

1 GENERAL

1.1. GENERAL INSTRUCTIONS

- 1.1.1. Read and be governed by conditions of the *Contract Documents*, including sections of Division 1.

1.2. SECTION INCLUDES

- .1 1.1. General Instructions
- .2 1.2. Section Includes
- .3 1.3. Summary
- .4 1.4. Administrative Requirements
- .5 1.5. Submittals
- .6 1.6. Closeout Submittals
- .7 2.1. Manufacturers
- .8 2.2. Materials
- .9 2.3. Aluminum Finishes
- .10 2.4. Fabrication
- .11 3.1. Installation

1.3. SUMMARY

- 1.3.1. Section Includes
 - 1.3.1.1. Ground-set flagpoles.

1.4. ADMINISTRATIVE REQUIREMENTS

- 1.4.1. Coordination
 - 1.4.1.1. Coordinate with work of other sections to ensure satisfactory and expeditious completion of the work of this section.

1.5. SUBMITTALS

- 1.5.1. Submit required submittals in accordance with Section 01 33 00.
- 1.5.2. Product data sheets:
 - 1.5.2.1. Submit manufacturer's *Product* data sheets for Products and equipment proposed for use in the work of this section.
- 1.5.3. Shop drawings:
 - 1.5.3.1. Indicate dimensions, finishes, base jointing, anchoring and support systems, cleats, halyard boxes, trucks, finials and base collar for flagpoles.
- 1.5.4. Samples:
 - 1.5.4.1. Submit duplicate samples of each finish specified.

1.6. CLOSEOUT SUBMITTALS

- 1.6.1. Submit closeout submittals in accordance with Section 01 77 00.
- 1.6.2. Operation and maintenance data:
 - 1.6.2.1. Submit manufacturer's operation and maintenance instructions for inclusion in the operation and maintenance manuals.

2 PRODUCTS

2.1. MANUFACTURERS

- 2.1.1. Approved Manufacturer
 - 2.1.1.1. Ewing Flagpole Co. Inc.
 - 2.1.1.2. Or equivalent

2.2. MATERIALS

- 2.2.1. Aluminum: Aluminum Association alloy AA 6063-T6 seamless extruded aluminum tubing.
- 2.2.2. Flagpole; cone tapered:
 - 2.2.2.1. Seamless, uniform, straight line tapered section above cylindrical butt section.
 - 2.2.2.2. Height above mounting base:

- (1) 12192 mm (40'-0")
- 2.2.2.3. Flagpole, bases and anchorage devices, complete with flag to resist minimum wind gust velocity of:
 - (1) 145 km/h (90 ml/h)
- 2.2.2.4. Acceptable *Product*:
 - (1) Flagpole; Ewing Flagpoles 'SCA-40NS2' Architectural Series.
 - (2) Base: Ewing Flagpoles Co. Inc. 'B5 Fixed'.
 - (3) Halyard: Ewing Flagpoles Co. Inc. "**Internal System**".
 - (4) Or equivalent.
 - (5) Substitutions: Refer to Section 01 25 00.
 - (6) Finish: Clear anodized to AA Designation AA-M12C22A31.
 - (7) Finial; ball: Ball of 1.6 mm (3/5") minimum thick, gold colour, 150 mm (6"), spun from aluminum with watertight seams and mounted to rod fitted to revolving truck.
 - ~~(8) Cleats: 230 mm (9") size, 2 per halyard, cast aluminum finish to match flagpole.~~
 - (9) Halyard, internal: Stainless steel gearless winch, mounted inside flagpole shaft, accessible by removable locking access door, self-locking winch, lockable at any point operable with a removable crank handle through access hole in shaft. Stainless steel cabling throughout, routed through shaft interior and wound on winch.
 - (10) Swivel snaps: 2 per halyard; aluminum with neoprene or vinyl covers.
 - ~~(11) Cleat box: One per cleat, cast aluminum finish to match flagpole. Furnish hasp for padlock, hinged cover, and tamperproof screws. Include lockable cleat box.~~
 - (12) Base cover: Spun aluminum base cover, finish to match flagpole.
 - (13) Lightning protection: Copper-plated steel with copper wire bolted to flagpole with stainless steel bolt and galvanized steel washer to insulate cable lug from flagpole.
 - (14) Steel ground spike welded to baseplate is an acceptable alternative.
 - (15) Concrete base: under work of Section 32 13 13.

2.3. ALUMINUM FINISHES

- 2.3.1. Finish exposed surfaces of aluminum components:
 - 2.3.1.1. Clear anodized to AA Designation AA-M12C22A31.

2.4. FABRICATION

- 2.4.1. Supply flagpole as complete unit including mounting brackets anchorage and fittings.
- 2.4.2. Fabricate mountings of same metal as flagpoles where exposed and of galvanized steel where concealed.

3 EXECUTION

3.1. INSTALLATION

- 3.1.1. Submit manufacturer's information and templates required for installation of work of this section, and assist or supervise, or both, the setting of anchorage devices, and construction of other Work incorporated with Products specified in this section in order that they function and perform as intended.
- 3.1.2. Install flagpoles, mounting brackets and fittings to reviewed shop drawings and manufacturer's written instructions.
- 3.1.3. Check and adjust installed fittings for smooth operation of halyards.
- 3.1.4. Provide ground stakes, for positive lightning ground for each ground set flagpole installation.

END OF SECTION