



Winona Bridge Project City Council Briefing November 10, 2014

We all have a stake in **A  B**





Purpose of Briefing

- Update City Leadership on the Winona Bridge Project.
- Review the Visual Quality Recommendations as we continue our Cooperative Agreement efforts.
- Outline any necessary course corrections for Work Package #4 and beyond.
- No formal council actions requested.
- Feedback encouraged.



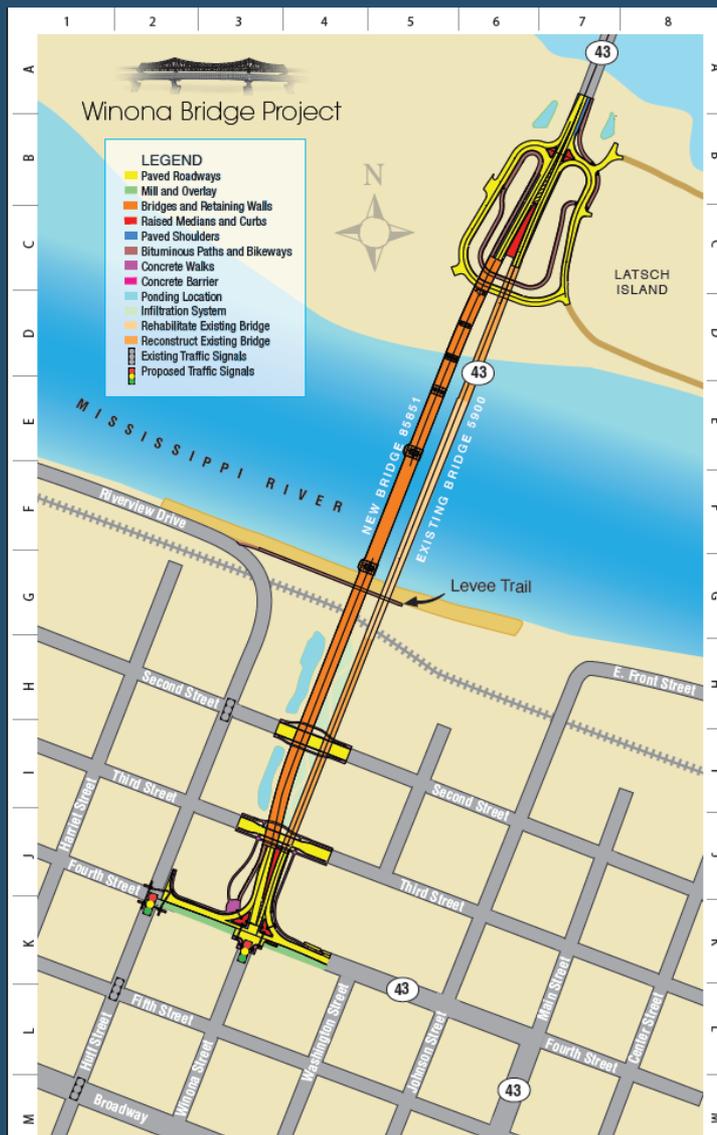


Outline

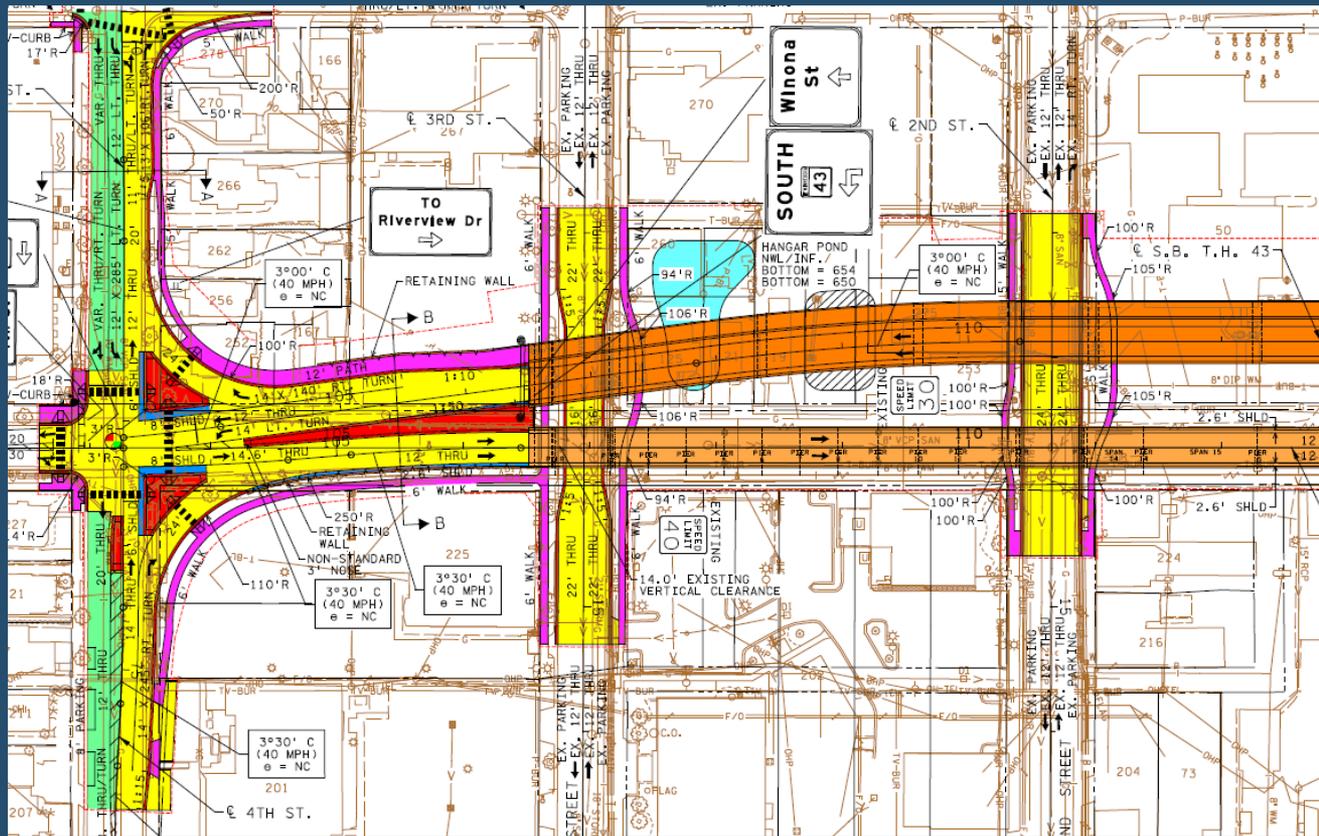
- Project Scope
- Project Status
- Visual Quality Committee
- Work Package #4 Cost/Ownership/Maintenance
- WP #5 Preview
- Construction Staging



Project Scope



Project Scope



Project Scope





Project Status

- Start Construction on the New Mississippi River Bridge as Exeditiously as Possible
 - (July 2014 to March 2015) – started in July 2014
- Move Traffic to the New Bridge as Exeditiously as Possible to Minimize the Likelihood of Detours Related to Bridge Maintenance Work on the Existing Structure.
 - Fall of 2016 (currently on schedule)
- Keep the River Crossing Open During Construction.





