

**S-903 PEDESTRIAN BRIDGE:** This work shall consist of furnishing and placing (a) prefabricated pedestrian bridge(s) and the concrete abutments to support the bridge(s).

- A. **GENERAL:** The Pedestrian Bridge(s) shall be of the type specified on the Plans. . The Hand Rail shall be a minimum height of 42” from the top of the deck to the top of the rail, and shall have one (1) diagonal per panel. Horizontal steel safety rails shall be provided as part of the hand rail, with 4” maximum vertical opening between rails. A wooden rub rail shall be provided. The bridge deck shall be of nominal 2” x 10” pressure treated wood.
1. All steel members shall be fabricated from enhanced atmospheric corrosion resistant steel (A588). All fabrications will be produced from high strength, low alloy, atmospheric corrosion resistant ASTM A847 cold-formed welded square and rectangular tubing, and ASTM A588, ASTM A606 or ASTM A242 plate and structural shapes. All wood members shall be pressure treated in compliance with the American Wood Preservers’ Association Standard C14.
  2. The bridge(s) shall be capable of supporting a 100 pound per square foot uniform live load, or a 10,000 pound vehicle load, whichever produces the greatest stress in the bridge members.
  3. The bridge(s) will be delivered in one (1) piece with the decking in place. The bridge(s) shall be designed in accordance with the “Manual of Steel Construction, Load Resistance Factor Design”, as adopted by the American Institute of Steel Construction (AISC) – most current edition, or other applicable standards if approved by the Engineer. The City may require welds to be X-ray tested.
  4. All structural steel, after fabrication, will be blast cleaned in accordance with Steel Structures Painting Council Surface Preparation Specifications No. 6 Commercial Blast Cleaning, SSPC-SP6-latest edition.
  5. Concrete for the abutments shall be Class KCMMB-5K, unless otherwise specified in the plans. If the dead load for the bridge provided exceeds that shown in the plans, the contractor shall provide calculations (Signed and Sealed by an Engineer Licensed in the State of Kansas) demonstrating that the abutment provided will support the total load specified for the bridge.
  6. Excavation and backfill for the abutments shall be in accordance with the requirements of these Specifications as described in "EXCAVATION FOR STRUCTURES".
- B. **METHOD OF MEASUREMENT:** "Pedestrian Bridge" shall be measured per lump sum of completed and accepted work. Construction and installation of the abutment shall be subsidiary to the “Pedestrian Bridge”.
- C. **BASIS OF PAYMENT:** "Pedestrian Bridge" shall be paid for at the contract lump sum price, measured as stated above.