Belmont Bridge Replacement

Board Of Architectural Review Meeting

August 20, 2019
Introduction

August 20, 2019 BAR: Plan Updates

- Southwest stair design
- Site Lighting
- Crash rated, removable bollard locations
- Site Furniture
- Crosswalks - material update
- Southwest parking lot - material update
- Bridge parapet wall and railings
- Bike Runnel @ Stairs
- Retaining wall design
- Knuckle design
- CSX fencing
Lighting Types

PREVIOUS Pedestrian Light (Landscape Forms FGP)

PROPOSED Pedestrian Light (Kim Lighting Ouro)

Note:
The current intent for the Belmont Bridge project is to use the same Site Light Fixture family as East High Streetscape.

- 12’ Ht. Mounting Height used for Pedestrian Light
- 3000K Color Temperature
- Color: Graphite
- Round pole used for Pedestrian Light
- Dark Sky Compliant
Lighting

Site and Accent

Recessed Wall Fixtures at Knuckle (No handrail accent lighting)
Urban Design – Removable Bollards @ Southwest Passageway

(4) CRASH RATED M-50, REMOVABLE BOLLARDS AT SW PASSAGEWAY ENTRY

SLEEVE FINISH: POWDERCOATED STORMCLOUD GREY

PREVIOUS BOLLARD
UNRATED, REMOVABLE, INTERNAL LOCK
LANDSCAPE FORMS – SENTINEL BOLLARD

PROPOSED CRASH RATED BOLLARD
Calpipe - M-50 Rated Bollard-Storm Cloud Grey Sleeve
Urban Design – Removable Bollards @ Northeast Passageway

(4) CRASH RATED M-50, REMOVABLE BOLLARDS AT NE PASSAGEWAY ENTRY

SLEEVE FINISH: POWDERCOATED STORMCLOUD GREY

PREVIOUS BOLLARD
UNRATED, REMOVABLE, INTERNAL LOCK
LANDSCAPE FORMS – SENTINEL BOLLARD

PROPOSED CRASH RATED BOLLARD
Calpipe – M-50 Rated Bollard-Storm Cloud Grey Sleeve
Urban Design - Site Materials

Scored Concrete Crosswalks Bordered with High Visibility Striping. *CityMix ‘Omaha Tan’ Color Concrete

**PREVIOUS Crosswalk** (Scored Concrete)

High Visibility Crosswalk: Thermoplastic Striping
City Standard Crosswalk Treatment

**PROPOSED Crosswalk** (Thermoplastic Striping)
Urban Design - Site Furnishings

Current Selection (Basis of Design)

Landscape Forms - FGP Backed Bench

Current Selection (Basis of Design)

Forms and Surfaces:
Dispatch Trash Receptacle

Current Selection (Basis of Design)

Landscape Forms - MultiCITY Bike Racks

NOTE:
1. All Site Furniture to receive a Dark Gray (Storm Cloud) finish.
2. The current intent for the Belmont Bridge project is to use the same Site Furniture family as the West Main Street Streetscape and East High Street Streetscape projects.
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Current Selection (Basis of Design)
Forms and Surfaces: Dispatch Trash Receptacle

Alternate 1 (Potential Equal)
Thomas Steele - Chandler Trash Receptacle

Alternate 2 (Potential Equal)
Anova - Metrix Trash Receptacle

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Current Selection (Basis of Design)

Landscape Forms - MultipliCITY Bike Racks

Alternate 1 (Potential Equal)

Forms + Surfaces - Cordia Bike Rack

Alternate 2 (Potential Equal)

Anova - Allure Bike Rack

NOTE:
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Railings: Bridge Parapet and Approaches

PROPOSED Axon View

2” x 4” Elliptical rail on ½” tapered steel bar stanchions mtd. to embed plate in parapet wall

PREVIOUS Axon View

2.5” x 4” Elliptical leaning rail on ½” tapered steel bar stanchions mtd. to embed plate in parapet wall
Railings: Bridge Parapet and Approaches

**PROPOSED Section**

**PREVIOUS Section**
Railings: Bridge Parapet and Approaches

PROPOSED Elevation

PREVIOUS Elevation
Railings: Stairs, Ramps and Mezzanine

Stock stainless steel tube and cable mesh system

½" stl bar ptd. w/ railing and mounting brackets to be fabricated

Axon of Railing and Brackets

Stock ‘Jakob Rope System’ w/ Frame
Water St – West Railings: Stairs, Ramps and Mezzanine

Axon of Railing and Brackets

Stock ‘Jakob Rope System’ w/ Frame
Bike Runnel: At Concrete Stairs

4" WIDE BIKE RUNNEL, FLUSH WITH NOSE OF STAIR TREADS

Precedent Image of Bike Runnel at stair cheek wall
Retaining Walls: Perspectives

Southwest Elevation of Bridge Wall

Panel Enlargement

- Color: Silversmoke 8084 Grey (Davis Colors)
Knuckle Design: Site Plan
Knuckle Design: Illustrative Sections

Knuckle Section A1-A2 - Looking East

Knuckle Section B1-B2 - Looking East
Knuckle Design: Perspectives

ILLUSTRATIVE VIEW OF KNUCKLE FROM WATER STREET-LOOKING EAST

VIEW OF KNUCKLE FROM BELOW – AXON VIEW

PEGNSPECTIVE VIEW

KEY PLAN
Buckingham Branch Railroad is tentatively supportive of elimination of the railroad fencing with the consideration of several stipulations:

- CCTV monitoring via video cameras on the bridge
- Liability agreement between the railroad companies and City (pending City Attorney review)
- Design of fencing including a bride design that will not preclude the installation
- CSX approval required (won’t be known until just prior to construction)
CSX Fencing:

Application of Jakob System w/ curved tube frame

Jakob Rope System w/ Frame
Thank you....
Walls: South West Elevation

Note:
Wall elevation to depict length and height of wall only. Architectural treatment for walls and stairs shall be as shown on Slide 19 and as directed by the BAR in 2018.
Walls: South East Elevation

Note:
Wall elevation to depict length and height of wall only. Architectural treatment shall be as shown on Slide 19 and as directed by the BAR in 2018.
Walls: South Abutment Elevations

Note:
Abutment elevation to depict length and height of abutment only. Architectural treatment of abutment shall be as directed by the BAR in 2018.
**Walls: North East Elevation**

**Note:**
Wall elevation to depict length and height of wall only. Architectural treatment for walls and stairs shall be as shown on Slide 19 and as directed by the BAR in 2018.
Walls: North Abutment Elevations

Note: Abutment elevation to depict length and height of abutment only. Architectural treatment of abutment shall be as directed by the BAR in 2018.