Project Status

○ Work Package #1

- 42" OEP Piling Procurement
- Letting: May 1st
- \$2.2 million
- No City Elements





Project Status

○ Work Package #2

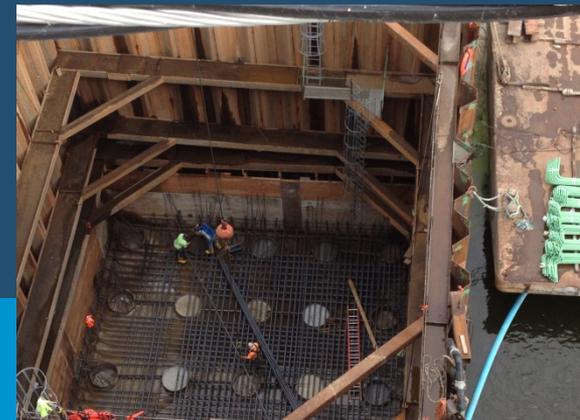
- Contractor Temporary Access
- Letting: May 15th
- Approx. \$3.45 million
- No City Elements





Project Status

- Work Package #3
 - Bridge 85851 River Substructures
 - Letting: July 15th
 - \$17.9 million
 - No City Elements





Project Status

- Work Package #4
 - Bridge 85851 Completion and Roadway
 - Letting: January 23, 2015
 - Start Work – Spring 2015
 - Cost Estimate: \$45-\$55 million
 - Cooperative Agreement Required
 - Detour Agreement Required

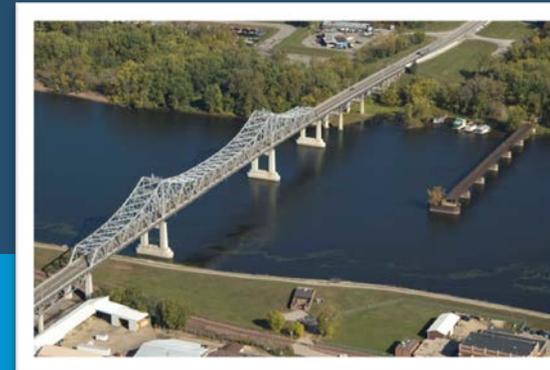




Project Status

○ Work Package #5

- Bridge 5900 Rehabilitation and Reconstruction
- Site Plans
- Letting: Winter 2015-2016
- Start Work – Fall 2016
- Cooperative Agreement Required.





Visual Quality Committee

MnDOT and
Consultant
Staff
Facilitating

VISUAL QUALITY REVIEW COMMITTEE



Local Representatives

- David Bittner, Chamber of Commerce
- Coleen Bremer
- Tom Choinski
- Vicki English, Chamber of Commerce
- Lynn Englund, Heritage Preservation Committee
- Pamela Eyeden, Winona City Council
- Peter Flick
- Jason Gilman, Winona County Planning
- Joanne Gove
- Jordan Hoel, Chamber of Commerce
- Mike Kennedy, Levee Park Committee
- Leone Mauszycki
- Liz Reach, Winona State student
- Dominic Ricciotti
- Peggy Sannerud, Winona State faculty
- Tom Stoa, Winona Bicycle Advisory Committee
- Jack Stoltman
- Chad Ubl, City of Winona



Visual Quality Committee Recommendations



COMMITTEE FOCUS TOPICS

VQRC Input Provided

- Bridge Piers
- Overlooks
- Bridge Abutments and Retaining Walls
- Railings and Barriers
- Pedestrian and Bicycle Circulation
- River Connections
- Lighting
- Landscaping
- Signage





Visual Quality Committee



Create a New Winona Bridge that is in Harmony with the Built and Natural Environment





Visual Quality Committee

- 11 Meetings
- Worked with 2 Consultant Teams
- Recommendations to City Staff/Council
- Voting by Consensus / Group Feedback
- Cost / Ownership / Maintenance - NOT CONSIDERED





W.P. #4 Cost / Ownership / Maintenance Elements

- Cooperative Agreement Between MnDOT and City Required.
- Prepared by MnDOT District 6.
- Submitted to MnDOT C.O. for Final Approval.
- What is Presented is MnDOT D6 Efforts.
- Subject to C.O. Final Review and Approval.
- Three Main Areas:
 - 1) Bridge Aesthetic Elements
 - 2) Roadway Aesthetic Elements
 - 3) Non-Aesthetic and/or Operational Elements





Bridge Aesthetic Elements





W.P. #4 Cost / Ownership / Maintenance Elements

Bridge Aesthetic Elements

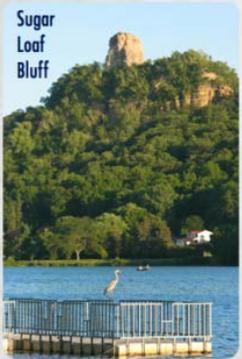
- MnDOT D6 Staff Feel all Bridge Aesthetic Elements will fit within the Cooperative Agreement Guidelines and be Paid for by MnDOT as Part of the Project Costs.
- Handouts



