Special Specification 6408
Flood Gauge Assembly

1. DESCRIPTION
Furnish, fabricate, and erect flood gauge assemblies consisting of the signs, depth markers, sign supports, foundations, and associated mounting hardware.

2. MATERIALS
Furnish all materials unless otherwise shown on the plans. Furnish only new materials. Furnish and fabricate material in accordance with the following items with details shown on the plans:

- Item 421, “Hydraulic Cement Concrete”
- Item 441, “Steel Structures”
- Item 442, “Metal for Structures”
- Item 445, “Galvanizing”
- Item 636, “Signs”
- Item 643, “Sign Identification Decals”
- Item 656, “Foundations for Traffic Control Devices.”

Use galvanized steel, stainless steel, dichromate sealed aluminum, or other materials shown on the plans for pipe, bolts, nuts, washers, lock washers, screws, and other sign assembly hardware. When dissimilar metals are used, select or insulate the metals to prevent corrosion.

3. CONSTRUCTION
Install foundations in accordance with Item 656, “Foundations for Traffic Control Devices.” Plumb sign supports. Do not spring or rake posts to secure proper alignment. Use established safety practices when working near underground or overhead utilities. Consult the appropriate utility company before beginning work.

3.1. Fabrication. Fabricate sign supports in accordance with Item 441, “Steel Structures.” Ensure that all components fit properly.

Verify the length of each post for each sign before fabrication to meet field conditions and sign-mounting heights shown on the plans. Unless otherwise shown on the plans, height of depth marker is 10 ft.

Galvanize fabricated parts in accordance with Item 445, “Galvanizing.” Punch or drill any holes in steel parts or members before the parts or members are galvanized. Repair any steel part or member on which the galvanizing has been damaged during assembly, transit, erection, or welding in accordance with Section 445.3.D, “Repairs.”

3.1.1. Installation. Locate sign supports as shown on the plans, unless directed to shift the sign supports within design guidelines to secure a more desirable location or to avoid conflict with utilities and underground appurtenances or other obstacles. Stake sign-support locations for verification by the Engineer.

Install stub posts of the type, spacing, orientation, and projection shown on the plans. Remove and replace posts damaged during installation at the Contractor’s expense.
Connect the upper post sections to the stub post sections as shown on the plans. Torque connection bolts as shown on the plans.

Attach signs to support assemblies in accordance with the plans and pertinent items.

4. **MEASUREMENT**
   This Item will be measured as each flood gauge assembly installed.

5. **PAYMENT**
   The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Flood Gauge Assembly.” This price is full compensation for furnishing, fabricating, galvanizing, and erecting the supports; constructing foundations including concrete (when required); furnishing complete signs and depth markers including sign connections and all hardware; attaching the signs and depth markers to the supports; washing and cleaning the signs; and equipment, materials, labor, tools, and incidentals.