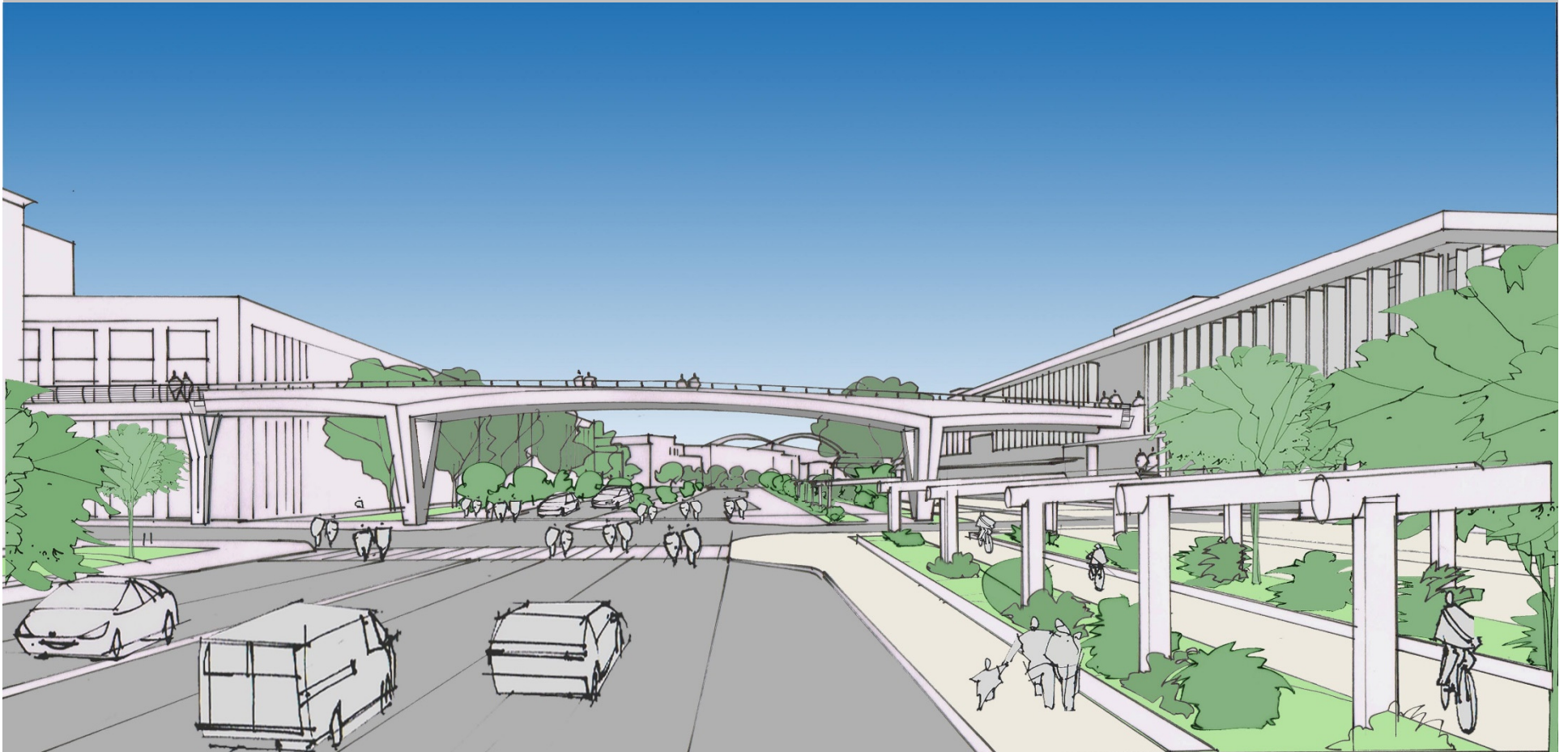


Marion Street Pedestrian Bridge

Seattle Design Commission

October 4th, 2018



A map of the Seattle waterfront area. The map shows a grid of streets including S. Washington St., Yesler Way, Columbus, Mario, Madison, Spring, and Seneca St. Pier 48 is labeled in the upper left, and Pier 55 is labeled in the upper right. A blue rectangular box is overlaid on the map, containing three numbered design goals. The background of the map is a light blue color, and the streets are shown in white with black outlines. The piers are shown as grey structures extending into the water.

