

Replacement of EB Kellogg Boulevard Bridge No. 90378 at RiverCentre

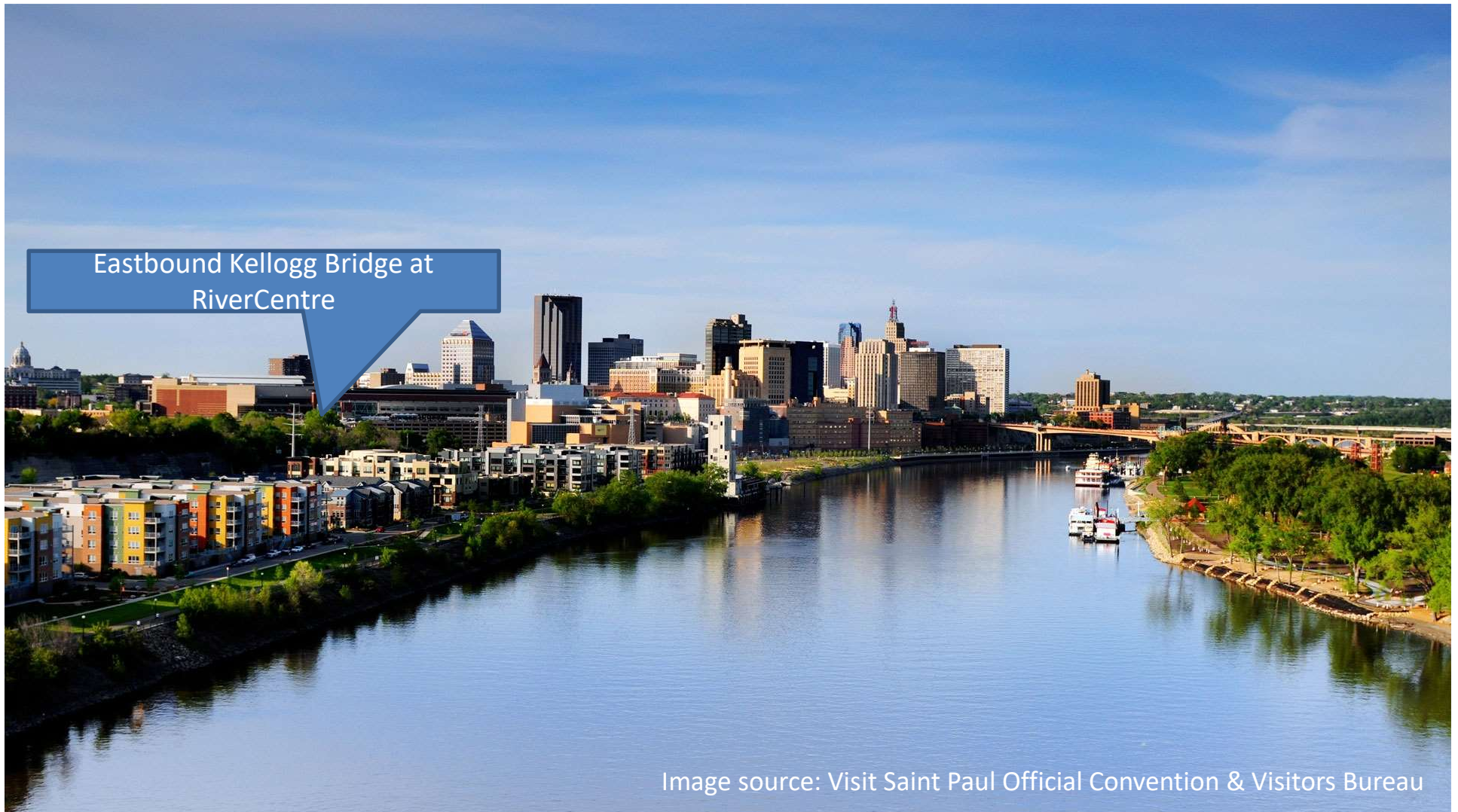


Image source: Visit Saint Paul Official Convention & Visitors Bureau

EB Kellogg Blvd RiverCentre Bridge

Introductions

- City of Saint Paul, Bridge Division

Dag Dejene, Project Manager

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- City of Saint Paul, Bridge Division

Brent Christensen, Assistant City Bridge Engineer

- Design Consultant, TKDA

Matt Christensen, Design Project Manager

Bridge No. 90378 Stats at-a-glance

Parameters	RiverCentre Bridge
Length*	1,031 feet
Spans	Original – 38 spans Current – 35 spans
Traffic Volume	18,000 vehicles/day
Replacement Cost	\$23.6 Million
Years in service	84 years (Built in 1936)

* Bridge length only. Not representative of entire project length.

