



Richland Avenue Bridge Rehabilitation **Project Information Sheet**

Project Location:

The existing Richland Avenue Bridge is located near 362 Richland Avenue. The bridge was constructed over Coates Run in 1935, and is a two-span reinforced concrete slab, currently rated at 65% of Ohio Legal Loads.



Existing Structure - Note the Deterioration on the Pier

Project Purpose:

The purpose of this project is to rehabilitate the existing structure to meet load standards.

Alternatives reviewed:

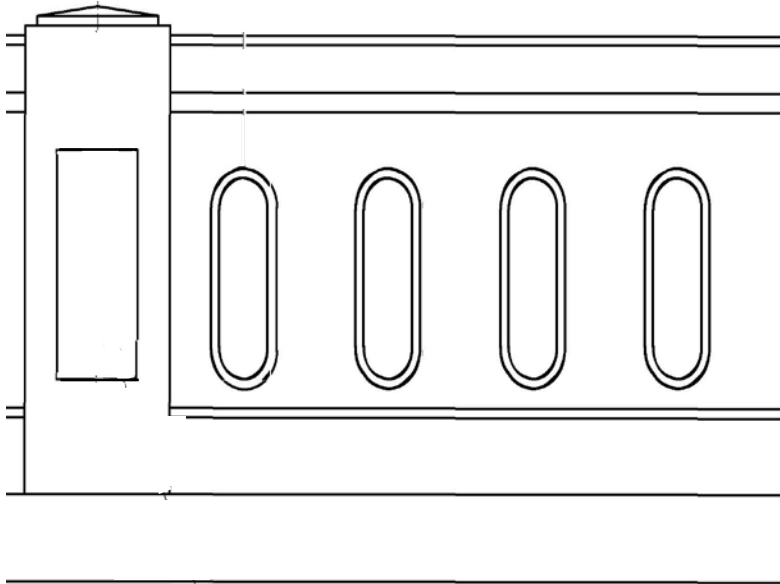
- A carbon wrap fiber alternative to rehabilitate the bridge was reviewed; however, the design firm found that this option would not increase the load capacity enough to meet standards.
- A box beam alternative was reviewed, however, the existing bridge's skew is approximately 44° and the Ohio Department of Transportation (ODOT) has experienced issues in the past constructing box beam bridges with skews greater than 30°. This alternative was removed from consideration because of constructability issues.
- A single span reinforced concrete slab alternative was reviewed. This option meets design and loading standards and allows removal of the pier.



Project Description:

The rehabilitation of the bridge includes:

- Removing the existing slab and pier and replacing with a 46-foot single span reinforced concrete slab.
- The proposed superstructure width (roadway, sidewalk, and railing) will match existing. The existing configuration (10-foot travel lanes, 5-foot bikelanes, 5-foot sidewalks) will be maintained.
- The structure will meet current loading standards and will not impact the floodway of Coates Run.
- This project will be completed in two phases (west and then east) and will utilize temporary signals to maintain traffic.
- The proposed railing will have 'windows' and will maintain the exposed aggregate characteristic of the existing railing.



Proposed Railing Design

Current Project Timeline:

- Award / Sale Date: Fall, 2018
- Construction Complete: May - August, 2019 (4 months)

Approximate Preliminary Construction Cost Estimate:

\$958,069 - of which the City has received \$685,277 in funding from Municipal Bridge Program Funds (FHWA funds administered through ODOT).

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by ODOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 11, 2015, and executed by FHWA and ODOT.