

## PURPOSE OF THE PROJECT/MEETING

- The purpose of the project is to implement a long-term solution to address deteriorating structural conditions, as well as safety concerns for pedestrians and boaters who travel beneath the structure.
- The purpose of this meeting is to provide the public with an overview of the project and an opportunity to provide comments that can be considered during further project development.



# COMMENTS

Project Website: <https://transportation.ky.gov/DistrictFive/Pages/Broadway-Bridge-Project.aspx>

## Virtual Public Meeting

**October 27, 2020 at 6:30 PM**

The purpose of this Virtual Public Meeting is to provide the public with an overview of the project and an opportunity to provide comments that can be considered during further project development. Registration is required. Register here and a Zoom link will be sent to you prior to the event:

**REGISTER**

To request a printed copy of the meeting materials, contact David Waldner at 505-744-1218 or [dwaldner@palmerint.com](mailto:dwaldner@palmerint.com). KYTC is accepting public comments on this project until November 12, 2020. [Click here to submit your comment.](#) If you prefer to mail a comment to us, please print and use the Comment Card in the Public Meeting Document.

## Public Meeting Documents

[PowerPoint Presentation for Meeting](#)


[Comment Card \(PDF\)](#)

[Public Meeting Recording \(to be uploaded after the meeting\)](#)

[Virtual Public Meeting Participation Instructions](#)



# COMMENTS

 Kentucky Transportation Cabinet

Submit Public Comments

Full Name \*

Email \*

Comments: \*

Captcha is Case Sensitive: \*

Colorful 

Submit

Cancel





# PUBLIC MEETING WEST BROADWAY BRIDGE

October 27, 2020

6:30 PM EST



## PROJECT PURPOSE AND NEED

The purpose of the project is to implement a long-term solution to address deteriorating structural conditions as well as safety concerns for pedestrians and boaters who travel beneath the structure.



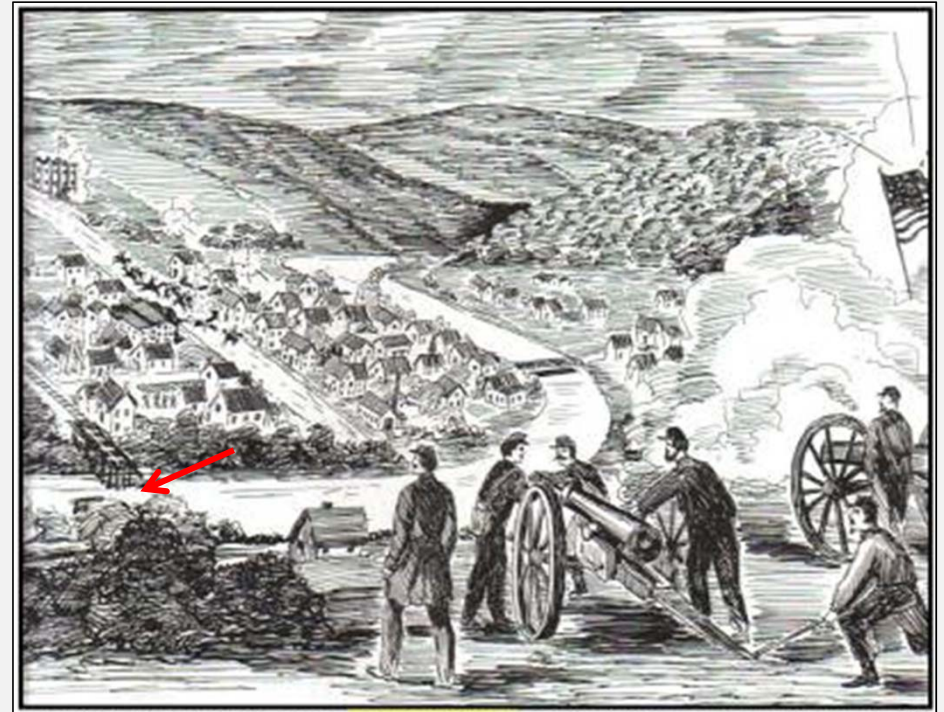
# HISTORY OF THE WEST BROADWAY BRIDGE



## HISTORY OF THIS CROSSING OVER THE KENTUCKY RIVER

1851 – Suspension bridge built but could not support long rail loads.