W.P. #4 Cost / Ownership / Maintenance Elements

Organic Nature

Winona, Minnesota



Organic Nature Inspiration Latsch Island Trees



Sweeping Curves
Layers of Trunks and Branches, Arching Forms



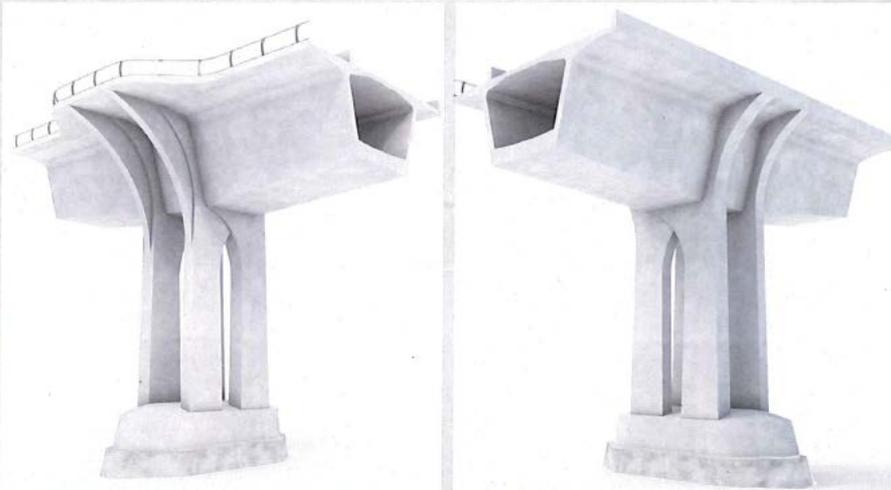
W.P. #4 Cost / Ownership / Maintenance Elements

Organic Nature

Pier Concept D- “Organic Nature”



Main River Piers



Pier Concept D- “Organic Nature”



Beam Piers



W.P. #4 Cost / Ownership / Maintenance Elements

Overlooks

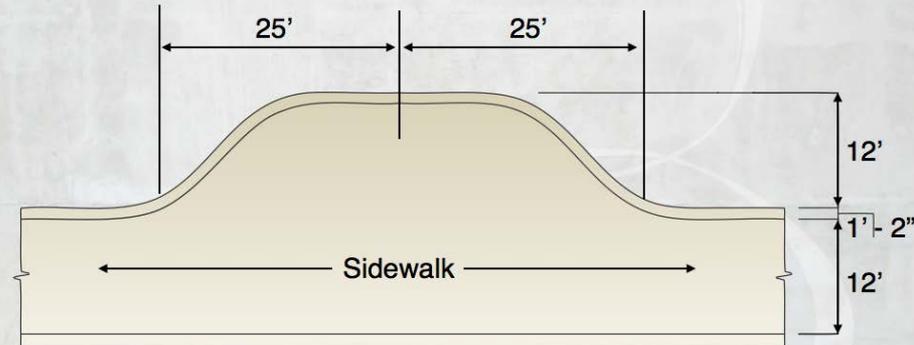
Pier Concept D– “Organic Nature”



Overlooks



Overlooks to be provided at the main river piers
Preferred size 50' long x 12' wide (450 sf)



Overlook to be refined with pier shapes



W.P. #4 Cost / Ownership / Maintenance Elements

Railings

Pedestrian Railing

Three pedestrian railing types: 4'-6" High Typical Railing
6'-0" High Typical Railing

← Latsch Island Winona →

4' - 6" High Railing * 6' - 0" High Railing

Main River Piers (with overlooks) RR Tracks

Pedestrian railing is along west side of new bridge

* 6' - 0" high railing approved by railroad (8' - 0" normally required)



W.P. #4 Cost / Ownership / Maintenance Elements

Railings

Typical 4'-6" Railing (Concrete Curb)