Bridge Design Goals

1. Provide grade separated connection for patrons of Colman Dock Facility which improves dock operations and pedestrian circulation.
2. Provide a cost-effective, durable and context sensitive bridge solution which enhances the Waterfront as a place for people.
3. Enhance the City of Seattle Colman Dock Hub Strategy which creates a critical connection point between WSF, Transit, Streetcar, and support other hubs at King Street Station and Westlake.

The background of the slide is a photograph of a city skyline, likely San Francisco, viewed from across a body of water. The skyline includes several tall buildings, with the Transamerica Pyramid being prominent on the left. The water in the foreground is blue, and a few boats, including a sailboat, are visible. The sky is blue with some white clouds. A dark grey rectangular box in the top right corner contains the title "Bridge Design Criteria" in white text.

Bridge Design Criteria

1. Minimum width between railings: 16'-0"
2. Minimum height of railings: 42"
3. Minimum Alaskan Way Roadway Clearance: 20'-0"
4. Promenade Clearance: 14'-0" to 16'-0"
5. Minimum number of piers in the right of way
6. Safety and Aesthetic Lighting
7. Details and materials compatibility with Colman Dock Ferry Terminal

The background of the slide is a photograph of the Seattle skyline and waterfront. The sky is filled with large, white, fluffy clouds. In the foreground, the water of the harbor is visible, with a small white sailboat on the right side. The city skyline, including several tall skyscrapers, is visible in the background, partially obscured by a blue semi-transparent rectangle that contains the text.

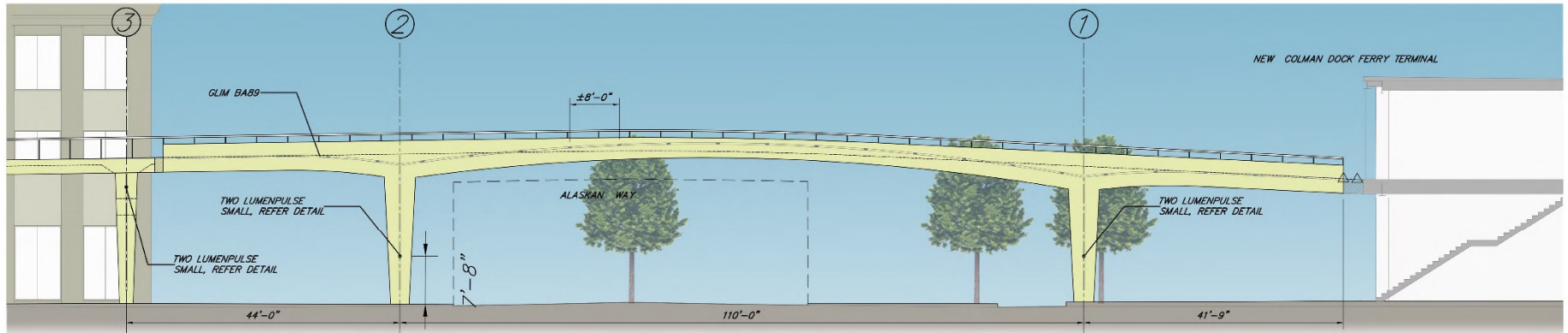
Agenda – Seattle Design Commission Comments

1. Lighting Design.
2. Vertical Circulation and Connectivity. Stair and Elevator Access Signage.
3. Promenade Level Column Placement. Overall Column Design and V Piers.
4. Interim Period Transition between Existing and New Bridge.
5. Sustainability Strategy.
6. Transition at Colman Dock Ferry Terminal.
7. Intersection at 1st Ave. and Marion St.
8. Funding Sources for Entire Bridge.
9. Pedestrian Scale Artwork for Potential Future Phase.
10. Next steps – 60% and 90% final plans.

