

**ITEM 611.4006--25 - INTERPRETIVE SIGNS**

**1. DESCRIPTION:**

- 1.01 This work shall consist of furnishing and installing INTERPRETIVE SIGNS in accordance with the contract documents and as directed by the Engineer.

**2. MATERIALS:**

- 2.01 Unless otherwise specified herein, all materials for this work shall meet the requirements of the NYSDOT Standard Specifications. All materials for this work shall be new stock, free from defects impairing strength, durability, and appearance.

2.02 **Sign Panel:**

- A. Shall be exterior grade solid phenolic resin that is resistant to ultraviolet (UV) radiation deterioration and graffiti-proof. The size and thickness of the panels shall be as shown on the plans or as directed by the Engineer. The embedded graphic panels shall have digitally printed subsurface images fused into a single panel and under the effect of high temperature and pressure. All exterior signage shall be weather tight.
- B. The panels shall be of a consistent thickness for all sizes. The finish of all panels is to be opaque and matte. The panels are to be rigid and flat. No warped areas or bowing will be accepted. All sign panels must be obtained from a single manufacturer.
- C. The panels must be resistant to scratching, ink, paint, crayon, steam, acids, and aromatics. All ink, crayon, or paint markings should be readily removable with soap and water or solvents without harm. The panels shall also be resistant to burning by cigarettes.
- D. Panels shall not break, separate, flake, or fray under impact from thrown objects such as rocks.
- E. Panels must be resistant to mold and fungus
- F. The Contractor shall contact New York State Office of Parks and Recreation and Historic Preservation (NYSOPRHP) to obtain images, fonts and artwork for the sign panel. The graphic design shall be provided to the sign panel manufacturer. Custom colors shall match those specified.
- G. The sign panels shall be as specified in the Contract Documents provided by the following:

Fossil Industries, Inc.  
44 Jefryn Blvd.,  
Deer Park, NY 11729  


- H. The NYSOPRHP shall retain full rights to all designs shown or specified. Designs may not be manufactured, reproduced, or exhibited without the written permission of the NYSOPRHP.
- 2.03 **Mounting Hardware:** All mounting hardware shall be stainless steel. The types and sizes shall be as indicated on the Contract Documents.

## **ITEM 611.4006--25 - INTERPRETIVE SIGNS**

### **2. MATERIALS:** (cont'd)

- 2.04 **Sign Support Post:** The sign support post shall be manufactured as detailed in the Contract Documents. All materials shall be stainless steel. All welds shall be free of porosity, inclusions, foreign matter, cracks, and pinholes. All welds shall be ground and sanded smooth. All sharp and ragged edges shall be eased smooth to eliminate all sharp edges.
- 2.05 **Anchor Bolts:** Anchor bolts shall be stainless steel and meet the requirements of Section 709-13. The lengths and diameters shall be as indicated in the Contract Documents.
- 2.06 **Concrete Foundation:** The cast-in-place concrete for the footings and foundations shall conform to the requirements of Section 500 Portland Cement, except that the requirements for inspection facilities, automated batching control and recordation do not apply. The concrete shall be Class A concrete for structures unless otherwise specified. The batching, mixing and curing methods, and the inspection facilities, shall meet the approval of the Department or its representative. The Contractor may submit for approval by the Director and Materials Bureau, a mix at least equivalent to the specified Class A Concrete. The Engineer shall approve the formwork prior to placement of the concrete.
- 2.07 **Steel Bar Reinforcement:** The steel reinforcement shall conform to the requirements in Section 556 Reinforcing Steel for Concrete Structures. Sizes as indicated on the drawings.

### **3. CONSTRUCTION DETAILS:**

- 3.01 The Contractor shall verify the quantity, location, and details of each sign with the Engineer, in consultation with NYSOPRHP representative prior to ordering.
- 3.02 **Shop Drawings:** The Contractor shall submit Shop Drawings for each proposed sign location for review and approval of materials and methods by the Engineer, or designee prior to ordering materials and commencing with fabrication.
- 3.03 **Samples:** Samples of each type of material, finish, and color shall be submitted to the Engineer for approval prior to fabrication.
- 3.04 **Fabrication:** All fabrication and installation shall be in accordance with the highest standards of the trade. All signs and components shall be complete and free from visual, structural and mechanical defects. All source materials shall be inspected upon arrival. The Engineer shall be notified immediately if any source material is inadequate or unacceptable for reproduction.
- 3.05 The Engineer shall be notified of any discrepancies in the drawings, changes required in construction details, and/or field dimensions or special conditions prior to fabrication.
- 3.06 No fabrication or installation material or procedure shall be used that will in any way change the visual quality or in any manner have an adverse effect on existing materials and surfaces.
- 3.07 The Contractor shall arrange a meeting with the Engineer and/or NYSOPRHP Representatives at the site for confirmation of the final locations of sign elements.
- 3.08 All mechanically fastened signs shall incorporate provisions for attachment and removal as required using no visible screws or fasteners except where noted on the drawings.

## **ITEM 611.4006--25 - INTERPRETIVE SIGNS**

### **3. CONSTRUCTION DETAILS:** (cont'd)

- 3.09 **Protection of Sign Panels:** The sign panels shall be protected during transportation, handling, and storage. The panels shall be stored above ground on level, non-staining blocking and covered with weatherproof coverings to prevent staining by weather, dirt, mud, oils, and grease. All damaged materials shall be immediately removed from the job site.
- 3.10 **Installation:** The Contractor shall excavate for the sign foundations and install the steel bar reinforcement as indicated on the approved Shop Drawings prior to placing the concrete. Using a jig to ensure proper alignment, the stainless steel anchor bolts shall be installed in the concrete prior to setting. The top of the foundation shall be properly finished and leveled to provide good bearing for the sign support post. All formwork for the foundations shall be removed after the concrete has been sufficiently cured. The Contractor shall dispose of all formwork from the site. The excavation shall be backfilled with suitable material, and graded as required. The Contractor shall remove any excess material from the site.
- 3.11 The sign support post shall be attached to the foundation as shown on the plans. The post shall be plumb in all directions. After the nuts have been tightened, the threads of the anchor bolt above the nut shall be damaged to prevent removal of the nut. The anchor bolt shall be cut off at a distance not to exceed one inch (1") above the top of the nut, and ground smooth to remove all sharp edges.
- 3.12 The sign panels shall be mechanically fastened to the sign support post as required using no visible screws or fasteners except where noted on the drawings. The panel shall be mounted such that it is true, plumb, and level in its required position.
- 3.13 **Cleaning:** Upon completion of the installation work, each sign and post shall be thoroughly cleaned, removing all dirt, mortar, and stains and left in a condition acceptable to the Engineer. Temporary protection shall be provided during the remainder of the construction to protect the finished work from damage. All damaged work shall be removed and replaced at no cost to the Authority prior to final acceptance.

### **4. METHOD OF MEASUREMENT**

- 4.01 This work will be measured as the number of INTERPRETIVE SIGNS satisfactorily furnished and installed.

### **5. BASIS OF PAYMENT**

- 5.01 The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.