





Welcome!

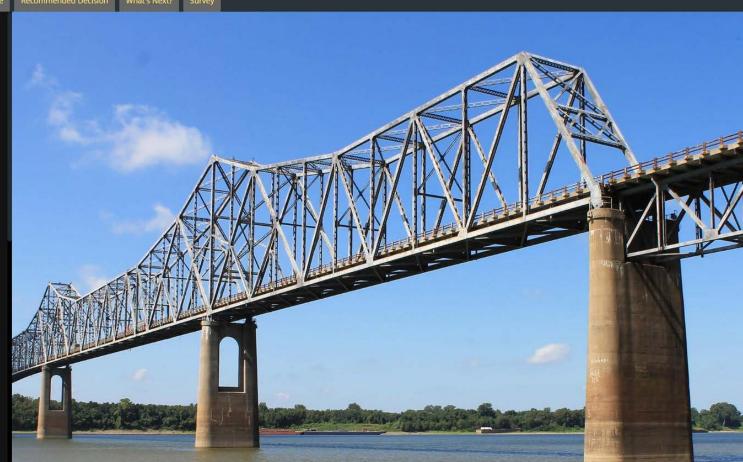
Thank you for visiting the US 51 Bridge Online Public Meeting

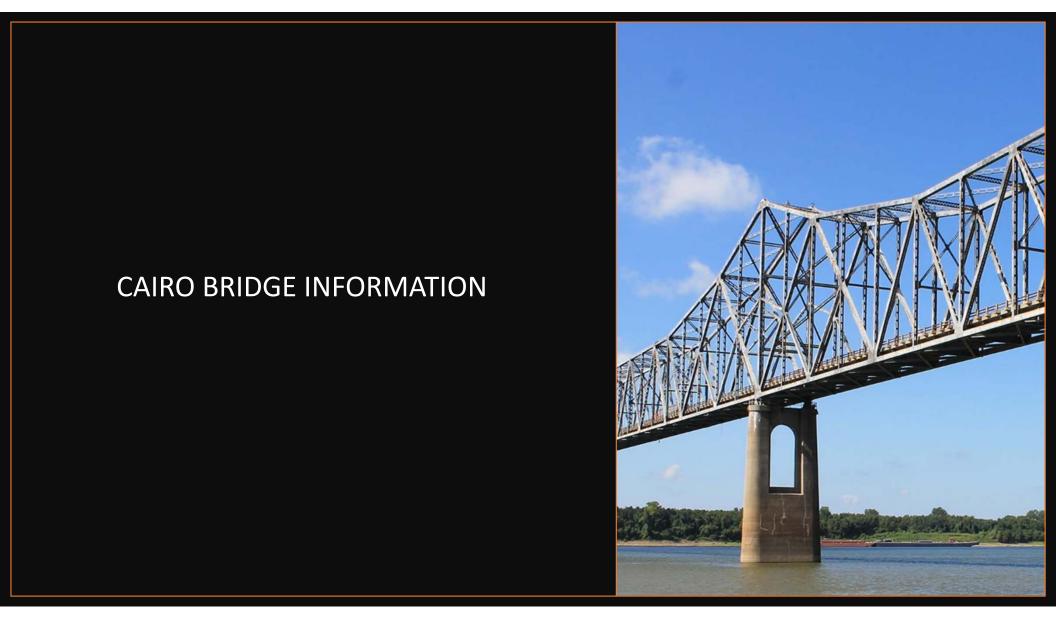
Typically, this meeting would be held in person, however, due to the COVID-19 pandemic and to insure the safety of everyone involved, we've opted to bring you the information in this online format.

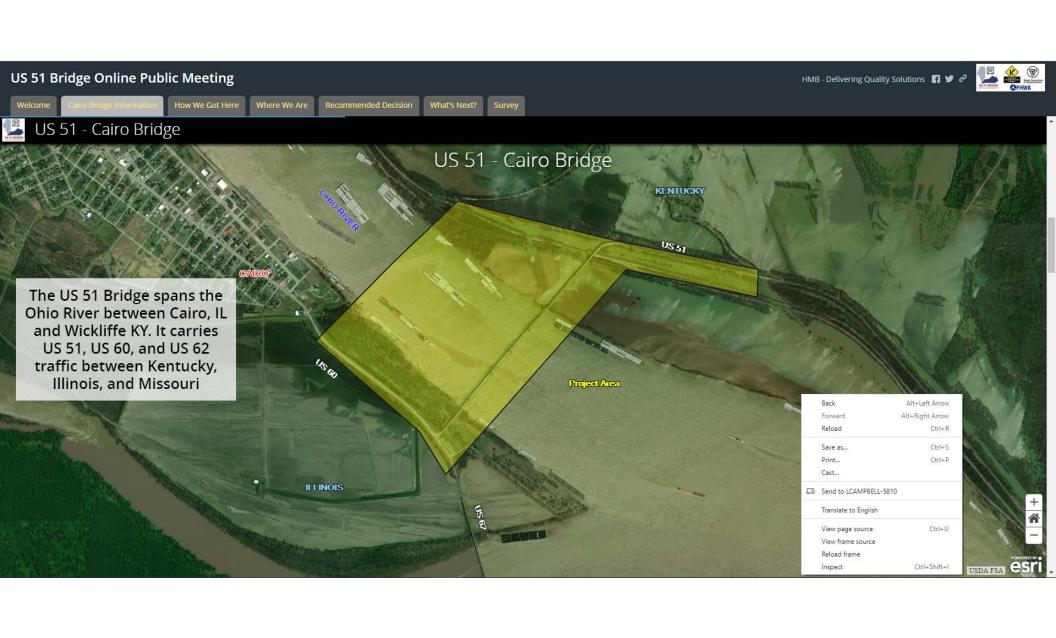
Click here for a welcome video from the Kentucky Transportation Cabinet's Chris Kuntz, District 1 Transportation Engineering Branch Manager for Project Development that will help guide you through the information.

Most Maps are interactive and can be zoomed into and out of like Google Maps. If something is underlined like the welcome video above, it is a link that can be clicked. We welcome you to click, zoom, and investigate any page or map on this presentation.

The last tab includes a brief Participant Information Survey to gather your input about the project. Please take a moment to fill it out. surveys should be completed and submitted by 5 p.m. CDT October 30th.









Constructed between 1936 and 1938, the Cantilevered Warren Through Truss structure is the longest bridge in Kentucky with a total length of 5,865 feet.



