



Red Wing Bridge Project

WELCOME

Red Wing Bridge Project

Public Meeting – Construction Kick-off

May 3, 2017



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Agenda

- Introductions
- Project Background
- Community Involvement
- Historical Context
- Project Challenges
- Construction Letting Results
- Construction Schedule
- Construction Staging
- Construction – *A taste of what is coming*
- Maintenance of Traffic
- Public Outreach





Introductions

Introductions

MnDOT Construction Manager

Terry L. Ward

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Zenith Tech, Inc. Construction Manager

Adam Hinrichs

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Introductions

- FHWA



- City of Red Wing



- WISDOT





Project Background

Project Background

- Eisenhower Bridge Opened to Traffic in 1960.
 - 2-lane continuous steel truss bridge.
 - Named after Dwight D. Eisenhower, the 34th President of the United States, who opened the bridge in November 1960.
 - Main Span assembled in river on barges and raised into place.
- Fracture Critical.



May 1960. The main span of the new **Steel Truss Bridge** is being lifted into place from the barges on which it was moved by the power of the elevation of a steel beam with the lifting cables at the rear end of the span.

Project Background

- Purpose and Need for the Project from the Environmental Assessment (EA):

The primary needs to be addressed by this project are to provide structurally sound bridge crossings of the Mississippi River Main Channel at Red Wing and of US 61, as well as to provide acceptable mobility conditions for motorized and non-motorized traffic in the downtown Red Wing commercial/historic district. Due to the condition of the existing bridges and maintenance requirements, the existing bridges will not adequately meet this need without extensive investment. Furthermore, given forecast growth in motorized and non-motorized traffic levels over the 20-year planning horizon the existing trunk highway network will not be able to address the mobility needs in the downtown commercial/historic district.

Project Background



Project Background



Project Background





Community Involvement

Community Involvement

- Approx. 7 years of planning and design.
- Extensive Community Involvement.
 - Visual Quality Committee.
 - Project Advisory Committee.
 - Technical Advisory Committee.
 - Public Meetings.
 - Public Feedback.

