

**RS-749 OVER WEST EMMA CREEK
KANSAS DEPARTMENT OF TRANSPORTATION
HARVEY COUNTY, KANSAS**

CONSTRUCTION COST: \$850,000

COMPLETION: 2010



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: James Ubert, P.E. (Principal-in-Charge)

Reference: Mr. Randy Leonard, Bridge Engineer
Kansas Department of Transportation
Dwight D. Eisenhower State Office Building
700 S.W. Harrison Street
Topeka, KS 66603