SECTION 10.75.00
FLAGPOLES

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Aluminum Flagpoles.

1.02 RELATED REQUIREMENTS
A. Section 03.30.00 - Cast-in-Place Concrete: Concrete base and foundation construction.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS
A. See Section 01.30.00 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on pole, accessories, and configurations.
C. Shop Drawings: Indicate detailed dimensions, base details, anchor requirements, and imposed loads.
D. Maintenance Data: Provide lubrication and periodic maintenance requirement schedules and ________.

1.05 QUALITY ASSURANCE
A. Designer Qualifications: Design flagpole foundation under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed Tennessee.

1.06 DELIVERY, STORAGE, AND HANDLING
A. Spiral wrap flagpole with protective covering and pack in protective shipping tubes or containers.
B. Protect flagpole and accessories from damage or moisture.

PART 2 PRODUCTS

2.01 MANUFACTURERS
A. Flagpoles:
   2. Substitutions: See Section 01.60.00 - Product Requirements.

2.02 FLAGPOLES
A. Flagpoles: Aluminum.
   1. Design: Straight shaft.
   2. Mounting: Ground mounted type.
   3. Outside Butt Diameter: 6 inches.
4. Outside Tip Diameter: 3 inches.
5. Nominal Height: 20 ft; measured from nominal ground elevation.

B. Performance Requirements:
1. Flagpole With Flag Flying: Resistant without permanent deformation to 100 miles/hr wind velocity; non-resonant, safety design factor of 2.5.
2. Flagpole Without Flag: Resistant without permanent deformation to 100 miles/hr wind velocity; non-resonant, safety design factor of 2.5.

2.03 POLE MATERIALS
A. Aluminum: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper.

2.04 ACCESSORIES
A. Finial Ball: Stainless steel, 6 inch diameter.
B. Truck Assembly: Cast aluminum; revolving, stainless steel ball bearings, non-fouling.
C. Flag: US design, 36 x 72 inch size, exterior fabric, brass grommets, hemmed edges.
D. Cleats: 9 inch size, aluminum with galvanized steel fastenings, two per halyard.
E. Cleat Box: Aluminum, with built-in hinge and hasp assembly, attached to pole with tamper proof screws inside box.
F. Halyard: 5/16 inch diameter polypropylene, braided, white.

2.05 OPERATORS
A. Hand Crank: Removable ________ type.

2.06 MOUNTING COMPONENTS
A. Foundation Tube Sleeve: AASHTO M 36M, corrugated 16 gage, 0.0598 inch steel, galvanized, depth of 48 inches as indicated.
B. Pole Base Attachment: Flush; steel base with base cover.
C. Lighting Ground Rod: 84 inch long copper rod, 3/4 inch diameter.
D. Lightning Ground Cable: Copper No. 6 AWG, soft drawn.

2.07 FINISHING
A. Metal Surfaces in Contact With Concrete: Asphalitic paint.
B. Aluminum: Mill finish.
C. Stainless Steel: No. 4 satin finish.
D. Finial: Spun finish.

PART 3 EXECUTION

3.01 EXAMINATION
A. Verify that concrete foundation is ready to receive work and dimensions are as indicated on shop drawings.

3.02 PREPARATION
A. Coat metal sleeve surfaces below grade and surfaces in contact with dissimilar materials with asphaltic paint.
3.03 INSTALLATION
   A. Install flagpole, base assembly, and fittings in accordance with manufacturer's instructions.
   B. Electrically ground flagpole installation.
   C. Fill foundation tube sleeve with concrete specified in Section 03.30.00.
   D. Set brackets for wall set flagpoles anchored securely into wall construction. Seal watertight.

3.04 TOLERANCES
   A. Maximum Variation From Plumb: 1 inch.

3.05 ADJUSTING
   A. Adjust operating devices so that halyard and flag function smoothly.

END OF SECTION