1856 – That bridge was replaced by a covered bridge, which was subsequently burned during the Civil War. Its replacement was washed away in a flood.



## HISTORY OF THIS CROSSING OVER THE KENTUCKY RIVER

1868 – An iron Fink truss bridge restored the crossing across the river.

1910 – The current W. Broadway Bridge was constructed as a pin-connected Baltimore Petit truss.





## HISTORY OF THIS CROSSING OVER THE KENTUCKY RIVER

1929 – The adjacent railroad bridge was constructed.

1951 – Major rehabilitation and reconfiguration of the W. Broadway Bridge to better accommodate vehicular use.



## DETERIORATION OF THE BRIDGE

- 1977 – Load limits reduced due to inadequate floor system.
- 1991 – Weight limit reduced to 3 tons.



## DETERIORATION OF THE BRIDGE

- 1993 – Bridge closed to traffic.
- 2019 – Bridge Conversion Feasibility Study found the bridge rates 1 out of 9 according to the Federal Highway Administration's guidelines (imminent failure condition).



## CURRENT STATUS

- Closed to vehicular and pedestrian traffic.
- The conditions below water are unknown.
- KYTC has commissioned an underwater inspection to assess the pier conditions.



## CURRENT STATUS

- Falling concrete and steel poses safety hazard.
- Corrective measures may return it to light service.



## CURRENT STATUS

- Feasibility Study recommends installation of netting.
- The KYTC has installed an overhead protection system on the sidewalk.



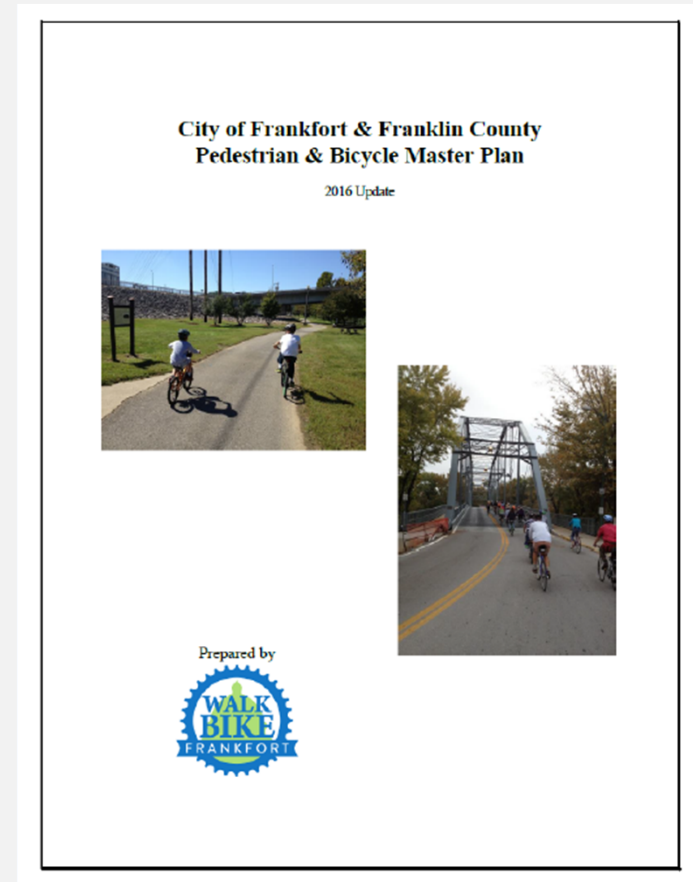
## FRANKFORT DOWNTOWN MASTER PLAN

“Improvements to the [trail] system are recommended. Foremost is renovation and reuse of the Broadway Bridge into a pedestrian/bike facility.”



