



Red Wing Bridge Project

Maintenance of Traffic and Construction Staging

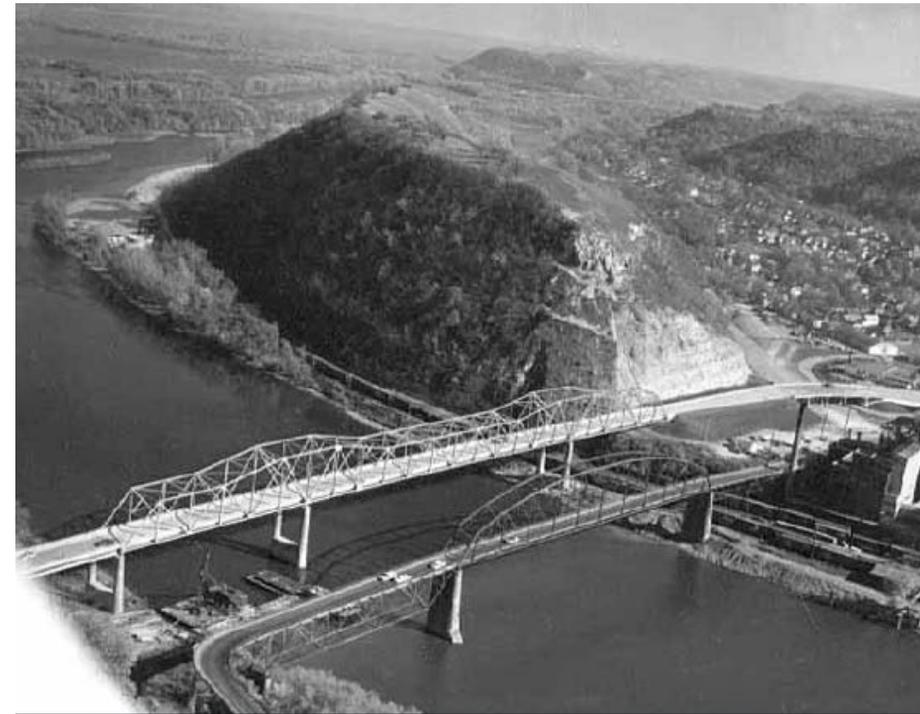
January 23, 2017

Letting Date: March 8, 2017



Agenda

- Introduction
- Unique Project Challenges
- Maintenance of Traffic Goals and Criteria
- Construction Staging
- Public Outreach
- Questions





Introduction

Introduction

MnDOT Construction Manager
Terry L. Ward
(507) 286-7688 Office
(507) 421-5318 Cell
terry.ward@state.mn.us