W.P. #4 Cost / Ownership / Maintenance Elements

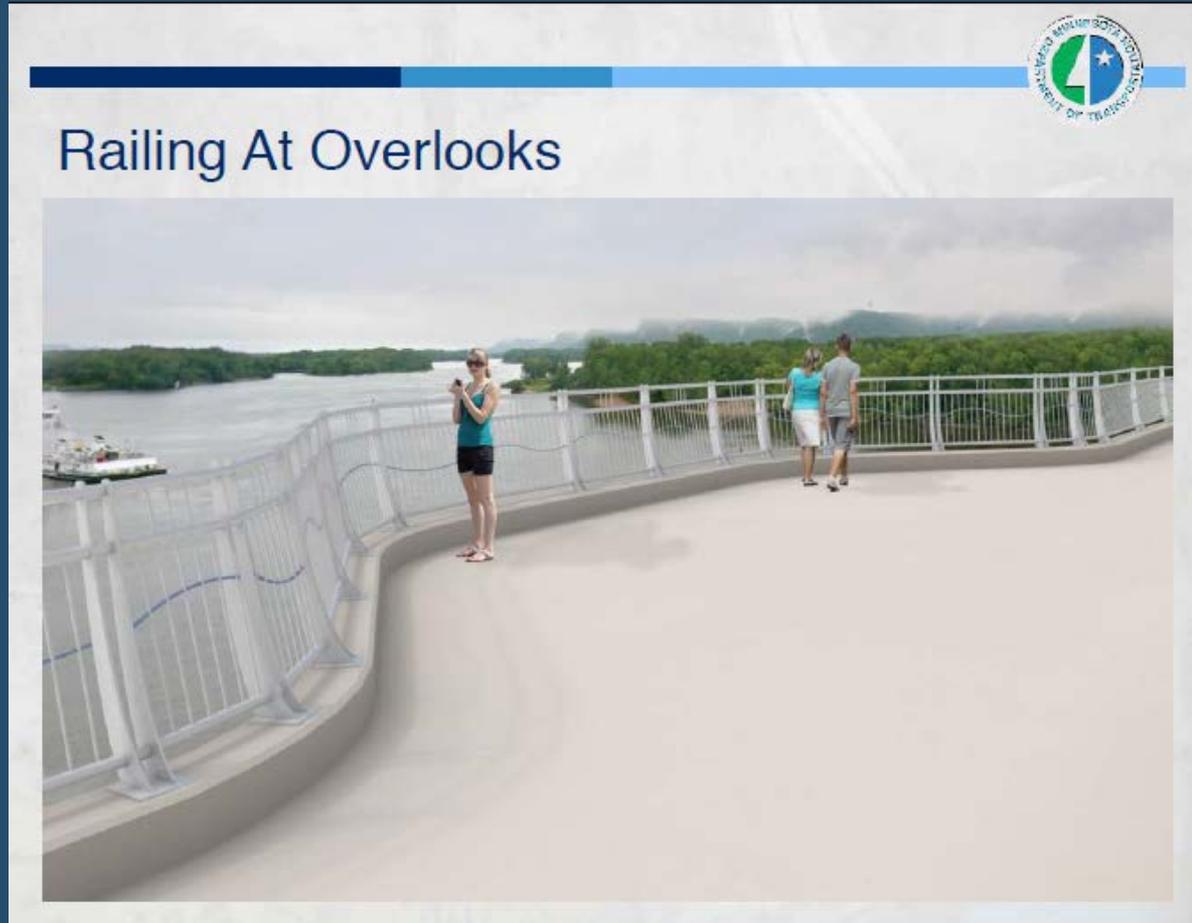
Railings

Typical 6'-0" Railing



W.P. #4 Cost / Ownership / Maintenance Elements

Railings



W.P. #4 Cost / Ownership / Maintenance Elements

Railings

Railing Color



W.P. #4 Cost / Ownership / Maintenance Elements

Pilasters

South Abutment



W.P. #4 Cost / Ownership / Maintenance Elements

Abutment Treatments



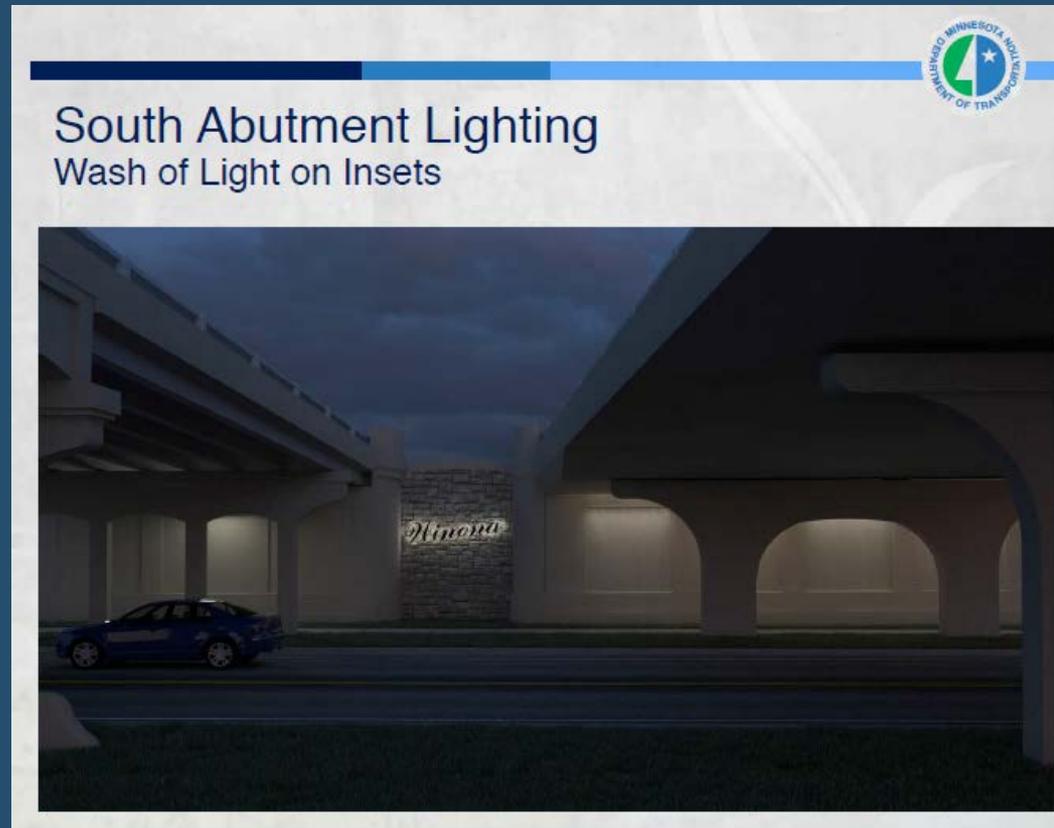
W.P. #4 Cost / Ownership / Maintenance Elements

Abutment Treatments



W.P. #4 Cost / Ownership / Maintenance Elements

Abutment Treatments



W.P. #4 Cost / Ownership / Maintenance Elements

Abutment Treatments



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Deck and Trail)

Aviation and
Navigational Lighting –
MnDOT Systems



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Deck and Trail)



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Deck and Trail)



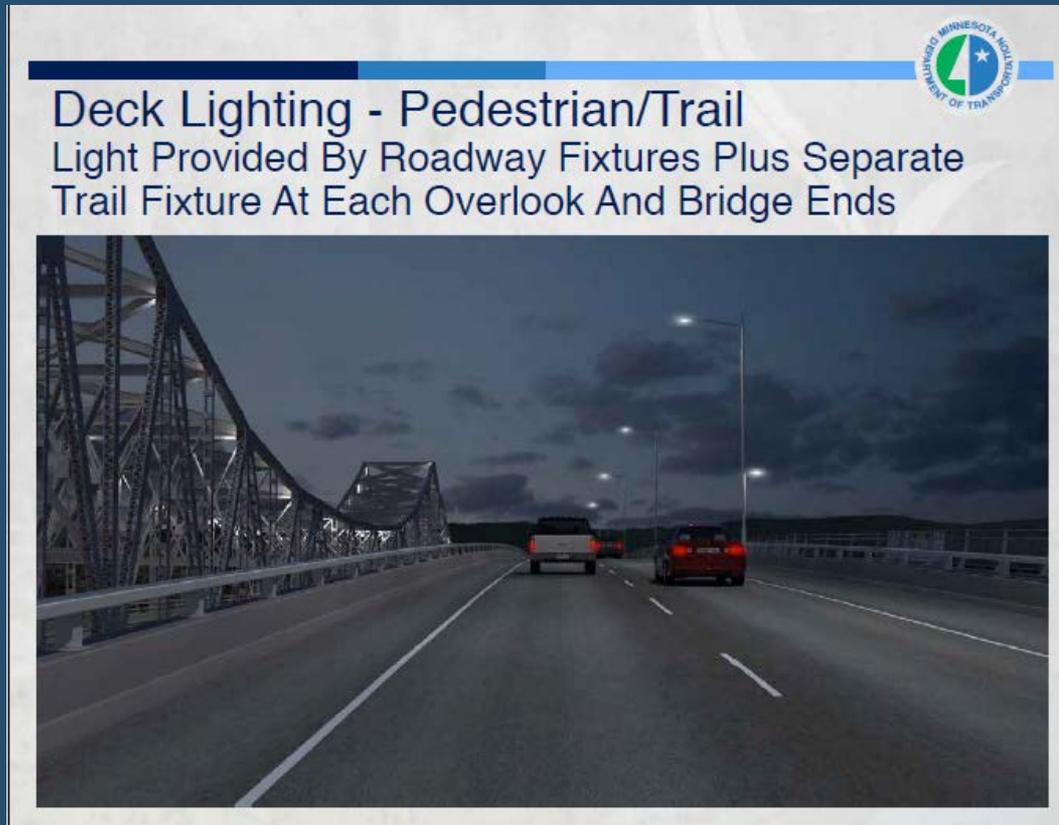
W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Deck and Trail)



