

SECTION 107500

FLAGPOLES

NOTE TO SPECIFIER

This section contains information and text that may apply to CSF Medium and CSF Small facilities. A colored highlighting is used to identify differences between these two USPS programs: yellow highlighted text applies only to CSF Medium Facilities; and blue highlighted text applies only to CSF Small Facilities. When preparing a specification for a particular project, delete the highlighted text that does not apply, then remove the highlighting from the remaining text.

NOTE TO SPECIFIER

Use this section where Ground Mount Flagpole is part of the Work. EDIT THIS SECTION BY ADDING AND/OR DELETING TEXT FOR THE SPECIFIC CONDITIONS AND REQUIREMENTS OF THE PROJECT SITE. Text in [brackets] indicates a choice must be made. Brackets with [ ] indicates information may be inserted at that location. Drawing Coordination Items listed at end of Section.

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: 1. Aluminum ground mounted flagpole. 2. Truck, halyards, and accessories. 3. Concrete flagpole foundation base. B. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other documents. C. Related Sections: 1. Section 033000 - Cast-In-Place Concrete: Concrete base.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM): 1. ASTM B 241 - Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube.

1.3 SYSTEM DESCRIPTION

- A. Performance Requirements:

NOTE TO SPECIFIER

Edit wind speed based on local codes, conditions, and requirements.

1. Pole With Flag Flying: Resistant without permanent deformation, [100][ ] miles per hour wind velocity, non-resonant, safety design factor of 1.0.
2. Flag Dimension: 4 foot x 6 foot. Coordinate recommended flag size with manufacturer.

#### 1.4 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Procedures for submittals.
  1. Product Data: Data on pole, accessories, and configurations.
  2. Shop Drawings: Detailed dimensions, anchor requirements, imposed loads, and foundation system.
  3. Assurance/Control Submittals:
    - a. Certificates: Manufacturer's certificate that Products meet or exceed specified requirements.

#### 1.5 QUALITY ASSURANCE

- A. Design flagpole foundation under direct supervision of a Professional Structural Engineer licensed in the State where Project is located, experienced in the design of flagpole supports.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Section 016000 - Product Requirements: Transport, handle, store, and protect products.
- B. Spiral wrap flagpole with protective covering and pack in protective shipping tubes or containers.
- C. Protect flagpole and accessories on site from damage or moisture.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Subject to compliance with project requirements, manufacturers offering specified items which may be incorporated in the Work include the following:
  1. American Flagpole, Division of Kearney-National Incorporated, Abingdon, VA (800) 368-7171.
  2. Concord Industries, Incorporated, Addison, TX (800) 527-3902.
  3. Eder Flag Manufacturing Company, Incorporated, Oak Creek, WI (800) 558-6044.
  4. Pole-Tech Company, Incorporated, East Setauket, NY (800) 633-6733.
- B. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.

#### 2.2 MATERIALS

- A. Pole Type: Commercial internal halyard cone tapered aluminum with ground sleeve.
- B. Pole Type: Commercial external halyard cone tapered aluminum with ground sleeve.

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**NOTE TO SPECIFIER**

Dimensions indicated below are for a standard 25 foot pole. Insert appropriate dimensions if a different height is selected for this Project.

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- C. Flagpole: ASTM B 241; 6063-T6 wrought alloy aluminum, cone tapered.
  1. Outside Butt Diameter: [5-1/2] [ \_\_\_\_ ] Inches.
  2. Outside Tip Diameter: [3-1/2] [ \_\_\_\_ ] inches.
  3. Nominal Wall Thickness: [0.188] [ \_\_\_\_ ] inches.
  4. Nominal Height: [25 foot 0 inches] [ \_\_\_\_\_ ], measured from top of flagpole base.
  5. Mounting: Ground mounted to concrete foundation and base.

D. Truck Assembly: Aluminum; revolving; stainless steel ball-bearings, non-fouling.

E. Halyard: Stainless steel aircraft cable with four chrome plated bronze swivel snaphooks, plastic covered counterweight, and beaded sling.

F. Hand Crank: Removable type with automatic brake system to permit locking of flag in any position.

G. Truck Assembly: Aluminum, stationary

H. Halyard: Nylon halyard with four chrome plated bronze swivel snaphooks.

I. Clear: 6" minimum, cast aluminum with stainless steel flat head fasteners for flush fit

J. Collar: Spun aluminum to match pole.

K. Foundation Sleeve: 16 gauge steel, galvanized corrugated tube with 3/16 inch thick steel base plate and support plate, 3/4 inch diameter x 18 inch long ground spike, and steel centering wedges.

L. Concrete: Specified in Section 033000.

M. Flags: Furnished and installed by United States Postal Service.

2.3 FINISHES

A. Metal Surfaces in Contact with Concrete: Asphaltic paint.

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**NOTE TO SPECIFIER**

Select flagpole finish. Clear anodized is standard.

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B. Aluminum: -[AA M32-C22-A41 Clear anodized.] [AA M32-C12-A42 Bronze Anodized] [AA M32-C12-A42 Black Anodized] [Baked Enamel; Color [ \_\_\_\_\_ ]].

PART 3 - EXECUTION

3.1 EXAMINATION

A. Section 017300 - Execution: Verification of existing conditions before starting work.

B. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.

- C. Report in writing to Contracting Officer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
- D. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.

### 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 accessories in accordance with manufacturer's published instructions.
- B. Electrically ground flagpole installation.
- C. Install foundation plate and centering wedges for flagpole base set in concrete base and fasten. Fill foundation tube sleeve with sand and compact.

### 3.4 CONSTRUCTION

- A. Site Tolerances:
  - 1. Maximum Variation From Plumb: One inch.

### 3.5 ADJUSTING AND CLEANING

- A. Clean flagpole surfaces immediately prior to installation.
- B. Adjust operating devices for smooth halyard and flag function.

END OF SECTION

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