

**ITEM 08607.4301 M - ORNAMENTAL PICKET SWING GATE**  
**(DOUBLE LEAF 4880mm OPENING 915mm HIGH)**

**ITEM 08607.4302 M - ORNAMENTAL PICKET SWING GATE**  
**(DOUBLE LEAF 4880mm OPENING 1220mm HIGH)**

**DESCRIPTION:**

The work shall consist of furnishing and installing ornamental picket swing gates as shown on the contract documents, as directed by the Engineer and as herein specified.

**MATERIALS:**

- A. Gate Frames: Fabricate ornamental picket swing gate using galvanized steel members, ASTM A78, structural quality steel, 310 MPa tensile strength with galvanized coating. Frame members welded using stainless steel welded to form rigid one-piece unit (no substitution). Minimum size vertical uprights, 50 mm square.
- B. Ornamental Picket Infill: "U" channel rails, formed from hot rolled, structural steel. Punch rails to receive pickets, and weld inside gate frame. Pickets, galvanized steel, square tube [of gauge, spacing, and with accessories to match fence]. Attach pickets to "U" rails by industrial drive rivets.
- C. Bracing: Provide diagonal adjustable length truss rods on gates to prevent sag.
- D. Hardware Materials: Galvanized steel or malleable iron shapes to suite gate size.
- E. Hinges: Structurally capable of supporting gate leaf and allow opening and closing without binding. Non-lift-off type hinge design shall permit gate to swing 180° (3.14 rad).
- F. Latch: Capable of retaining gate in closed position and have provision for padlock.
- G. Keeper: Provide keeper for each gate. Gate keeper shall consist of mechanical device for securing free end of gate when in full open position.
- H. Double Gates: Provide drop rod to hold inactive leaf. Provide gate stop pipe to engage center drop rod. Provide locking device and padlock eyes as an integral part of latch, requiring on padlock for locking both gate leaves.
- I. Gate Posts: Square members, ASTM A787, structural quality steel 310 MPa tensile strength, with galvanized coating.
- J. Coating and Finish: All components specified shall be galvanized in accordance with Section 719-01 of the Standard Specifications, followed by painting. The painting shall be in conformance with the following:
  - 1. The color shall be black, as specified in Section 708-14 and as approved by the Engineer.
  - 2. Prior to painting all galvanized surfaces shall be cleaned in the manner required by SSPC-SP1, Solvent Cleaning.

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3. After solvent cleaning abrade all galvanized surfaces by brush blast methods, or other mechanical means approved by the Engineer. The purpose of abrading is to roughen the surface, not to remove material.
4. One coat of epoxy mastic primer shall be applied followed by one coat of the finish coat.
5. Mix and apply the paint in strict accordance with the Manufacturer's instructions. The dry film thickness for each coat shall be as follows:

Primer Coat - 4.0 mils  
Finish Coat - 3.0 mils

Manufacturer's instructions for mixing and paint application shall be supplied to the Engineer at least one week prior to the beginning of any paint week.

6. Paint application methods shall be in accordance with the following:
  - a. Shop. Spray, roller, or brush.
  - b. Field. Brush only.

K. Concrete shall meet the requirements of Item 555.0104 M, Footing Concrete, Class A.

The Contractor may submit an alternative design. In this case, shop drawings shall be submitted to the Regional Landscape Architect for approval.

**CONSTRUCTION DETAILS:**

The Contractor shall erect ornamental picket swing gates as indicated on the plans at locations shown or as directed by the Engineer. Gates shall be erected in conformance with the manufacturers instruction, unless otherwise specified.

**METHOD OF MEASUREMENT:**

The work shall be measured by the number of each gate furnished and erected in accordance with the plans, specifications and directions of the Engineer.

**BASIS OF PAYMENT:**

The unit price for bid for each gate shall cover the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work.