



S.P. 8503-46 (TH 43) Winona Bridge Project
Mississippi River in Winona
Council Briefing
August 18, 2014

Your Destination... Our Priority





Cooperative Agreement Background

- MnDOT Base Elements
 - Bridge 85851 Elements Required from Bridge 5900.
 - Bridge 85851 Standard Bridge Railings.
 - Bridge 85851 Standard Bridge Lighting.
 - Standard Roadway Lighting.
 - Site Surface Treatments Under Bridges.
 - Site Historical Mitigations.
 - Drainage Ponds For MnDOT Drainage.



Cooperative Agreement Background

- Base Elements – Bridge 5900





Cooperative Agreement Background

- Base Elements – Bridge 5900



Cooperative Agreement Background

Pier Concept D— “Organic Nature”



Beam Piers



Potential Bridge Aesthetic Elements

- Pier Shapes

Not Considered
Aesthetic
Elements

Bridge Pier Concepts Discussion

Previous Concepts



Concept A - "Historical"



Concept B - "Organic"

Refined Concepts



Concept C - "Modern Tribute"



Concept D - "Organic Nature"





Potential Bridge Aesthetic Elements

- Bridge Sidewalk

Not Considered
Aesthetic
Elements –
sidewalk exists.

PROJECT RENDERINGS

Daytime View 



View from New Bridge - Southbound Towards Winona



Potential Bridge Aesthetic Elements

- Colors

Not Considered Aesthetic Elements.

COLOR

Color Concept B 



Main Piers - Summer



Main Piers - Winter

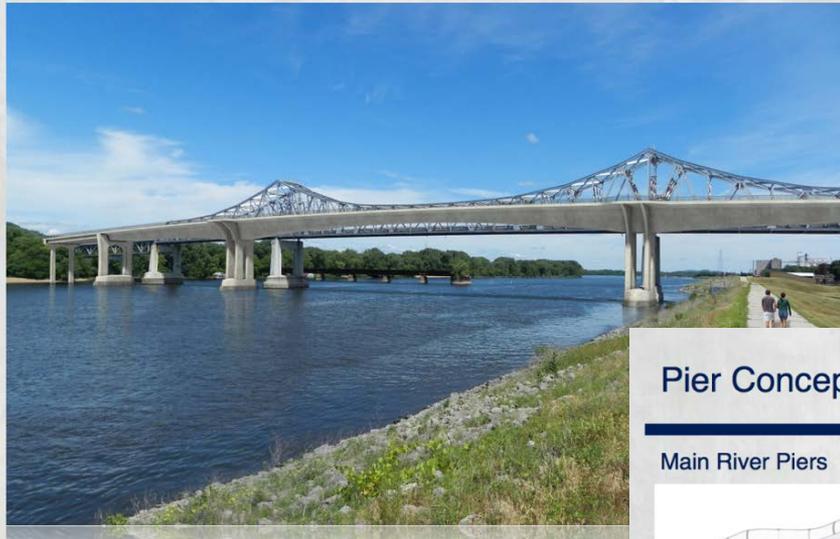


Potential Bridge Aesthetic Elements

- Overlooks

Considered
Aesthetic
Elements.

Pier Concept D– “Organic Nature”



Pier Concept D– “Organic Nature”