VISUAL QUALITY MANUAL



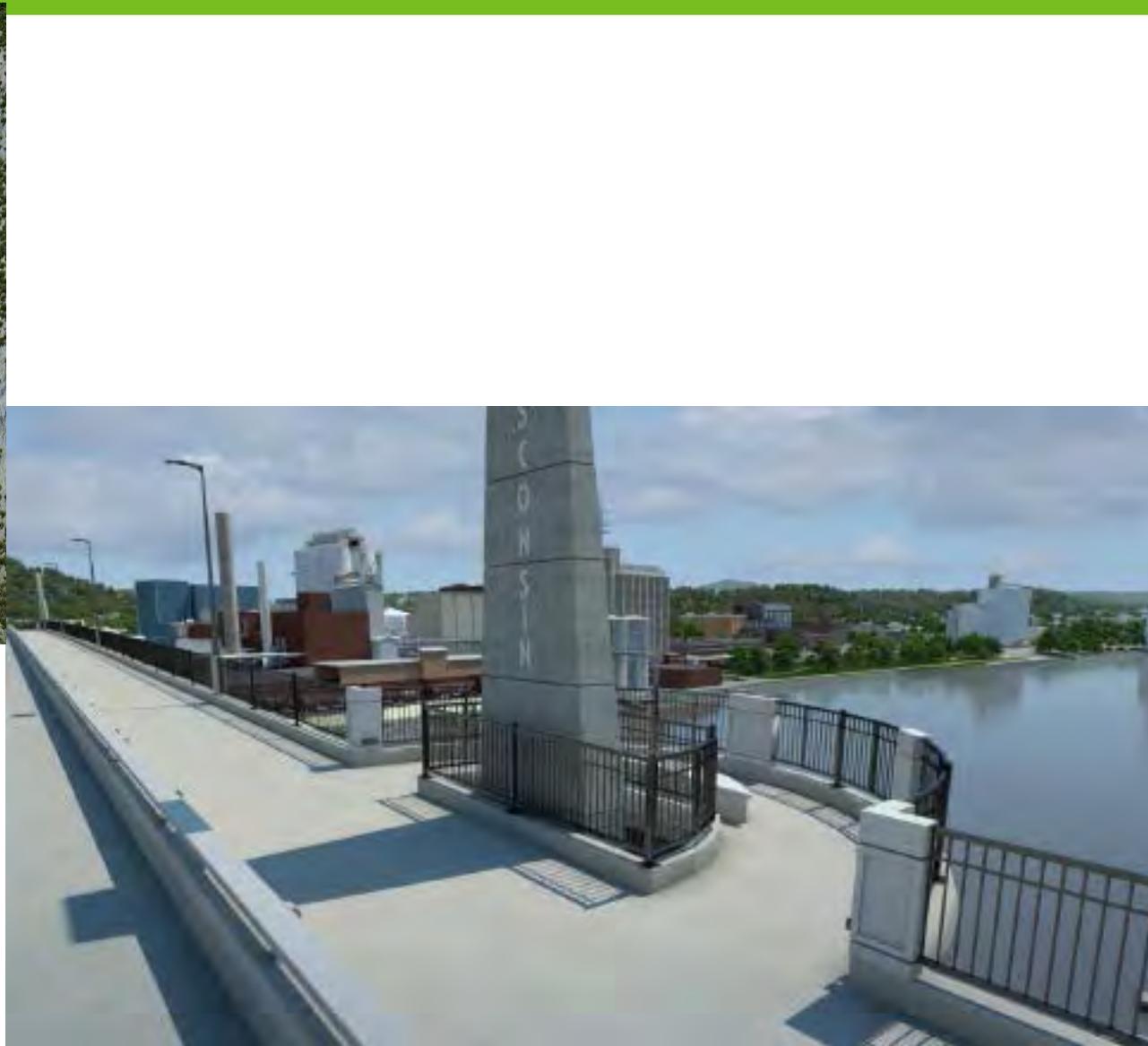
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Community Involvement