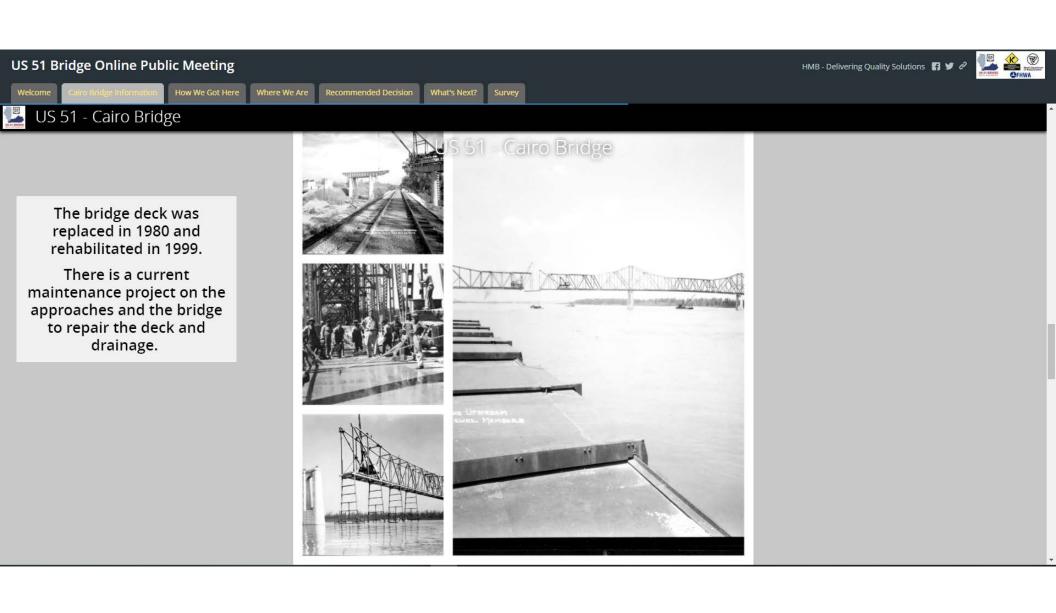


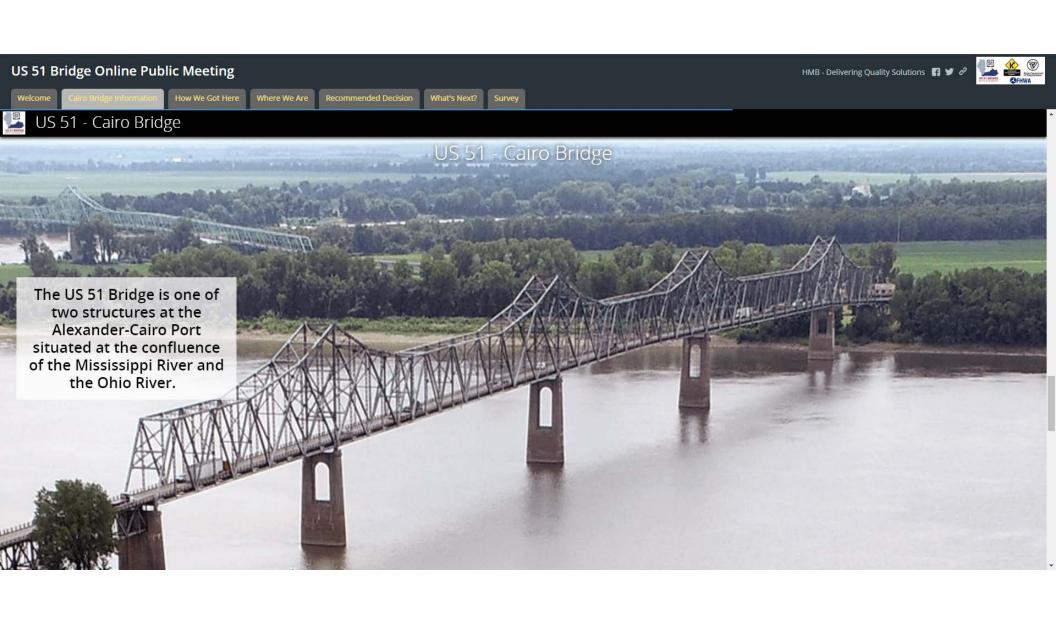


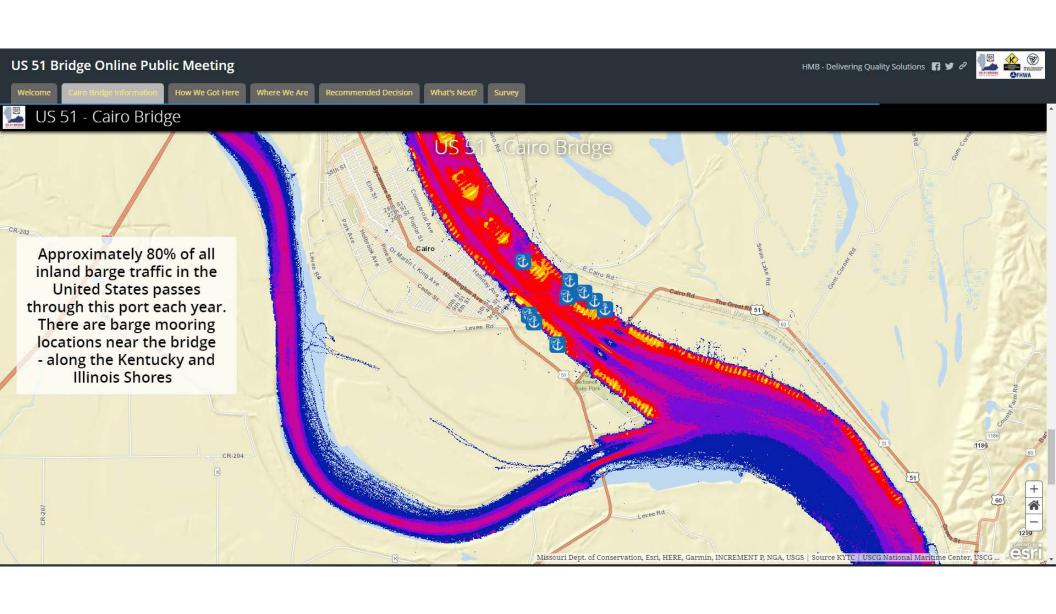


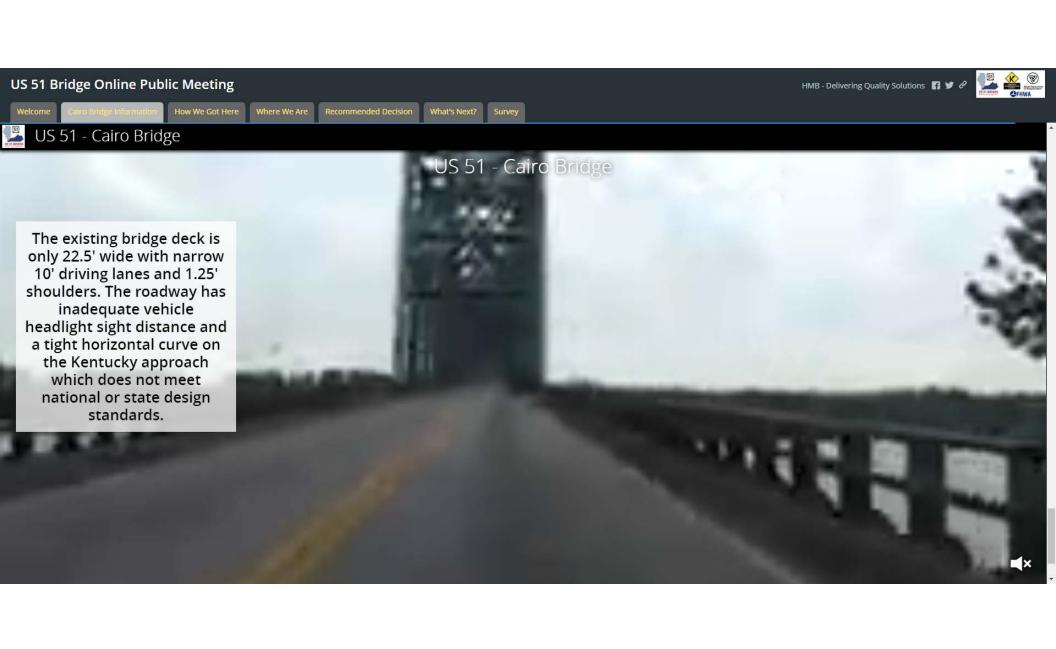


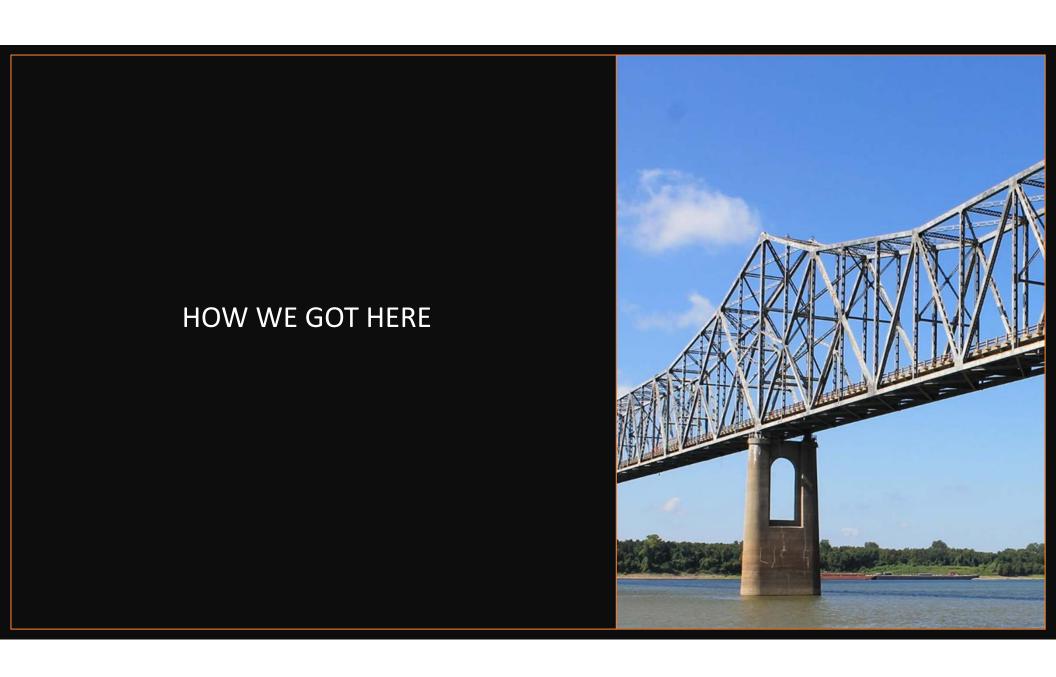
















Cairo Bridge Information Planning Study

Local Officials and Public Meetings

Where We Are

CA/EJ Group Meeting #1

What's Next?

Seamen's Church Institute Simulator

CA/EJ Group Meeting #2

How We Got Here NYO



Local Officials and Public Meetings

September 9 and 10, 2019

A Local Officials Meeting and Two Public Open House Meetings were held in Wickliffe, KY and Cairo, IL.

The Public Meetings were an open house format with stations manned by project team members who were available to answer any questions or issues raised by the public. The stations included:

- Welcome Station: attendees were asked to sign in and were given an informational brochure about the project and questionnaire forms.
- Environmental Station: provided information about the NEPA and Section 106 processes, the 2014 Planning Study, the evaluation criteria used in the 2014 planning study, and the purpose and need statement for the project.
- Preferred Corridor Station: presented the preferred combined Alternative 2 corridor from the 2014 planning study.
- Roadway Station: attendees were shown the preliminary alignments board and the focuse traffic projections for the





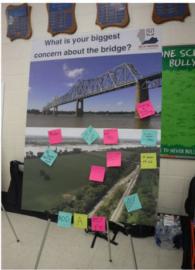




















Cairo Bridge Information

Local Officials and Public Meetings

Where We Are

Recommended Decision

CA/EJ Group Meeting #1

What's Next? Seamen's Church Institute Simulator

CA/EJ Group Meeting #2

How We Got Here



Local Officials and Public Meetings

roadway.

- Structures Station: included information about the existing bridge conditions and a brief introduction to the parts of a bridge structure.
- Project Development Process Station: included a description of the typical project development process, a project specific schedule and an objective board.
- Post-it Note Board Station: attendees could leave notes voicing their opinions and concerns and a board directing them where they can get more involved with the process and receive additional information.

Click here to see the Meetings' Informational Brochure.

Meetings Summary

Attendees at each meeting were also encouraged to respond to a questionnaire regarding the project. A total of 73 surveys were returned - 19 from the Wickliffe meeting, 50 from the Cairo meeting, and 4 from the Local Officials meeting. To the right is summary of

Top concerns from the meeting attendees were:





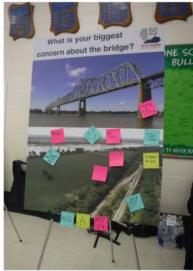
















they can get more involved with the process and receive additional information.

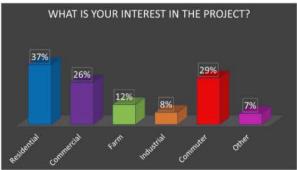
Click here to see the Meetings' Informational Brochure.

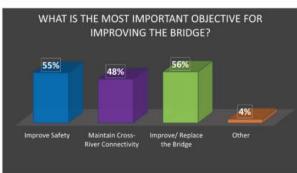
Meetings Summary

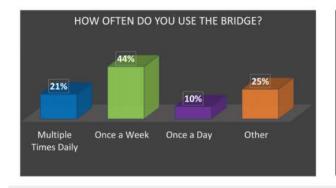
Attendees at each meeting were also encouraged to respond to a questionnaire regarding the project. A total of 73 surveys were returned - 19 from the Wickliffe meeting, 50 from the Cairo meeting, and 4 from the Local Officials meeting. To the right is summary of their response.

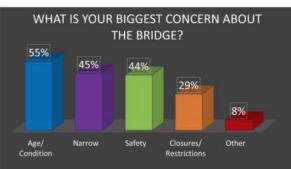
Top concerns from the meeting attendees were:

- Bridge closures and local economic impacts they do not want to close the existing bridge during construction for fear of adverse effects on local economies and tourism.
- Safety
- Flooding a solution to flooding, especially on the Kentucky side, was a point of focus.
- Some expressed interest in a four-lane bridge as an avenue for economic growth.









Planning Study



Cairo Bridge Information

Where We Are

What's Next?

Local Officials and Public Meetings

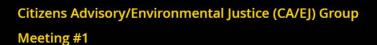
CA/EJ Group Meeting #1

Seamen's Church Institute Simulator

CA/EJ Group Meeting #2



How We Got Here



November 14, 2019

The purpose of the Citizens Advisory and Environmental Justice Group is to provide a direct line of communication between local community members and project development parties for the discussion of potential impacts to local businesses, low income and minority communities, and valued natural, environmental, cultural, agricultural, and river transportation resources in the area.

Much of the meeting focused on what has changed since 2014 and understanding the local community and the community concerns. Three alternative alignments and two typical sections were also presented for review.

Scroll down for more information.

Community Discussion











Cairo Bridge Information

Where We Are

What's Next?

CA/EJ Group Meeting #2

How We Got Here

ft • • • • • •

Planning Study **Local Officials and Public Meetings**

CA/EJ Group Meeting #1

Hy 0

Citizens Advisory/Environmental Justice (CA/EJ) Group Meeting #1

Community Discussion

The project team and CA/EJ group discussed various topics, issues, concerns, and opportunities at the outset of the meeting. A few of the questions and answers:

What are the locations of important community areas and focal points?

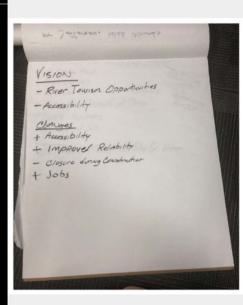
- Kentucky: Jefferson Park, Wickliffe Mounds, Courthouse, Fort Jefferson, churches
- Illinois: Magnolia Manor, Horseshoe Lake, Fort Defiance Park, Cairo High School, Thebes Courthouse, St. Mary's Park, Public Library, Custom House, GEM theatre, Riverlore, and churches

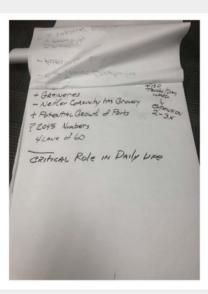
How might changes to the bridge negatively or positively impact you, your family and the community?

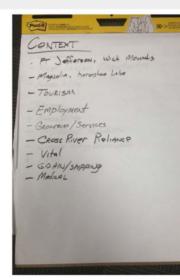
- ...traffic impacts during constructions as a negative...
- · ... added jobs from construction as a positive.
- · ... positive impact by improving access and increasing safety to users.

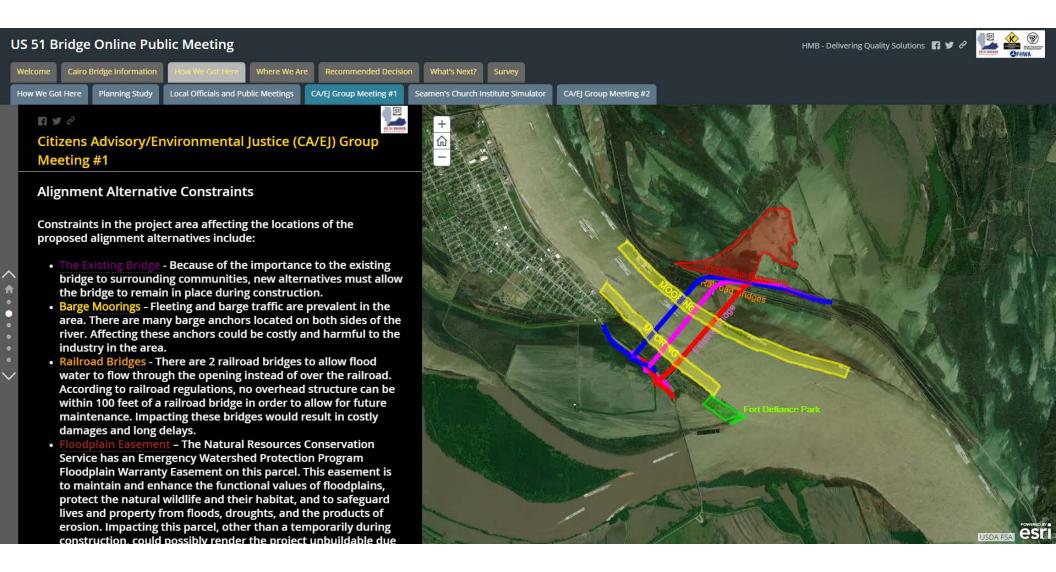
What has changed since 2014?

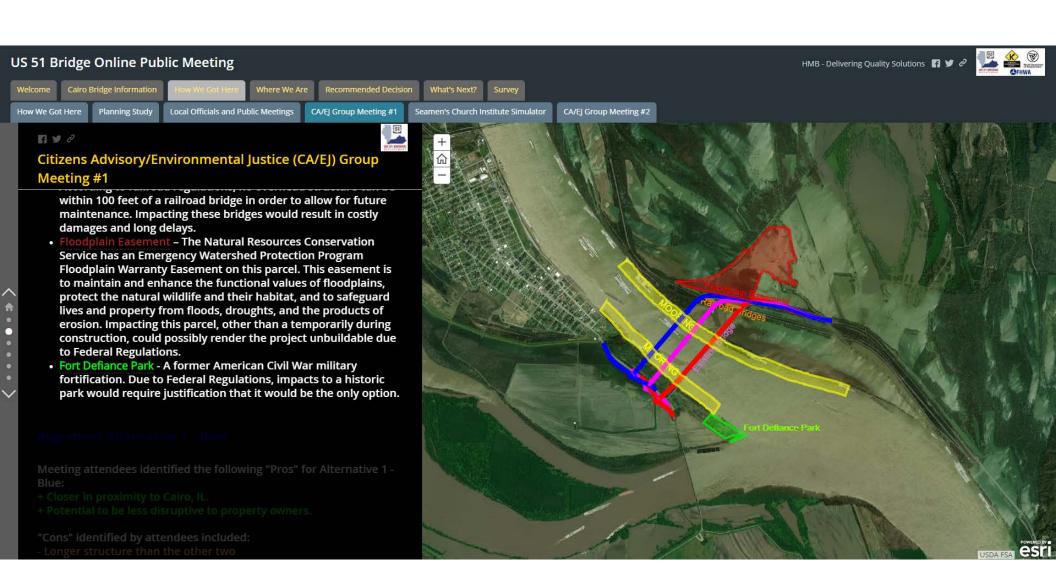
- · Papermill has reopened
- New river fisheries
- · Many individuals are employed on the opposite side of the river
- Four-State pact for riverport authority is in the works.

