

PURPOSE OF TODAY'S MEETING:

We want to share information on the study of the Mississippi River Bridge at Lansing:

- Progress made since May 2018
- Alternatives to be carried forward
- New bridge design options
- Next steps in the study process

We want to hear your thoughts:

- Talk with project staff
- Visit our comment station
- Submit a comment in writing tonight; staff are available to help you
- Submit a comment (by mail or online) by July 22, 2019

STUDY PROCESS AND NEXT STEPS

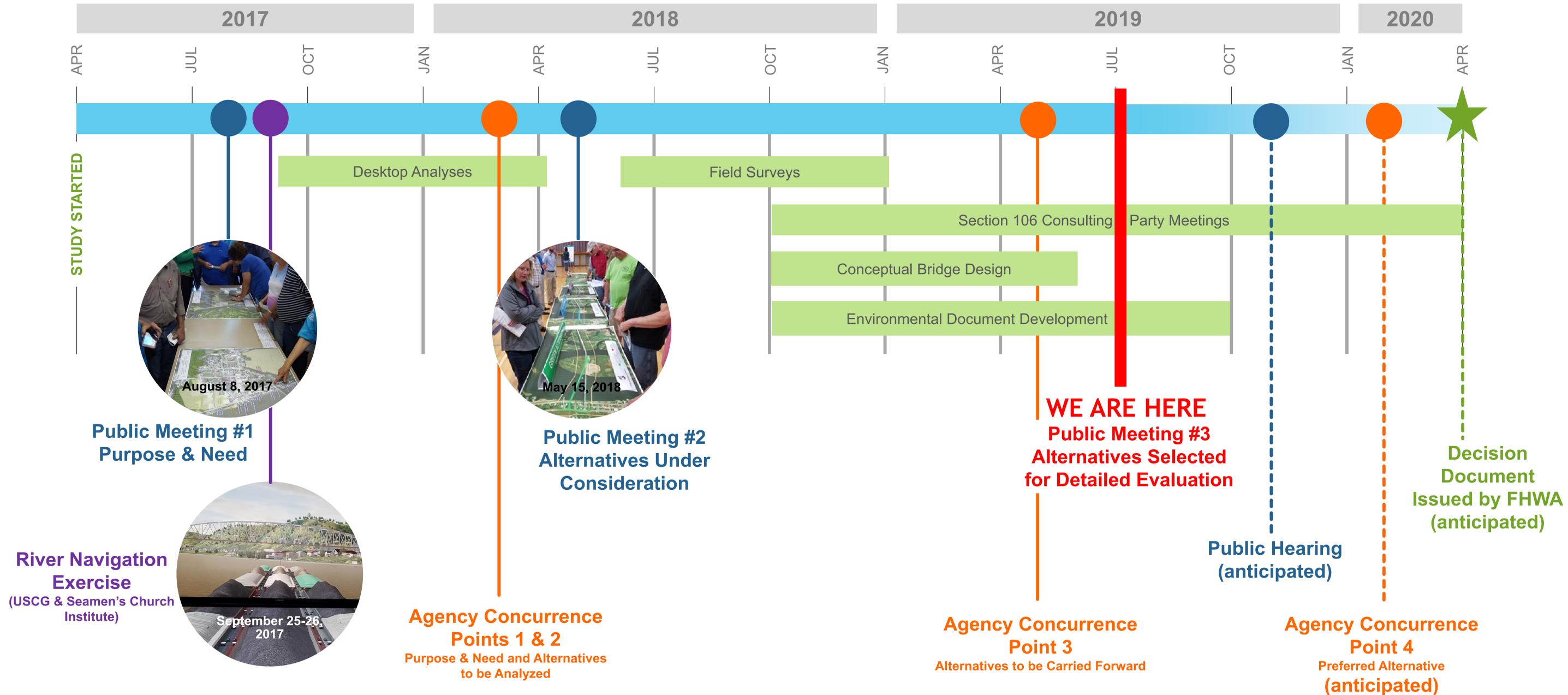
DEFINE PURPOSE AND NEED	IDENTIFY REASONABLE ALTERNATIVES	ASSESS IMPACTS ON HUMAN & NATURAL ENVIRONMENT	DEVELOP EA DOCUMENT
Spring of 2017 - Summer of 2017	Summer of 2017 - Spring of 2018	Summer of 2018 - Summer of 2019	Summer of 2019 - Spring of 2020
<ul style="list-style-type: none">• Define Purpose and Need• Early coordination with agencies and elected officials• Collect data• Review alternatives from Feasibility Study• Conduct Public Meeting #1 - <i>Purpose & Need</i> (August 8, 2017)	<ul style="list-style-type: none">• Review input received• Review and refine alternatives• Coordinate with agencies• Conduct background studies• Conduct Public Meeting #2 - <i>Alternatives Under Consideration</i> (May 15, 2018)	<ul style="list-style-type: none">• Conduct field studies• Coordinate with agencies• Meet with consulting parties• Evaluate alternatives• Conduct Public Meeting #3 <i>Alternatives Selected for Detailed Evaluation</i> JULY 9, 2019	<ul style="list-style-type: none">• Complete studies and analyses• Coordinate with agencies• Prepare Environmental Assessment document• Conduct Public Hearing