Main River Piers



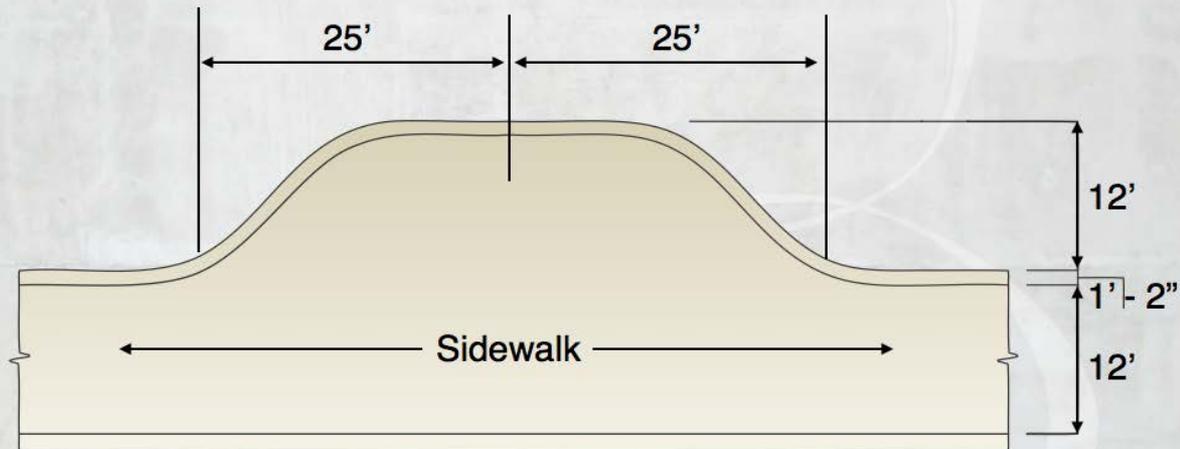
Potential Bridge Aesthetic Elements

- Overlooks

Considered
Aesthetic
Elements.

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



Potential Bridge Aesthetic Elements

- Railings

Considered Aesthetic Elements, if upgraded from Standard.

Typical Railing Discussion

Color

Single Color



Blue Accent



6'-0" Verticals

One Set



Multiple Sets



Potential Bridge Aesthetic Elements

- Overlook Railings

Considered Aesthetic Elements, if upgraded from Standard.

Accent Panels at Overlook Discussion

Same as Typical Railing



Clear Panels



Paddle Wheel (With Clear Panels)



Potential Bridge Aesthetic Elements

- Pilasters

Considered
Aesthetic
Elements.



Updated Abutment



Potential Bridge Aesthetic Elements

- Bridge Abutments

Considered Aesthetic Elements, if upgraded from Standard.



Potential Bridge Aesthetic Elements

- Bridge Lighting

Considered
Aesthetic
Elements.

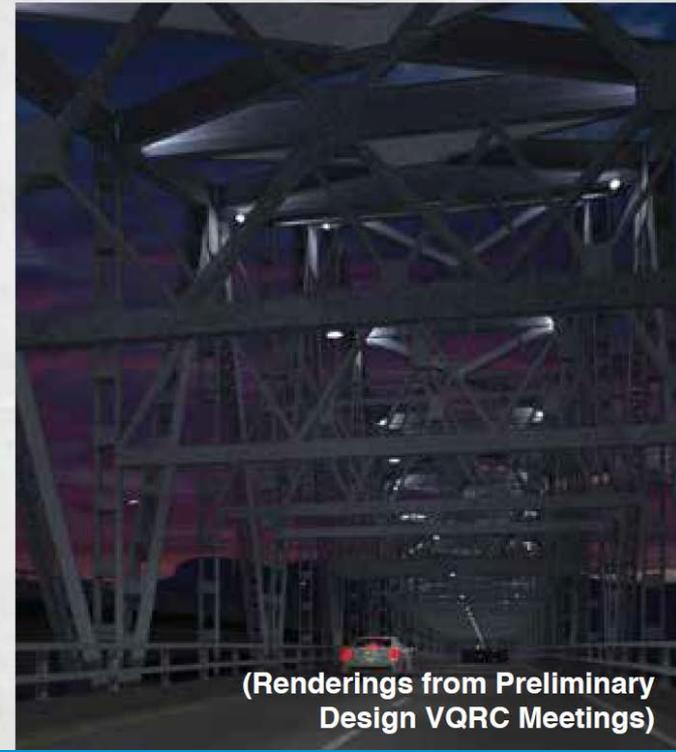
Lighting - Aesthetic

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



(Renderings from Preliminary
Design VQRC Meetings)



Potential Bridge Aesthetic Elements

- Bridge Lighting

Considered
Aesthetic
Elements.