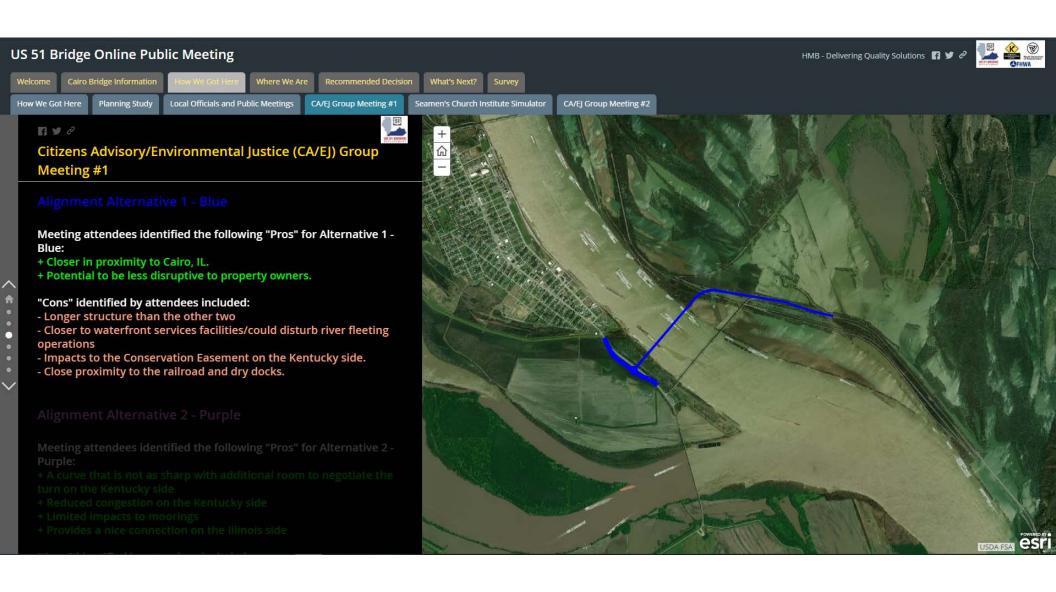


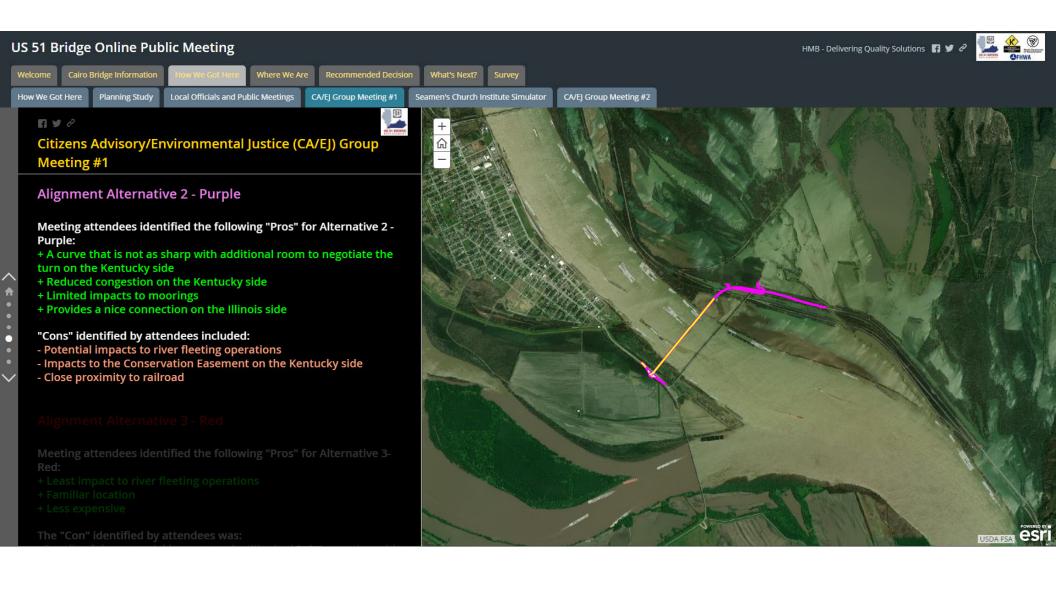


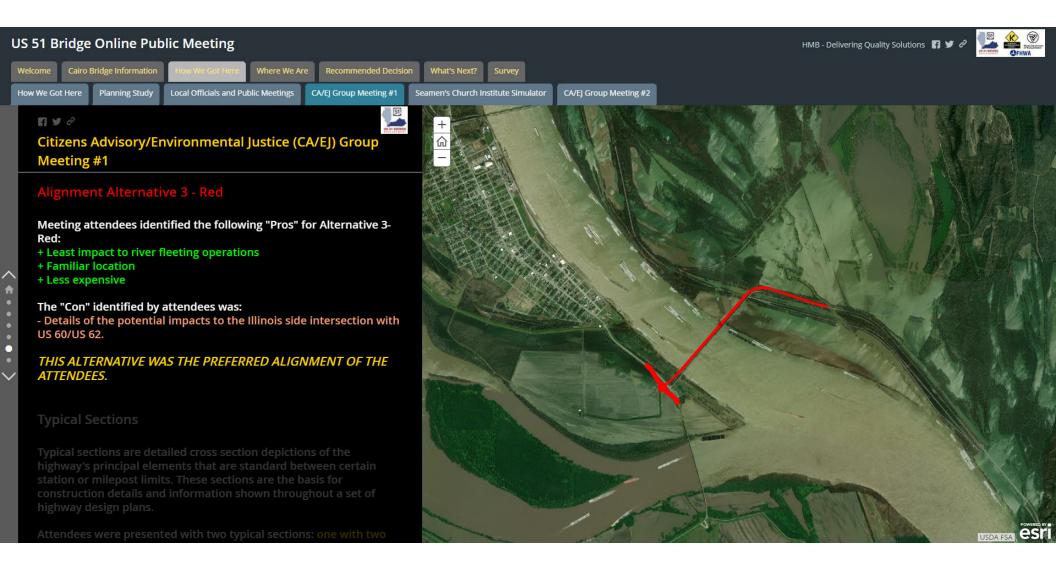


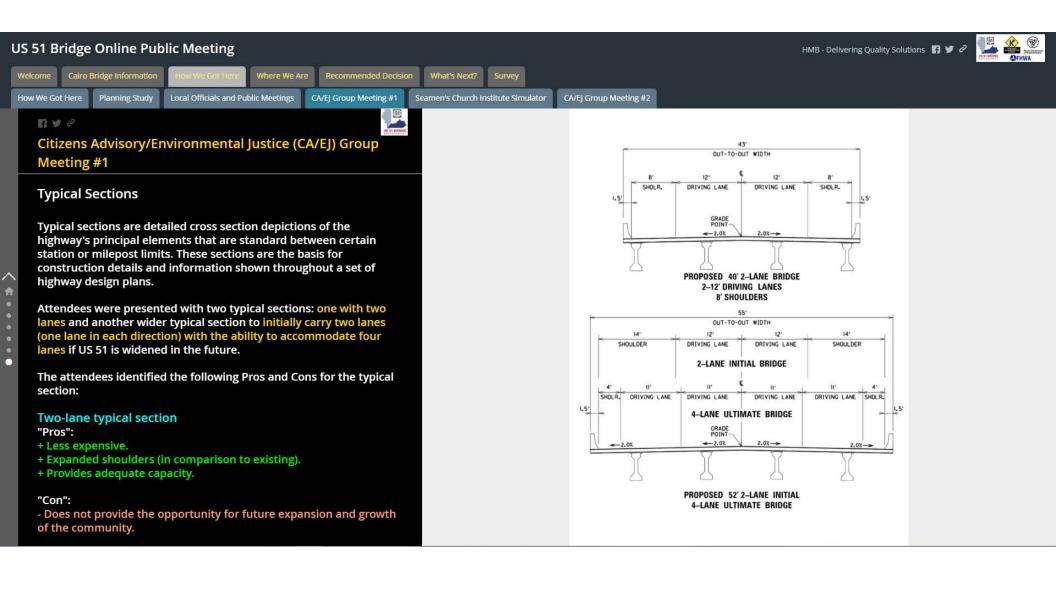


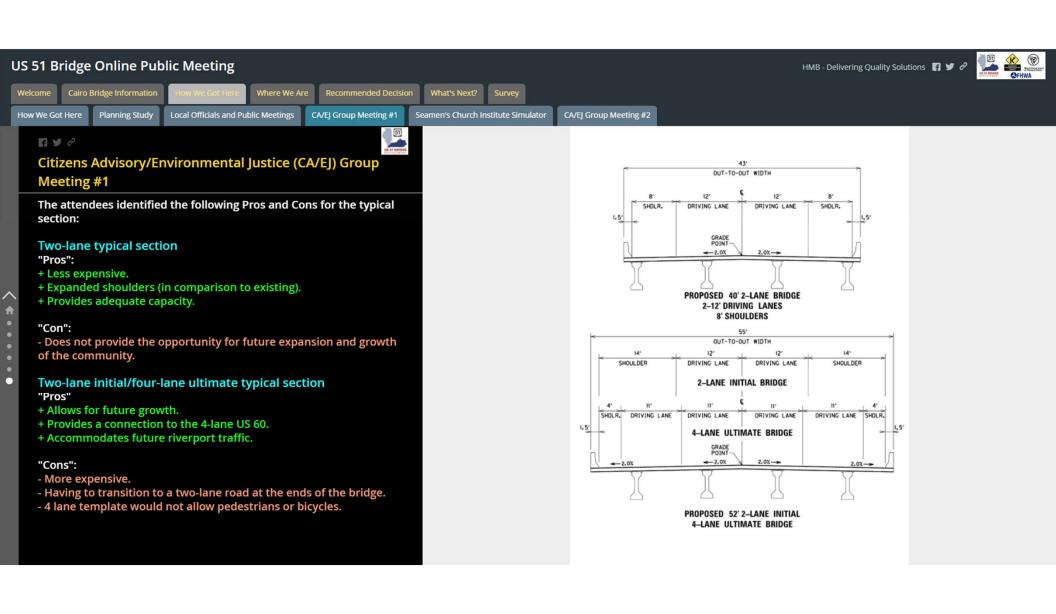
















Cairo Bridge Information Planning Study How We Got Here

Local Officials and Public Meetings

CA/EJ Group Meeting #1

What's Next?

Seamen's Church Institute Simulator

CA/EJ Group Meeting #2

BYP



Seamen's Church Institute Simulation

June 1st - 5th 2020

Seamen's Church Institute (SCI), located in Paducah, KY, is a Maritime Education Center that provides training to commercial and private entities and utilizes simulated geo-specific visual data to create realtime simulations.

The project team created a simulation for each alignment, multiple bridge span arrangements, and multiple river conditions - over 200 simulations total. Licensed towboat captains and barge captains completed simulations and were asked to answer a survey.