EB Kellogg Blvd RiverCentre Bridge

Downtown Access with Regional Significance

- Once built, downtown bridges appear to be city streets, blending into the streetscape



EB Kellogg Blvd RiverCentre Bridge

Downtown Access with Regional Significance

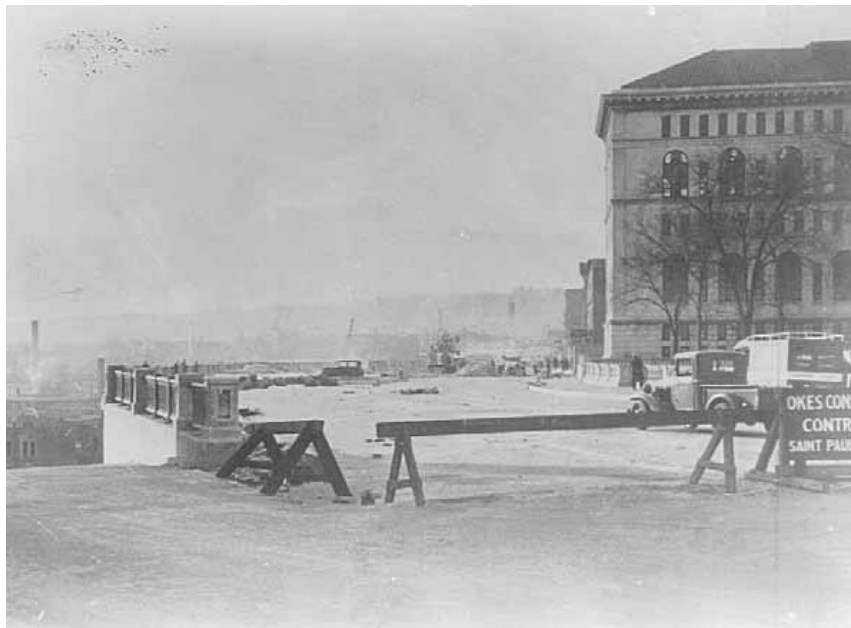
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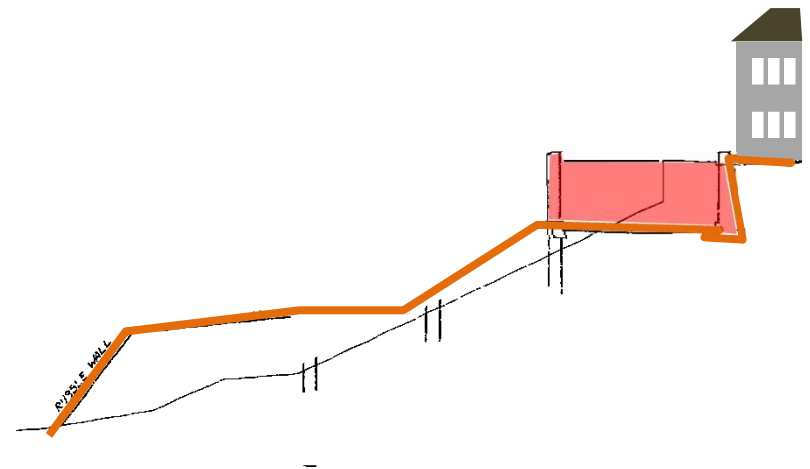
History

- By the 1930s, businesses had expanded to the edge of the river bluff. The only remaining option was to build “out” – over the bluff.