Community Involvement





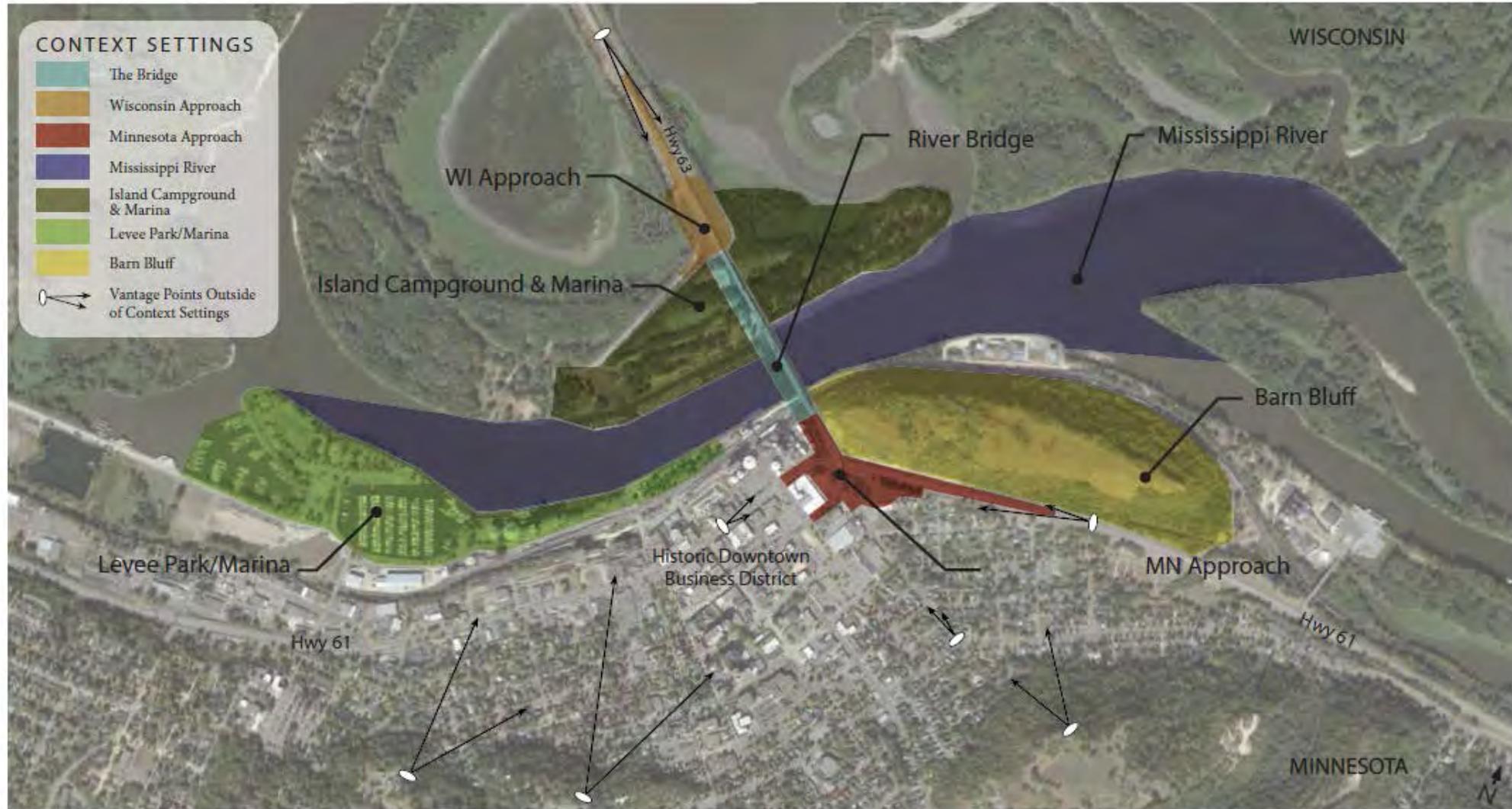
Historical Context

Historical Context

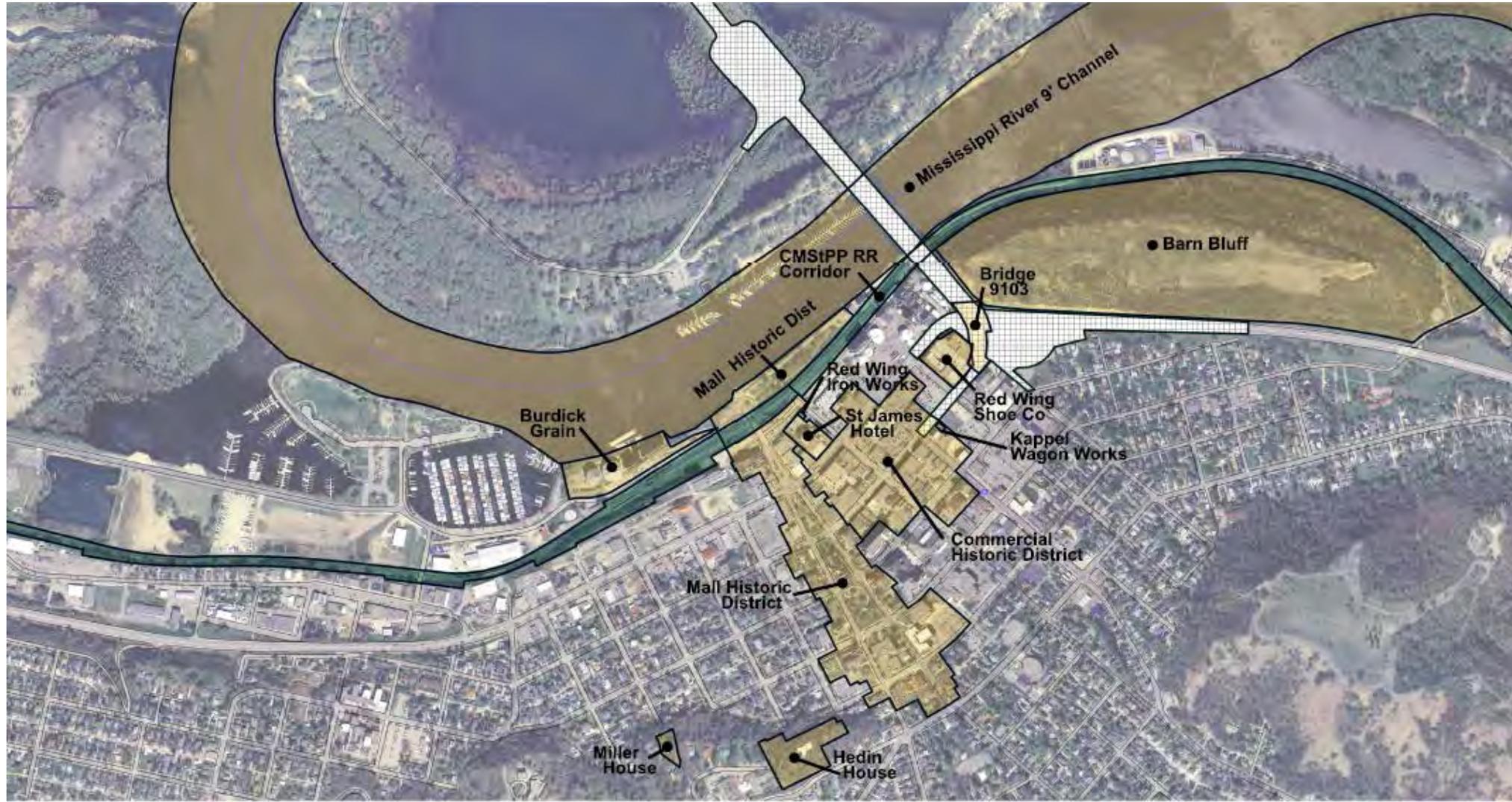
- Downtown Historic District.
- Specific Historic Buildings within Proximity to Project.
- Barn Bluff.
- Trunk Highway 63 Bridge over Trunk Highway 61.
- Historical Properties Vibration Monitoring Plan is a part of the project, including historic building and barn bluff precondition and post-construction conditions surveys.



Historical Context



Historical Context





Project Challenges

Project Challenges

- Major Complex Infrastructure Project.
- Narrow Project Corridor.
- Peak a.m. and p.m. Commuting Hours Across River.
- Construction and Post-Construction Traffic Pattern Changes.
- Proximity of Businesses.
- Historical Context.
- Environmental Stewardship.
- Perception of Main River Bridge Traffic Impacts and Business Aspects.
- Challenging River Access.





Construction Letting Results

Construction Letting Results

- Letting Date: March 8, 2017.
- Four Bidders.
- Zenith Tech, Inc. Low Bidder at \$63.4 million.
 - ZTI Team background.





Construction Schedule

Construction Schedule

- Contract Starting Date: May 5, 2017
- Contract Completion Date: August 20, 2020
- Complete the Temporary Bridge and Button Hook, including the new Trunk Highway 61 Signal System by April 2, 2018 to place traffic on it.
- Open the Red Wing Shoe Parking Lot access by November 16, 2018.
- Open the Trunk Highway 63 Slip Ramp to traffic by September 24, 2019.
 - Plum to Potter area only.
- Open the new Mississippi River Bridge to traffic by September 24, 2019.
- ZTI Overview of their Construction Schedule.