WE ARE HERE

MISSISSIPPI RIVER BRIDGE AT LANSING

WHERE WE HAVE BEEN AND WHERE WE ARE HEADED



CULTURAL RESOURCES

Section 106 Process

Cultural resources must be considered in an Environmental Assessment (EA). The study team works through the following steps of the **Section 106 Process** to determine and address potential impacts to cultural resources:

- STEP 1**
Establish Area of Potential Effects (APE)
- STEP 2**
Identify Resources and Their Significance
- STEP 3 - WE ARE HERE**
Determine the Effects of the Project on Cultural Resources
- STEP 4**
Resolve Adverse Effects

Section 106 is named after the portion of the National Historic Preservation Act that requires agencies to take into account the effects of those actions on historic properties.

There are a number of resources that are listed on or considered eligible for listing in the National Register of Historic Places (NRHP). Examples include: Black Hawk Bridge, Lansing Main Street Historic District, and Lansing Stone School.

The study team conducted archaeological surveys during the Summer and Fall of 2018 documenting two new historic districts within the project area:

- Jeremiah Turner Historic District
- Spinner/Brennan Historic District

Section 4(f)

Section 4(f) requirements stipulate that the Federal Highway Administration and other DOT agencies cannot approve the use of land from publicly owned parks, recreational areas, wildlife and waterfowl refuges, or public and private historical sites unless the following conditions apply:

- There is no feasible and prudent avoidance alternative to the use of that land; and the action includes all possible planning to minimize harm to the property resulting from such use;
- OR
- The Administration determines that the use of the property will have a *de minimis* impact.

For this study, Section 4(f) could be applied to resources such as:

- Black Hawk Bridge
- Lansing Stone School
- Lansing Main Street Historic District
- Various historic homes
- Mt. Hosmer Park
- Clear Creek Park
- Certain areas of the Upper Mississippi National Wildlife and Fish Refuge

The process of determining potential impacts to Section 4(f) resources is typically conducted in tandem with reviews for cultural resources under Section 106 (see previous boards). The study process to determine potential impacts along with the evaluation of possible avoidance options will be summarized in the EA.

The study team continues to consult with the following interested groups to consider project effects on Black Hawk Bridge and other historic resources.

- Allamakee County Historic Preservation Commission
- Tribes/Nations with an Interest in Allamakee and Crawford Counties
- Iowa State Historic Preservation Officer
- Wisconsin State Historic Preservation Officer
- Historic Bridge Foundation
- Historicbridges.org
- Lansing History Working Group

