

SECTION 10 14 27

POST AND PANEL WAYFINDING SYSTEM

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Signage and information system (“kiosk”).

1.02 MEASUREMENT AND PAYMENT

- A. General: Measurement and payment for post and panel wayfinding system will be either by the lump-sum method or by the unit-price method as determined by the listing of the bid item for post and panel wayfinding system indicated in the Bid Schedule of the Bid Form.
- B. Lump Sum: If the Bid Schedule indicates a lump sum for post and panel wayfinding system, the lump-sum method of measurement and payment will be in accordance with Section 01 20 00, Price and Payment Procedures, Article 1.03.
- C. Unit Price: If the Bid Schedule indicates a unit price for post and panel wayfinding system, the unit-price method of measurement and payment will be as follows:
 - 1. Measurement:
 - a. Post and panel wayfinding system will be measured for payment by the individual unit (each), installed in place.
 - 2. Payment: Post and panel wayfinding system will be paid for at the indicated Contract unit prices for the computed quantities as determined by the measurement method specified in Article 1.02.C.1, herein.

1.03 REFERENCES

- A. National Electrical Manufacturers Association (NEMA)

1.04 SUBMITTALS

- A. General: Refer to Section 01 33 00, Submittal Procedures, and Section 01 33 23, Shop Drawings, Product Data and Samples; for submittal requirements and procedures.
- B. Submit shop drawings and the manufacturer’s technical literature. Include the manufacturer’s toll-free telephone number for product support.
- C. Submit half-size laser print outs of graphics for each kiosk face for approval.
- D. Submit structural calculations including wind loadings prepared by a Professional Engineer currently registered in the State of California. Include structural calculations for each unit’s anchorage to ground, including anchor bolts, footing, and base plate,

as applicable. The pipe-to-base plate weld shall develop the complete strength of the pipe where connected to the plate (such as a properly executed Complete Joint Penetration weld would do).

- E. Qualifications: Refer to Article entitled, "Quality Assurance" herein for qualification requirements.

1.05 QUALITY ASSURANCE

- A. Contractor's Professional Engineer's Qualifications
 - 1. Upon the Engineer's request, provide a reference list with client contact information. List shall show that the engineer has a record of successful experience providing engineering services for installations similar in design and scope to the work of this Section.
- B. Manufacturer and Fabricator Qualifications
 - 1. Minimum five years experience in the fabrication of post and panel wayfinding systems.
 - 2. Provide a project reference list and photos of public or commercial exterior projects currently using items or signage and information systems supplied by the manufacturer.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Handle products in accordance with the manufacturer's instructions. Store in a dry, secure location, protected against direct sunlight and excessive heat.

1.07 WARRANTY

- A. In addition to the Warranty required in the General Conditions, provide manufacturer's standard warranty.

1.08 MAINTENANCE TOOLS

- A. Provide a minimum of three keys for each kiosk to the Engineer.

PART 2 – PRODUCTS

2.01 GENERAL

- A. Post-mounted, double-sided signage and information system with signage elements consisting of curved face panels attached to a rigid internal structure.
 - 1. Suitable for all-weather outdoor use.