LIGHTING

Night Views



View of Bridges Looking Upstream
(Existing Bridge in Foreground)



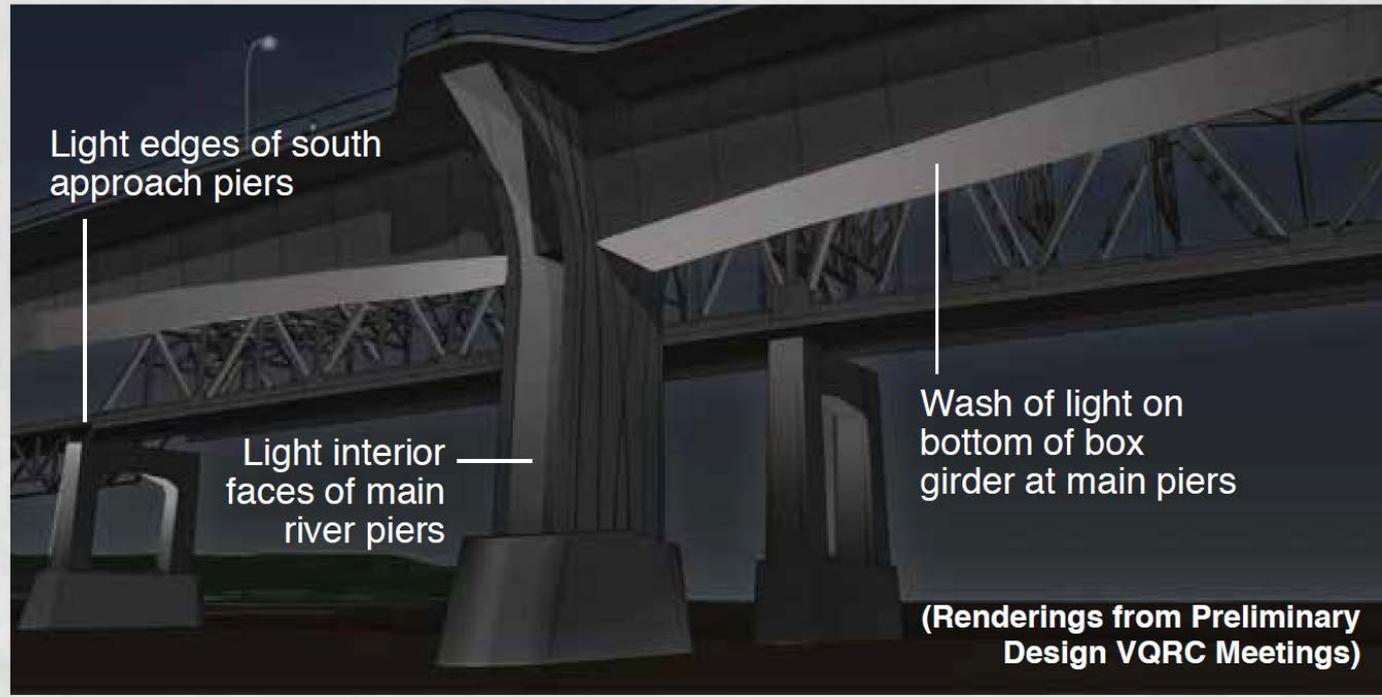


Potential Bridge Aesthetic Elements

- Bridge Lighting

Considered Aesthetic Elements.

Lighting - Aesthetic



Light edges of south approach piers

Light interior faces of main river piers

Wash of light on bottom of box girder at main piers

(Renderings from Preliminary Design VQRC Meetings)