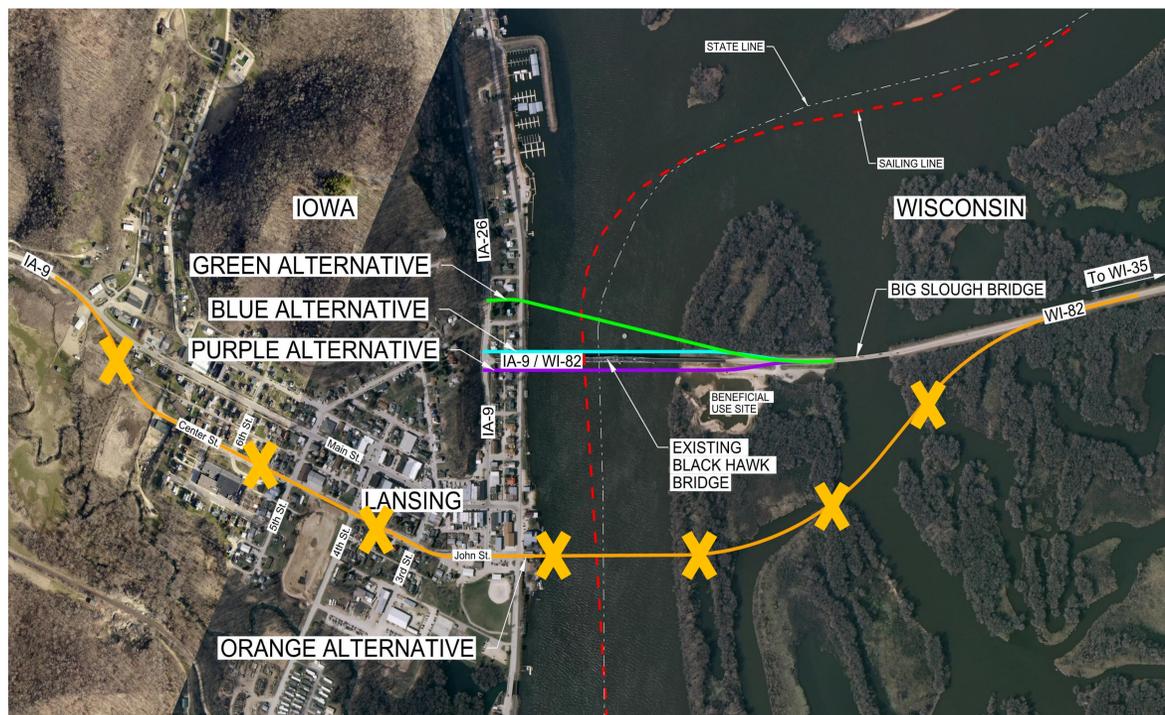
BUILD ALTERNATIVES REMOVED FROM FURTHER STUDY

Orange Alternative

The study team has looked at a number of options to provide an improved river crossing. Initially four new crossing alignment alternatives - GREEN, BLUE, PURPLE, and ORANGE - were developed as depicted below.

Following meetings with agencies in March 2018 and public information meeting #2 (May 15, 2018) the study team eliminated the Orange Alternative from further study. Although the Orange Alternative would address river navigation issues, it had higher costs and would have resulted in greater impacts to natural resources (national wildlife refuge), cultural resources (Main Street Historic District), and introduced unwanted traffic past the high school and through residential areas.

The GREEN, BLUE, and PURPLE Alternatives are shown on the large maps in the center of the room.



Build on Existing Alignment

A risk analysis was performed to determine the feasibility of building a new bridge on the existing river crossing alignment. Much of the new structure could be built under the existing bridge. The crossing would then need to be closed for at least 6 to 9 months to remove the existing bridge and complete the new bridge. The risk analysis identified the following:

Key Features:

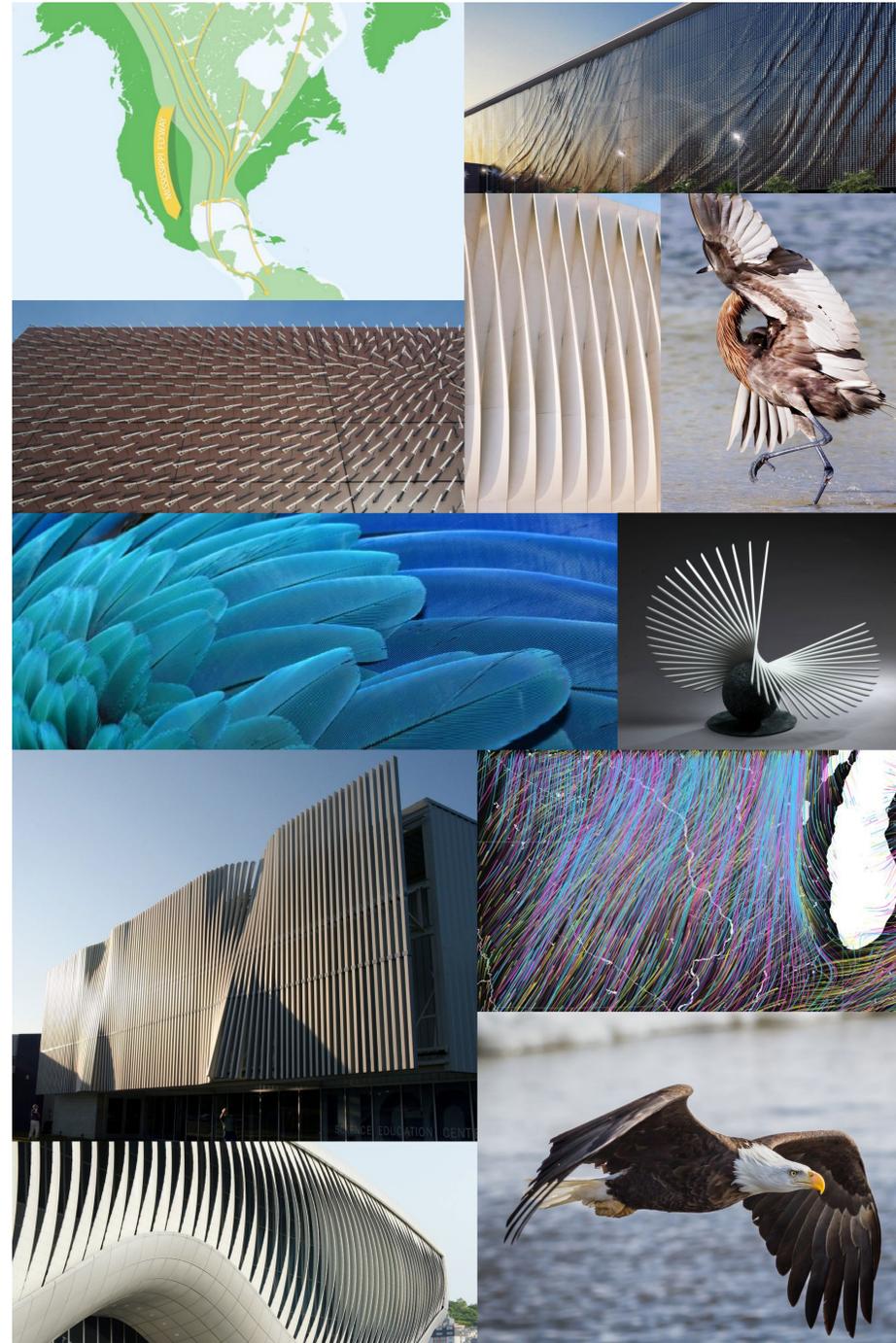
- Main span would be constructed off-site and floated into place
- East approach would be constructed next to the existing and slid into place from the side
- Ferry service would be provided to cross the river
- Existing pier on IA bank could be incorporated into new bridge design
- Majority of new bridge piers can be built before the existing bridge is closed
- Cost: \$65.8M (single span arch or truss, doesn't include ferry costs)

Key Risks:

- Temporary structures could obstruct river navigation during construction
- River flooding, high-water conditions, and long periods of cold weather could extend construction timeline and crossing closure (area typically experiences high water levels April-June)
- New construction activity close to the existing bridge could affect the integrity of the existing structures
- Cost and schedule risks are associated with accelerated bridge construction methods

MISSISSIPPI RIVER BRIDGE AT LANSING

POTENTIAL AESTHETIC THEMES



DRIFTLESS

Forms that represent the carved river valleys and winding terrain of the Driftless Area, characteristic of Northeast Iowa and the surrounding region.