2. At the Contractor's option, the kiosk may be fabricated from stainless steel in lieu of aluminum shown on the Contract drawings. Where stainless steel is utilized in lieu of aluminum for the exterior of a unit, it shall be stainless steel shall Type 316.
3. Provide graphics on both sides of the unit. Refer to article entitled "Artwork" herein.
 - a. Provide screen-printed graphics and applied vinyl graphics at the top portion of both sides of the exterior of the unit. Other methods of applying graphics which meet or exceed the specified method in weather, chemical, graffiti, and ultraviolet light resistance may be acceptable to the Engineer.
 - b. Provide a graphics sheet insert for the inside of each unit behind each window.
4. Provide a cutout with a clear polycarbonate window, minimum 0.125 inch thick, and an insert carrier for the graphics display on each side of each signage assembly.
 - a. Panels with window cutouts shall include continuous stainless steel hinges and locking mechanisms for access to the interior.
 - b. The window shall be retained in a window opening using slots provided in the curbed face panel's edge profile, or by other means per approved shop drawings. Secure window with studs and nuts.
 - c. Provide a minimum 0.06 inch thick aluminum graphic panel, powder coated white to accept the graphic sheet insert.
 - d. Locking Mechanism and Keying: Locks shall be keyed compression locks; with tubular keys. Combination locks are not acceptable. Locks on a single unit shall be keyed the same. Other requirements regarding keying shall be as required by the Engineer. Lock shall include the following features:
 - 1) Size: Small, 1.47 inches compressed.
 - 2) Stainless steel latch body made by metal injection molding, Type 316.
 - 3) Adjustable grip.
 - 4) Suitable for NEMA 4/IP65 applications.
 - 5) Includes gasket.
 - 6) Single turn latching and compressing action. Locks snugly against gasket in locked position.
5. Provide Type 316 stainless steel base plates and anchor bolts. The pole welded to the base plate shall be Type 316 stainless steel.

B. Curved Face Panels

1. Material: Aluminum, 0.125 inch minimum thickness.

2. Provide curved face panels. Edges shall be internal and completely concealed from view in the assembled signage unit.

C. Internal Structure and End Plates

1. Provide an internal structure sufficient to support the sides of the kiosk and end and face panels and to ensure that the kiosk unit remains centered and secured to pole. The internal structure shall be a one piece extrusion or welded module.
2. Center Support Plate or Plates, as Applicable: Aluminum plate, minimum 0.25 inch thickness.
3. End plates: Aluminum plate, thickness as determined by structural design.

D. Bird Control Wire

The bird barrier shall be designed for all bird species consisting of wire spikes on a base strip, 4 inches high, 4 inches wide, consisting of no less than 120 wire points per foot, providing full 180-degree wire coverage.

1. Wire Spikes: Stainless steel, 0.041 inch diameter, full-hard spring temper, 250,000 lbs./in. tensile strength. Base strip: Stainless steel, 0.25 inch wide x 0.02 inch thick, fully annealed for flexibility and surface shape memory. Similar stainless steel systems may be acceptable subject to the approval of the Engineer.

- E. Weatherproofing: Provide gasketing for exterior use. Provide for ventilation of the interior and weep holes. Provide insect screens at weep holes and vents.

- F. Security: Provide tamper-resistant stainless steel security screws to prevent unauthorized removal of curved face panels. Security screws shall be countersunk flush with the frame's formed or fabricated edge. Welded construction may be utilized in lieu of external security fasteners.

- G. Finish of Exposed Surfaces, Including Curved Face Panels, Sides, End Plates, Mounting Pole, and Base Plate: Manufacturer's graffiti-resistant polyester powder coat with anti-graffiti coating.

1. Colors: As indicated in the Contract Documents.

2.02 FABRICATION

- A. Factory assemble the units and apply finishes and graphics in accordance with the manufacturer's standards and approved shop drawings.
- B. Weld the post to the base plate: The base plate shall be perpendicular to the post within plus or minus one degree.

2.03 ARTWORK

- A. Unless otherwise specified in the Contract Specifications, the Engineer will furnish electronic files showing the required logos, fonts, and layout of typical sign for use by the Contractor. The Contractor shall furnish graphic design services to design each sign face. The software of the artwork file will be as designated in the Contract Specifications.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify that substrates are stable and capable of supporting the weight of signage units.
- B. Verify that substrates have been adequately prepared to securely anchor signage units.

3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Protect surrounding finishes and fixtures from damage by work of this Section.

3.03 INSTALLATION

- A. Install in accordance with the manufacturer's installation instructions.
- B. Install in accordance with details as shown in the Contract Drawings and approved shop drawings.

3.04 CLEANING AND PROTECTION

- A. Clean exposed surfaces in accordance with the manufacturer's instructions.
- B. Protect exposed surfaces from damage by subsequent construction.

END OF SECTION 10 14 27