

Broadway Street Bridge over Kentucky River



**TEAM
KENTUCKY**
TRANSPORTATION
CABINET



Nov. 16, 2023

History

~ 1850 - Covered Bridge built

1893 - Today's Bridge built
(this photo)

1929 - Adjacent RR Bridge built

1951 - Rehabilitated & Widened

1993 - Closed to traffic



Spring 2019

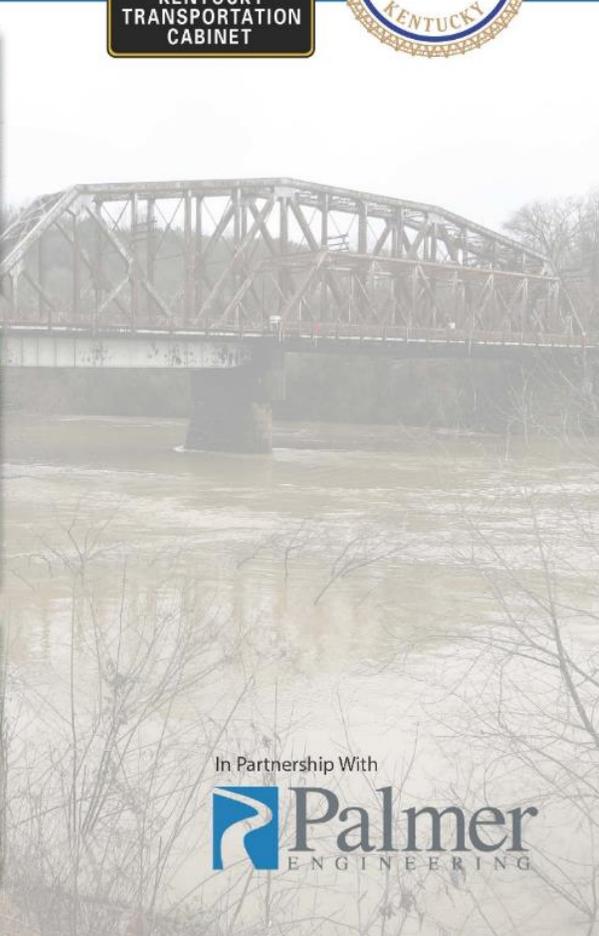
Structural Inspection

*Above Water/Ground



Bridge Conversion Feasibility Study
Broadway Street (KY 3506) over Kentucky River
Franklin County, KY