# PEDESTRIAN & BICYCLE MASTER PLAN

The Broadway Bridge is priority 4A in the City of Frankfort & Franklin County Pedestrian & Bicycle Master Plan 2016 Update.





## PROJECT ALTERNATIVES

- Bridge Conversion
- Bridge Demolition
- New Pedestrian Bridge

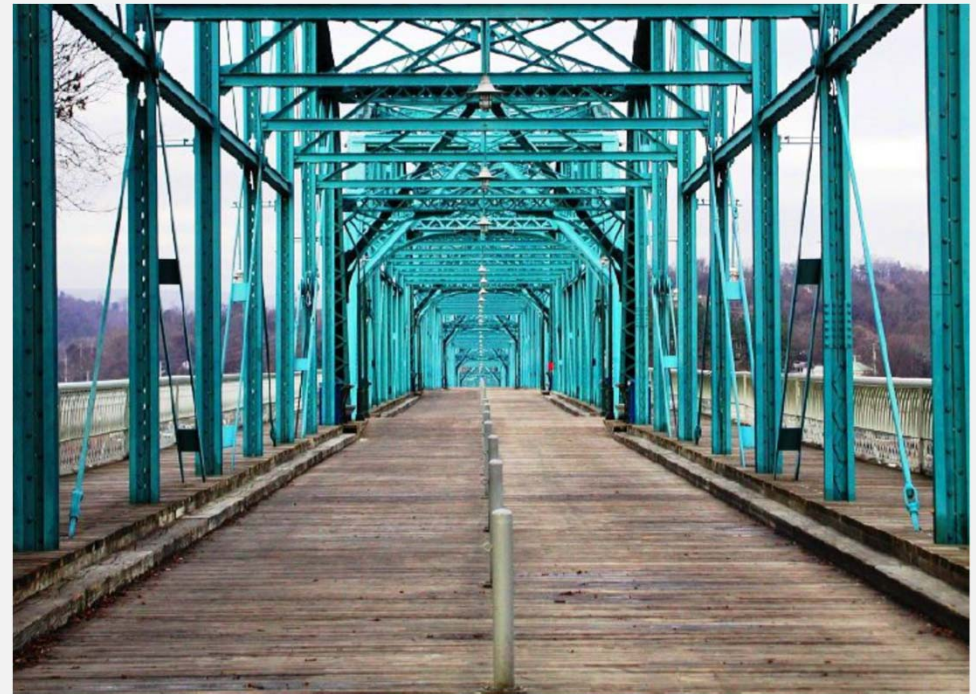


Pedestrian bridge concept in Frankfort Downtown Master Plan.



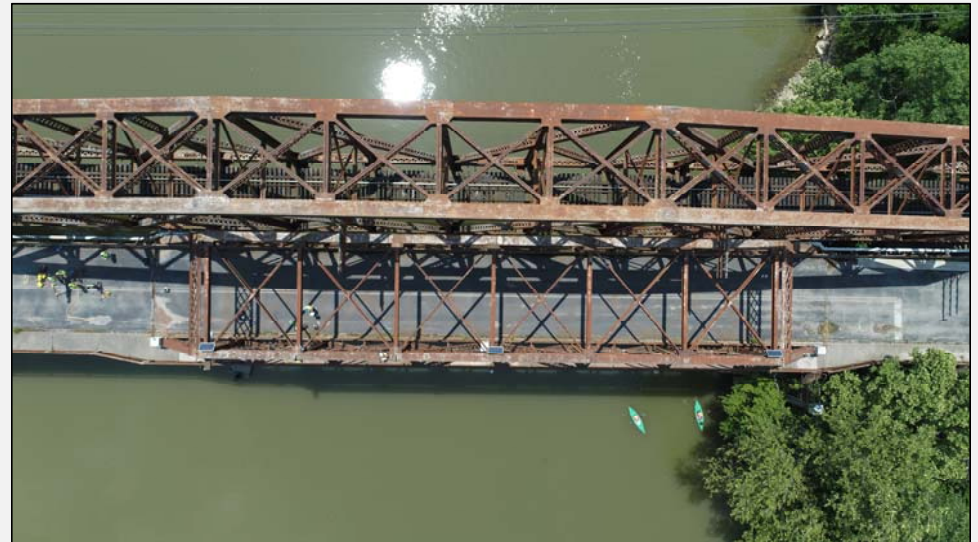
## ALTERNATIVES CONSIDERED BUT DISMISSED

