

## BRIDGES



*Ken Herceg & Associates, Inc. performed an emergency bridge inspection which included testing, analysis and evaluation on the Cline Avenue Bridge for INDOT. In particular, this included: managing three subconsultants (over 50 individuals); acquiring safety life equipment; oxygen sensors; permits; safety training; and traffic control. Other requirements developed as the project progressed, such as: compressive and tensile tests; chloride tests; borescoping; assessing internal tendons; and developing an analysis approach to incorporate results. This structure was exhibiting evidence of cracking and deficiencies which led to the emergency inspection and assessment. During six months of field work, focus was given to thoroughly inspect the bridge with an array of nondestructive and non-invasive testing methods.*

## BRIDGES

### Indiana Toll Road (I 80 / 90)

*Mile Post 15.5 - Mile Post 18.5 Complete Bridge Reconstruction and added travel lanes - Indiana Toll Road Division*

*\$ 30,000,000 (approximate construction cost)*

### Fail Road over Conrail Railroad Bridge Replacement

*Three-span continuous composite steel bridge with intersection redesign and railroad service access*

*LaPorte County Board of Commissioners*

*\$ 2,500,000 (approximate construction cost)*

### US 35 over US 30 Replacement of Twin Bridges

*Twin bridges replacement and interchange improvements  
Indiana Department of Transportation*

*\$ 3,500,000 (approximate construction cost)*

### Wilden Avenue over Elkhart River Bridge Replacement

*Three-span continuous prestressed concrete I-Beam*

*Elkhart County Board of Commissioners*

*\$ 1,500,000 (approximate construction cost)*

### Indiana Avenue over Elkhart River Bridge Replacement

*Three-span continuous prestressed concrete I-beam*

*Elkhart County Board of Commissioners*

*\$ 1,600,000 (approximate construction cost)*

### 137th Street over I-65 Bridge Rehabilitation

*Lake County, Indiana*

*Indiana Department of Transportation*

*\$ 785,000 (approximate construction cost)*

### Cassopolis Street over Christiana Creek Bridge Replacement

*Elkhart County Board of Commissioners*

*\$ 500,000 (approximate construction cost)*

### Cedar Road over Lost Creek Bridge Replacement

*Three-span reinforced concrete slab bridge with pile bents*

*St. Joseph County Department of Public Works*

*\$ 300,000 (approximate construction cost)*

### Chinworth Historic Steel Truss Bridge Rehabilitation

*Bridge over Tippecanoe River*

*City of Warsaw Building & Planning Department*

*\$ 120,000 (approximate construction cost)*

### CR 40 S over the Indiana Toll Road Bridge Rehabilitation

*Steuven County, Indiana*

*Indiana Department of Transportation*

*\$ 600,000 (approximate construction cost)*

### CR 100 W over I-65 Bridge Rehabilitation

*Jasper County, Indiana*

*Indiana Department of Transportation*

*\$ 240,000 (approximate construction cost)*

## BRIDGES

*The expectation of our clients are continually exceeded. Our collaborative approach, consistent communication, along with innovative engineering strategies are the foundation for our ability to please our clients.*

### BRIDGES CONTD.

- CR 200 N over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 600,000 (approximate construction cost)*
- CR 225 W over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 575,000 (approximate construction cost)*
- CR 300 W over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 600,000 (approximate construction cost)*
- CR 300 W over Mill Creek Bridge Replacement  
*LaPorte County Board of Commissioners*  
*\$ 400,000 (approximate construction cost)*
- CR 400 N over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 600,000 (approximate construction cost)*
- CR 450 E over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 550,000 (approximate construction cost)*
- CR 500 N over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 600,000 (approximate construction cost)*
- CR 550 E over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 550,000 (approximate construction cost)*
- CR 600 E over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 600,000 (approximate construction cost)*
- CR 700 E over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 600,000 (approximate construction cost)*
- CR 935 E over the Indiana Toll Road Bridge Rehabilitation  
*Stauben County, Indiana*  
*Indiana Department of Transportation*  
*\$ 600,000 (approximate construction cost)*
- Early Road over the Grapevine Ditch New Bridge  
*New precast concrete arch with approaches*  
*St. Joseph County Department of Public Works*  
*\$ 270,000 (approximate construction cost)*

## BRIDGES



*The Indiana Avenue Bridge is a new structure that replaces a bridge built in the 1930's. This structure over the Elkhart River is 203 feet long and is constructed of concrete. It has prestressed concrete "T" beams placed on concrete "hammerhead" piers. A unique feature, an anti-icing system has been installed to keep ice and snow off the bridge deck during the winter months. The system is fully automatic and is the first of its kind in the State of Indiana. In addition to the bridge, the project also consisted of a Bike-Pedestrian tunnel under Indiana Avenue at the West end of the bridge. This tunnel allows bicycles and pedestrians to pass underneath. The completion of this structure has aided in attracting and increasing visitors to the downtown area.*

### BRIDGES CONTD.

#### Island Park Bridge Repair

*Three-span timber pedestrian bridge repair of failed structure*

*City of Elkhart Parks & Recreation Department*

*\$ 60,000 (approximate construction cost)*

#### Marsh Creek Steel Truss Bridge Reconstruction

*City of Warsaw Building & Planning Department*

#### Rice Road over Chain-o-Lakes Bridge Replacement

*Three-span reinforced concrete slab with pile bents over Chain-o-Lakes branch of Geyer Ditch*

*St. Joseph County Department of Public Works*

*\$ 500,000 (approximate construction cost)*

#### Small Structures Inspection in Carte' Graph Format

*Inventory and Inspection of Small Structures*

*LaPorte County Board of Commissioners*

#### SR 10 over Knight Ditch Arch Bridge Widening

*Newton County, Indiana*

*Indiana Department of Transportation*

*\$ 300,000 (approximate construction cost)*

#### SR 14 over I-65 Deck Replacement & Bridge Raising

*Jasper County, Indiana*

*Indiana Department of Transportation*

*\$ 703,000 (approximate construction cost)*

#### SR 49 over Cook Ditch Bridge Rehabilitation

*Porter County, Indiana*

*Indiana Department of Transportation*

*\$ 335,000 (approximate construction cost)*

#### University of Notre Dame Golf Course Two New Bridges over Juday Creek

*Single span prestressed concrete with decorative fascia & railings*

*University of Notre Dame Facilities Engineering Department*

*\$ 100,000 (approximate construction cost)*

#### US 6 over Coffee Creek

*Porter County, Indiana*

*Indiana Department of Transportation*

*\$ 210,000 (approximate construction cost)*

#### US 12 over Burns Ditch Bridge Rehabilitation

*Porter County, Indiana*

*Indiana Department of Transportation*

*\$ 279,000 (approximate construction cost)*

#### US 30 over Slocum Ditch Twin Bridge Replacement

*LaPorte County, Indiana*

*Indiana Department of Transportation*

*\$ 610,000 (approximate construction cost)*

#### US 231 over Tyler Ditch Superstructure Replacement of Bridge

*Jasper County, Indiana*

*Indiana Department of Transportation*

*\$ 280,000 (approximate construction cost)*