1934 photo of 2-lane road (bridge not built)

Source: MN History Center Digital Collections

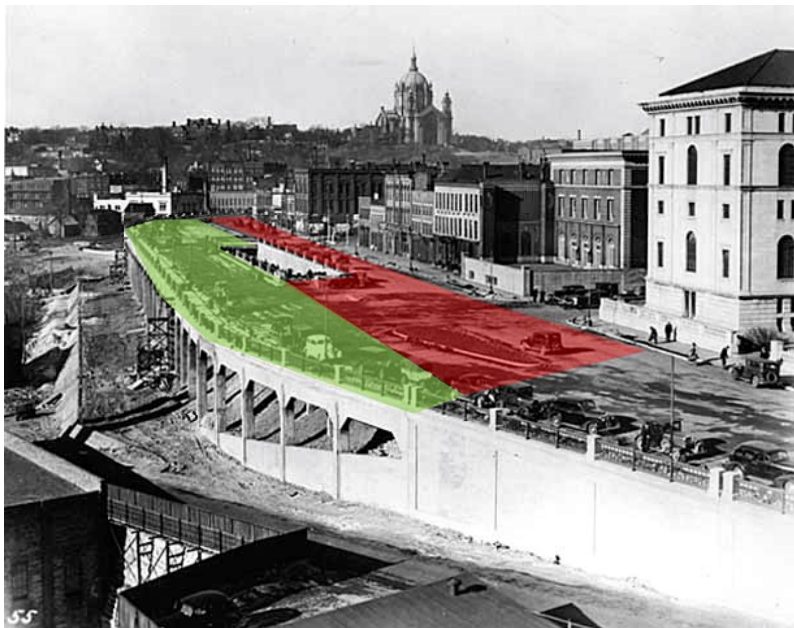


Sketch of the **bluff** and **2-lane road**

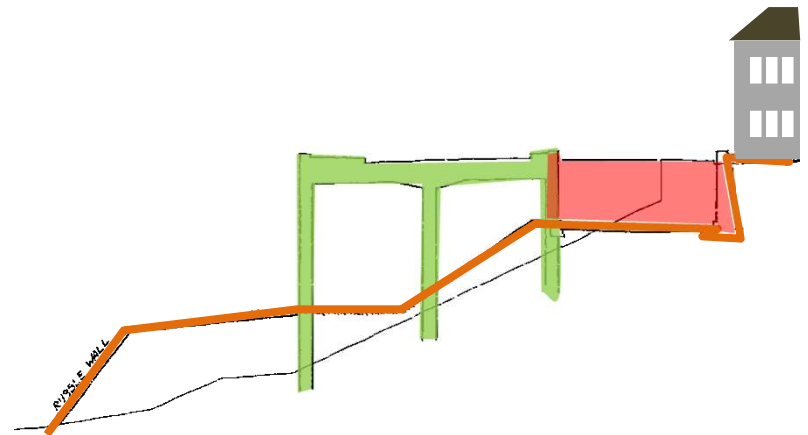
EB Kellogg Blvd RiverCentre Bridge

History

- In 1936 the Eastbound Bridge was built, increasing Kellogg Boulevard to a 4-lane divided roadway. Buildings were built later, surrounding the bridge on all sides.



1940 photo of the new bridge, facing west
Source: MN History Center Digital Collections



Sketch of the **bluff** and **new bridge**

EB Kellogg Bridge at RiverCentre

- Rough Bridge Outline



EB Kellogg Blvd RiverCentre Bridge

84 Years Later

- The structure is “structurally deficient” and has reached the end of its service life.
- The bridge has stood up well to time, but at this point concrete degradation and steel corrosion is not reversible.

