

- (b) The remaining 50 percent of the Contract lump sum price will be paid when traffic is permanently moved to the new/rehabilitated bridge(s) and approaches.

When the Contract specifically provides for Item 607, Roadway Patrol Maintenance, the Contract item Maintenance of Structures and Approaches shall only cover maintenance of the existing structure(s).

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
527.10 Maintenance of Structures and Approaches	Lump Sum

SECTION 528 - TEMPORARY BRIDGE

528.01 DESCRIPTION. This work shall consist of the design, construction, maintenance, and removal of a temporary bridge, its substructures and approaches.

528.02 MATERIALS. The Contractor may use any material or combination of materials that will conform to the requirements of this Subsection and meet the approval of the Engineer. The Engineer reserves the right to reject materials and details that are structurally unsafe for the use proposed.

Unless specifically permitted in the Contract or upon written authorization of the Construction Engineer, the use of pipes will not be allowed for temporary bridges.

Unless otherwise authorized on the approved drawings, all main load carrying members shall be continuous between supports. Splices will only be approved for:

- (a) A fully bolted connection, with high-strength bolts, designed for its location in accordance with the AASHTO *LRFD Bridge Design Specifications*.
- (b) A fully welded connection designed, welded, inspected, and tested in accordance with the AASHTO *LRFD Bridge Design Specifications* and AWS requirements. Any welded connection performed in the absence of and without the approval of the Agency's Welding Inspector will not be approved.

Any welding done for work under this Section must be detailed on the Working Drawings and performed in conformance with Section 506.

528.03 DRAWINGS. Working Drawings shall be prepared by the Contractor for the proposed work under this item in accordance with Section 105. Drawings for the bridge approaches shall include plan, profile, typical section, and specific cross-sections for the temporary roadway and channel (when applicable) with complete details and identification of materials to be used. Geometrics of the temporary bridge and its approaches shall be adequate for the volume of traffic served and individual conditions encountered.

Plan, elevation, and section views of the structure shall include size and spacing of all members or components for:

Abutments

Piers
Main supporting members or stringers
Floor system
Diaphragms and lateral bracing
Railing (bridge and approach)
Curbs
Bearings
Other applicable information

528.04 DESIGN AND CONSTRUCTION DETAILS. The design and structural details of the temporary bridge, its substructures and approaches shall be signed, stamped, and dated by a Professional Engineer (Structural or Civil).

In designing and constructing a temporary bridge, the Contractor shall provide for the waterway and clearances shown on the Plans. When temporary bridge requirements are not shown on the Plans, the opening area shall be at least equal to 40 percent of the waterway provided for the 100-year event (Q 100) for the new structure, with a clear height equal to a ten-year event (Q 10) headwater; this waterway to be adequate for safely conveying a mean annual flood (Q 2.33) at a headwater no greater than what would be created by the existing structure during a ten-year event.