Unique Project Challenges

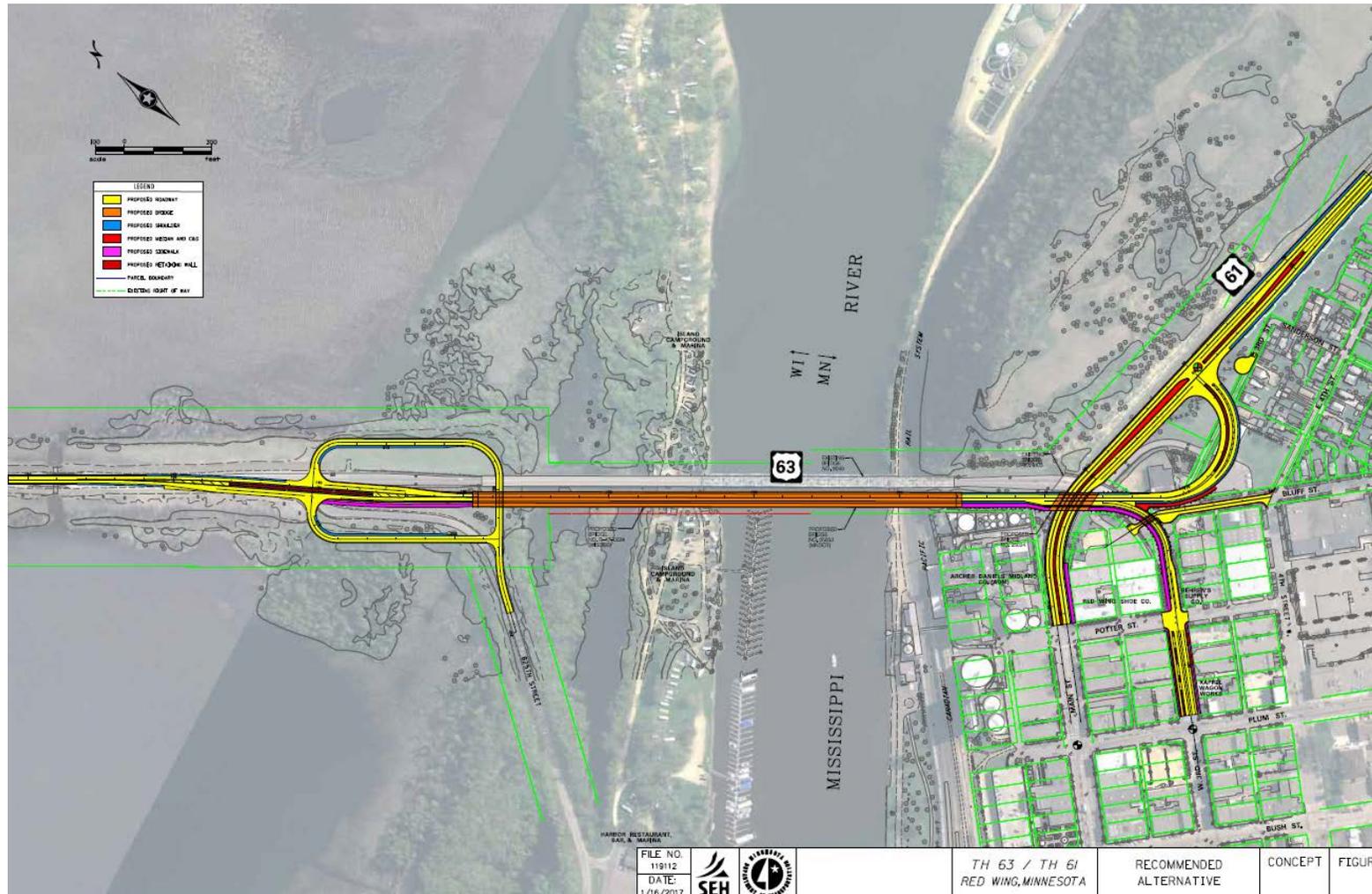
- Major Complex Infrastructure Project.
- Narrow Project Corridor.
- Peak a.m. and p.m. Commuting Hours Across River.
- Construction and Post-Construction Traffic Pattern Changes.
- Proximity of Businesses.
- Historical Context.
- Environmental Stewardship.
- Perception of Main River Bridge Traffic Impacts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





Maintenance of Traffic Goals and Criteria

Maintenance of Traffic Goals and Criteria



Maintenance of Traffic Goals and Criteria

- 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 Goals and Criteria

- 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.
- Keep the Red Wing Community and Project Partners Updated on Traffic Pattern Changes Throughout the Project.