1. Lighting Design.

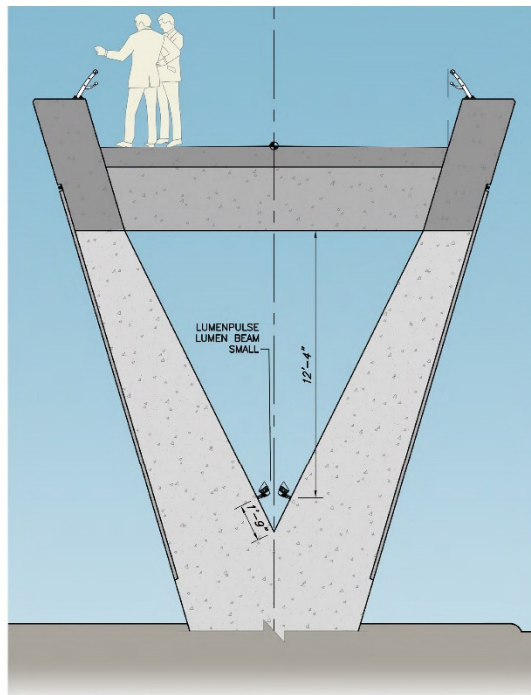


Lighting Design – Initial Design



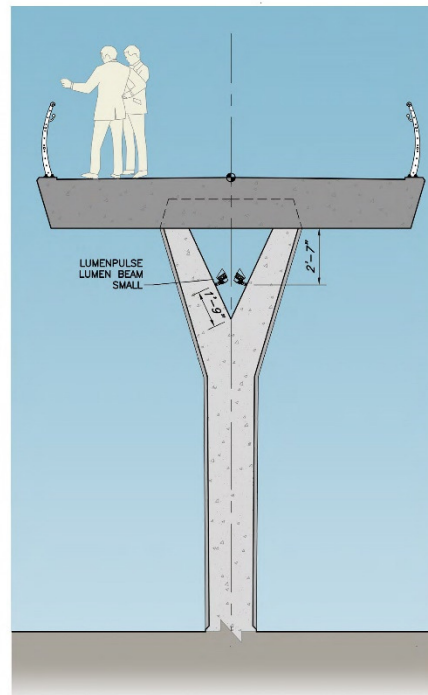
Elevation Lighting - Main Span

SCALE: 1/8" = 1'



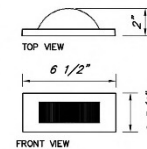
Pier Lighting (Typical of two)

SCALE: 3/8" = 1'



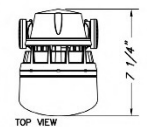
Ramp Pier Lighting (Typical of five)

SCALE: 3/8" = 1'



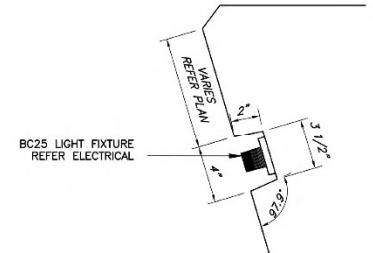
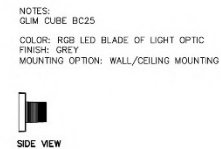
Reveal Light Fixture

SCALE: 3" = 1'



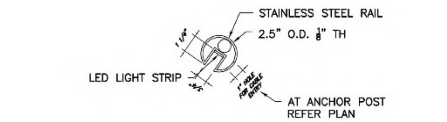
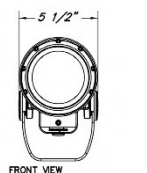
Pier Light Fixture

SCALE: 3" = 1'