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Deck and Trail)



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 5900 (Deck)

Plus Lights in
Through Truss
Vertical Members



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 5900 (Aesthetic – WP #5)

Lighting - Aesthetic

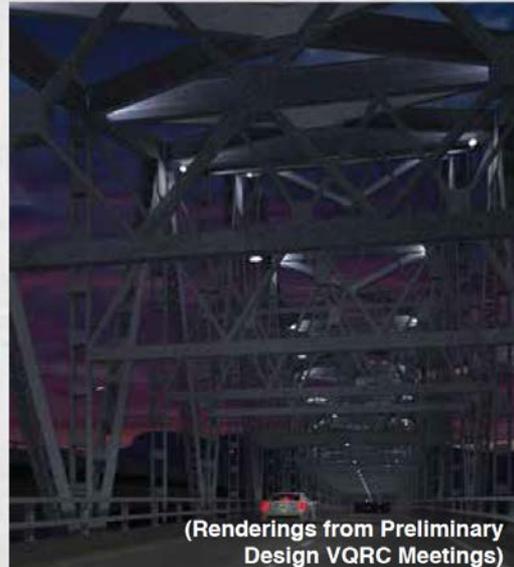


Existing Bridge

LED dimable
white lights

Light truss interior
by washing interior
side of truss members
with light

Wash of light on
main pier and south
approach pier faces



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 5900 (Aesthetic – WP #5)

LIGHTING

Night Views 



View of Bridges Looking Upstream
(Existing Bridge in Foreground)

Winona Bridge Visual Quality Review Committee Meeting 7

Slide 38



W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 5900 (Aesthetic – WP #5)

LIGHTING Night Views 



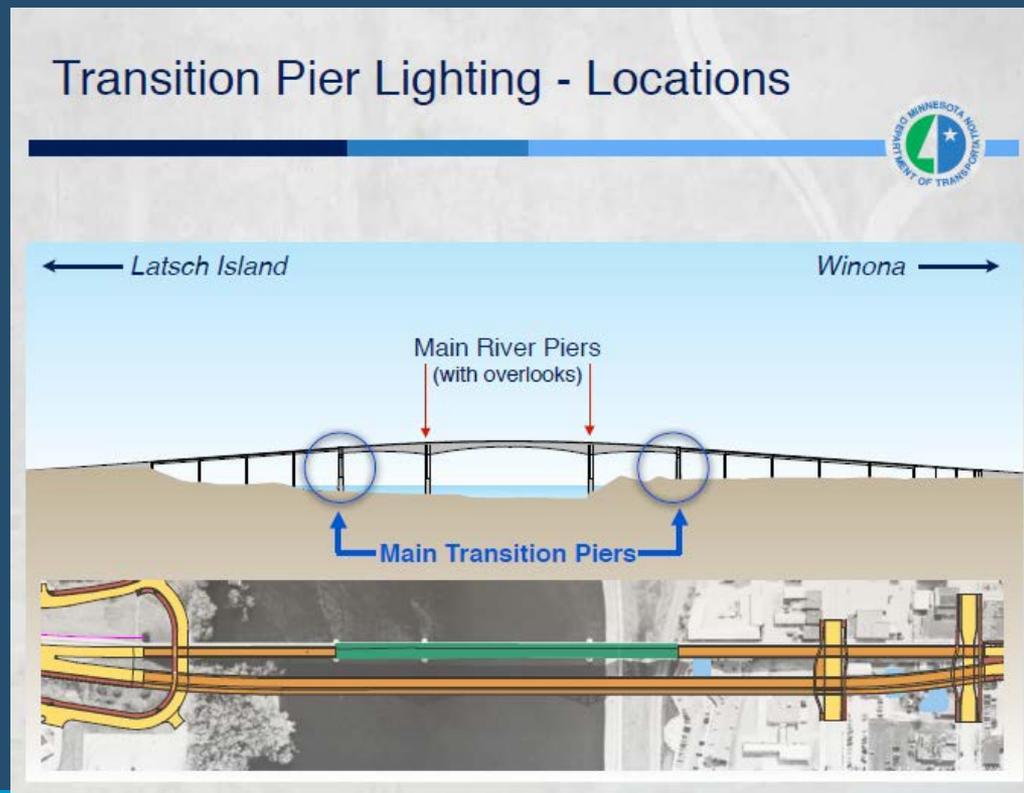
View of Bridges Looking Downstream
(New Bridge in Foreground / Proposed Trailhead not Illustrated)