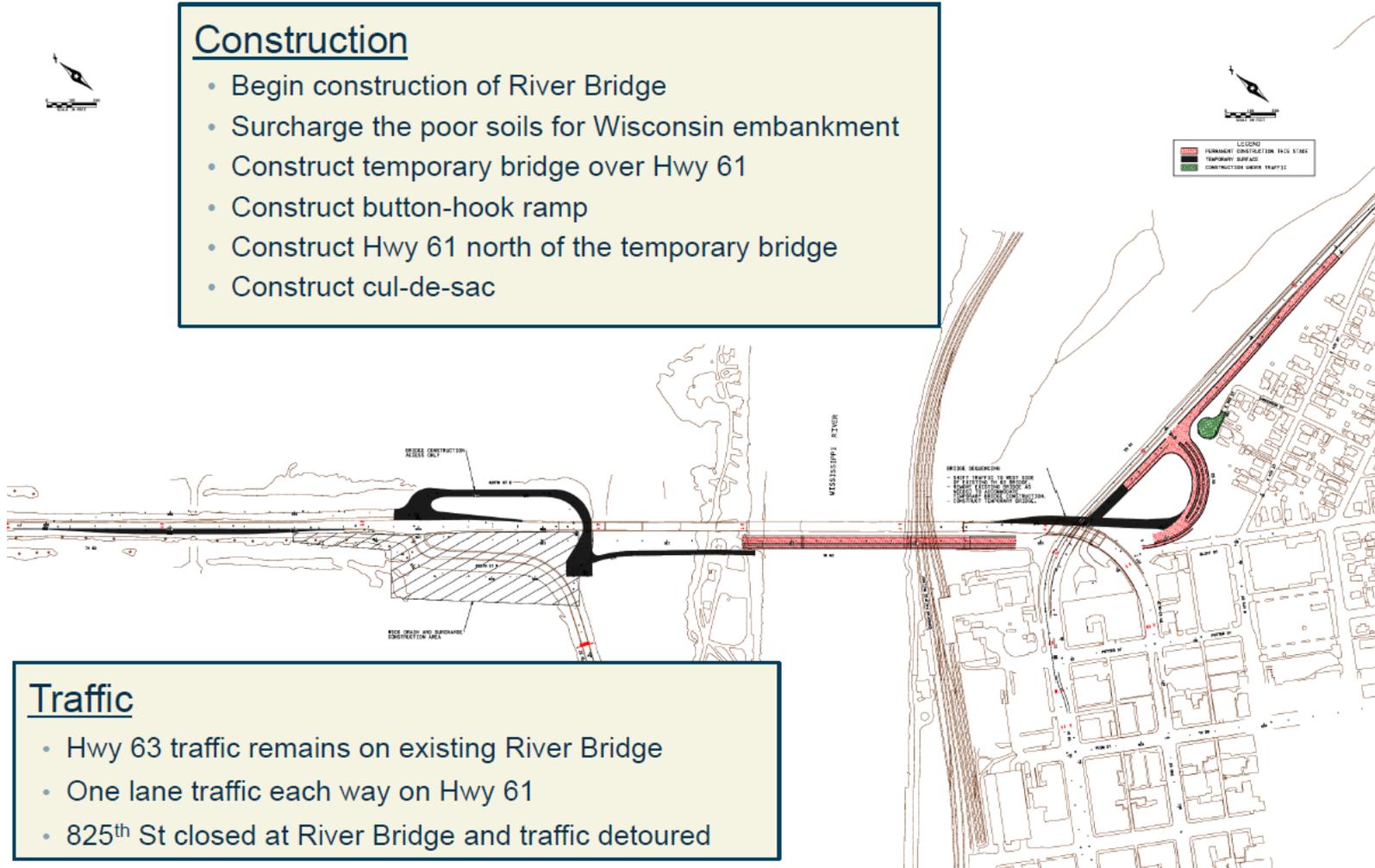
Construction Staging

Construction Staging

Staging - 2017 – Stage 1A

Construction

- Begin construction of River Bridge
- Surcharge the poor soils for Wisconsin embankment
- Construct temporary bridge over Hwy 61
- Construct button-hook ramp
- Construct Hwy 61 north of the temporary bridge
- Construct cul-de-sac



Traffic

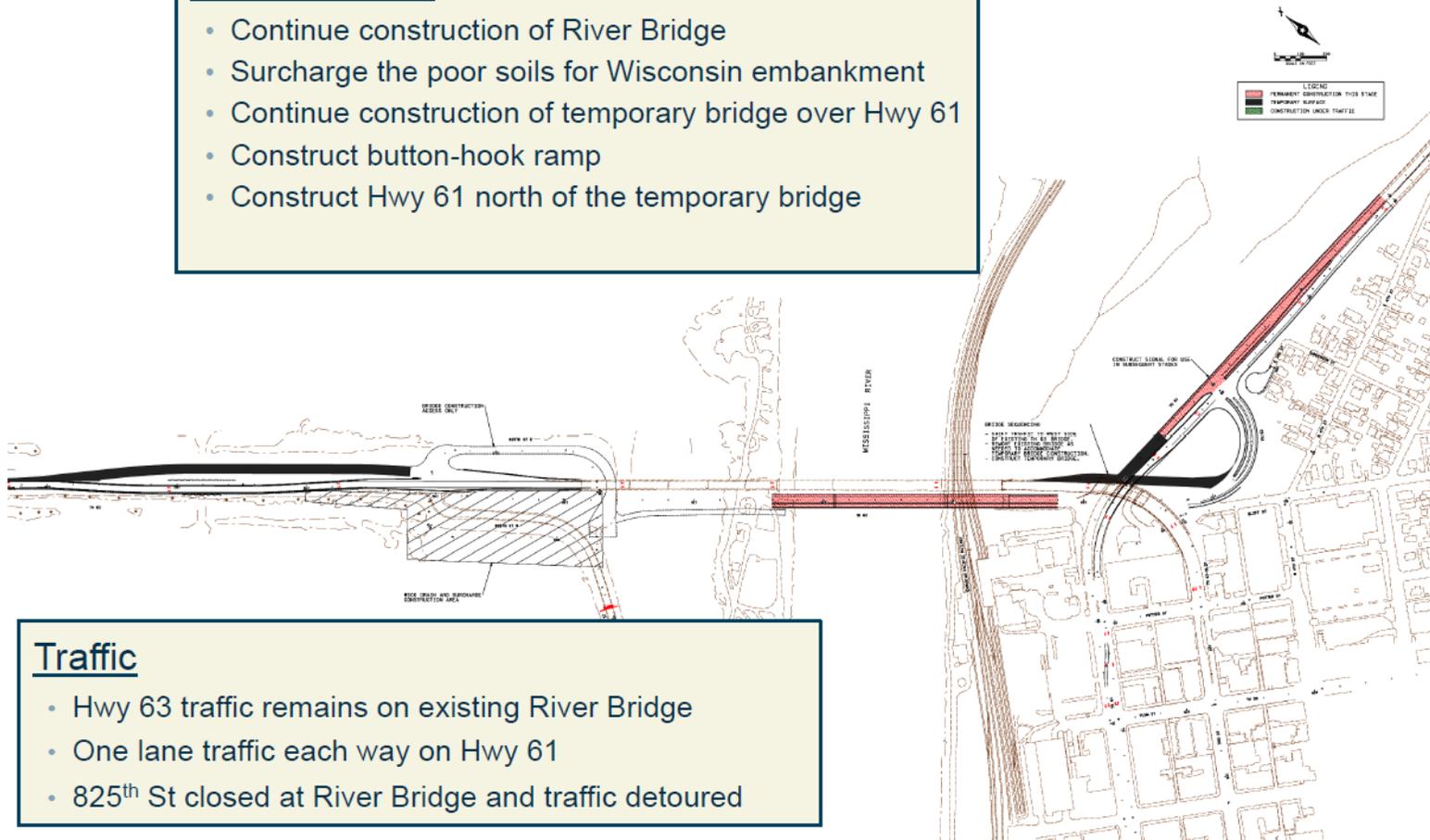
- Hwy 63 traffic remains on existing River Bridge
- One lane traffic each way on Hwy 61
- 825th St closed at River Bridge and traffic detoured