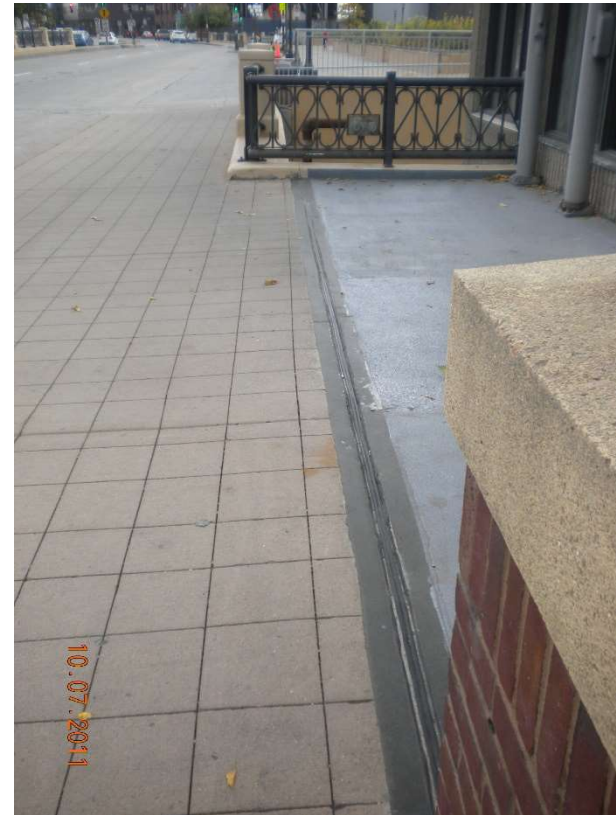


EB Kellogg Blvd RiverCentre Bridge

Connections to Existing Structures



- Joint at Science Museum



- Joint at Rivercentre Parking Ramp

EB Kellogg Blvd RiverCentre Bridge

Integration with Existing Roads

- Bridge spans over Exchange Street Viaduct and RiverCentre Loading Dock Exit Road



EB Kellogg Blvd RiverCentre Bridge

Additional Design Considerations



- Planters at RiverCentre Parking Ramp intersection
- Streetscape design features
- Traffic signal rehabilitations and/or replacements
- Utility coordination

Project Timeline

Phase	Activity	Deadline
RFP	Agreement in Force with TKDA	April 1, 2020 (Completed)
Design Phase	Approved Project Memorandum	December 1, 2020
	Final Approved Plans & Specs	June 1, 2021
Construction Phase	Begin Construction	Fall/Winter 2021 *
	End Construction	Fall 2023 * (2 years)

* Construction schedule reflects Federal Grant requirements; Exact start date will be determined by project funding

Project Funding

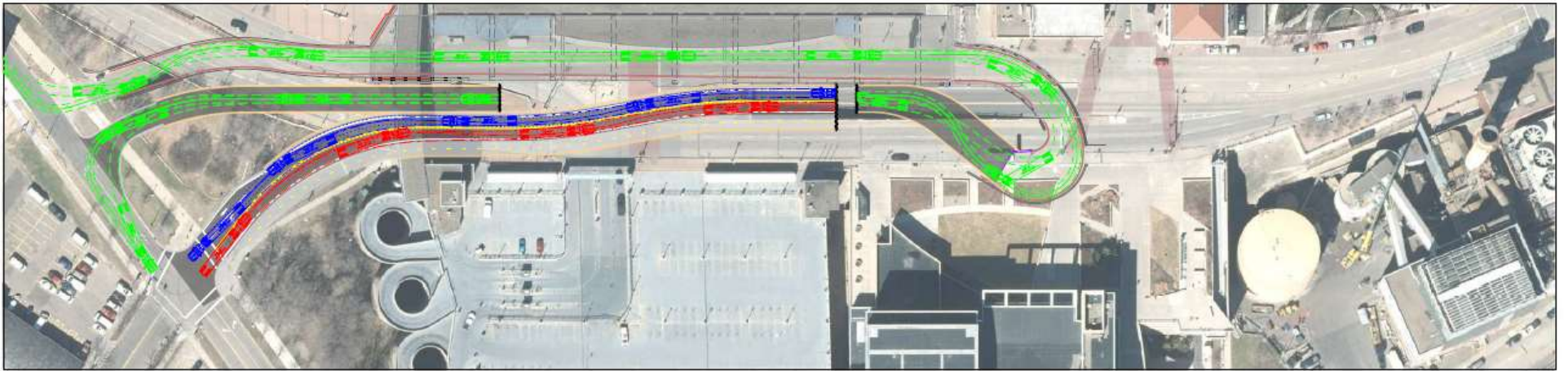
Proposed Budget Source & Status	Est. Amount
Local Funds (2020) – Secured	\$ 1,000,000
Federal Grant (2021) – Subject to 2021 Deadlines	\$ 7,000,000
State Legislative Ask (2020) – Drafted into Bill	\$ 5,000,000
Local Funds (2021) – Proposed	\$ 5,200,000
Total all Funds Secured/Proposed/Requested	\$18,200,000

Project Cost & Funding Gap	Est. Amount
Estimated Total Project Cost	\$23,600,000
Estimated Funding (Identified Above)	\$18,200,000
Shortfall (additional Local Funds needed)	\$ 5,400,000

Conceptual Plan - Upper Level



Conceptual Plan - Lower Level



Conceptual Plan – Typical Sections