Construction Staging

Construction Staging

Stages 1A & 1B: 2017

Construction:

- 1 Construct bridge piers
- 2 Treat poor soil conditions on the WI approach
- 3 Construct button-hook ramp and cul-de-sac on E. 3rd St.
- 4 Construct temporary bridge over Hwy 61
- 5 Reconstruct Hwy 61
- 6 Add traffic signal



Traffic:



Traffic remains on Hwy 63/
Eisenhower Bridge



Single-lane traffic in each
direction on Hwy 61



825th St. traffic is detoured

Construction Staging

Stage 2: 2018

Construction:

- 1 Continue bridge construction
- 2 Construct new bridge over Hwy 61
- 3 Construct slip ramp and bridge at Bluff St.

Traffic:

-  Traffic remains on Hwy 63/Eisenhower Bridge
-  3rd St. is closed for one month
-  Potter St. is closed for one month



Traffic routed to temporary bridge over Hwy 61, button-hook ramp, and new Hwy 61 signal



825th St. traffic is detoured

Construction Staging

Stage 3: 2019

Construction:

- 1 Continue bridge construction
- 2 Construct Hwy 63 in WI
- 3 Construct west side of 825th St.

Traffic:



Traffic routed to temporary bridge over Hwy 61, button-hook ramp, and new Hwy 61 signal



Traffic remains on Hwy 63/Eisenhower Bridge/
Traffic rerouted to new bridge in fall 2019



825th St. traffic is detoured



Construction Staging

Stage 5: 2020

Construction:

- 1 Construct 825th St. Ring Road and east side of 825th St. E.
- 2 Construct Hwy 61 median



Traffic:



