

DGL Consulting Engineers, LLC

Project Name:

Summit Street Bridge Over Ottawa River
[Fred C. Young Memorial Bridge]

Owner:

Lucas County/City of Toledo

Construction Cost:

\$3.0 million



Description:

This bridge carries Summit Street over the Ottawa River, providing a vital connection between the Point Place community in the City of Toledo and the Shoreland District of Washington Township, Lucas County. The existing bridge, built in 1940, was a six-span, continuous steel beam bridge with a reinforced concrete deck on solid wall-type piers and reinforced concrete abutments. Years of deterioration caused the posting of a reduced load limit and resulted in the need to rehabilitate or replace the bridge.

After preliminary testing and preparation of a preliminary design report, a final plan was prepared, calling for the removal of the existing superstructure and abutments; modification of the existing piers and approach roadways; new semi-integral abutments placed within the original abutment locations; and a new continuous weathering steel beam superstructure with a composite reinforced concrete deck. The bridge length was reduced from 450 to 418 feet.

Highlights:

- Built under part with construction procedures to maintain two-way traffic at all times
- Provisions for cyclists and pedestrians
- Aesthetic elements added as a result of public involvement
- Decorative highway lighting
- Pedestrian railing with nautical motif
- Navigational lighting for boaters



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