Construction Staging

Staging - 2017 – Stage 1B

Construction

- Continue construction of River Bridge
- Surcharge the poor soils for Wisconsin embankment
- Continue construction of temporary bridge over Hwy 61
- Construct button-hook ramp
- Construct Hwy 61 north of the temporary bridge



Traffic

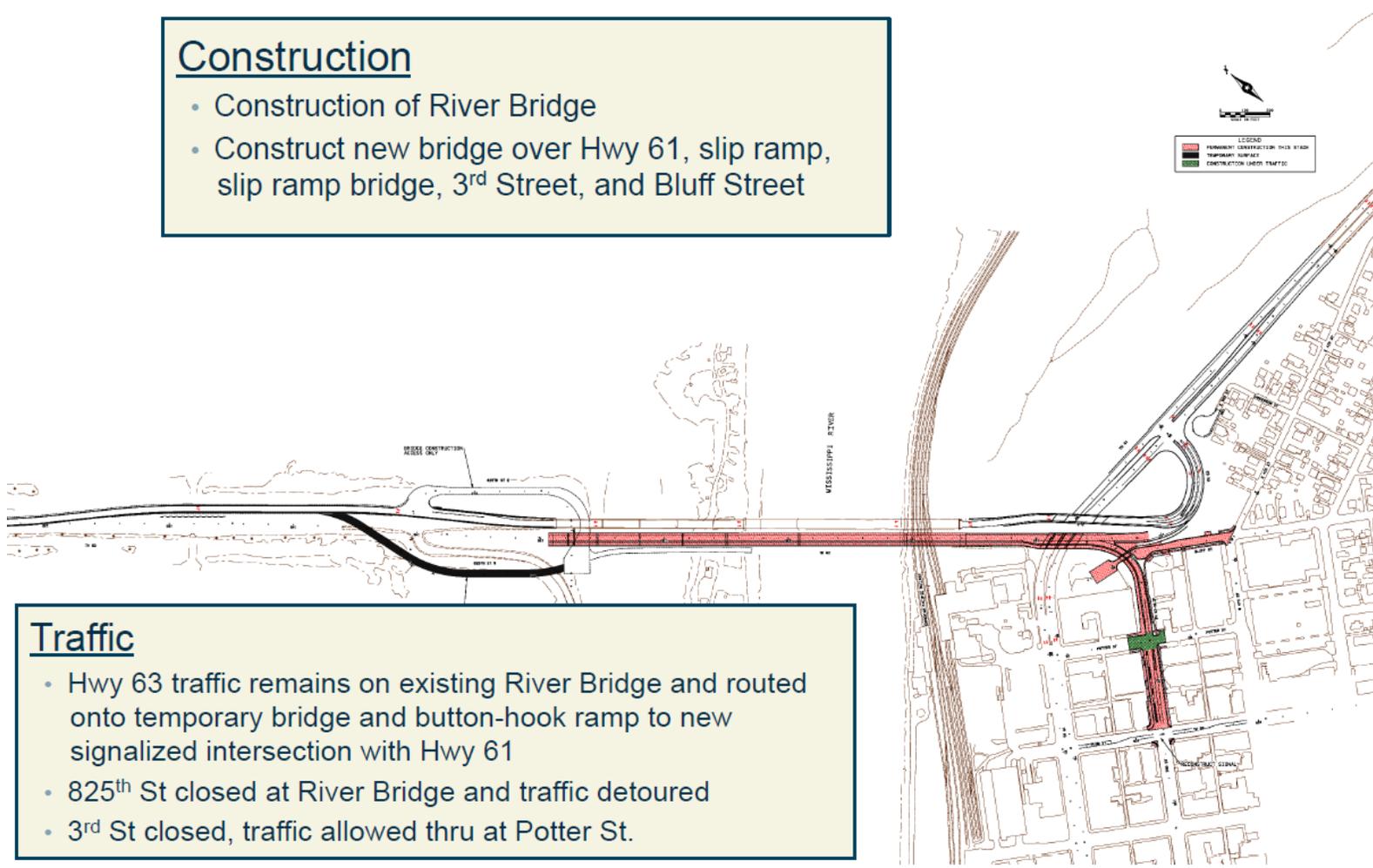
- Hwy 63 traffic remains on existing River Bridge
- One lane traffic each way on Hwy 61
- 825th St closed at River Bridge and traffic detoured