Traffic routed to new bridge



Single-lane traffic in each direction on Hwy 61

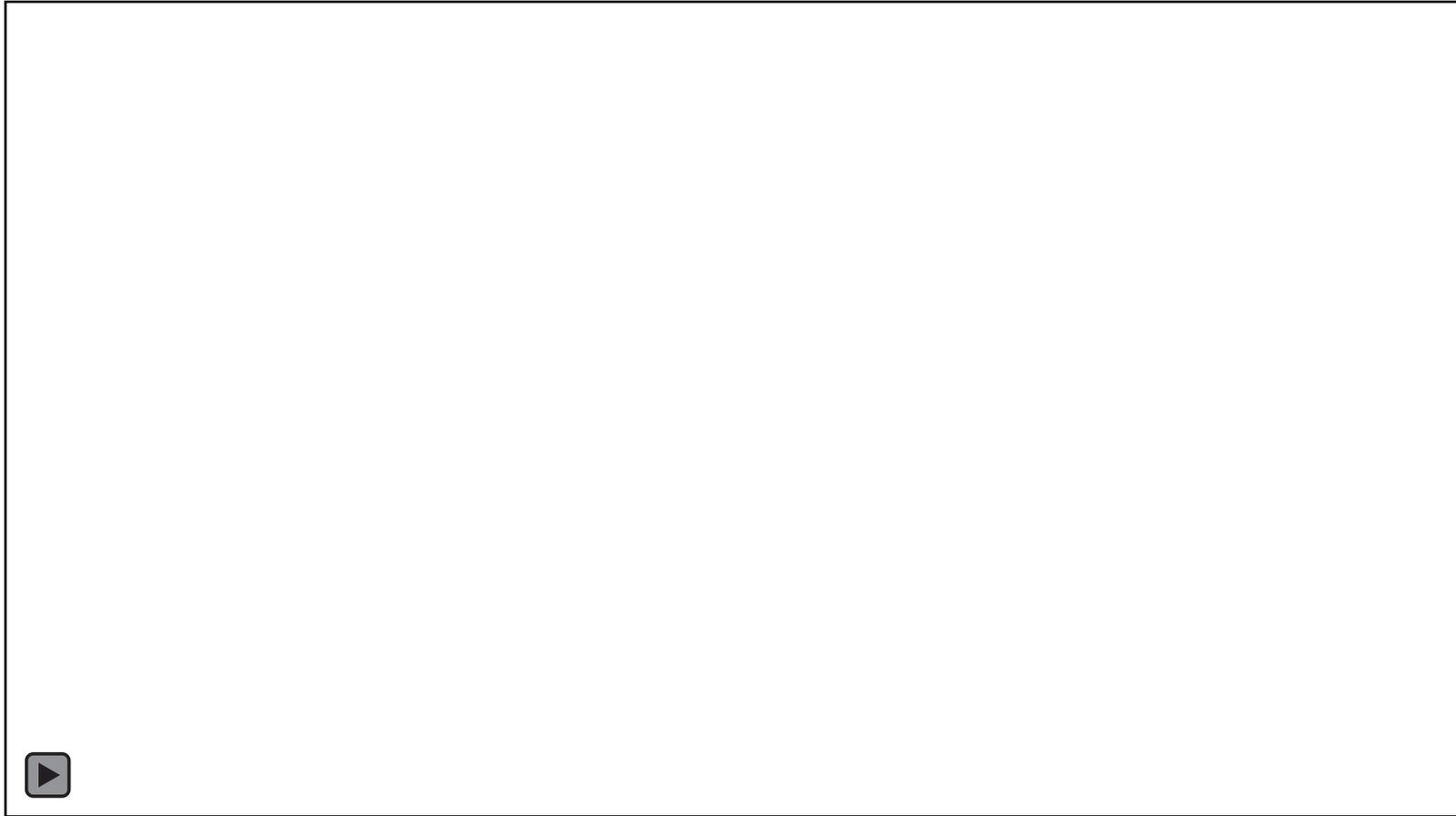


825th St. eastbound traffic is detoured



Construction – *A Taste of What is Coming*

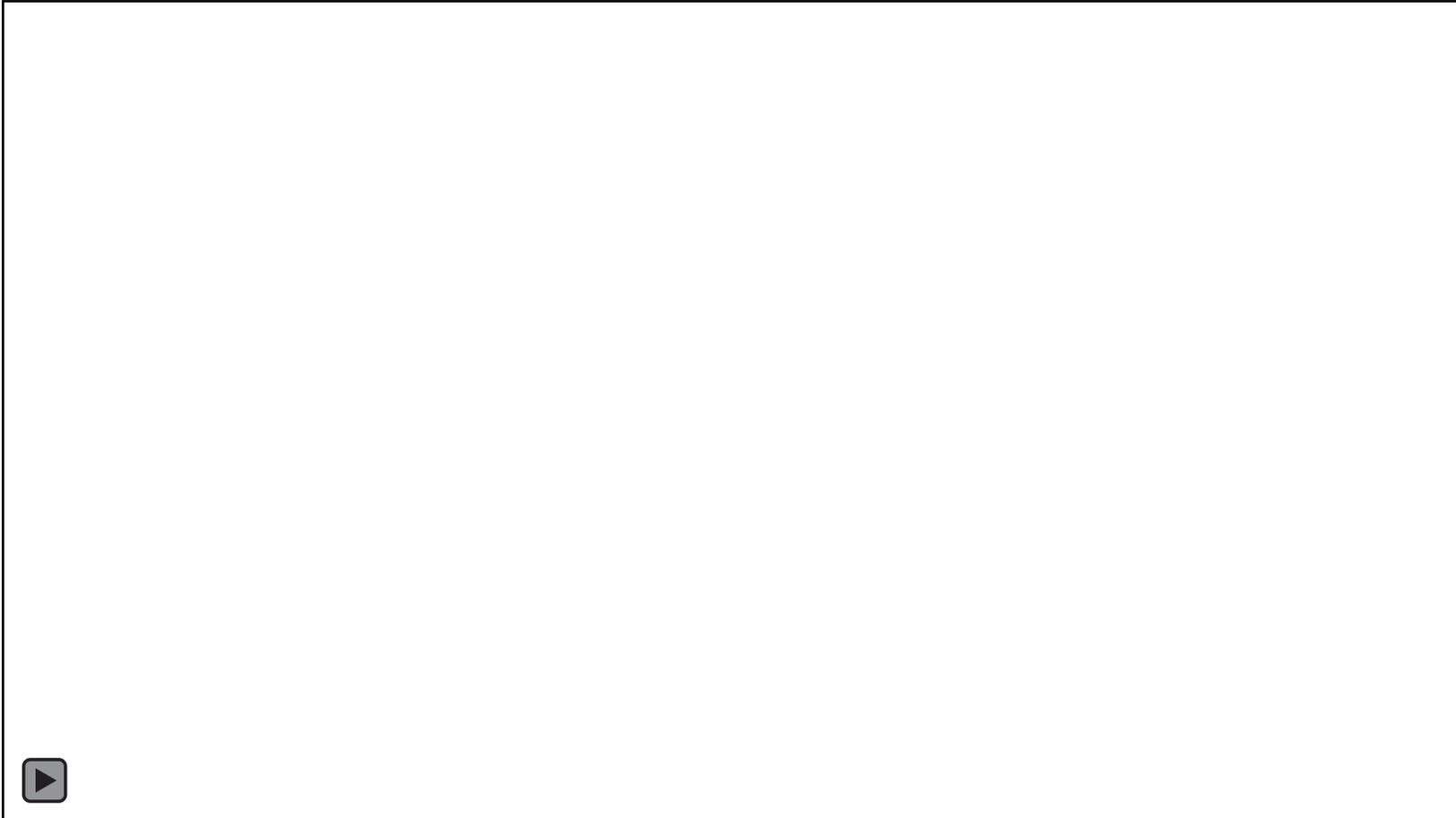
Construction – *A Taste of What is Coming*



