SECTION 107500

FLAGPOLES

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 2 Specification with primarily editable text; therefore, most of the text can be edited, but there is some required text which is noted within the Section with a “Note to Specifier.” Do not revise these paragraphs without an approved Deviation from USPS Headquarters, Facilities Program Management, through the USPS Project Manager.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

***Use this section where a Ground-mounted Flagpole is part of the Work. This Section may also be edited for a Wall-mounted Flagpole, but do not edit the required text, which applies to all flagpole types.***

***According to the United States Code, Title 4, Chapter 1, the US flag and the POW/MIA flag are to be flown at every federal facility. The POW/MIA flag is to be flown immediately below or adjacent to the flag of the United States as second in order of precedence. The flags are furnished by the Facility Head.***

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1. GENERAL
	1. SUMMARY
		1. Section Includes:
			1. Aluminum ground mounted flagpole.
			2. Truck, halyards, and accessories.
			3. Concrete flagpole foundation base.
		2. 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.
		3. Related Sections:
			1. Section 033000 - Cast-In-Place Concrete: Concrete base.
	2. REFERENCES
		1. American Society for Testing and Materials (ASTM):
			1. ASTM B 241 - Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube.
	3. SYSTEM DESCRIPTION
		1. Performance Requirements:

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**NOTE TO SPECIFIER**

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

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* + - 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. SUBMITTALS
		1. 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:
				1. Certificates: Manufacturer's certificate that Products meet or exceed specified requirements.
	2. QUALITY ASSURANCE
		1. 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.
	3. DELIVERY, STORAGE AND HANDLING
		1. Section 016000 - Product Requirements: Transport, handle, store, and protect products.
		2. Spiral wrap flagpole with protective covering and pack in protective shipping tubes or containers.
		3. Protect flagpole and accessories on site from damage or moisture.
1. PRODUCTS
	1. MANUFACTURERS
		1. 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.
		2. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
	2. MATERIALS

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**NOTE TO SPECIFIER**

**REQUIRED**: Internal halyard with a lockable cover is always required.

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* + 1. Pole Type: Commercial internal halyard with a lockable cover, cone tapered aluminum with ground sleeve.

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**NOTE TO SPECIFIER**

Dimensions indicated below are for a standard 25 foot pole.

The minimum height of the flagpole, whether ground mounted or building-mounted, must be 22 feet above grade. When determining the actual height to be specified, consider the height of the flagpole in relationship to the height of the building and that the POW/MIA flag is to be flown immediately below the US Flag. Also, keep in mind that the internal halyard mechanism must be readily accessible since the flag must be occasionally lowered to half-mast and regularly replaced.

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* + 1. 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 feet] [ \_\_\_\_\_\_\_\_\_\_ ], measured from top of flagpole base.
			5. Mounting: Ground mounted to concrete foundation and base.
		2. Truck Assembly: Aluminum; revolving; stainless steel ball-bearings, non-fouling.
		3. Halyard: Stainless steel aircraft cable with four chrome plated bronze swivel snaphooks, plastic covered counterweight, and beaded sling.
		4. Hand Crank: Removable type with automatic brake system to permit locking of flag in any position.
		5. Truck Assembly: Aluminum; stationary.
		6. Halyard: Nylon halyard with four chrome plated bronze swivel snaphooks.
		7. Cleat: 6” minimum, cast aluminum with stainless steel flat head fasteners for flush fit.
		8. Collar: Spun aluminum to match pole.
		9. 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.
		10. Concrete: Specified in Section 033000.
		11. Flags: Furnished and installed by United States Postal Service.
	1. FINISHES
		1. Metal Surfaces in Contact with Concrete: Asphaltic paint.

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**NOTE TO SPECIFIER**

Consult USPS Project Manager for flagpole finish. Clear anodized is standard.

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* + 1. Aluminum: [AA M32-C22-A41 Clear anodized.] [AA M32-C12-A42 Bronze Anodized] [AA M32-C12-A42 Black Anodized] [Baked Enamel; Color [ \_\_\_\_\_\_\_\_\_\_ ].
1. EXECUTION
	1. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
		3. 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.
		4. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.
	2. PREPARATION
		1. Coat metal sleeve surfaces below grade and surfaces in contact with dissimilar materials with asphaltic paint.
	3. INSTALLATION
		1. Install flagpole base assembly, and accessories in accordance with manufacturer's published instructions.
		2. Electrically ground flagpole installation.
		3. Install foundation plate and centering wedges for flagpole base set in concrete base and fasten. Fill foundation tube sleeve with sand and compact.
	4. CONSTRUCTION
		1. Site Tolerances:
			1. Maximum Variation From Plumb: One inch.
	5. ADJUSTING AND CLEANING
		1. Clean flagpole surfaces immediately prior to installation.
		2. Adjust operating devices for smooth halyard and flag function.

END OF SECTION

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**NOTE TO SPECIFIER**

Drawing Coordination:

* Locate the pole to the left of the principal entrance as one faces the building and ground it for lightning protection.
* If there are utility lines nearby, check with the utility company regarding the minimum distance between the pole and the overhead lines.
* The flag must be displayed from sunrise to sunset, however, based on the operational hours of the facility, if the flag will be displayed after dark, or twenty-fours a day, provide proper illumination during the hours of darkness.

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