

RS-749 over West Emma Creek
Kansas Department of Transportation
Harvey County, Kansas
Poe & Associates, Inc.

Construction Cost: \$850,000

Completion: 2010

Description: This West Emma Creek bridge project replaced a continuous concrete deck slab bridge on timber piling with a five span, 290 ft. total length haunched slab span bridge. The deck slab was designed to AASHTO Load and Resistance Factor Design, 2007 Edition Specifications. The foundations were driven H-Piling encased in a solid concrete web wall above the scour line. The 93.4 square mile drainage area was analyzed by four methods and a HEC-RAS model was developed for bridge sizing purposes. Poe & Associates worked extensively with adjacent land-owners to provide access during construction. In addition, a farmstead entrance was relocated to avoid conflict with proposed guard rail. Poe & Associates coordinated all the utility relocations and acted as the County's agent for Right-of-Way and easement acquisitions.



Project Team: Paul Ferguson, PE (Project Manager)

Reference: Randy Leonard, PE, Bridge Engineer
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