Construction Staging

Staging - 2018 – Stage 2

Construction

- Construction of River Bridge
- Construct new bridge over Hwy 61, slip ramp, slip ramp bridge, 3rd Street, and Bluff Street



Traffic

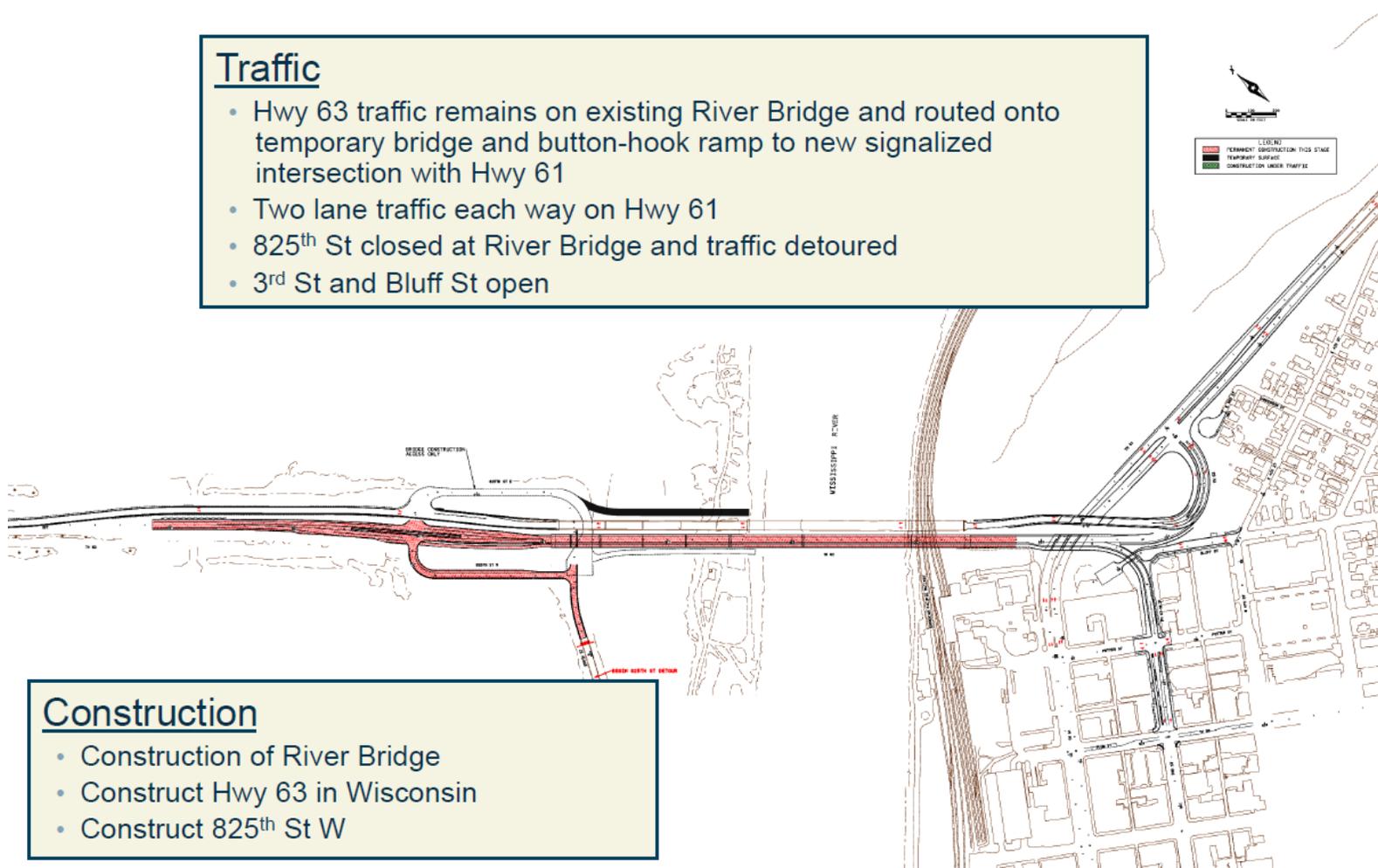
- Hwy 63 traffic remains on existing River Bridge and routed onto temporary bridge and button-hook ramp to new signalized intersection with Hwy 61
- 825th St closed at River Bridge and traffic detoured
- 3rd St closed, traffic allowed thru at Potter St.