FLYWAY

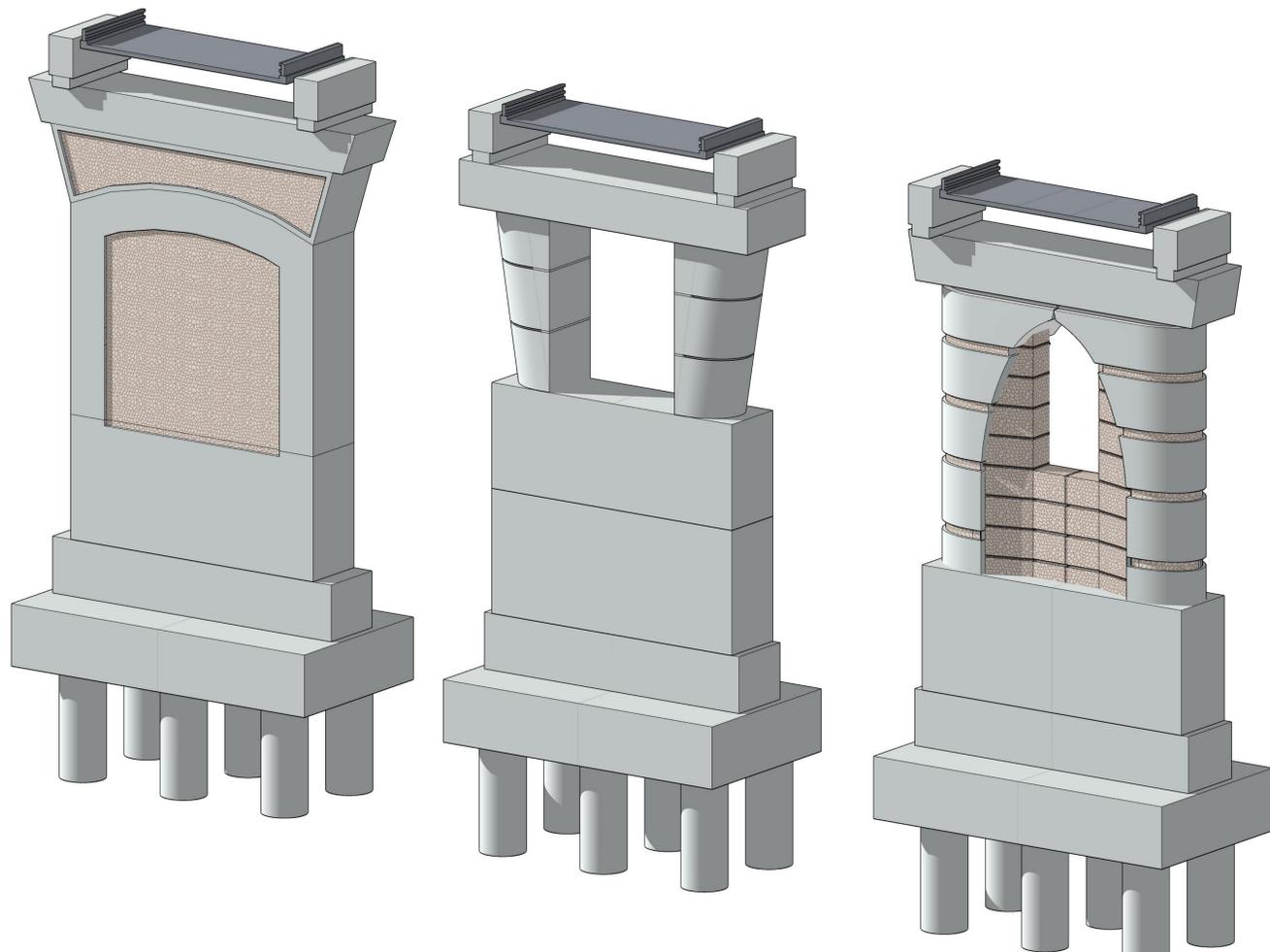
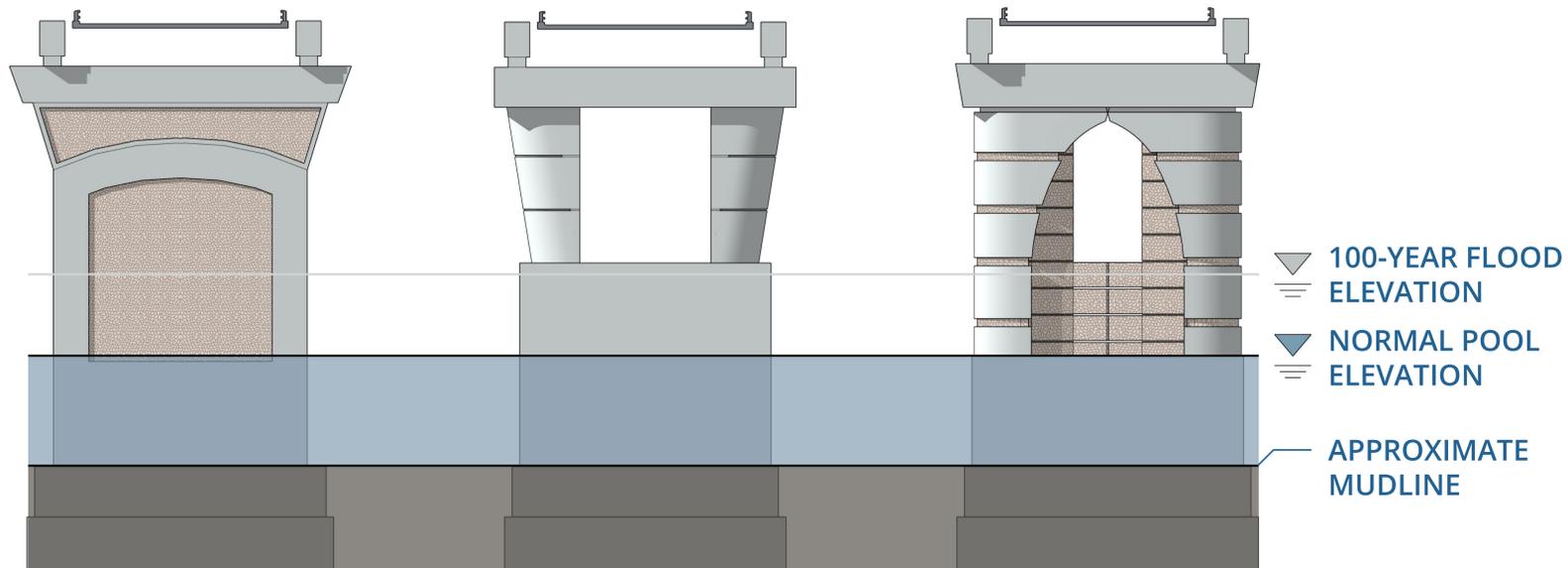
Patterns that represent flight can suggest movement, rhythm, and the natural migratory patterns of the region's fowl.

