

Johnson Street Bridge



Scope:

The project will involve the replacement of the northbound (eastern most) Johnson Street bridge structure in the City of Elkhart. The design shall include, but is not limited to: bridge size and type analysis, survey, geotechnical analysis and foundation design, drainage design and erosion control plans, maintenance of traffic plans, all required state and federal permits including coordination with and approval of American Electric Power regarding their adjacent dam structure, and preparation of contract plans and specifications.

The new structure will be constructed to the west of the structure constructed in 1992. The new structure would be designed to carry the southbound traffic while the 1992 structure would be converted to carry the northbound traffic. The new southbound structure would have a typical section matching the existing southbound structure.

In order to accommodate this proposed structure configuration, the existing alignment of Johnson Street will need to be shifted to the west approximately 50 feet. The alignment shift would be accomplished by extending the tangent sections in the north and south approaches toward the structure and placing horizontal curves at each end of the structure.

Design Consulting Engineer:

DLZ

Bridge Construction Company:

Anlaan Corporation

Construction Inspection Company:

DLZ

Elkhart County Engineering Project Manager:

Katie Niblock

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Information/Updates:

August 30, 2007	Preliminary Design Plans submitted
September 10, 2007	DLZ/Highway Dept. presented structure options to Commissioners <ul style="list-style-type: none">• Commissioners chose to proceed with a 2-span steel girder option for the new structure
September 13, 2007	2nd INDOT inspection (with larger inspection vehicle) <ul style="list-style-type: none">• INDOT has hired a consultant, Janssen & Spaans Engineering, Inc., to do fracture critical inspections of the bridge every 3 months.
September 20, 2007	Coordination meeting between Elkhart City and County
December 12, 2007	DLZ to submit Final Plans to County
January 25, 2008	DLZ to submit Final Tracings to County
April 7, 2008	Posted project for bid
July 2008	Anlaan Corporation awarded contract
August 2008	Construction began
November 2008	Contaminated soil and water discovered on north side of bridge. All water must be treated with carbon filters. (causing significant project delay)
December 2008	Construction of center pier

April 2009	Relocation of sanitary and storm sewer at north end of bridge
July 2009	Construction of north and south abutments
August 2009	Finishing abutment and renovating existing bridge
October 2009	Beardsley westbound from Johnson to be open to the public by end of the month.
February 2010	Construction continues in Phase III. Bridge lanes are restricted to two southbound and three northbound. This phase will continue until mid March. Rehabilitation to existing southbound bridge will be complete by mid March.
Spring 2010	Phase IV work will begin. All traffic will be shifted on Johnson Street to the eastern-most lanes. Beardsley and Elkhart Avenues will be closed west of Johnson Street for approximately 3 months.
July – Sept. 2010	Phase V work will begin. Traffic will be shifted to the western-most lanes of Johnson Street. Turns to and from Beardsley and Elkhart will be prohibited, in all directions, except for right turns (eastbound) from southbound Johnson Street. Demolition of the existing truss bridge will take place. The project will be complete before October 1, 2010.