Construction Staging

Staging - 2019 – Stage 3

Traffic

- Hwy 63 traffic remains on existing River Bridge and routed onto temporary bridge and button-hook ramp to new signalized intersection with Hwy 61
- Two lane traffic each way on Hwy 61
- 825th St closed at River Bridge and traffic detoured
- 3rd St and Bluff St open



Construction

- Construction of River Bridge
- Construct Hwy 63 in Wisconsin
- Construct 825th St W

Construction Staging

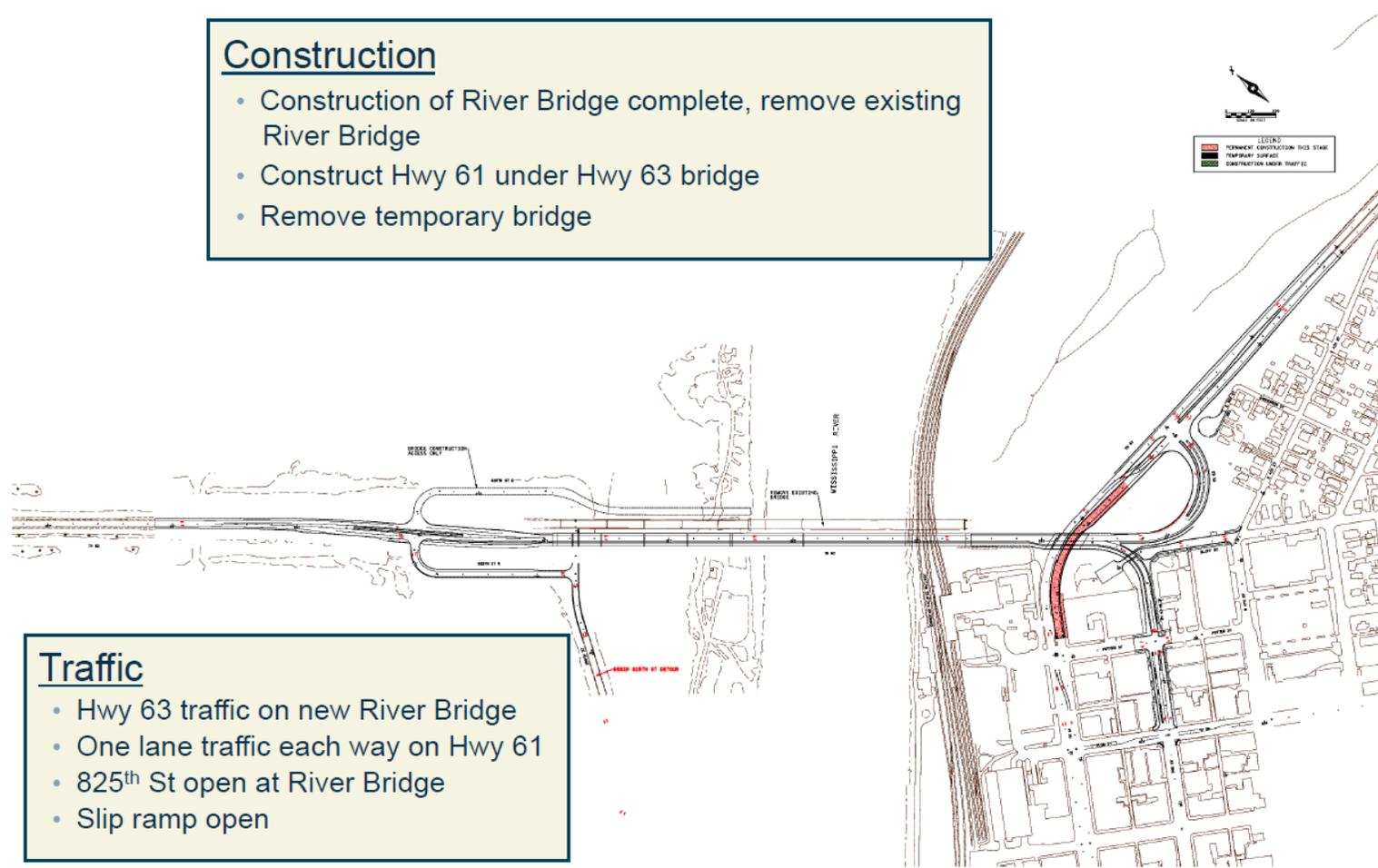
Staging - 2020 – Stage 4A

Construction

- Construction of River Bridge complete, remove existing River Bridge
- Construct Hwy 61 under Hwy 63 bridge
- Remove temporary bridge