Click to see video of the the simulations in action

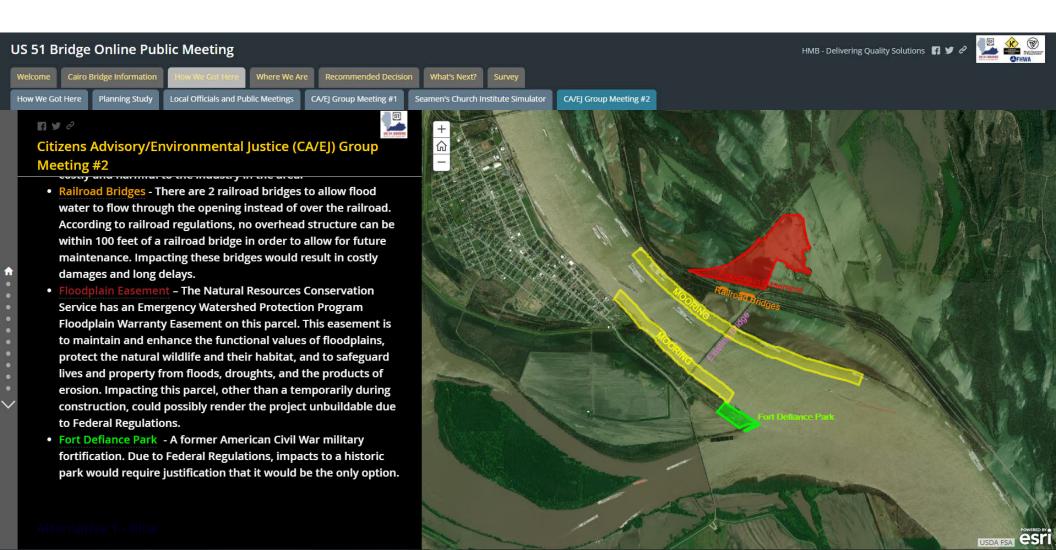
Below is a recap of the Captains' survey:

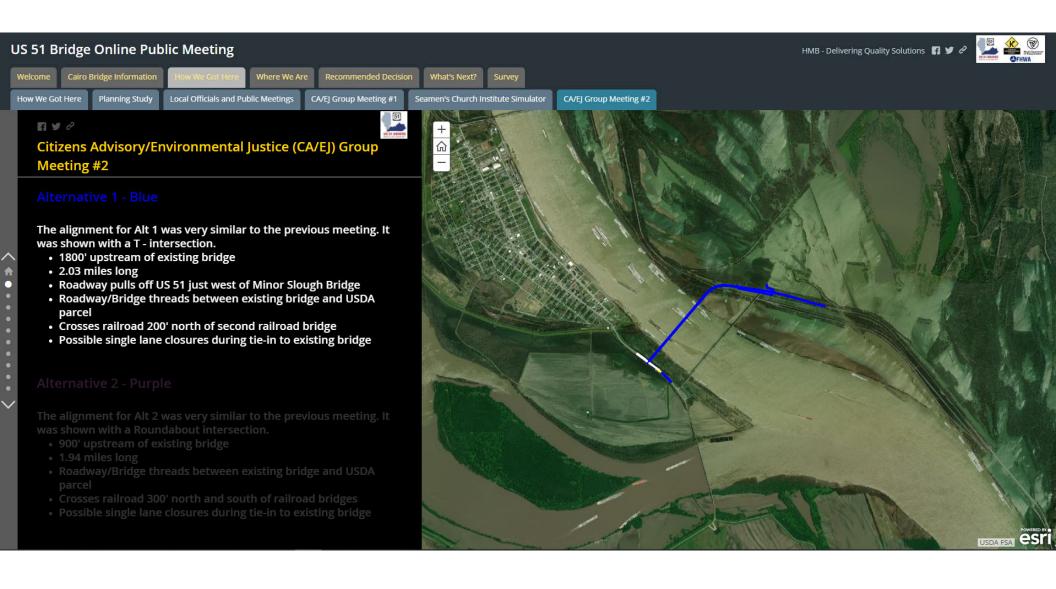
- Preferred Alignment 2 and 3 over 1
- No significant challenges navigating 800' or 900' clear span bridge
- · No significant challenges navigating the new bridge during construction
- Concerns about fleet mooring for alignments 1 and 2

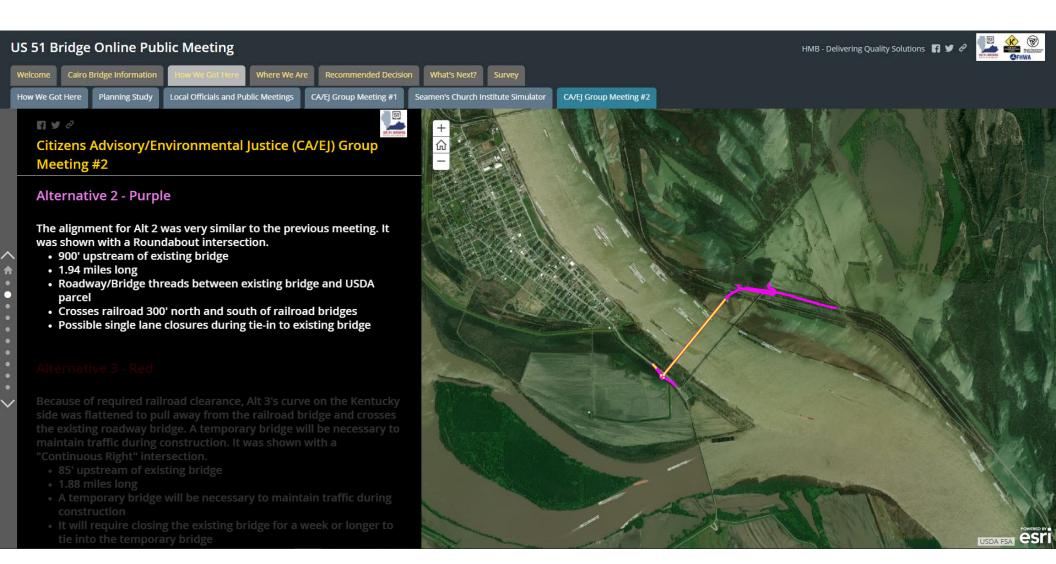


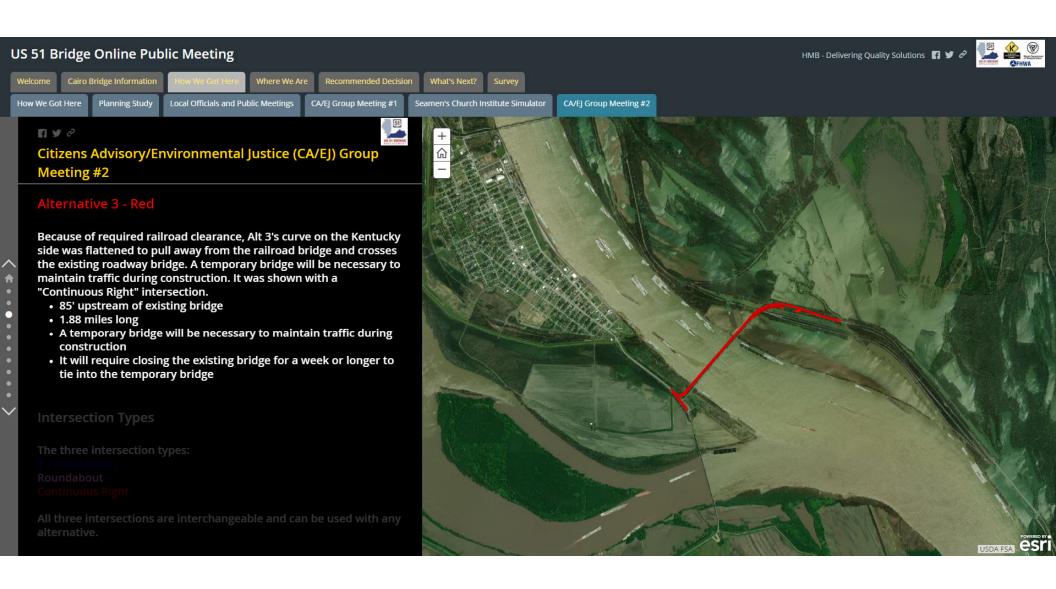


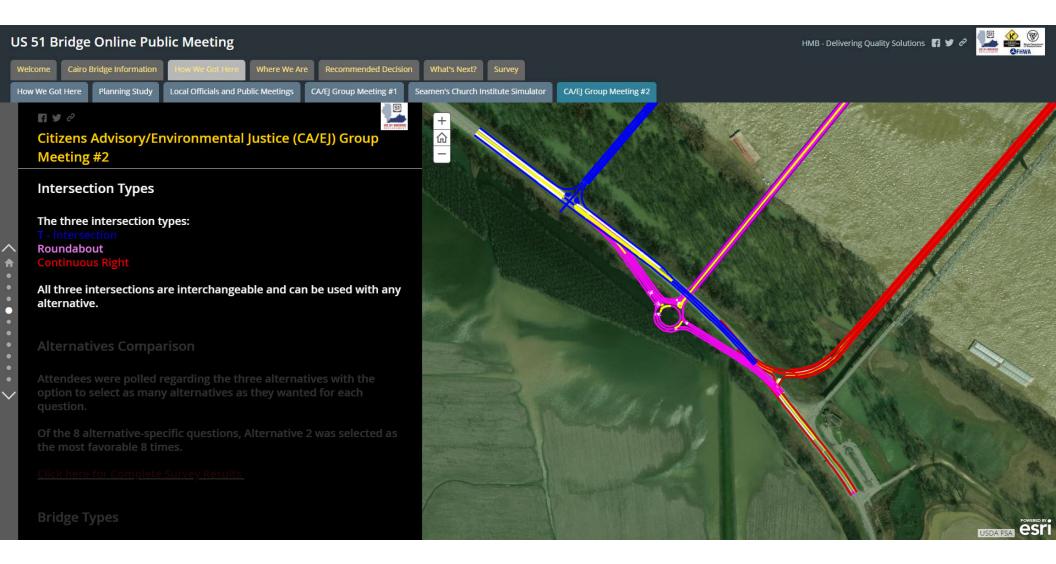








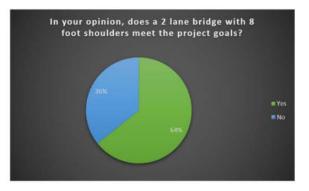


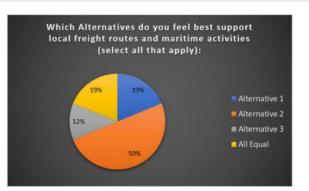




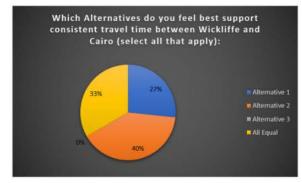
CA/EJ Group Meeting #2

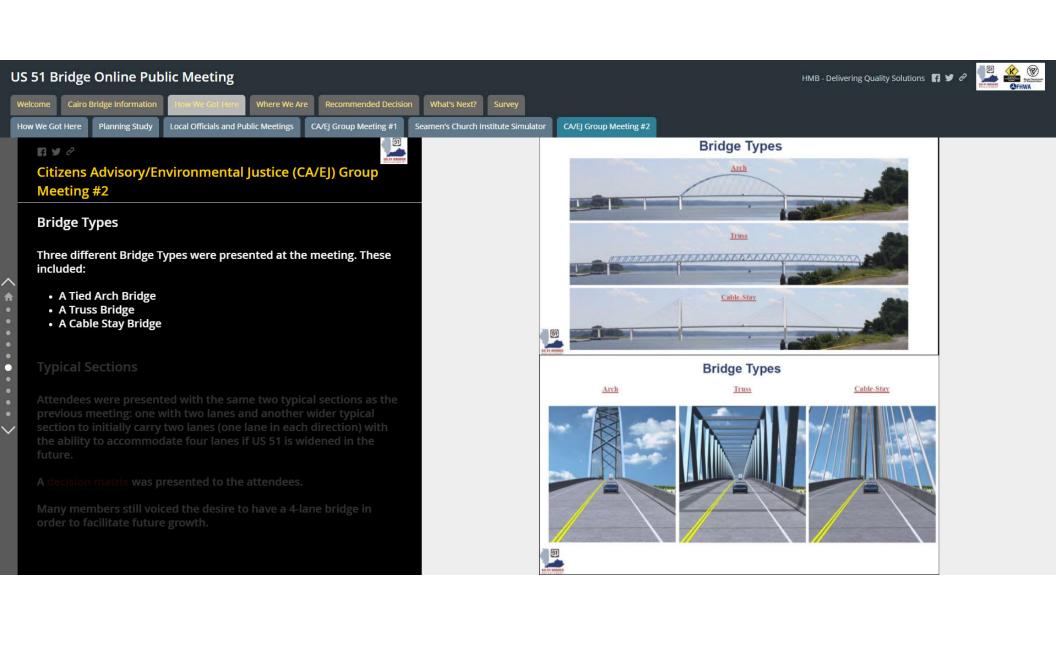
What's Next?