PORT

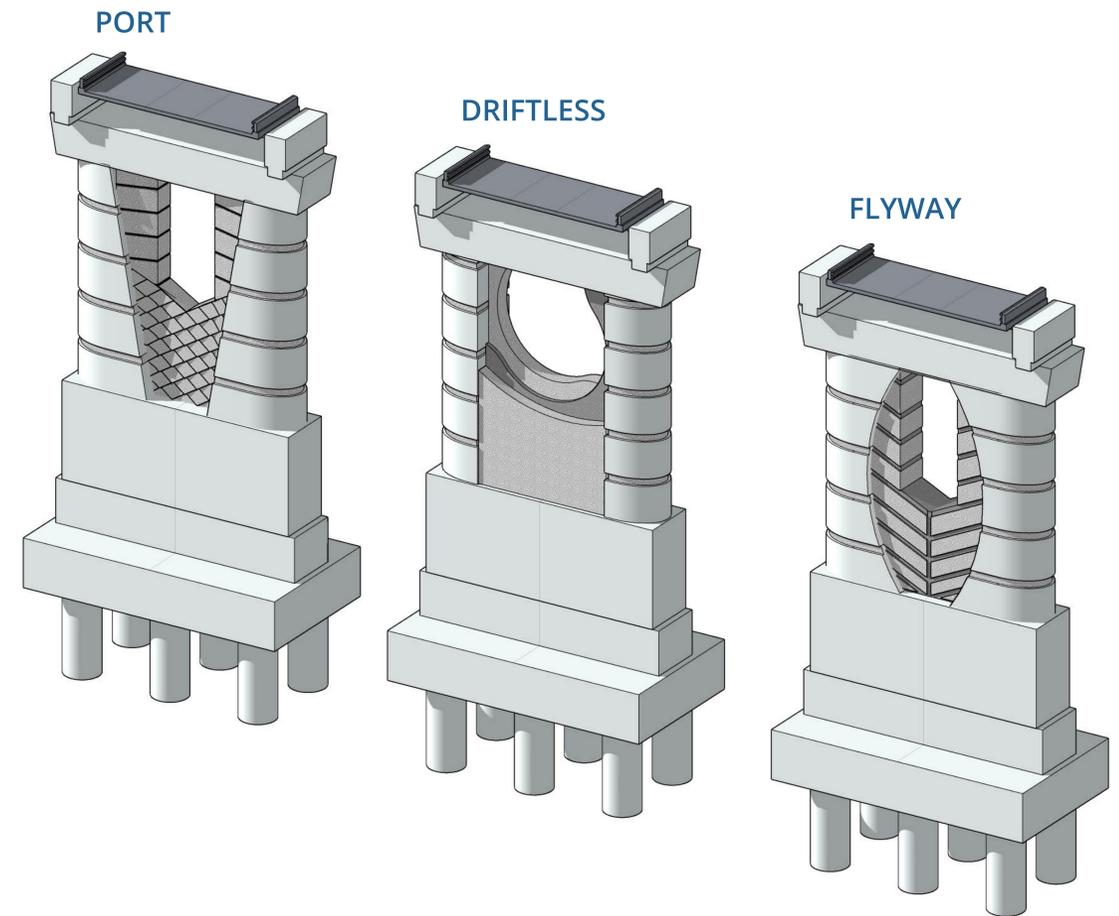
Lansing has a rich history of fisheries and shipping ports, transporting a variety of goods that provide aesthetic inspiration.