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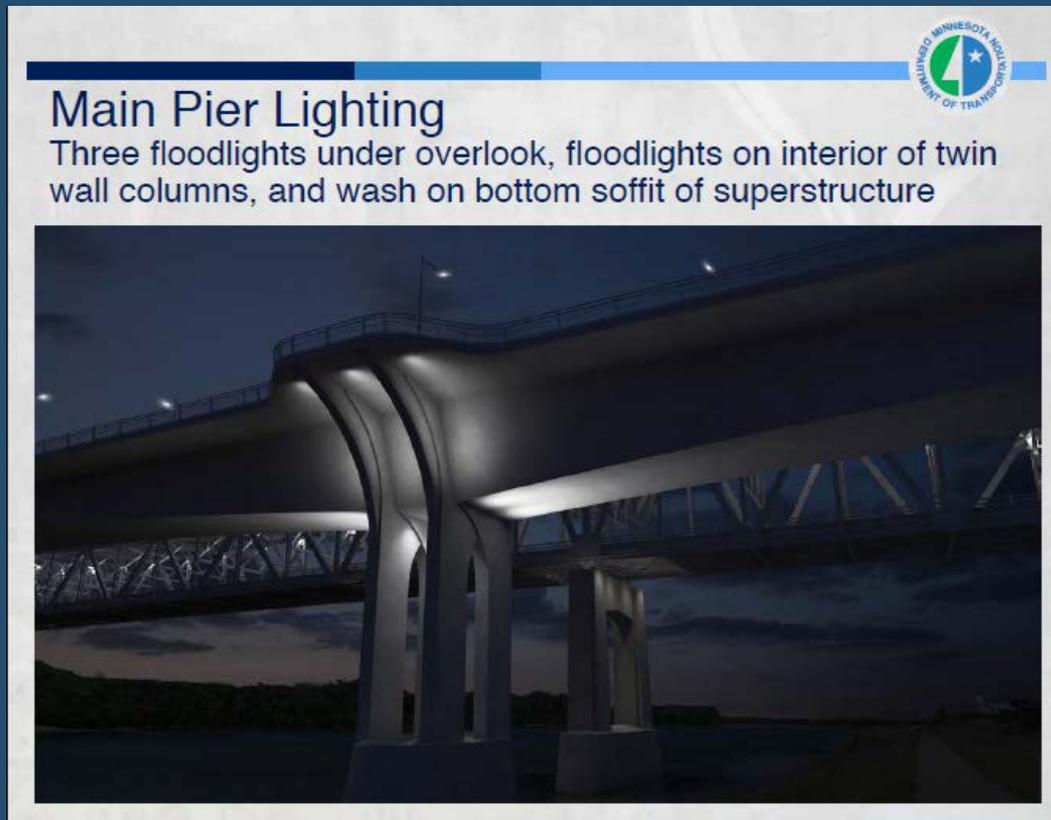
W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Aesthetic)



W.P. #4 Cost / Ownership / Maintenance Elements

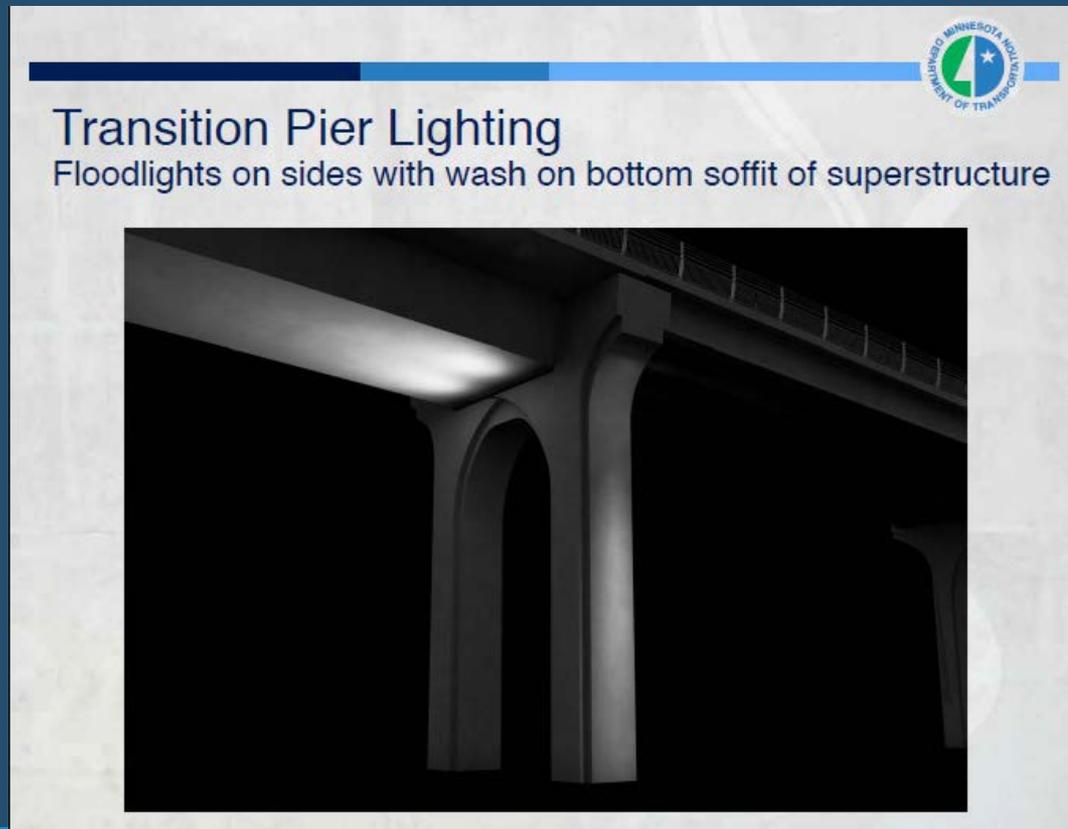
Lighting Bridge 85851 (Aesthetic)





W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Aesthetic)





W.P. #4 Cost / Ownership / Maintenance Elements

Lighting Bridge 85851 (Aesthetic)





W.P. #4 Cost / Ownership / Maintenance Elements

Roadway Aesthetic Elements



W.P. #4 Cost / Ownership / Maintenance Elements

- Enhanced Railing off Bridge along Retaining Walls.



W.P. #4 Cost / Ownership / Maintenance Elements

- Non-Bridge Retaining Wall Treatments.