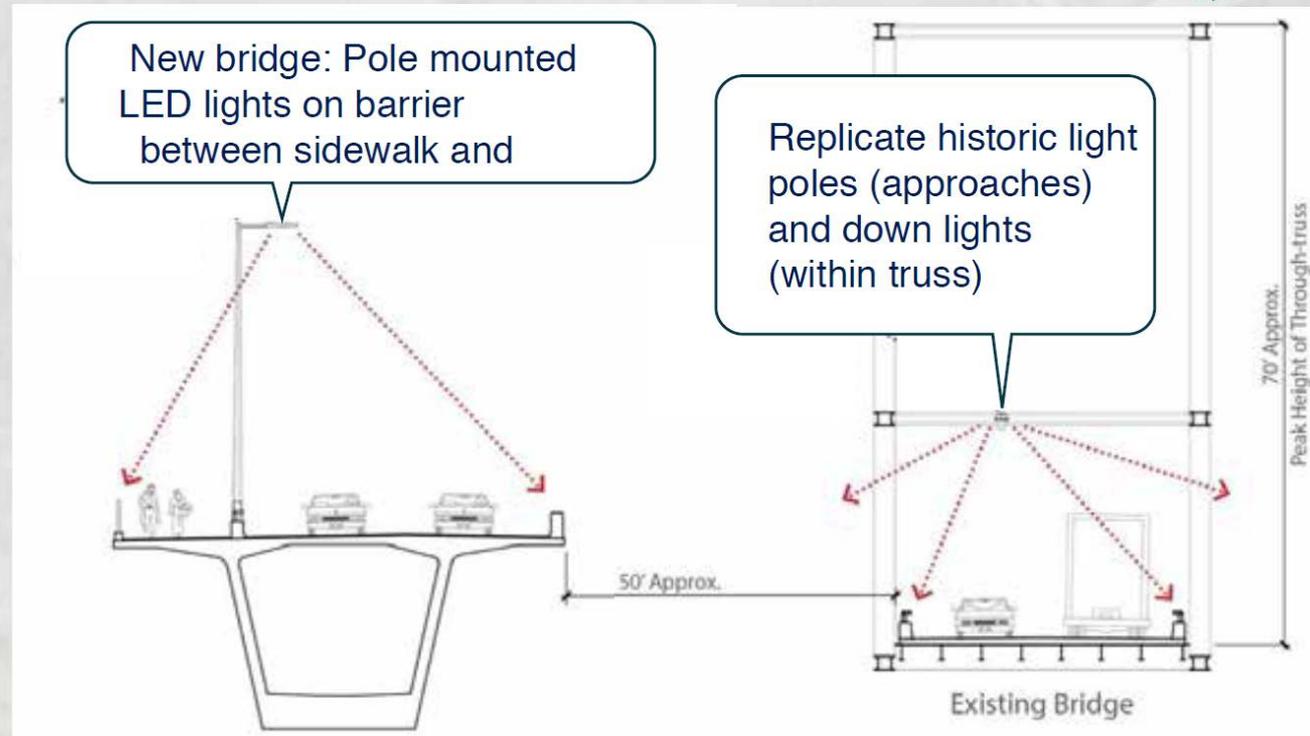


Potential Bridge Aesthetic Elements

- Bridge Lighting

Considered Aesthetic Elements, if upgraded from Standard.