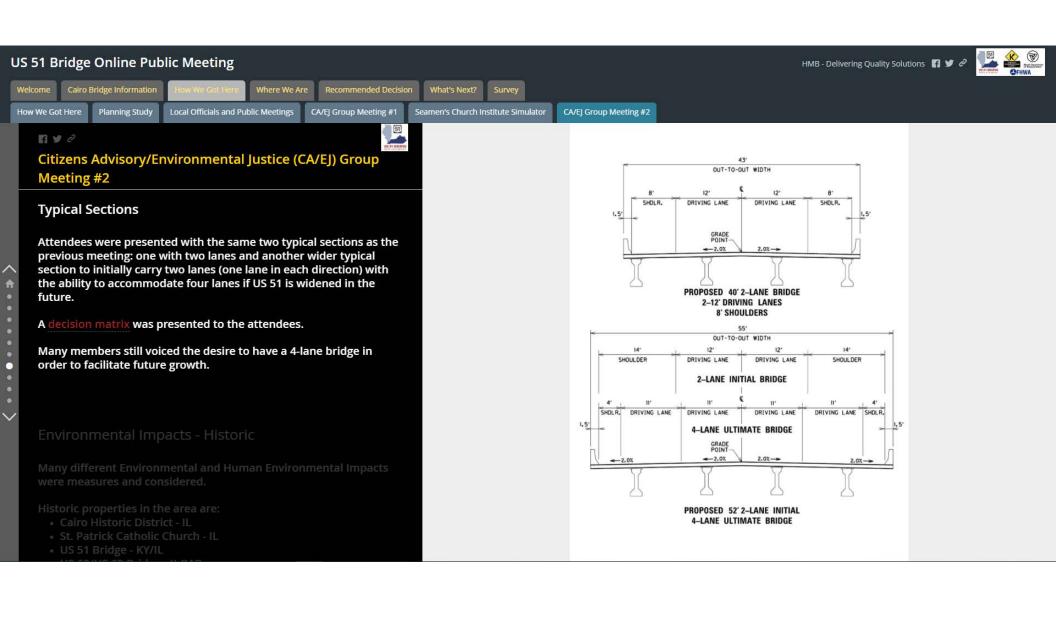


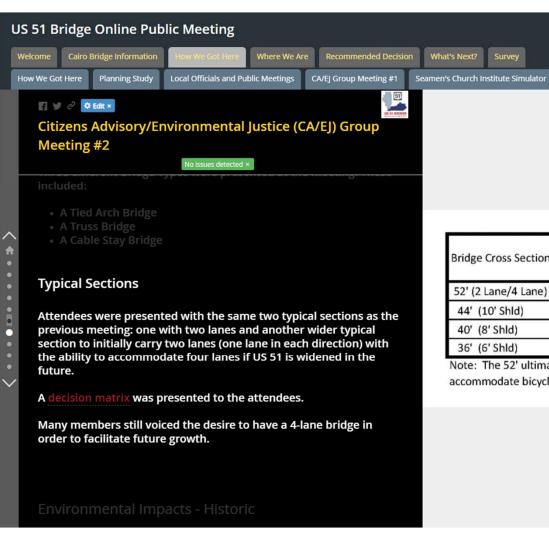


HMB - Delivering Quality Solutions 🖪 💆 🔗









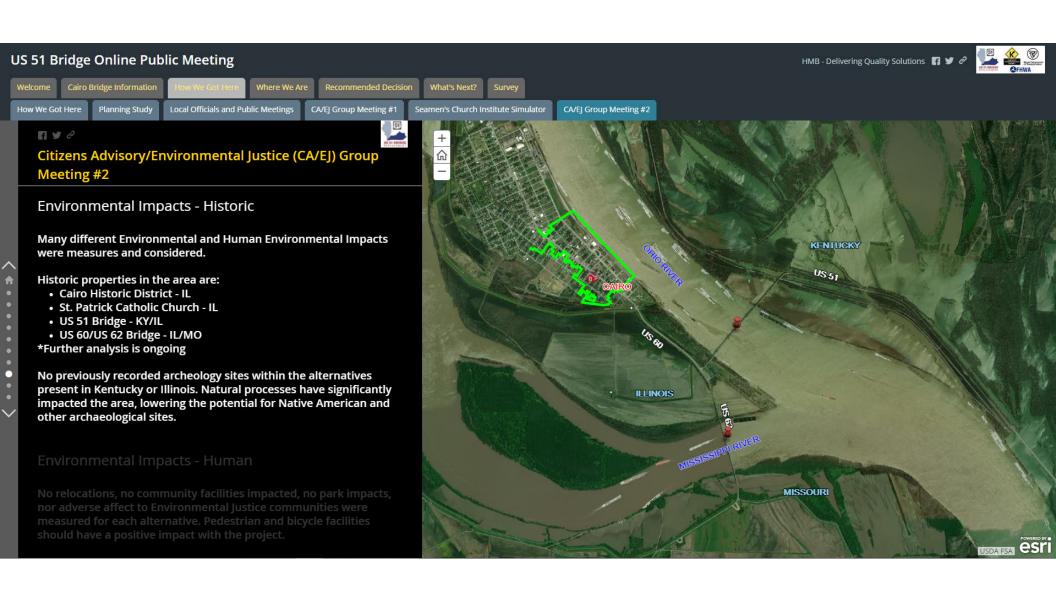
Bridge Cross Section	Bridge Cost	IL Design Exception Needed	KY Design Exception Needed	Bicycle Accomodations	Emergency Refuge	Agricultural Traffic
52' (2 Lane/4 Lane)	\$341M	NO	NO	•	•	•
44' (10' Shld)	\$288M	NO	NO	•	•	•
40' (8' Shld)	\$270M	NO	NO	•	9	9
36' (6' Shld)	\$246M	YES	YES	X	X	X

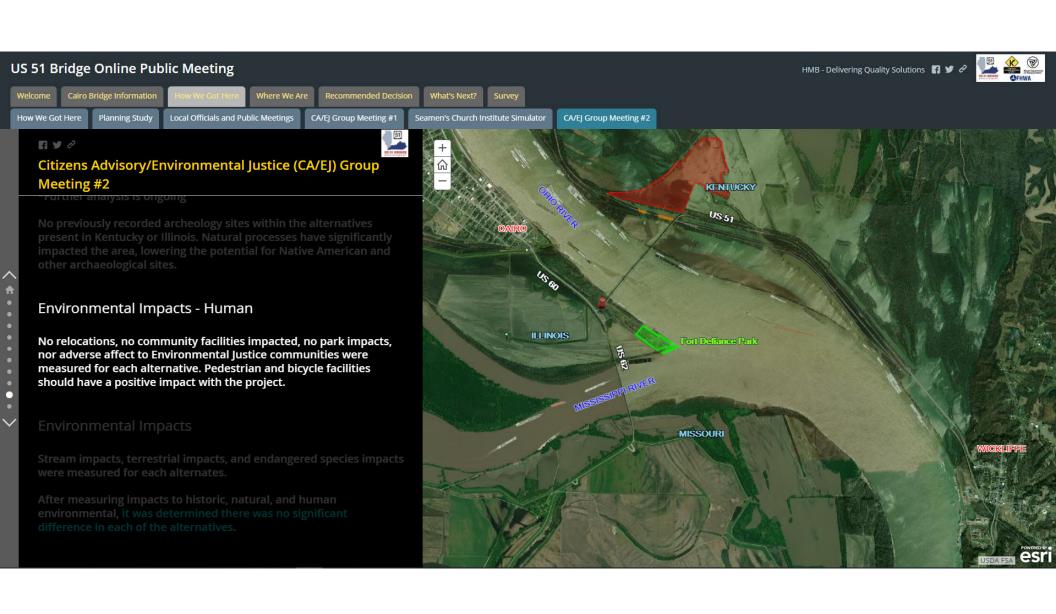
BACK

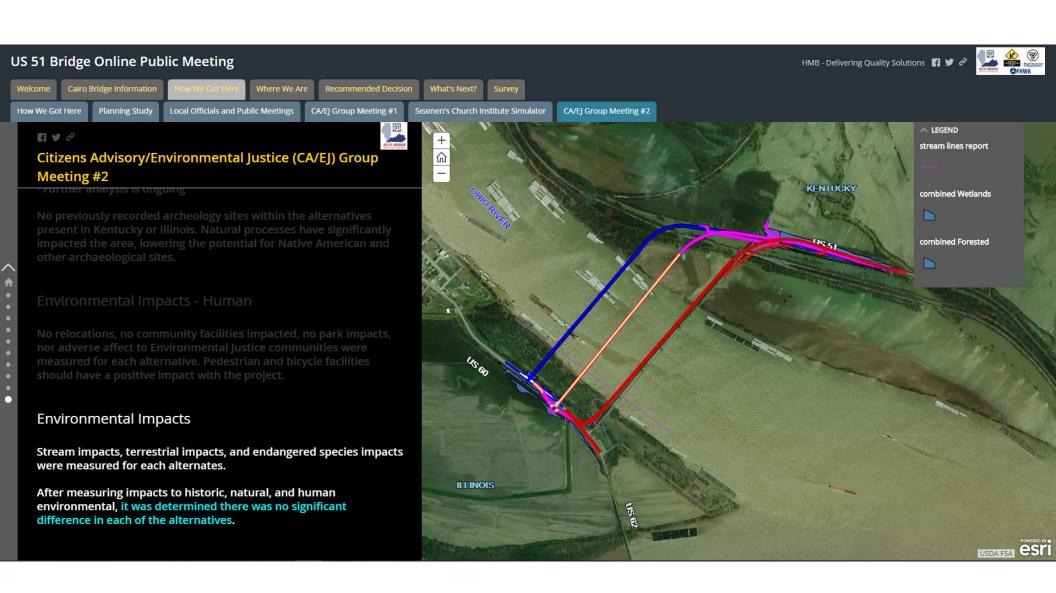
HMB - Delivering Quality Solutions 🔢 💆 🔗

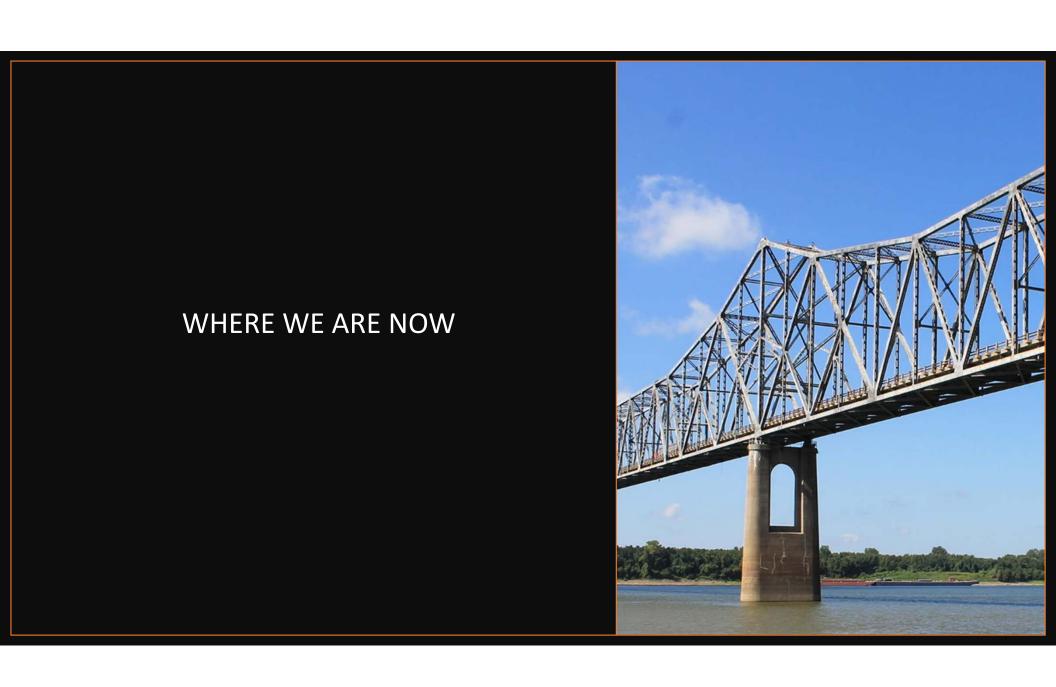
Note: The 52' ultimate 4-Lane typical section will require a design exception for both states and will not accommodate bicycles, agricultural traffic, or emergency refuge.