Construction – *A Taste of What is Coming*



Construction – *A Taste of What is Coming*



Construction – *A Taste of What is Coming*





Maintenance of Traffic

Maintenance of Traffic

- Keep River Crossing Open (11' lanes, 2' shoulders min.)
- Maintain River Crossing Traffic Flow to the Maximum Extent Possible.
 - No Lane Closures on Trunk Highway 63 (river crossing) weekdays from:
 - 6:00 a.m. to 8:30 a.m.
 - 3:00 p.m. to 6:00 p.m.
- Minimize Use of Trunk Highway Traffic Detours.
 - No Trunk Highway Detours Planned.
 - “Pre-Approved” Emergency Detour for Trunk Highway 61 Bridge Demolition
 - Trunk Highway 61 / Flower Valley Road (Goodhue County 21) / Trunk Highway 58
 - TOTAL = 12.3 miles



Maintenance of Traffic

- Minimize Duration of Temporary Bridge Use.
 - 12' lanes – 4' shoulders.
 - Min. 15'-6" vertical clearance.
- Minimize Duration of Slip Ramp Construction.
- Install New Traffic Signal on Trunk Highway 61 Prior to Buttonhook Traffic Usage.
- Minimize the Potter / 3rd (Slip Ramp) Intersection Traffic Impacts (28 day Closure).
- Keep the Red Wing Community and Project Partners Updated on Traffic Pattern Changes Throughout the Project.
- 7 Day Closure of sidewalk along Trunk Highway 61 for Red Wing Shoes.

Maintenance of Traffic

Traffic Detour: 825th St. in Wisconsin

May 2017 - late 2019: All traffic detoured

Use 825th St. north of The Woodshed to access Harbor Bar, Island Campground, and marinas

2020: Eastbound traffic detoured

825th St. E. traffic should use the access north of The Woodshed to get to Harbor Bar, Island Campground, and marinas





Public Outreach

Public Outreach

- Construction Start – Early May Possible.
- Hired a Public Relations Consultant to Assist our Team.
- Extensive Outreach Necessary for Project Success.
- Project Facebook Page.
- Tree Removal Contract / Work.
- City Noise Ordinance (restrictions also for Island Campground / Harbor Bar).
- Emergency Responder Meetings.
- Annual Events Coordination.
- Sidewalk Impacts and Coordination.
- Utility (Sewer and Water) Impacts and Coordination.
- Building Condition Surveys pre and post Construction.



Questions?



Project Contacts & Resources

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Thank you again!

Red Wing Bridge Construction Team