Reveal Lighting

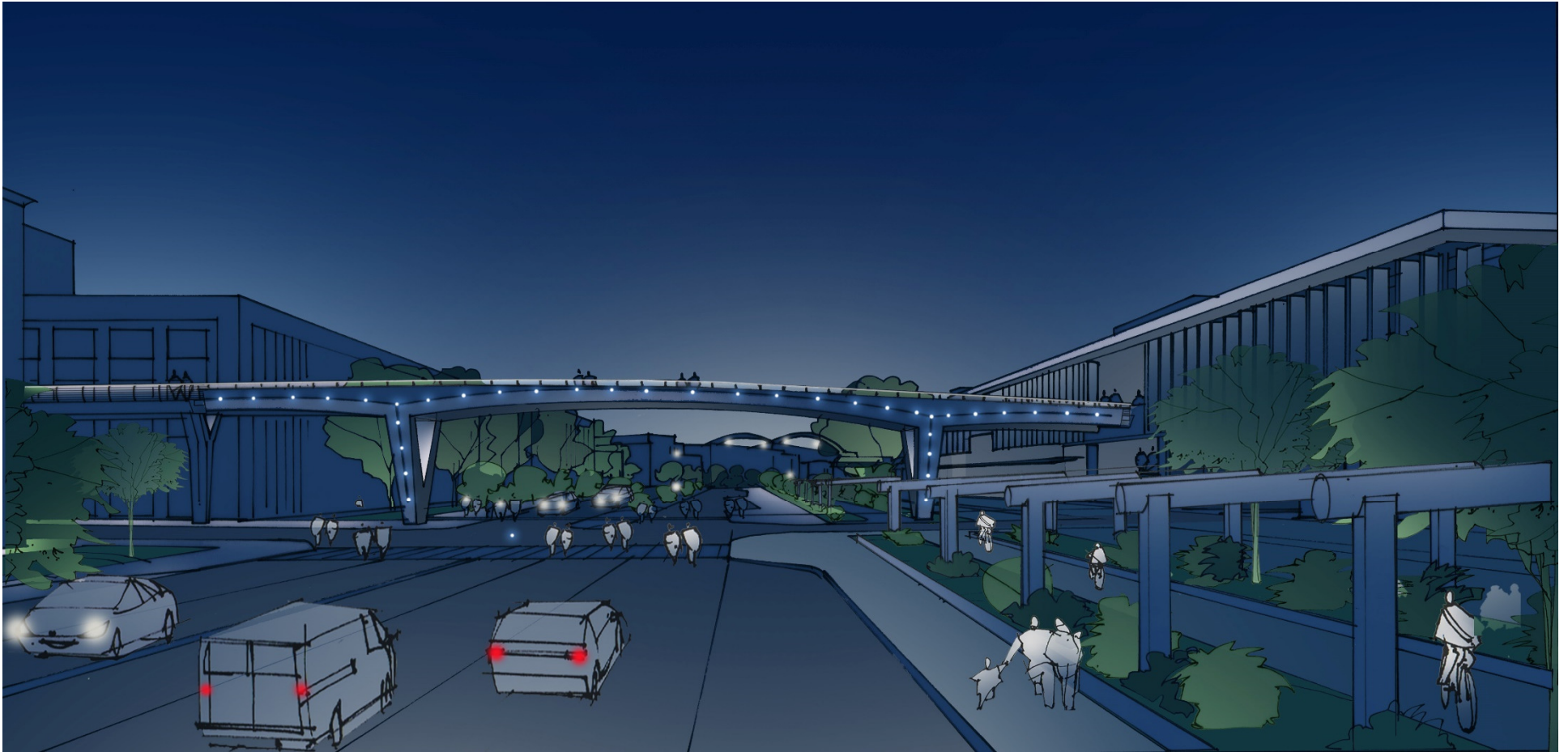
SCALE: 3" = 1'



