Austenitic Stainless Steel Pipe
- E. ASTM B221 - Standard Specification for Aluminum Alloy Extruded Bar, Rod, Wire, Profiles, and Tube
- F. ASTM B241/B241M - Standard Specification for Aluminum and Aluminum Alloy Seamless Pipe and Seamless Extruded Tube
- G. CDA (Copper Development Association) – Copper in Architecture Design Handbook
- H. FBC - Florida Building Code

1.4 PERFORMANCE REQUIREMENTS

- A. Flagpole with flag flying shall resist design wind events without permanent deformation and shall conform to the Florida Building Code and NAAMM FP 1001, entitled “Guide Specifications for the Design of Metal Flag Poles”.
- B. Provide flagpole and foundation constructed to withstand the 50-year mean recurrence wind speed while flying two 5’ x 8’ flags.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Provide engineered shop drawings indicate detailed dimensions, base details, anchor requirements, and imposed loads.
- C. Product Data: Provide product data on pole, accessories, and configurations.

1.6 OPERATION AND MAINTENANCE DATA

- A. Maintenance Data: Provide lubrication and periodic maintenance requirement schedules.

1.7 QUALIFICATIONS

- A. Design the flagpole foundation under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the State of Florida provide calculations.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect, and handle products to site under provisions of Section 01 60 00.
- B. Spiral wrap flagpole with protective covering or pack in protective shipping tubes or containers, per manufacturer’s requirements.
- C. Protect flagpole and accessories on site from damage or moisture.

PART 2 PRODUCTS

2.1 POLE MATERIALS

- A. Provide one piece seamless extruded aluminum tubing complying with ASTM B241; 6063 alloy, T6 temper.

2.2 POLE CONFIGURATION

- A. Provide a 30 ft. high pole measured from nominal ground elevation.
- B. Provide a ground mounted type pole.
- C. Flagpole design shall be a cone tapered and seamless.
- D. Provide external type halyard.

2.3 COMPONENTS AND ACCESSORIES

- A. Provide a finial ball of 6" diameter, spun aluminum.
- B. Truck Assembly: Cast aluminum revolving, stainless steel ball bearings, non-fouling.
- C. Provide one USA flag, 5 x 8 feet in size, nylon fabric, brass grommets, and hemmed edges.
- D. Provide one Florida State flag, 5 x 8 feet in size, nylon fabric, brass grommets, and hemmed edges
- E. Provide aluminum cleats with stainless steel fastenings, one per halyard.
- F. Provide aluminum cleat box with built-in hinge and hasp assembly, attached to pole with tamper proof screws inside box.
- G. Provide 3/8" diameter halyard polypropylene, braided, white.

2.4 MOUNTING COMPONENTS

- A. Foundation Tube Sleeve: AASHTO M-246, corrugated 16-gage steel, galvanized.
- B. Pole Base Attachment: Flush, aluminum base with base cover.
- C. Lightning Ground Rod: Copper rod, 3/4" diameter; design length.

2.5 FINISHES

- A. Coat the metal surfaces in contact with concrete with asphaltic paint.
- B. Galvanize the concealed steel surfaces to ASTM A123 1.25 oz/sq ft.
- C. Aluminum anodized to color as selected by the Architect.
- D. Finial shall be spun and lacquered.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify site conditions under provisions of Section 01 31 00.
- B. Verify that concrete foundation is ready to receive work and dimensions are as indicated on shop drawings.

3.2 PREPARATION

- A. Coat metal sleeve surfaces below grade and surfaces in contact with dissimilar materials with asphaltic paint.

3.3 INSTALLATION

- A. Install flagpole, base assembly, and fittings in accordance with manufacturer's instructions into a concrete foundation as indicated on engineered shop drawings.
- B. Electrically ground the flagpole installation.
- C. Install foundation plate and centering wedges, welded base assembly for flagpoles base set on concrete base and fasten.
- D. Fill foundation tube sleeve with sand specified in Section 30 20 00 and compact.

The School District of Palm Beach County

Project Name

SDPBC Project No.

3.4 ERECTION TOLERANCES

- A. Maximum Variation From Plumb: One inch

3.5 ADJUSTING

- A. Adjust work under provisions of Section 01 77 00.
- B. Adjust operating devices so that halyard and flag function smoothly.

END OF SECTION