

COUNTY ROAD 2580 BRIDGE 3670020 BRO-B088(22)

RANDOLPH COUNTY, MISSOURI



PROJECT OVERVIEW:

McClure provided surveys, permits, railroad coordination, preliminary and final bridge design, geotechnical design, materials testing, and construction observation services to replace Bridge No. 3670020 utilizing the BRO program. The existing structure was a wooden bridge over the Kansas City Southern Railroad Randolph County, Missouri, and had been repaired due to collision damage and structural deficiencies. The final design included a single span structure with Geosynthetic Reinforced Soil (GRS) abutments for the substructure and precast concrete box beams for the superstructure with a concrete deck. A concrete crash wall was also included in front of each abutment. This innovative bridge design, known as GRS-IBS, stands for Geosynthetic Reinforced Soil - Integrated Bridge System, which was the second one completed in the state of Missouri and the first one over a railroad. Additional width provided by the new structure allowed for two-way traffic and large agricultural equipment.

COMPLETION DATE:

2015

REFERENCE:

John Truesdell
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