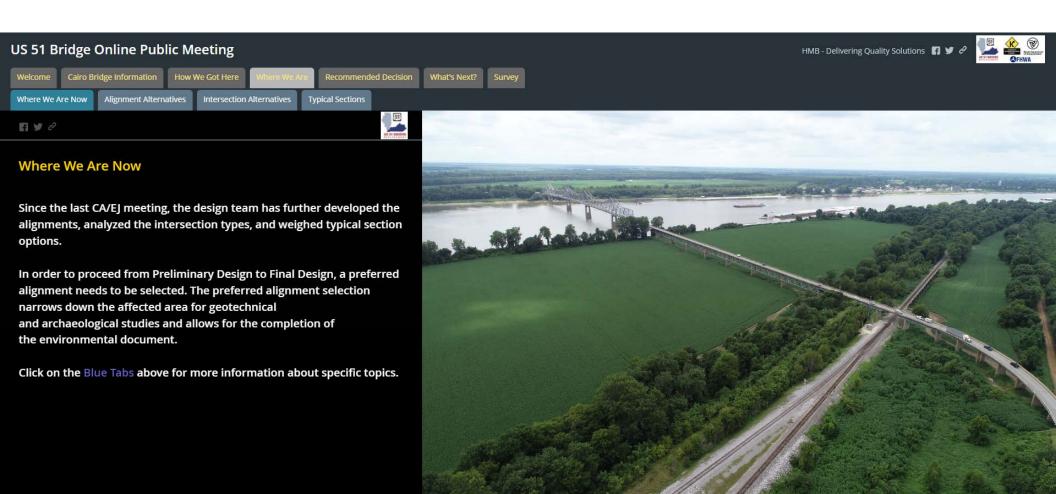
CA/EJ Group Meeting #2









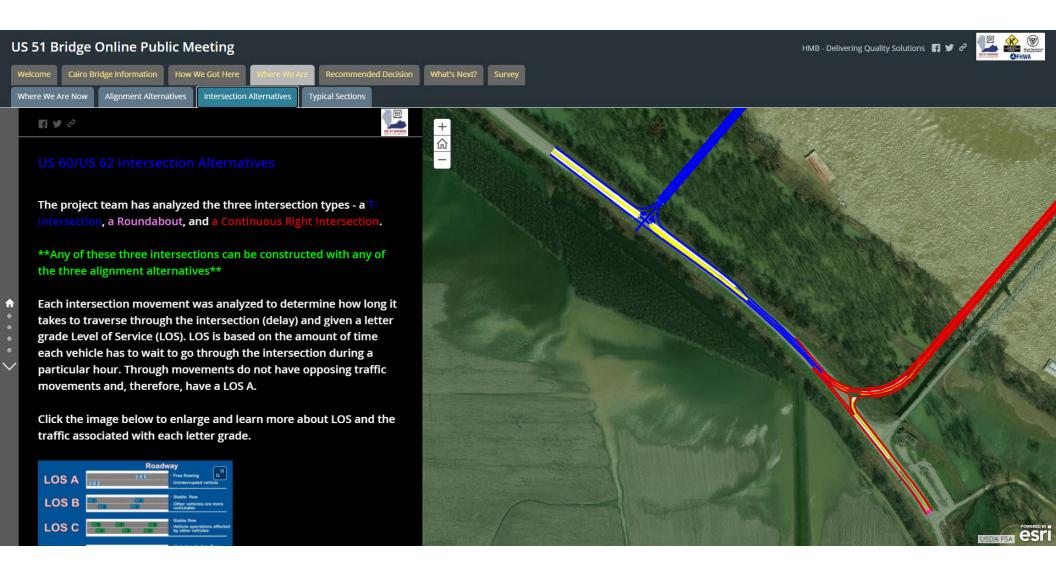


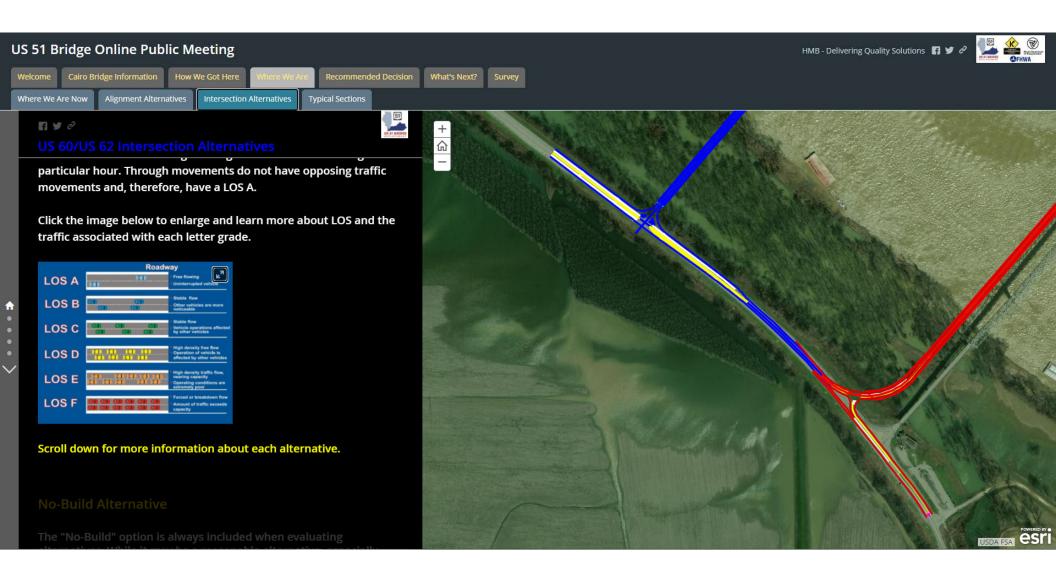


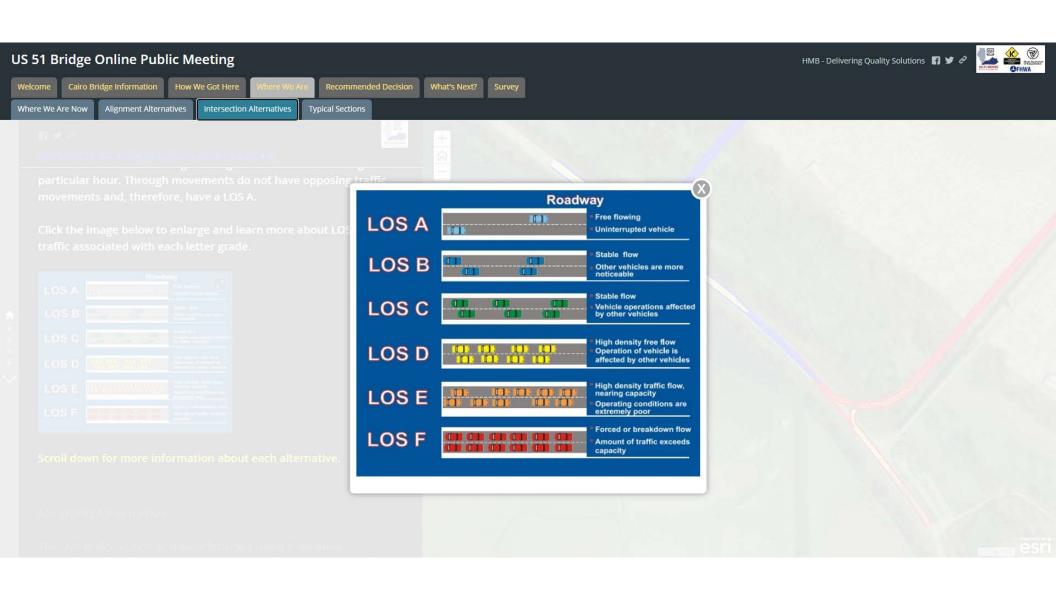


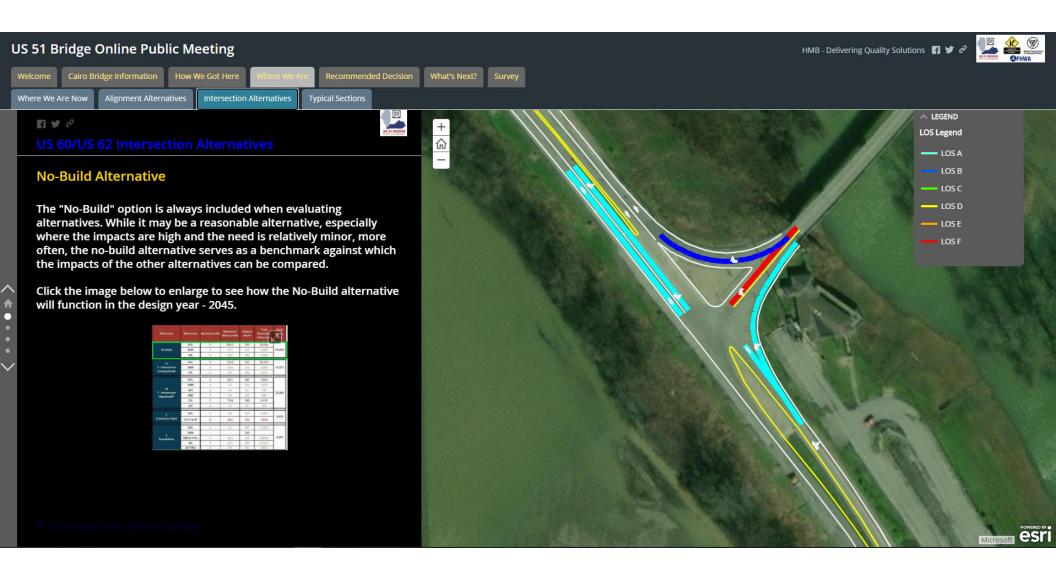


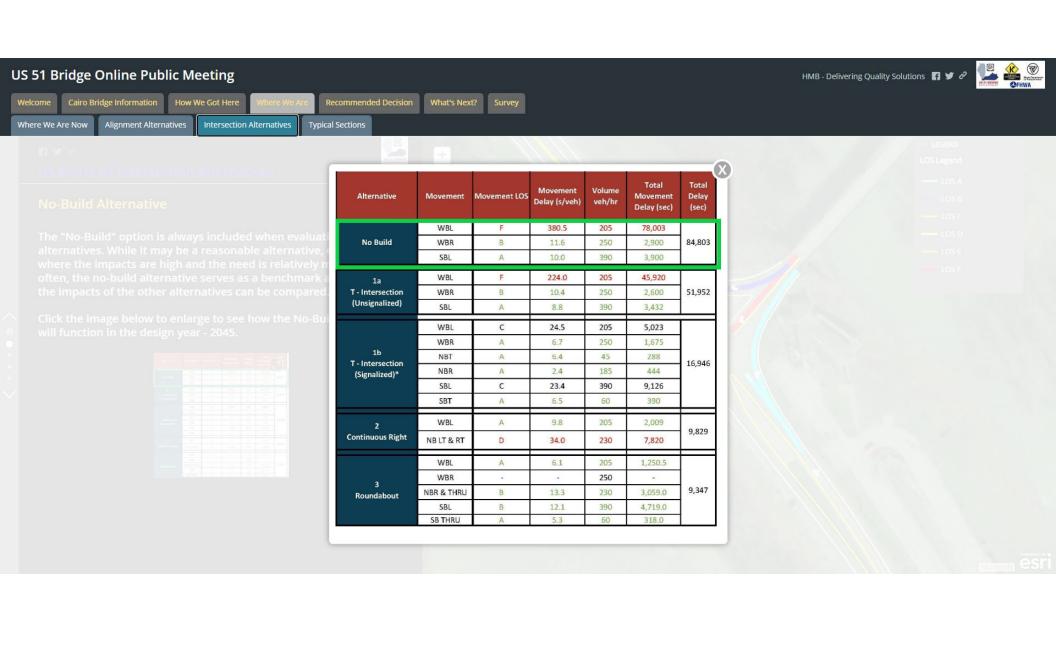


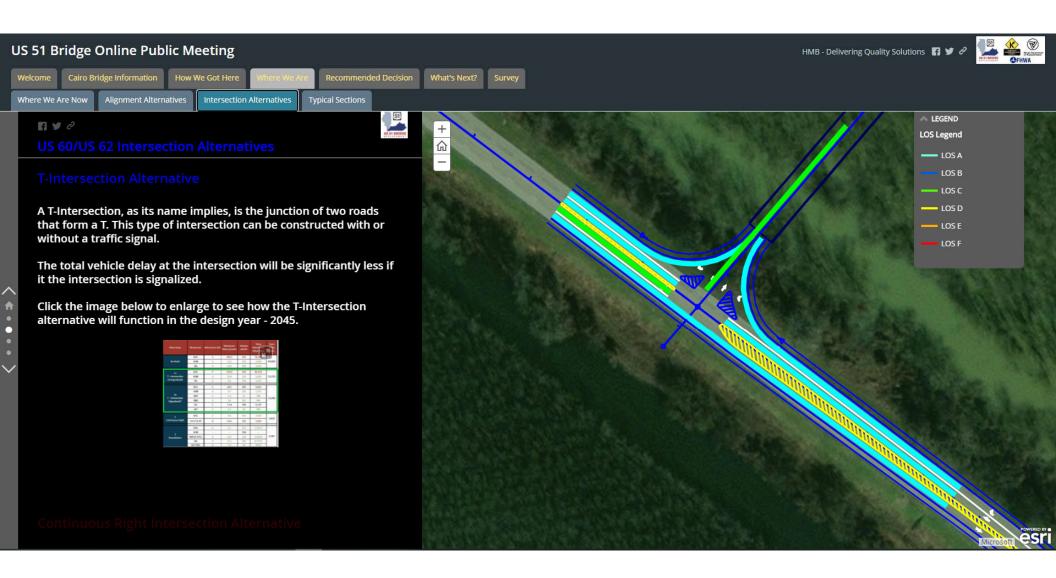


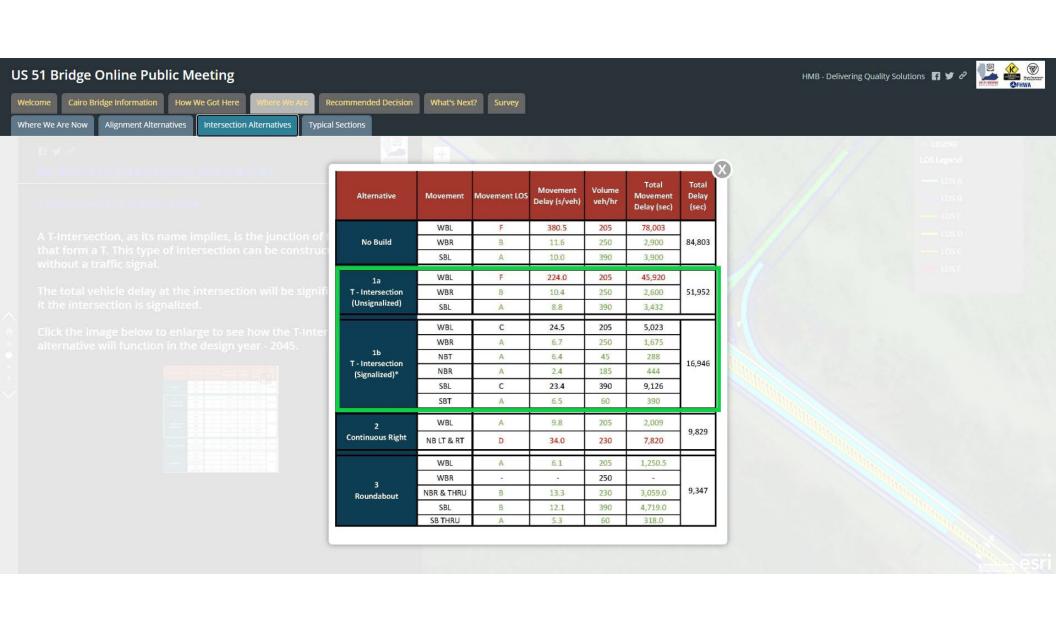


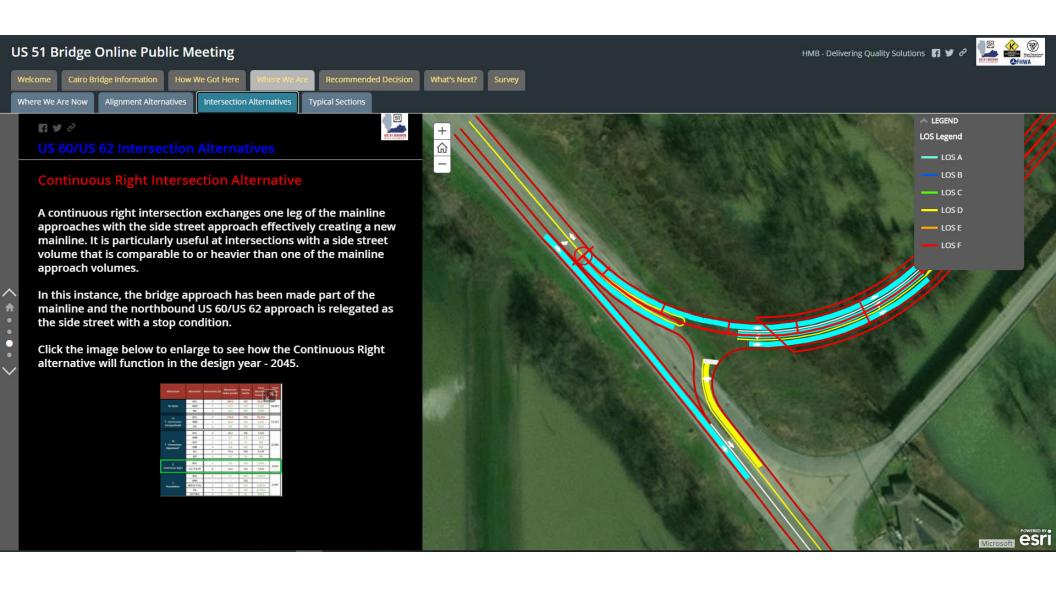


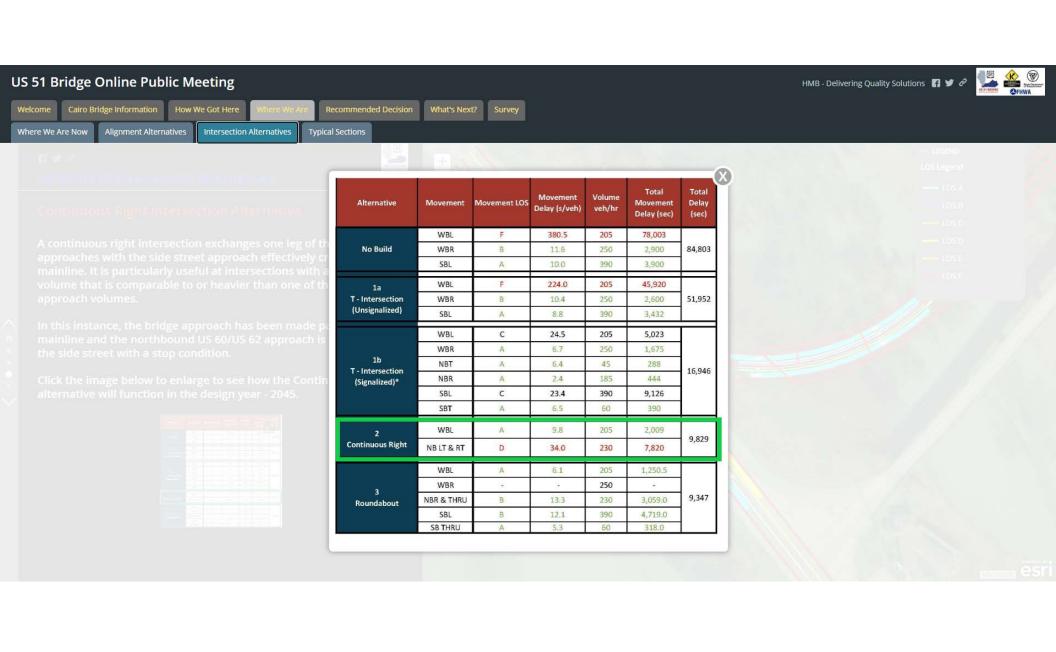


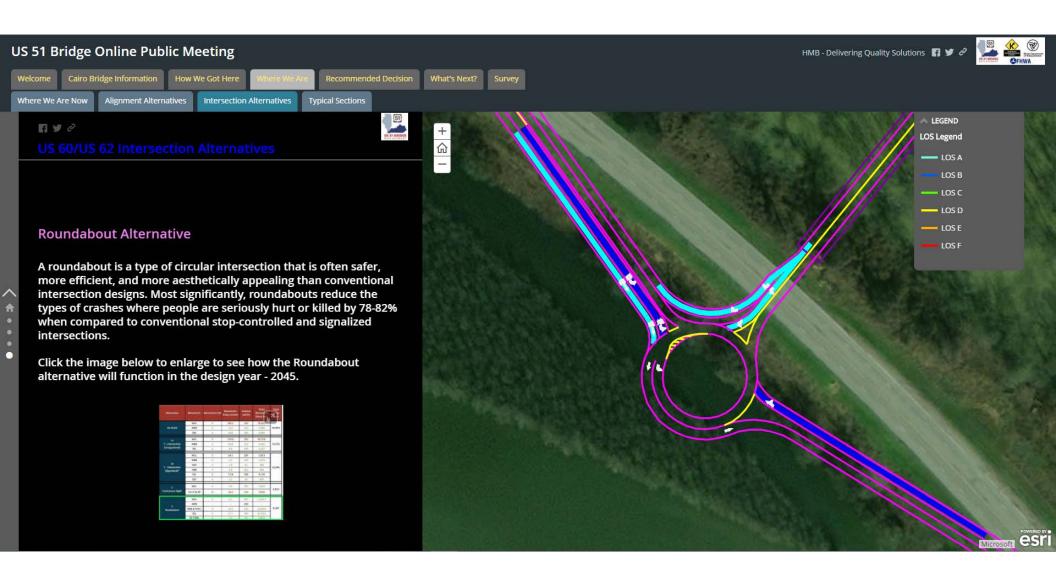


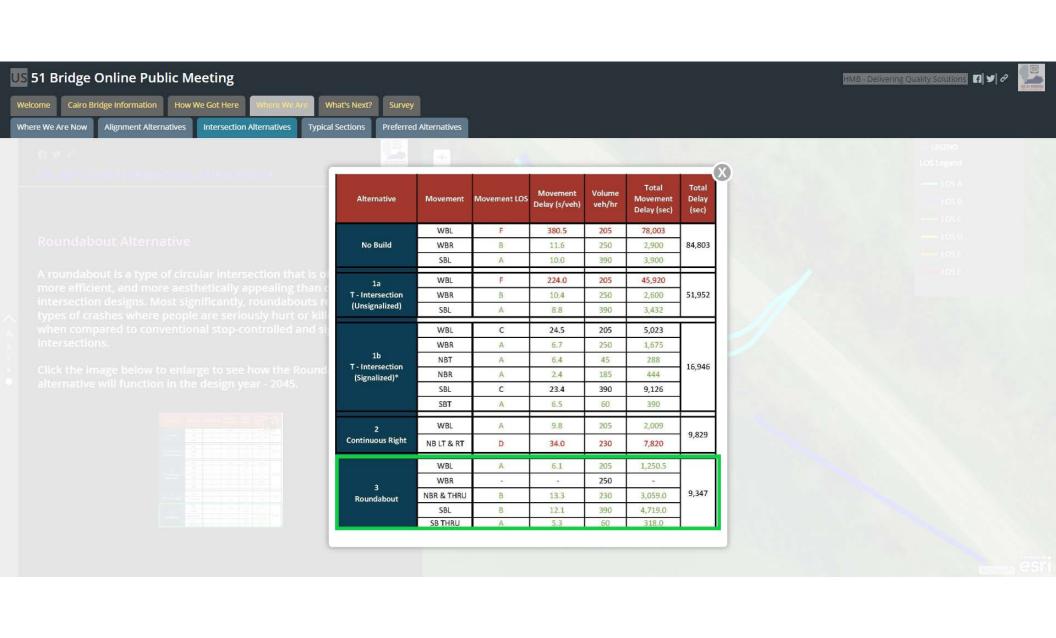


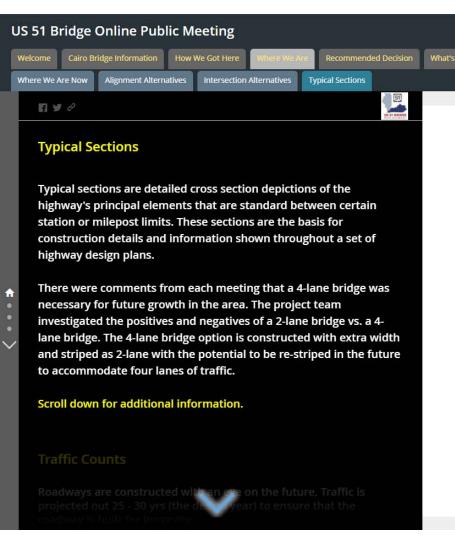


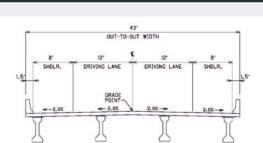






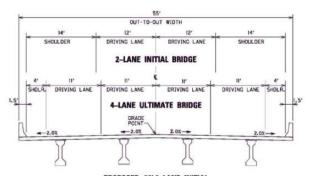




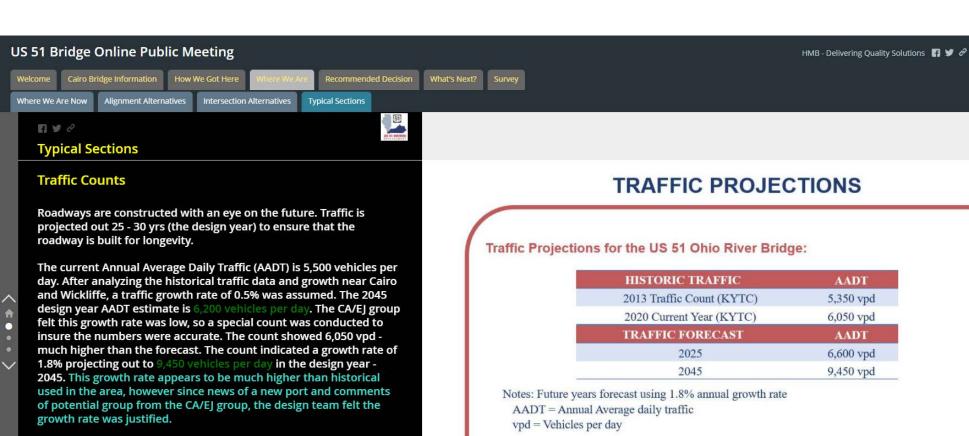


HMB - Delivering Quality Solutions 👪 💆 🔗