Lighting - Roadway



Project Background – Site Development

RIVER CONNECTION/LANDSCAPING

S. Approach



Project Background – Site Development



Project Background – Site Development

RIVER CONNECTION/LANDSCAPING

N. Approach



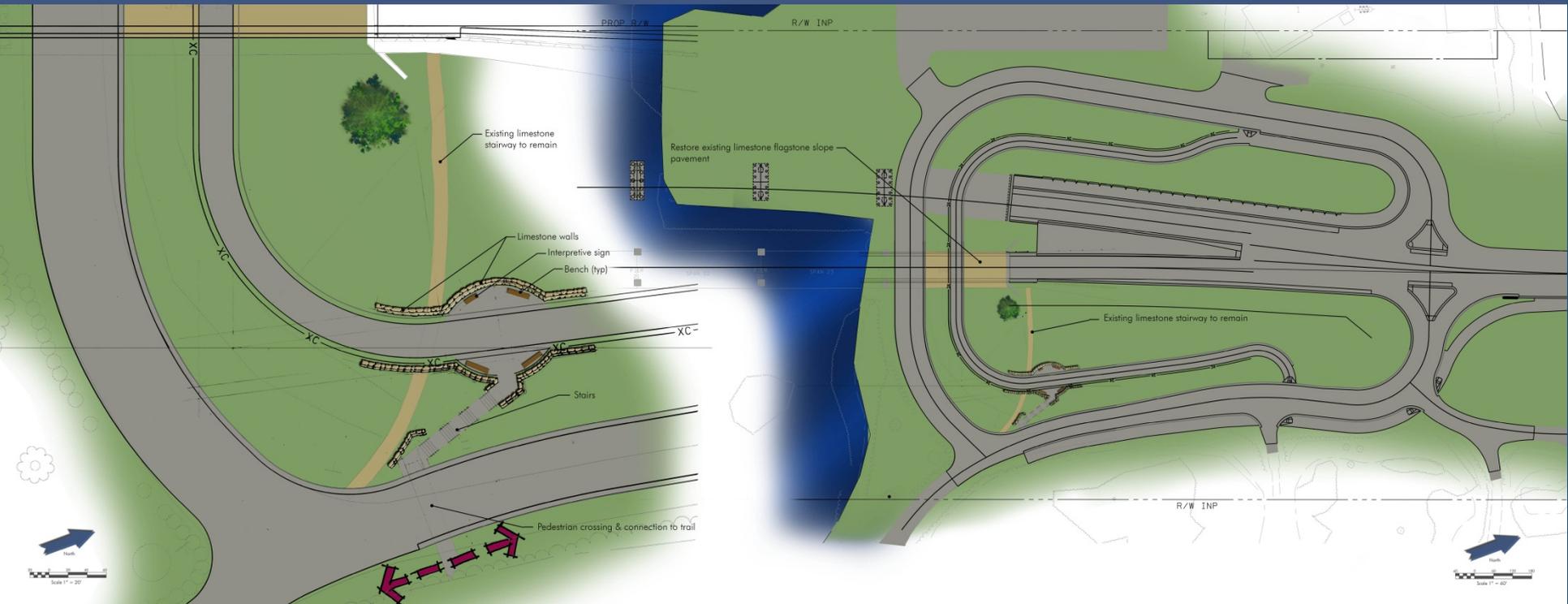
..... 100 Year Flood Elevation

..... Trail Under Bridges

..... Tree and Shrub Massings and Native Prairie Seeding



Project Background – Site Development



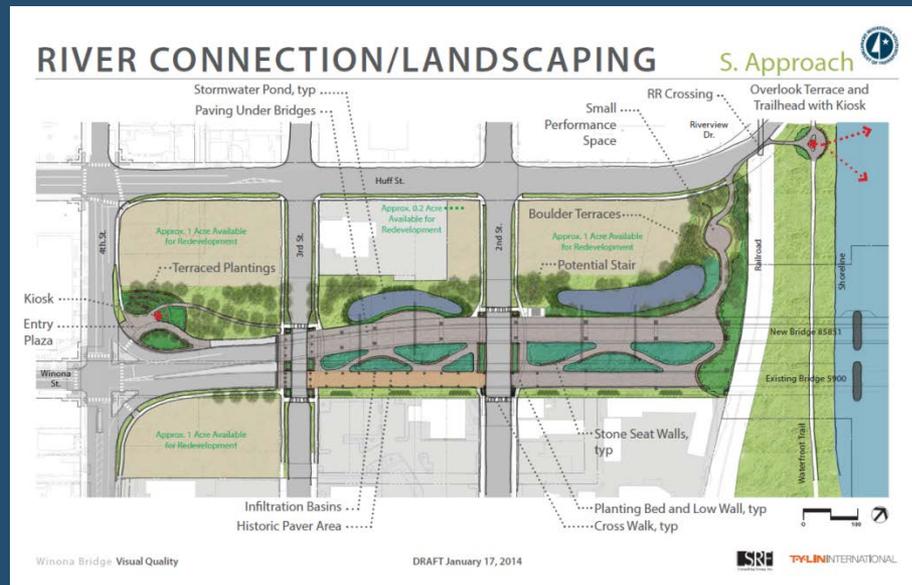
North Abutment Winona Bridge