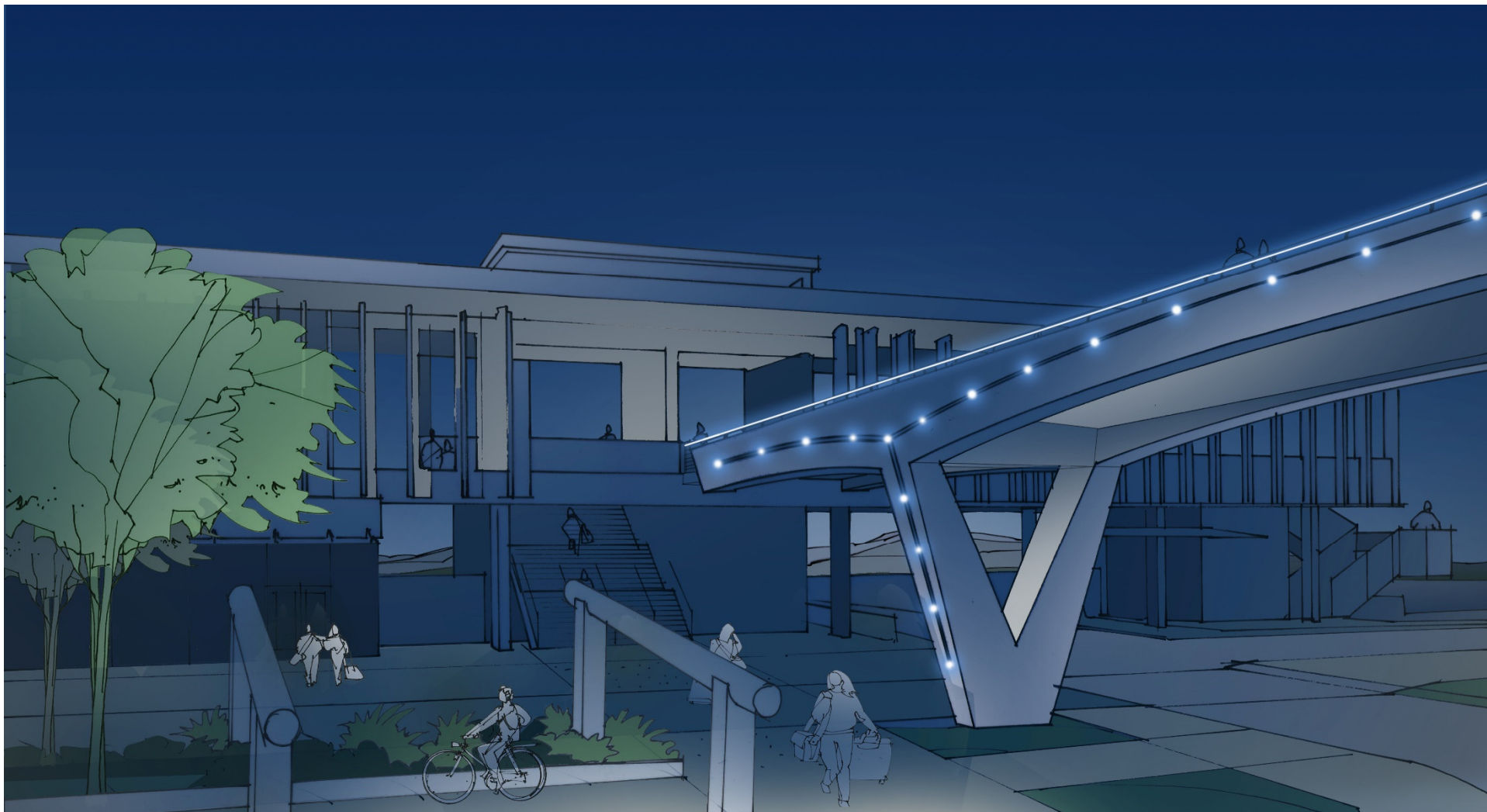
Stainless Steel Rail / Led Light Strip

SCALE: 3" = 1'

