

DGL Consulting Engineers, LLC

Project Name:

SAN-20-0.15/3.19

Owner:

ODOT, District 2

Construction Cost:

\$2,250,000



Description:

The SAN-20-0.15/3.19 project consisted of the replacement of a three-span continuous steel beam bridge (shown above) with a new bridge of similar span configuration carrying five lanes of traffic and two sidewalks over the Portage River. Roadway approach work was minimized along the relatively busy (15,100 current vpd) US-20, however the intersection of SR-105 immediately adjacent to the proposed rear abutment did complicate approach geometry at this location. The project required special attention be given to coordinating with government agencies such that the existing weather and stream gauge stations that existed at the project site could be maintained, while adequately providing for the configuration required of the new bridge.

Highlights:

- Large skew (49 degrees) and adjacent intersection complicated geometry
- Staged construction utilized to maintain two-way traffic along US-20
- Construction cost savings was realized by the use of two different abutment types
- Detailed hydraulic evaluation of the Portage River was completed



DGL Consulting Engineers, LLC
3455 Briarfield Blvd. - Suite E
Maumee, OH 43537

419-535-1015
www.dgl-ltd.com