August 2019



In Partnership With



Findings

Bridge Rating of 1 out of 9 -

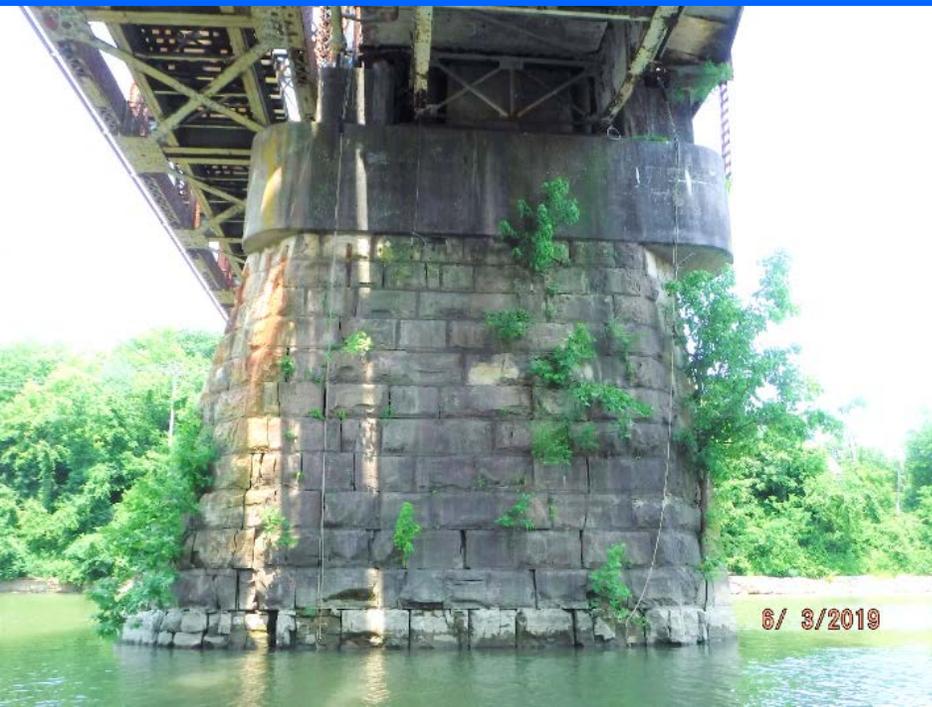
Imminent Failure

Rehabilitation Possible

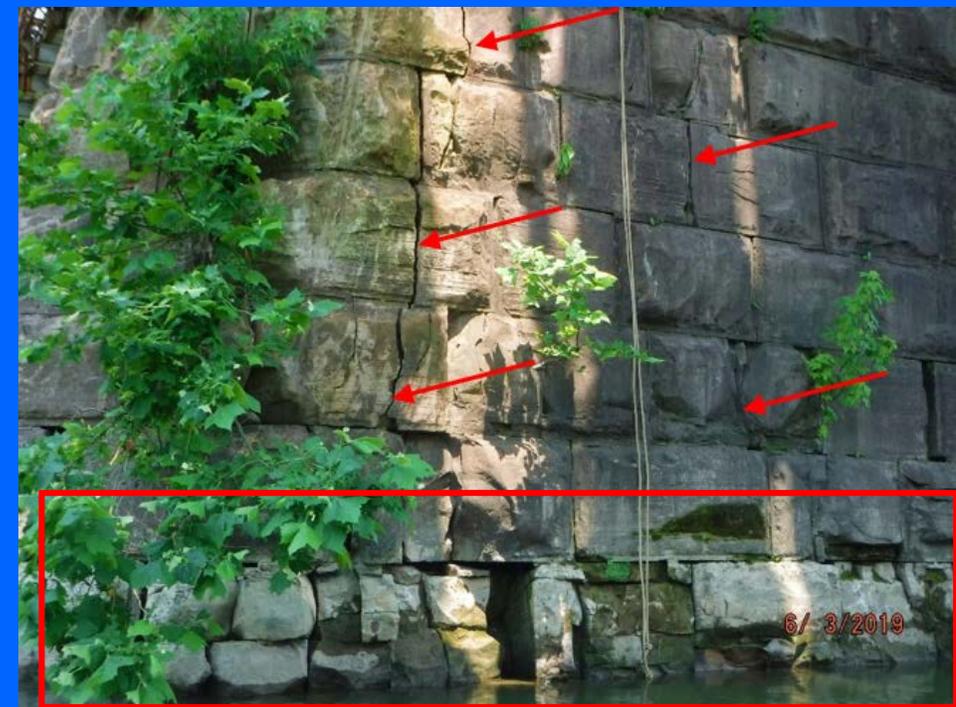
Some Repairs Very Costly



Pier 3 -
Serious Condition



Pier 5 -
Serious Condition





Underwater Bridge Inspection Report

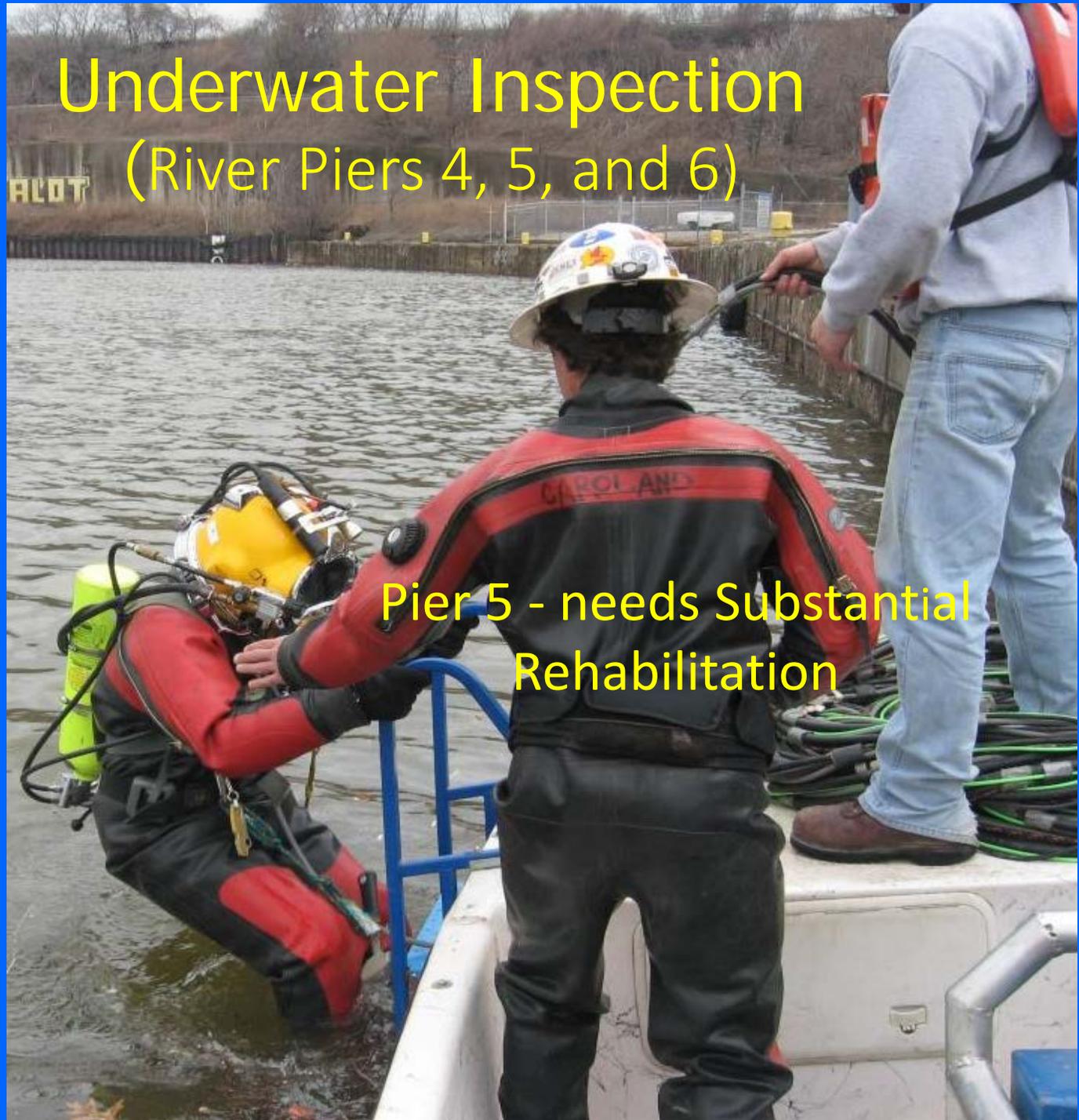
Structure No.: 037B00066N
Crossing: Kentucky River
Route: Old Broadway Pedestrian Bridge
County: Franklin
District: 5
State: Kentucky

Prepared for:
Kentucky Transportation Cabinet
Frankfort, Kentucky

Inspection Date: October 5, 2020

Stantec Consulting Services Inc.
Design with Community in Mind
3052 Beaumont Centre Circle
Lexington, KY 40513
Tel: (859) 422-3000 • Fax: (859) 422-3100
www.stantec.com

Underwater Inspection (River Piers 4, 5, and 6)



Pier 5 - needs Substantial
Rehabilitation

Environmental Progress

An aerial photograph of a large, multi-span steel truss bridge crossing a wide river. The bridge is made of reddish-brown metal and has a road deck on top. The surrounding area is lush with green trees and vegetation. In the background, a road and some buildings are visible on the right bank. The sky is clear and blue.

2020:

Archaeology & Mussel Surveys
Historic Properties Survey &
Consultation Meeting
Public Meeting

2021:

Historic Consultation Meeting

2023:

Historic Consultation Meeting
Public Meeting

Alternatives Considered



Alternative #1: Demolition

Remove former highway bridge

Historic:	Adverse Effect
Cost:	Lowest
Structural:	No Concerns

Alternative #2: Rehabilitation

Rehabilitate bridge and foundations to construct bicycle and pedestrian crossing

Historic: Lowest Effect
Cost: Highest
Structural: Difficult Pier Repair; Unknown Foundations



Alternative #3: New Bridge

Demolition and construction of new bicycle and pedestrian bridge

Historic:	Adverse Effect
Cost:	Medium
Structural:	Easiest; Most Reliable



Project Team Recommendations

- Hybrid of #2 (Rehab) & #3 (New Bridge)
- Rehabilitate & Paint Truss
- New Piers ~40' Downstream
- New Foundations & Approach Spans
- New Concrete Path & Railing