W.P. #4 Cost / Ownership / Maintenance Elements

Roadway Non-Aesthetic or Operational Elements





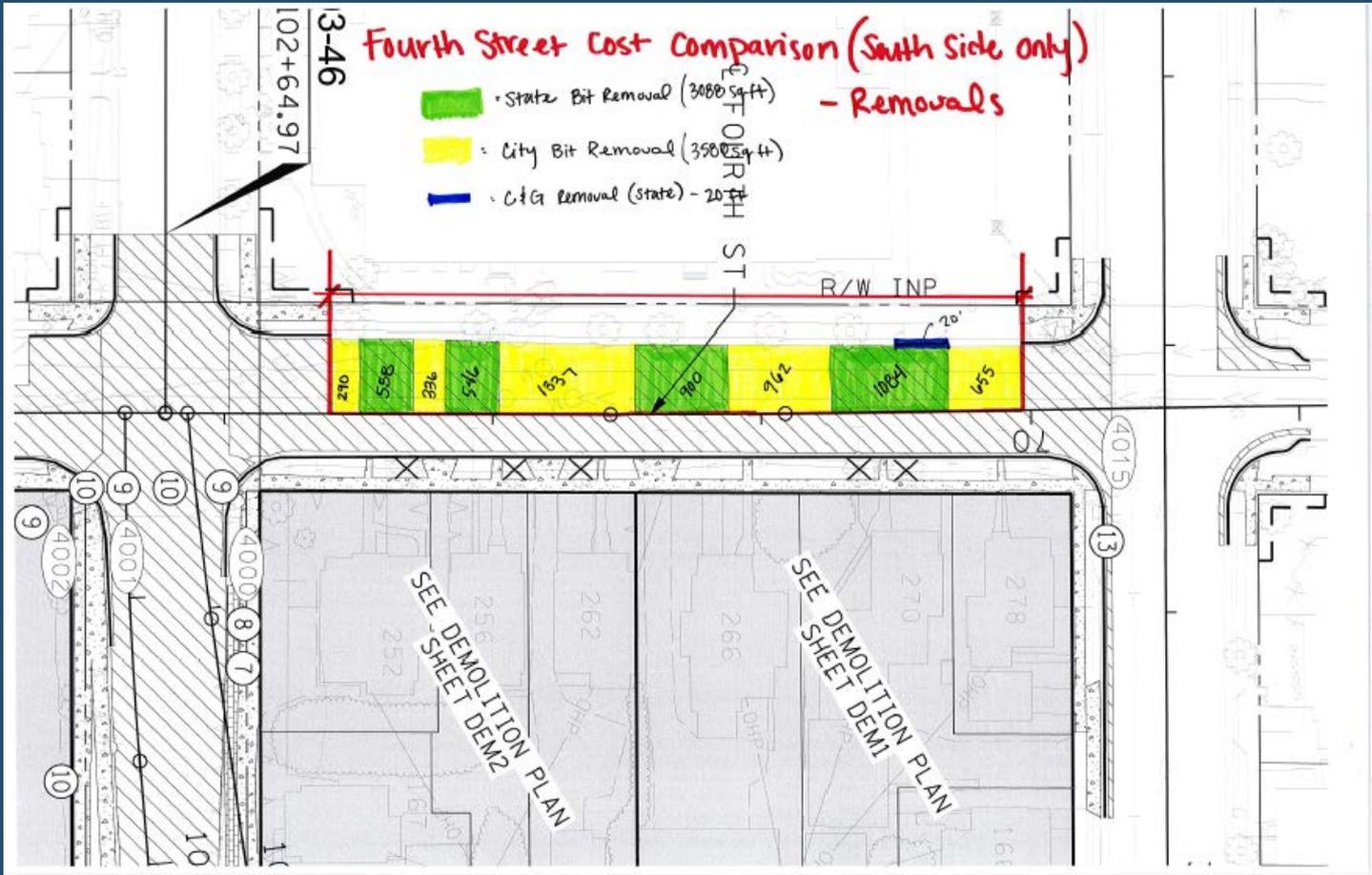
W.P. #4 Cost / Ownership / Maintenance Elements

- Signal at TH 43 / 4th/ Winona (50/50 Cost Split)
- Signal at 4th – Huff (75/25 Cost Split)
- 4th Street Roadway Reconstruction
- Parking Spaces along TH 43

MnDOT D6 Staff feel the City can use State Aid Funding for most, if not all, of the above items.



W.P. #4 Cost / Ownership / Maintenance Elements





W.P. #4 Cost / Ownership / Maintenance Elements

- Sidewalks, Storm Sewer, Sanitary and Water
- South Side Stormwater Ponds
- Sand Revenue Generation



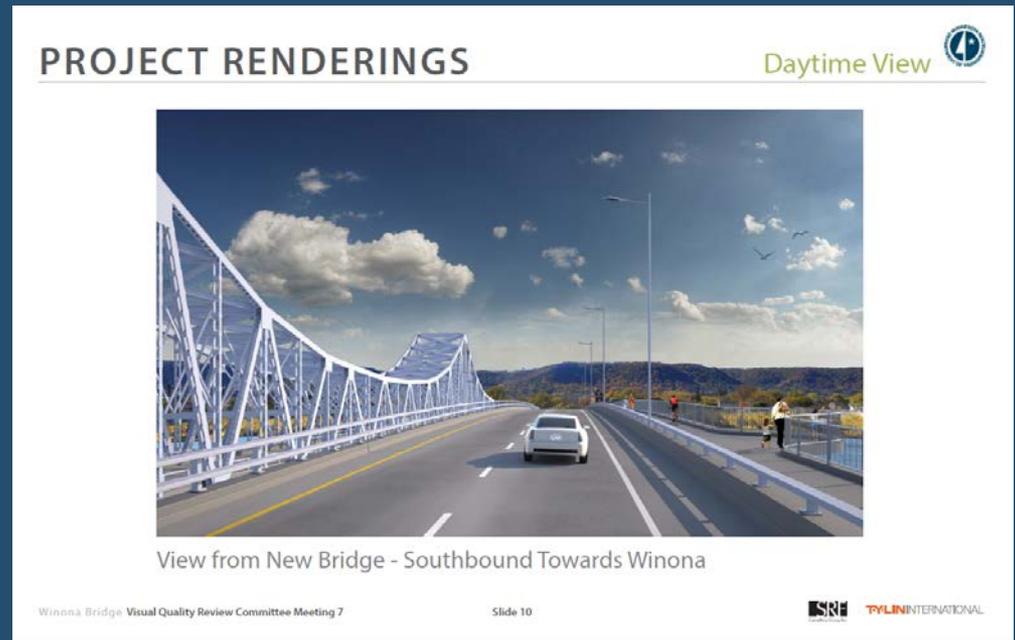
W.P. #4 Cost / Ownership / Maintenance Elements