PROPOSED 40' 2-LANE BRIDGE



PROPOSED 52' 2-LANE INITIAL 4-LANE ULTIMATE BRIDGE

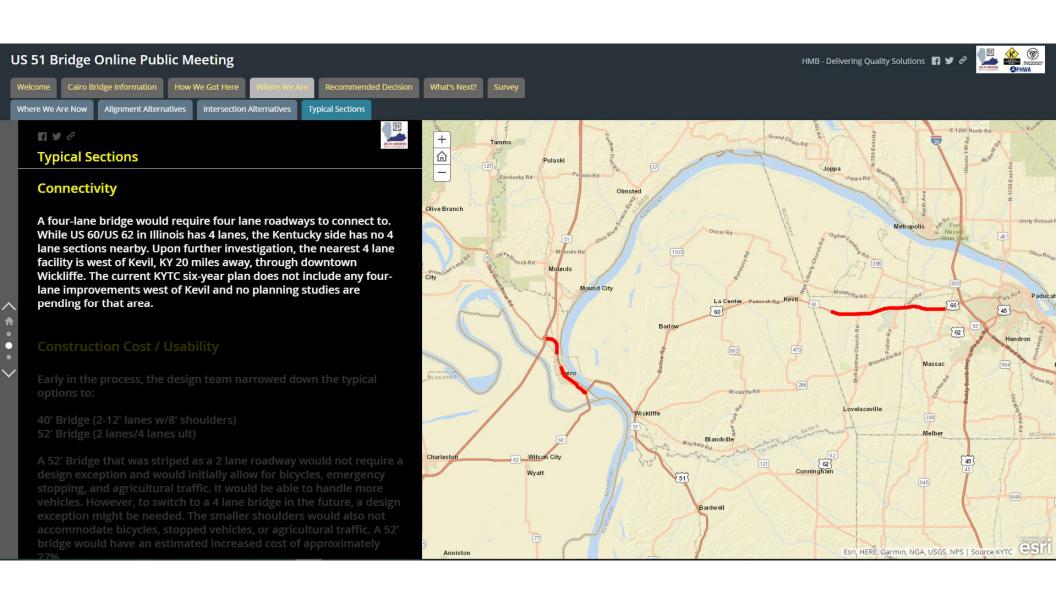


Approximately 35% of traffic using bridge is truck traffic

•Two Lane Bridge is Adequate

A standard two-lane roadway such as what is proposed with the two-

lane typical section can serve approximately 18,000 to 19,000



Typical Sections

NY 0

A four-lane bridge would require four lane roadways to connect to. While US 60/US 62 in Illinois has 4 lanes, the Kentucky side has no 4 lane sections nearby. Upon further investigation, the nearest 4 lane facility is west of Kevil, KY 20 miles away, through downtown Wickliffe. The current KYTC six-year plan does not include any four-lane improvements west of Kevil and no planning studies are pending for that area.