Traffic

- Hwy 63 traffic on new River Bridge
- One lane traffic each way on Hwy 61
- 825th St open at River Bridge
- Slip ramp open



Construction Staging

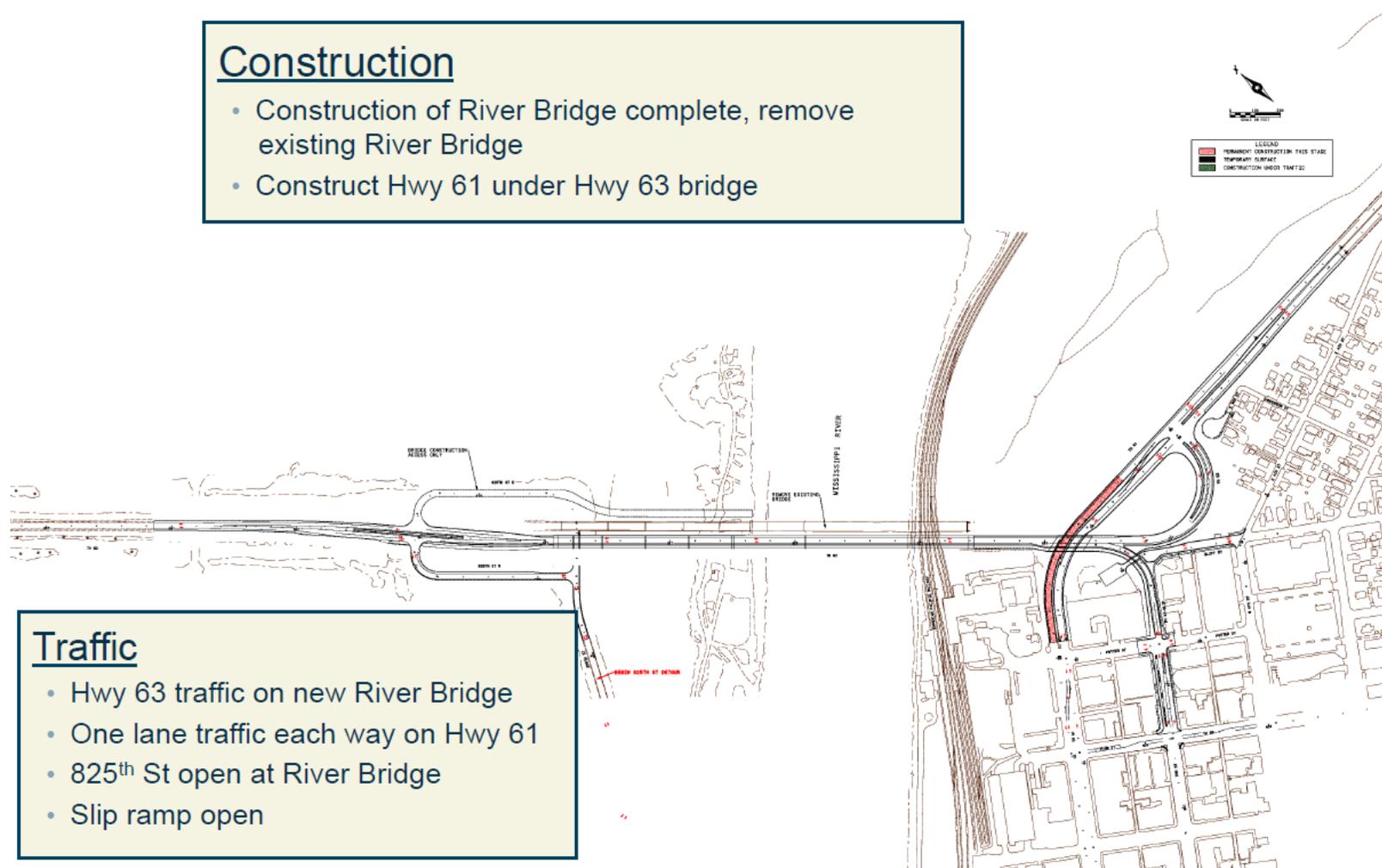
Staging - 2020 – Stage 4B

Construction

- Construction of River Bridge complete, remove existing River Bridge
- Construct Hwy 61 under Hwy 63 bridge

Traffic

- Hwy 63 traffic on new River Bridge
- One lane traffic each way on Hwy 61
- 825th St open at River Bridge
- Slip ramp open