- No-build alternative
- Conversion of the bridge to a full-width (23.25-foot) pedestrian path



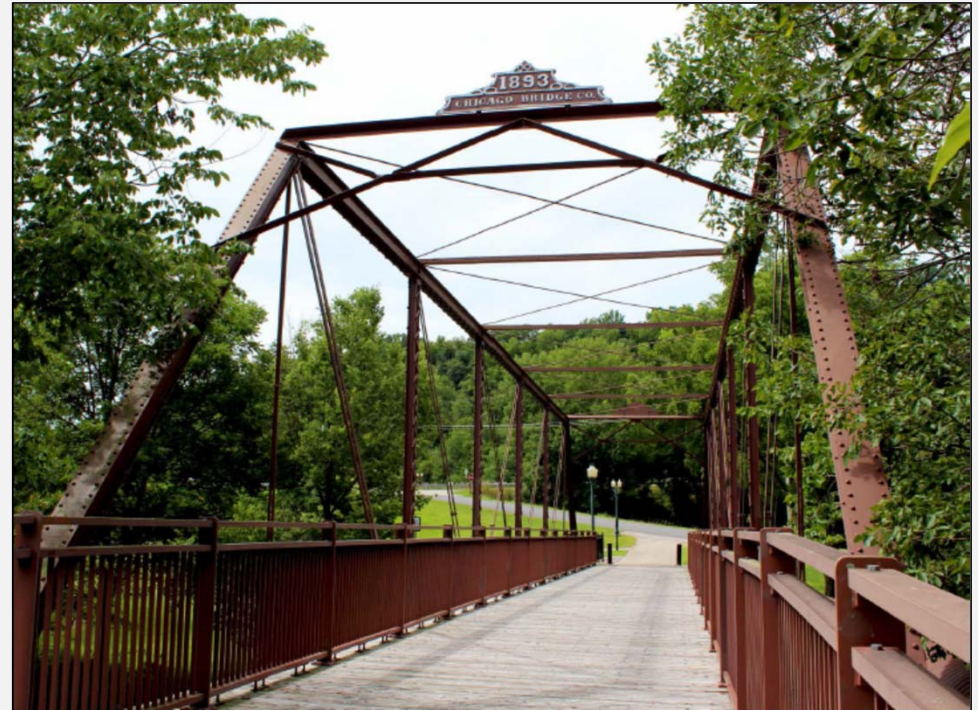
## PROJECT CHALLENGES

- Railroad coordination required due to shared pier and RR right of way.
- Coast Guard coordination and approval will be required.
- Working above a navigable stream adds costs.



## PROJECT ALTERNATIVES – CONVERSION

- Conversion to a pedestrian path is possible.
- Costs estimated at \$2-4M, plus design fees and underwater repairs.
- Analyze impacts to historic properties and River View Park.



## PROJECT ALTERNATIVES – CONVERSION

- Typically, local government accepts responsibility for the structure and its long-term maintenance.
- FHWA Historic Bridge Program contribution estimated at \$600,000.



## CONVERSION VARIABLES

- Several variables were considered in the Bridge Conversion Feasibility Study including:
  - Pier repair method
  - Path type (wooden or concrete)
  - Path width



## CONVERSION VARIABLES

Pier concrete  
encasement vs.  
historically sympathetic  
repair



## CONVERSION VARIABLES

10' wooden path vs. 12' concrete  
path (10' usable)





## PROJECT ALTERNATIVES – DEMOLITION

- Cost estimates are \$375,000 (deck only) - \$600,000 (deck and truss).
- Analyze impacts to historic properties and River View Park.



