

MECO Visions Newsletter

Welcome to the first edition of our electronic MECO Visions Newsletter! This is an exciting new venture for us and we hope you will enjoy reading news about MECO activities, events, and projects. Future editions will introduce members of our staff. Whether you are a valued client or a new friend, we welcome your comments and suggestions for future **Visions Newsletters**. Our first edition profiles a recently completed project in Cooper County, Missouri.

Ellis Davis Road Bridge over Clark's Fork, Cooper County, Missouri

The Cooper County Commission retained MECO Engineering to engineer and design a new bridge to replace an existing low water crossing. The Clark's Fork low water crossing impeded vehicle use and comprised safe transportation of farm equipment and machinery during times of high water and flooding. MECO's responsibilities included surveying, hydraulics/hydrology, geotechnical investigations (sub-consultant), bridge design, ROW maps/easement documents, assistance to the County for land/easement acquisition, aggregate roadway realignment/design, plans and constructible drawings, technical specifications, cost estimates, bidding/contract award assistance, signage/traffic control, construction engineering, contract administration, construction management and observation, bridge certification and closeout. MECO provided coordination between the County, MoDOT, and with the bridge contractor. The new bridge is located on Ellis Davis Road, 1.5 miles west of Missouri Highway 87.

The Ellis Davis Road Bridge Project constructed a 2-span (63'-63') bridge with a 20 degree skew. The superstructure consists of 27-inch deep pre-stressed concrete deck beams and a cast in place concrete topping. The intermediate bent and end bent substructure system consists of non-integral pile caps supported by H-piling. Stream and embankments are protected by rock blanket with filter fabric. Local access, safety, and travel are enhanced through this important project financed through the MoDOT Off-System Bridge Replacement (BRO) Program. With this new span bridge in service, local residents and farmers are no longer faced with long detours and dangerous conditions during rainfall and flooding events. An accelerated construction schedule was implemented to facilitate the re-opening of this vital roadway in the County's transportation system.

Project Facts: Construction Contract Award: \$617,367.04 Final Contract Cost \$612,896.58
Working days in contract: 60 Actual completion days: 24
Construction commenced January 2015 with final inspection held May 8, 2015



Ellis Davis Road Bridge, Cooper County, Missouri
Old low water crossing and new bridge



Cooper County Commission, Boonville, MO

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