

KENNEWICK IRRIGATION DISTRICT

PROCEDURE #56 BRIDGE DESIGN/CONSTRUCTION STANDARDS

The following are general requirements for bridge crossings of Kennewick Irrigation District (KID) canals and laterals. Bridge plans must be reviewed and approved by the District and must be accompanied by a District crossing application (permit).

Requirements are as follows:

1. Bridges shall be designed for a Washington State D.O.T. minimum loading of H-20.
2. Bridges shall be of steel and concrete construction. Timber stringers, footings, decking or railing will not be acceptable. All materials and work shall be in accordance with the requirements of the State of Washington, Department of Transportation, Standard Specifications for Road and Bridge construction, latest edition. Design for prestressed deck units shall be in accordance with AASHTO Specifications for Highway Bridges, latest edition.
3. Bridges shall have curb, sidewalk and guardrails on both sides. Guardrails shall meet State of Washington, Department of Transportation, standard specifications.
4. Bridges shall be clear span with no supports in the canal cross section.
5. Abutments shall be protected from erosion and shall not restrict flow in the canal.
6. A minimum of two (2) feet of clearance is required between the low point of the span and the maximum design water surface elevation or high water mark, which ever is higher.
7. Canals and laterals with flows in excess of 100 cfs shall be bridged. In some cases, as determined by the District, canals and laterals with lower flows may require bridging.
8. Plans for bridges used on District facilities must be prepared and stamped by a Civil Engineer, licensed in the State of Washington.



PROCEDURE #56	REV. # 0
BOARD APPROVED DATE	
BOARD PRESIDENT-SIGNATURE	
REVISION DATE	