Current Location

Slower & More Costly
Construction

Interference with Existing
Foundations

Users Close to RR Bridge &
Train Traffic



Downstream
Location

Faster & Less Costly Construction

No Interference with Existing
Foundations

Users Farther away from Train
Traffic

Alternative 4a Current Location



Alternative 4b Downstream Location







Overlook
Opportunity



Interpretive Signage
Opportunity



Lumenrt
Designer

Frankfort's Color
Theme



Accents



Overlooks

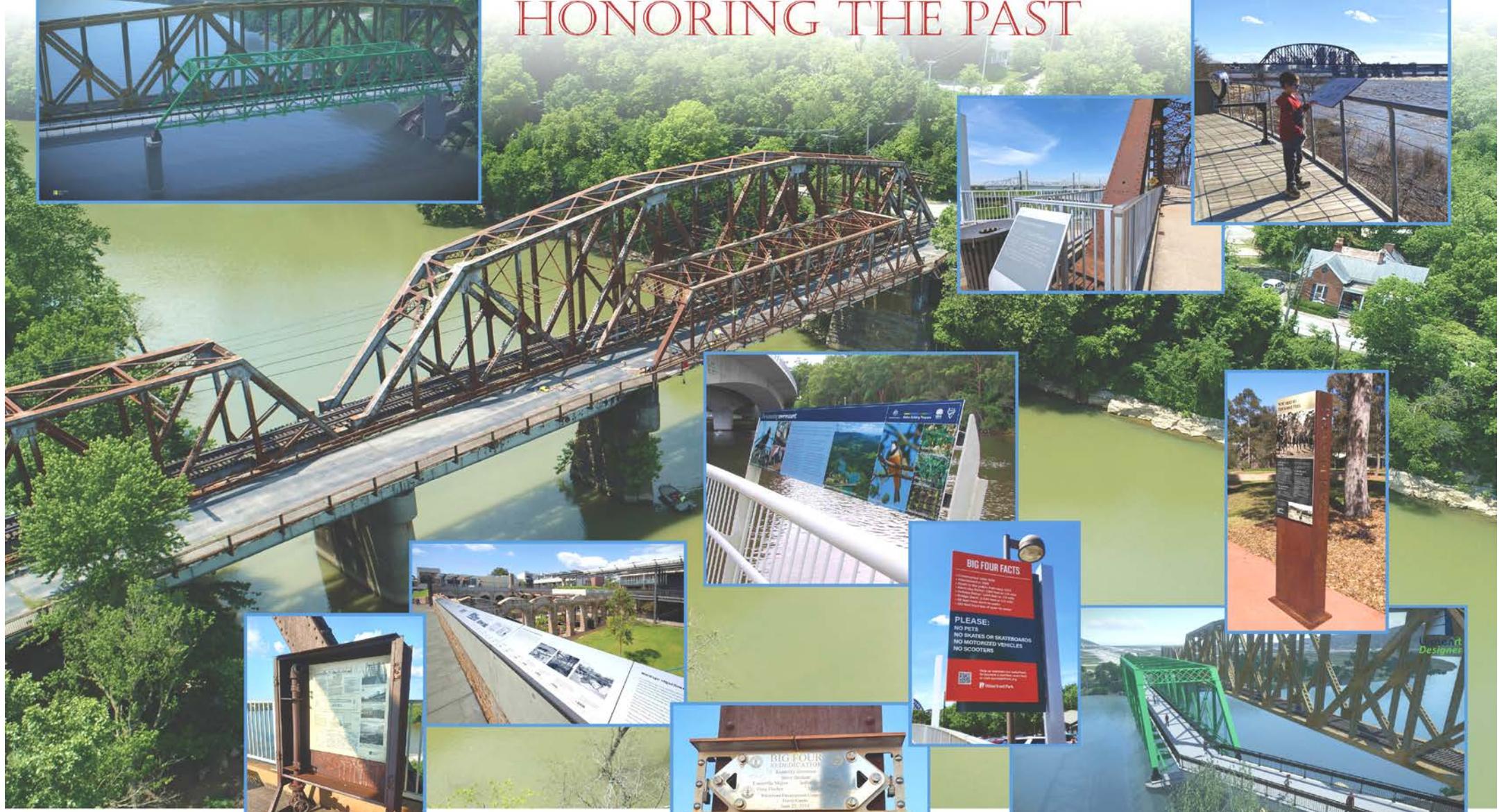


Interpretive
Signs



Bicycle
Friendly

INTERPRETIVE SIGNAGE HONORING THE PAST



Next Steps

- Alternative Selection
- Geotechnical Exploration
- Final Design
- Permits
- Construction