Potential Roadway Aesthetic Elements

- Site Development - South

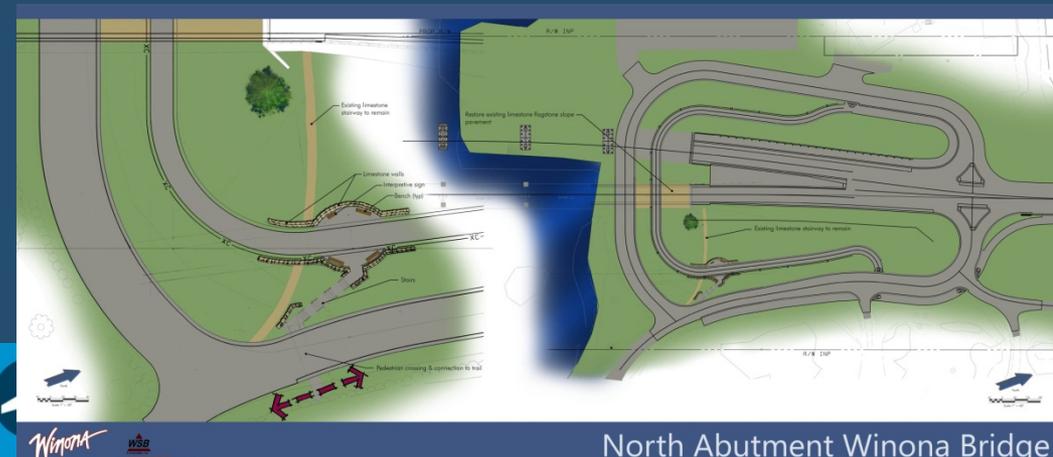
Considered Aesthetic Elements



Potential Roadway Aesthetic Elements

- Site Development - North

Some Items Considered Aesthetic Elements



North Abutment Winona Bridge

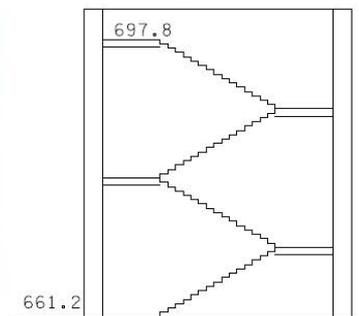
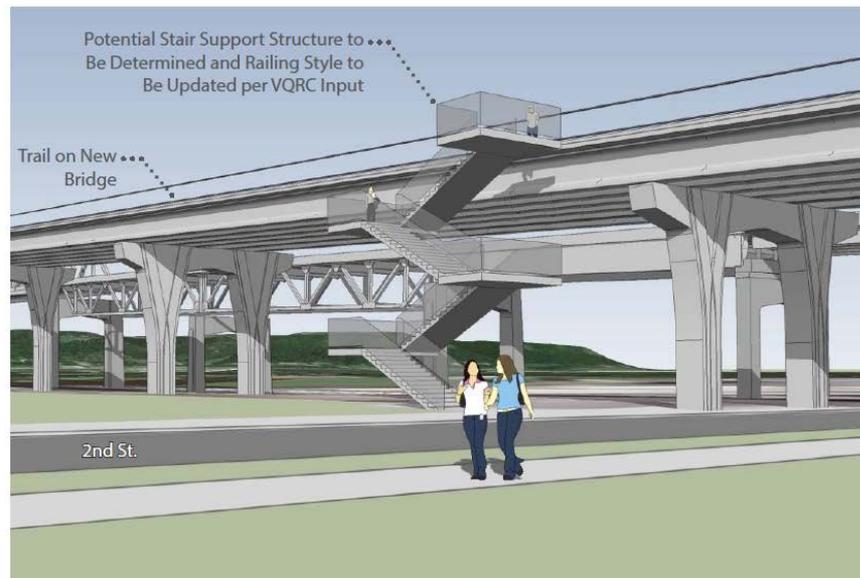
Potential Bridge Aesthetic Elements

- Staircase

Considered
Operational
Element

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