Operational Items

- Bridge Bike Trail

Potential
Maintenance
Exchange

Trail vs. Aesthetic
Lighting





W.P. #5 Preview

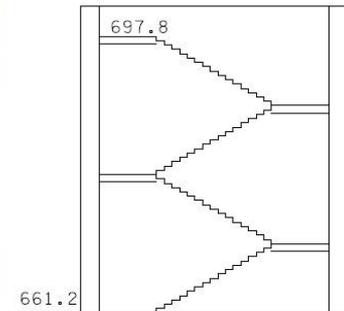
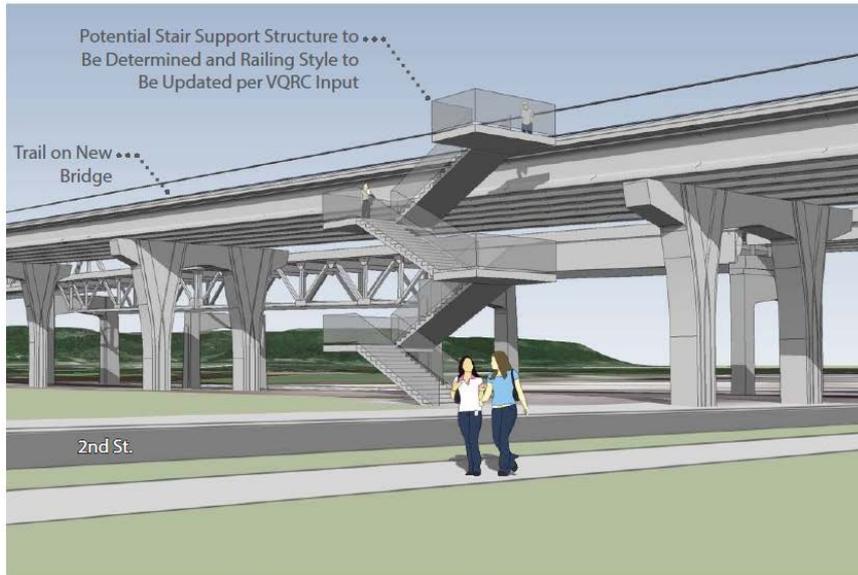
- Staircase (Operational Element)
- Site Plans
- Latsch Island Trail Fencing
- Latsch Island Bike Segment
- State Entry Signing / Site Elements
- Color



W.P. #5 Preview

PEDESTRIAN/BICYCLE CIRCULATION

S. Approach 



Overall Stair Size

Height - 37'

Length - 30'

Width - 15'

Note: Stair structure and railing design is shown only in conceptual detail to illustrate approximate size



WP #5 Preview

RIVER CONNECTION/LANDSCAPING

S. Approach



WP #5 Preview



W.P. #5 Preview

RIVER CONNECTION

Ground Level Concept A2



View from Trailhead on Levee

Winona Bridge Visual Quality Review Committee Meeting 5

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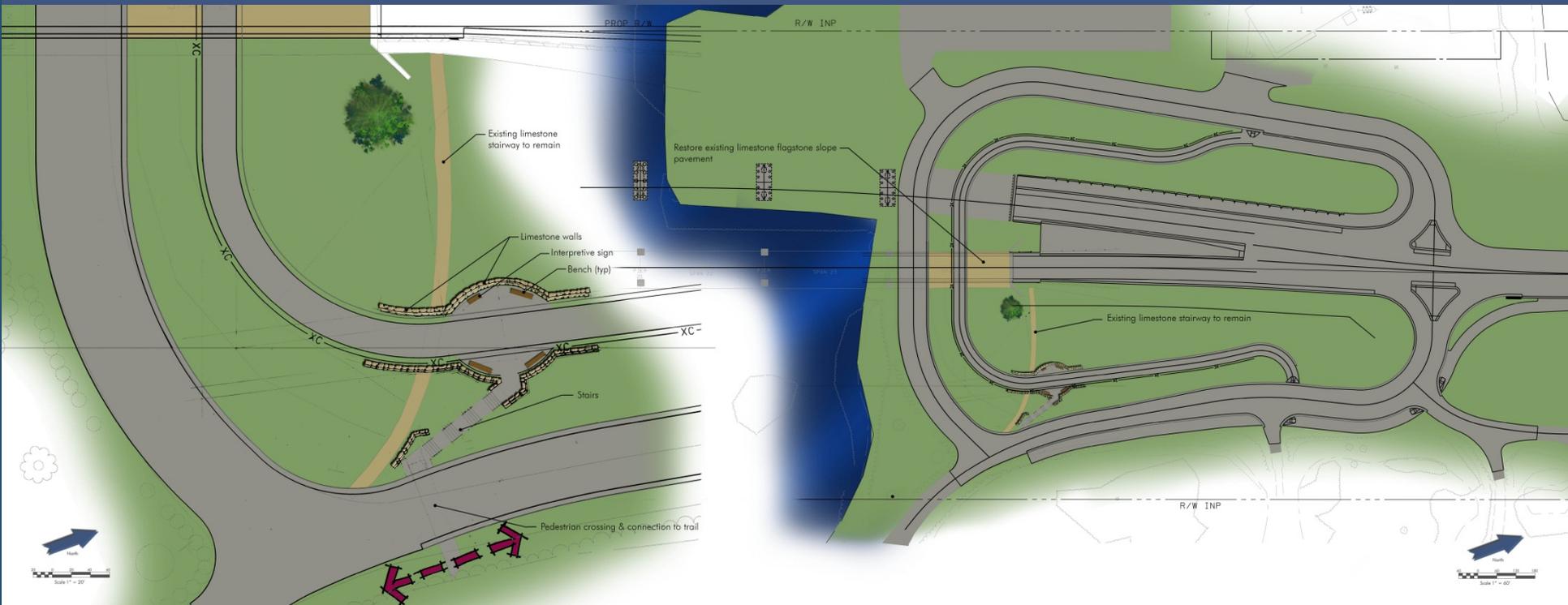
TYLIN INTERNATIONAL



W.P. #5 Preview



WP #5 Preview



W.P. #5 Preview

SIGNAGE

North Approach Area



Existing Type 3 Sign

Note: Further input from MnDOT's Site Development Unit that manages State Entry Signs statewide is required.



Type 1 Sign



Type 2 Historic Sign



W.P. #5 Preview



Match Existing Bridge Color (with photo)



Existing Bridge Color
177,165,146



W.P. #5 Preview



Match Existing Bridge Color



W.P. #5 Preview



Match Existing Bridge Color



W.P. #5 Preview



New Bridge "Light Buff"



New Bridge “Light Buff”





Construction Staging

Parking Under Existing Bridge to stop on March 1, 2015





Questions?