Construction Cost / Usability

Early in the process, the design team narrowed down the typical options to:

40' Bridge (2-12' lanes w/8' shoulders) 52' Bridge (2 lanes/4 lanes ult)

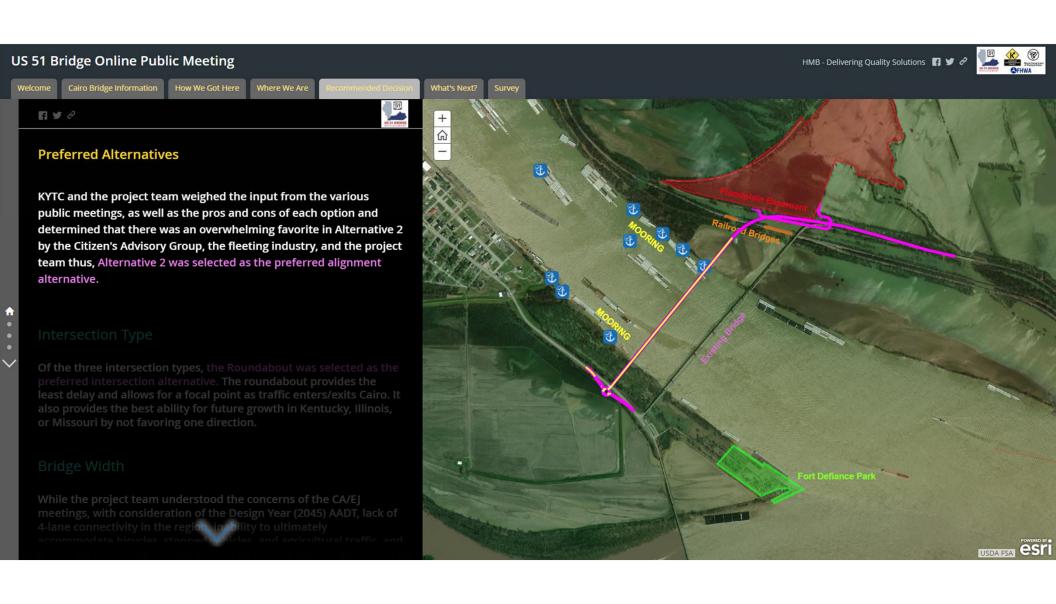
A 52' Bridge that was striped as a 2 lane roadway would not require a design exception and would initially allow for bicycles, emergency stopping, and agricultural traffic. It would be able to handle more vehicles. However, to switch to a 4 lane bridge in the future, a design exception might be needed. The smaller shoulders would also not accommodate bicycles, stopped vehicles, or agricultural traffic. A 52' bridge would have an estimated increased cost of approximately 27%.

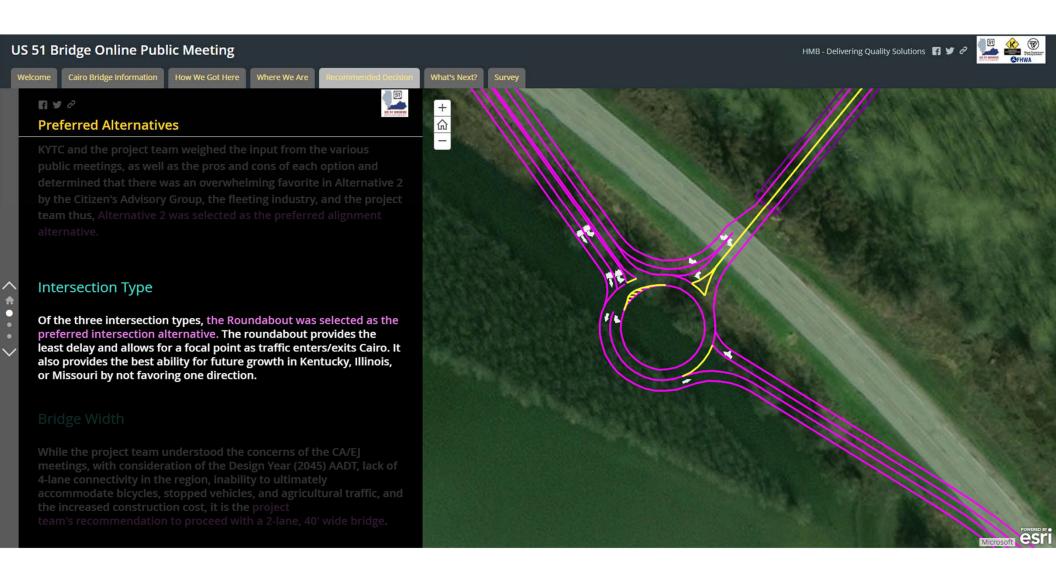
Bridge Cross Section	Bridge Cost	IL Design Exception Needed	KY Design Exception Needed	Bicycle Accomodations	Emergency Refuge	Agricultural Traffic
52' (2 Lane/4 Lane)	\$341M	NO	NO	•	•	•
44' (10' Shld)	\$288M	NO	NO	•	•	•
40' (8' Shld)	\$273M	NO	NO	•	9	9
36' (6' Shld)	\$246M	YES	YES	X	X	X

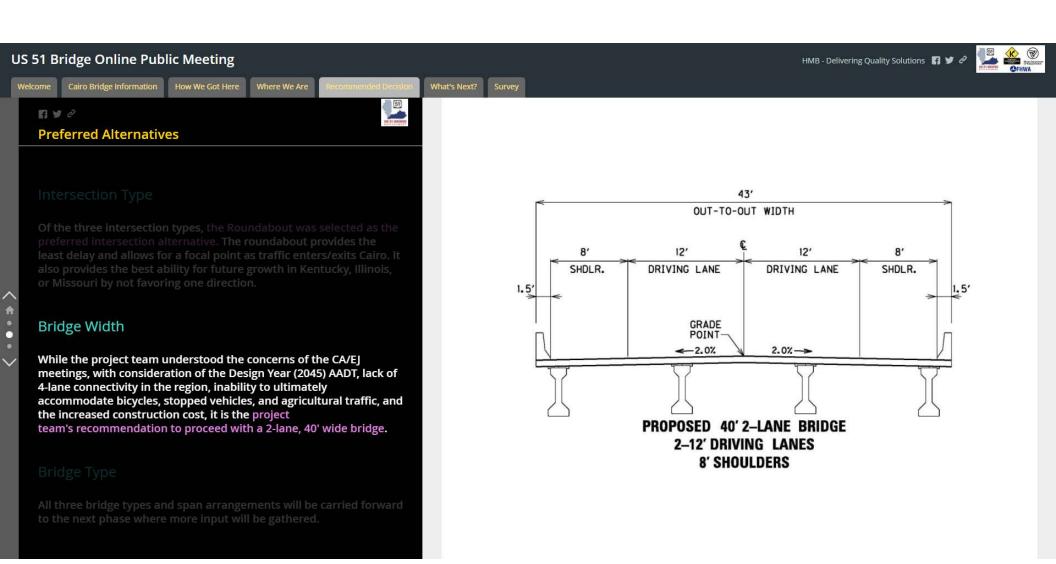
HMB - Delivering Quality Solutions 🔢 💆 🔗

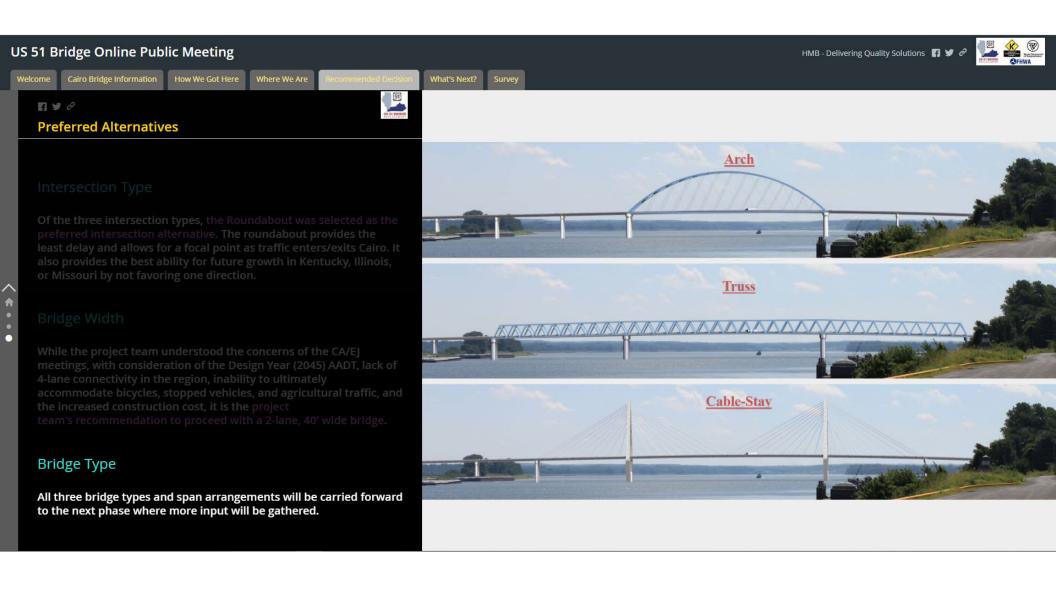
Note: The 52' ultimate 4-Lane typical section will require a design exception for both states and will not accommodate bicycles, agricultural traffic, or emergency refuge.

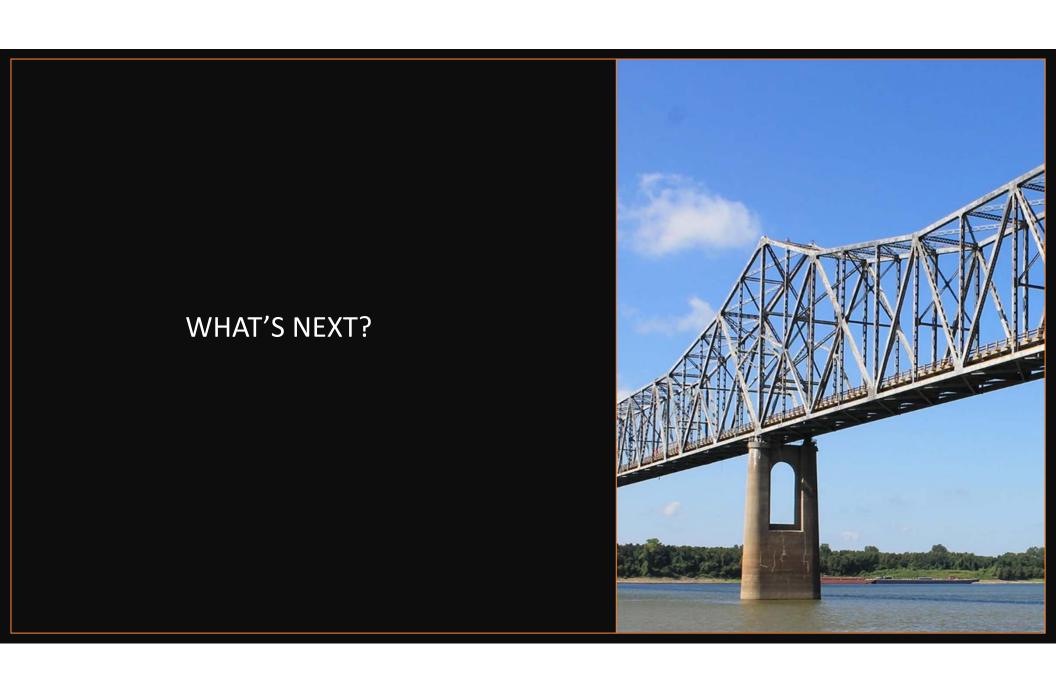














Cairo Bridge Information

How We Got Here

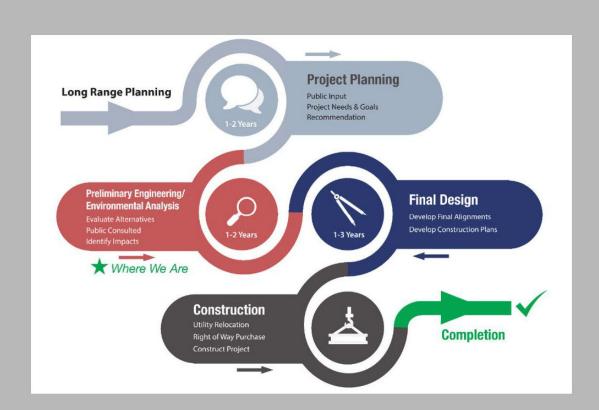
The Process

We are currently at the end of the Preliminary **Engineering and Environmental Analysis portion of the** project. Public input has been gathered, a preferred alternative has been selected, and environmental impacts are being finalized.



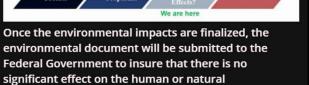
Once the environmental impacts are finalized, the environmental document will be submitted to the Federal Government to insure that there is no significant effect on the human or natural environment. This signifies the end of Preliminary Engineering.

The Design team will immediately move into Phase II -Final Design. Below is a rough timeline of the events to come:









How We Got Here

environment. This signifies the end of Preliminary Engineering.

The Design team will immediately move into Phase II -Final Design. Below is a rough timeline of the events to come:

Early 2021

Begin a more detailed roadway design

Continue bridge design

Investigate seismic activity/impacts and geotechnical impacts

Late 2021

Select a bridge type

2022

Begin Purchasing Right of Way

2026 - 2027

Begin Construction (subject to funding)

