

MUS-Philo Bridge Replacement

Cuyahoga County, Ohio

CLIENT

Muskingum County Engineer
155 Rehl Road
Zanesville, OH 43065
Mark Eicher
(740) 454-0155

COMPLETION DATE

November 2017 (Design)
July 2020 (Construction –
Est.)

PROJECT COST

\$1.5 Million (Design)
\$10 Million (Construction)

E.L. ROBINSON'S ROLE

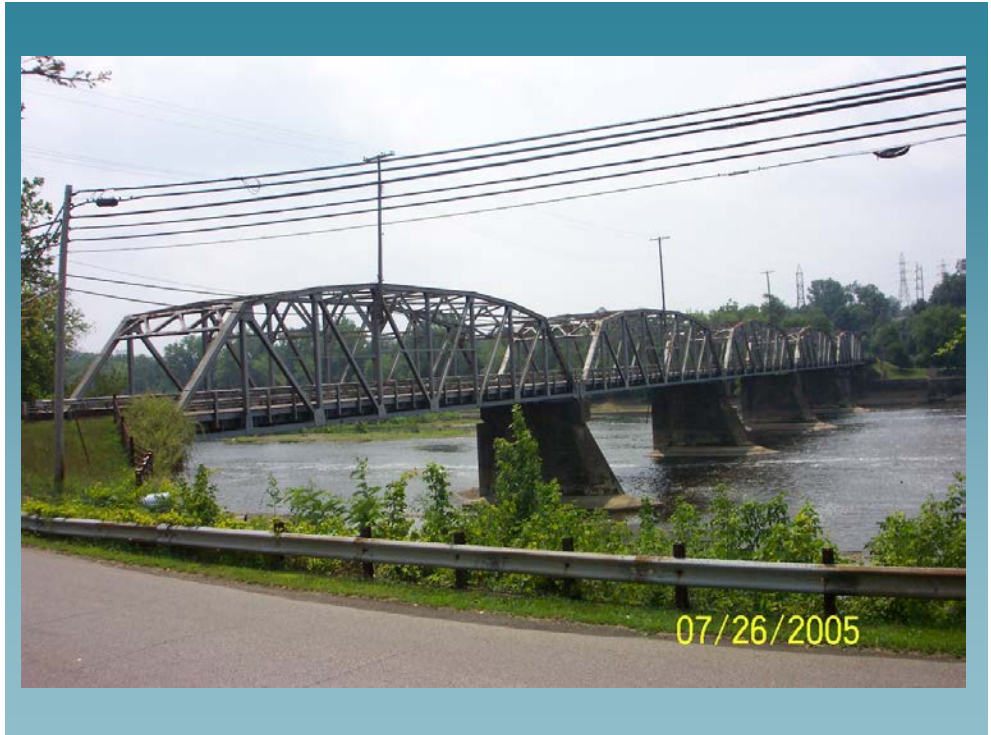
Prime Consultant
Roadway Design
Bridge Design
Hydraulic Design
Geotechnical Design

PROJECT MANAGER

Rick Engel, PE

KEY STAFF

Brent Downing, PE
Kevin White, PE
Matthew Cornett, PE, PTOE
Michael Vogt, PE
Tim Sheldon, PE



This project involved replacing the existing 809' long Bridge Street Bridge over the Muskingum River with a new widened structure. The existing truss bridge maintained vital connectivity between the Duncan Falls and Philo's communities in Muskingum County, Ohio. The Feasibility Study and Structure Type Study evaluated several alignment options for the new river crossing and multiple bridge types, including galvanized steel beams and concrete I-beams. This project was on an accelerated schedule due to the existing structure's deplorable condition, which was continued to be used until the new bridge was completed. The ELR team worked with MCEO and ODOT District 5 on a first of its kind initiative process for FHWA, which involved acquiring right of way with federal funds prior to environmental clearance. This collaboration was successful in expediting the schedule so that the construction could start one year ahead of the initially planned construction date. The proposed design alternatives evaluated utility impacts, right of way impacts, cost differences, and environmental analysis. The proposed design consisted of a 7-span prestressed concrete I-beam design supported by wall type piers, a new 114" culvert to maintain an existing inlet channel, 700' of realigned approach roadway, a new traffic signal at SR-60 and Bridge St, and a parking/overlook area for the historic river lock area nearby.