## PROJECT ALTERNATIVES – NEW PEDESTRIAN BRIDGE

- New bridge downstream or in the same location as the existing bridge.
- 12' concrete path (10' usable), box beam approaches, and a truss as the main span.
- The deck of the W. Broadway Bridge would still be removed.



## COST ESTIMATES

	Rehab with 12' Concrete Path & Historic Pier Repair	Rehab with 12' Concrete Path & Concrete Pier Repair	Rehab with 10' Wooden Path & Historic Pier Repair	Rehab with 10' Wooden Path & Concrete Pier Repair	New Ped Bridge	Deck Removal	Full Superstructure Removal
Deck Removal	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000	
Superstructure Removal							\$600,000
Truss Rehab	\$220,000	\$220,000	\$220,000	\$220,000			
Approach Span Rehab	\$200,000	\$200,000	\$200,000	\$200,000			
Full Historic Pier Repair	\$2,366,000		\$2,366,000				
Pier Repair - Concrete		\$873,000		\$873,000			
12' Concrete Ped Path	\$256,000	\$256,000					
10' Timber Ped Path			\$131,000	\$131,000			
Blast Clean & Paint	\$487,000	\$487,000	\$487,000	\$487,000			
New Ped Bridge					\$1,650,000		
<b>TOTAL</b>	<b>\$3,904,000</b>	<b>\$2,411,000</b>	<b>\$3,779,000</b>	<b>\$2,286,000</b>	<b>\$2,025,000</b>	<b>\$375,000</b>	<b>\$600,000</b>



## NEXT STEPS

- KYTC is seeking public input.
- Comments will be accepted following this meeting, through November 12, 2020.
- Comments can be submitted by:
  - Submitting online at: <https://transportation.ky.gov/DistrictFive/Pages/Broadway-Bridge-Project.aspx>
  - Mailing a comment card downloadable from the website listed above.
  - Through the Q&A feature during this Public Meeting.
- Interested people/organizations can apply on the website to become Consulting Parties and provide input on the historic aspects of the project.
- First Consulting Party Meeting (Zoom) scheduled for 10:00 a.m. November 9.



## NEXT STEPS

- KYTC has initiated environmental studies.
  - A cultural historic analysis of the bridge and surrounding area is being conducted.
  - Archaeological survey is being conducted, including side-scan sonar of the river.
  - Section 4(f) analysis will occur to examine potential effects to historic properties and recreational resources.
  - Ecological studies are also underway, including side-scan sonar surveys to identify potential endangered mussel habitat.



## REMINDERS

- Project documents will be available on the project website. Watch for updates there.
- Comments may be submitted directly through the website.
- Project updates will be communicated to the public throughout project development.
- Public meeting attendees will receive email updates.



## ANY QUESTIONS/COMMENTS?

- Please submit your comments through the project website.
- Questions may be submitted via email at:

[BroadwayBridge@palmernet.com](mailto:BroadwayBridge@palmernet.com)

or by contacting

David Waldner, Consultant Project Manager,

Palmer Engineering at (859)-744-1218



## THINGS TO REMEMBER

- You can submit questions using the Q/A feature in Zoom
- You can submit comments at the project website  
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## CONSULTING PARTIES

- Consulting parties are persons with a demonstrated interest in the project because of the nature of their legal or economic relationship to the project or affected properties, or with concerns regarding the project's effects on historic properties
- Consulting Parties will have the opportunity to be involved in the consultation with the Kentucky Heritage Council regarding project impacts to historic properties
- Applications are currently being accepted on-line at the project website



## THANKS FOR JOINING US THIS EVENING

- Remember to submit your comments through the Project website:

<https://transportation.ky.gov/DistrictFive/Pages/Broadway-Bridge-Project.aspx>

- If you have questions, please send them to

[BroadwayBridge@palmernet.com](mailto:BroadwayBridge@palmernet.com)

or contact

David Waldner at (859) 744-1218

- Have a great rest of your evening!