Construction Staging

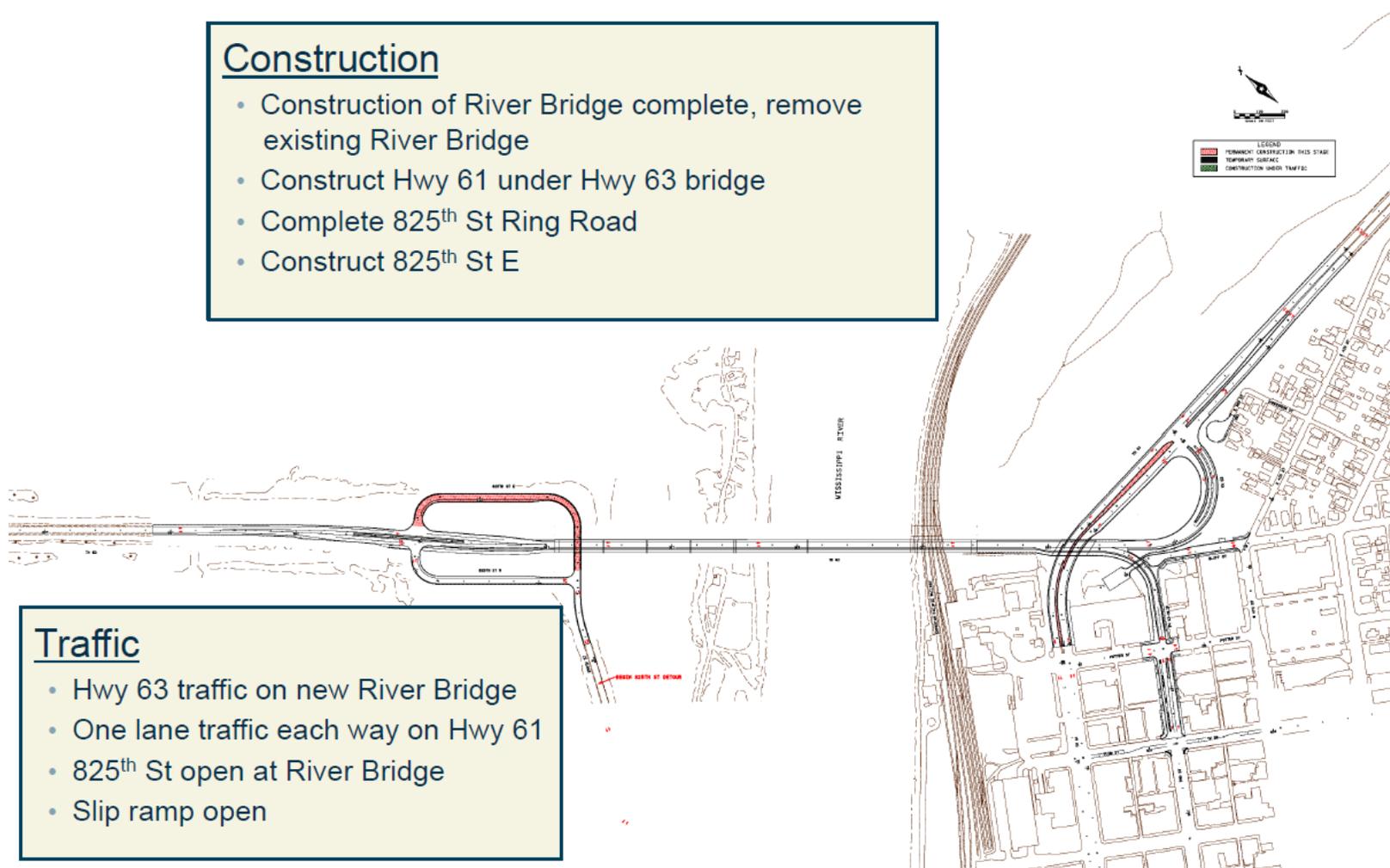
Staging - 2020 – Stage 5

Construction

- Construction of River Bridge complete, remove existing River Bridge
- Construct Hwy 61 under Hwy 63 bridge
- Complete 825th St Ring Road
- Construct 825th St E

Traffic

- Hwy 63 traffic on new River Bridge
- One lane traffic each way on Hwy 61
- 825th St open at River Bridge
- Slip ramp open





Public Outreach

Public Outreach

- Construction Start – Early May Possible.
- Hiring a Public Relations Consultant to Assist our Team.
- Extensive Outreach Necessary for Project Success.
- Project Facebook Page.
- Tree Removal Contract / Work.
- City Noise Ordinance.
- Emergency Responder Meetings Annually.
- Annual Events Coordination.
- Sidewalk Impacts and Coordination.
- Utility (Sewer and Water) Impacts and Coordination.



Thank you again!

Red Wing Bridge Construction Team