MISSISSIPPI RIVER BRIDGE AT LANSING

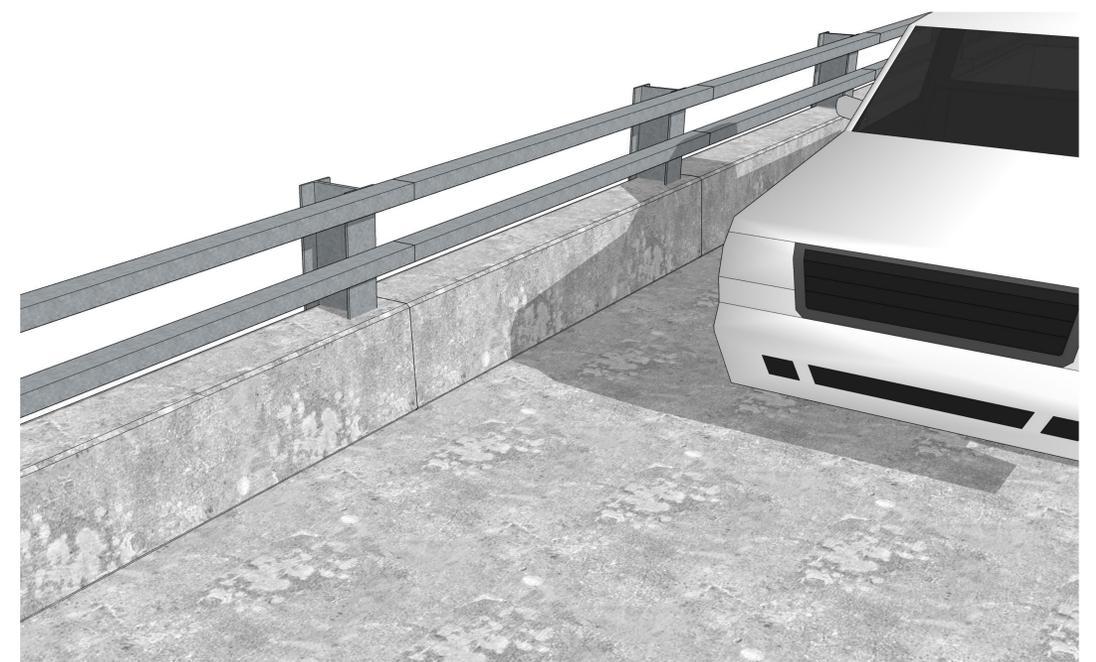
POTENTIAL PIER OPTIONS



POTENTIAL THEMED PIERS



POTENTIAL BARRIER OPTION

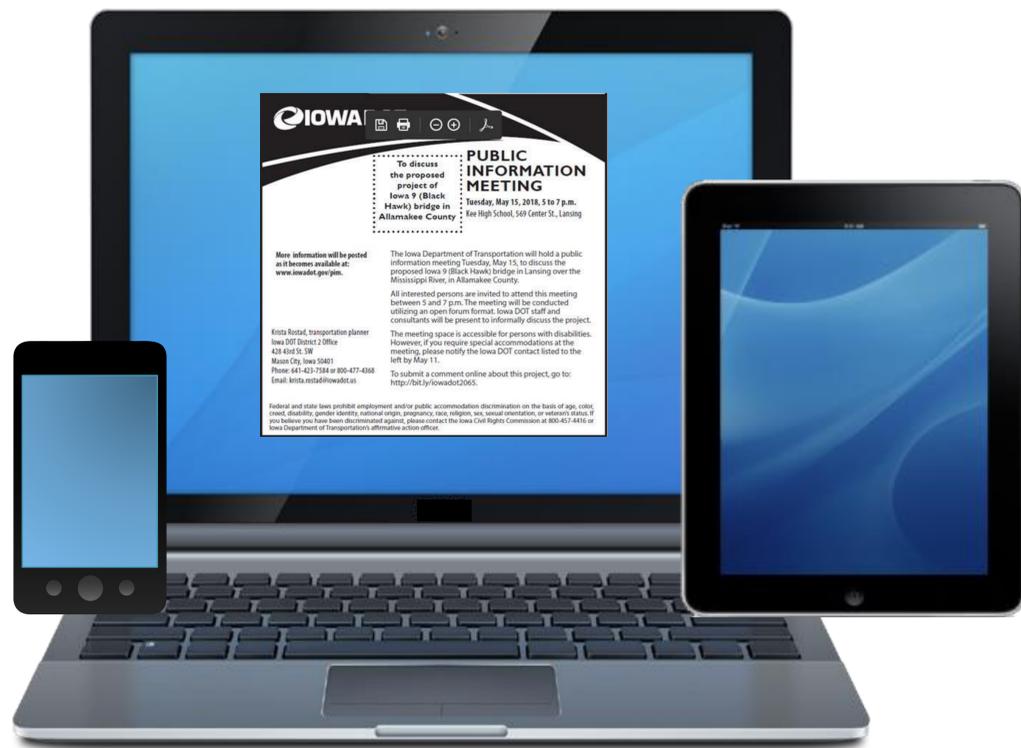


These conceptual images illustrate project features that are currently under development and must be further evaluated for engineering viability, economic feasibility, and aesthetics. Finished project features may be different than shown in conceptual views.

MISSISSIPPI RIVER BRIDGE AT LANSING

WE WANT YOUR INPUT!

Comment Period: July 9, 2019 through July 22, 2019



Project staff are available to help you submit a written comment today and to explain the online options for submitting your comments.

You also may submit your comment using the computer comment station at today's meeting.

OR

You may submit a comment online using your home computer, smartphone, or tablet.

Go to: <http://bit.ly/iowadot2723>

You may also visit www.iowadot.gov/pim to see the displays from today's meeting.