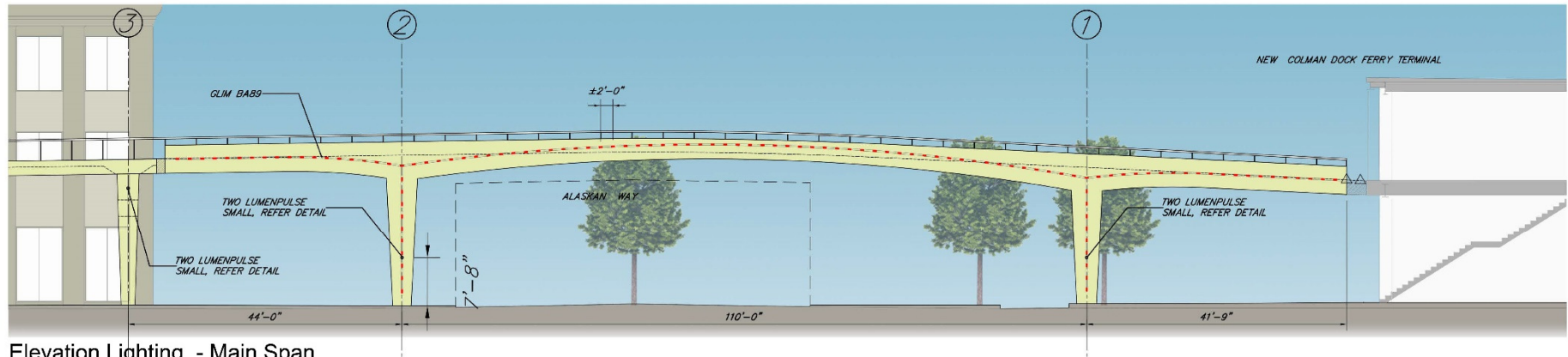
Lighting Design – Initial Design



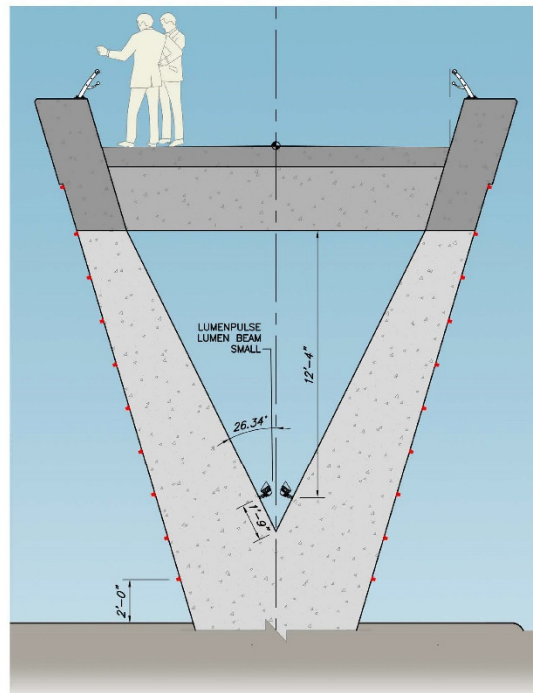
Lighting Design – Initial Design



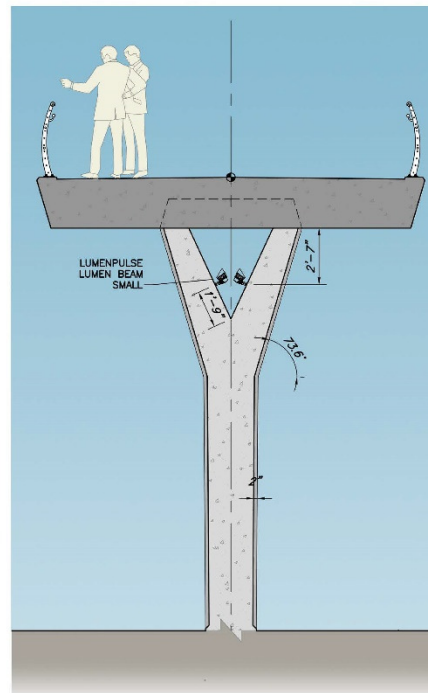
Lighting Design – option A



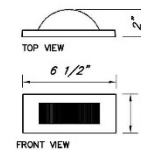
Elevation Lighting - Main Span
SCALE: 1/8" = 1'



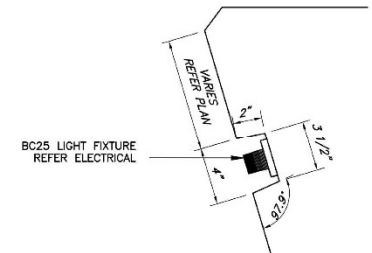
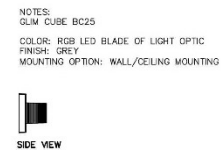
Pier Lighting (Typical of two)
SCALE: 3/8" = 1'



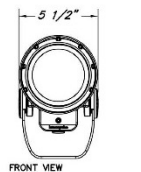
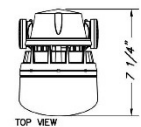
Ramp Pier Lighting (Typical of five)
SCALE: 3/8" = 1'



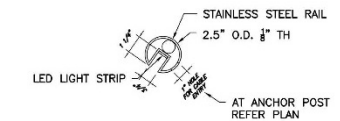
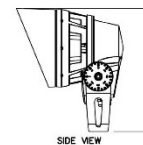
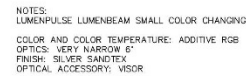
Reveal Light Fixture
SCALE: 3" = 1'



Reveal Lighting
SCALE: 3" = 1'

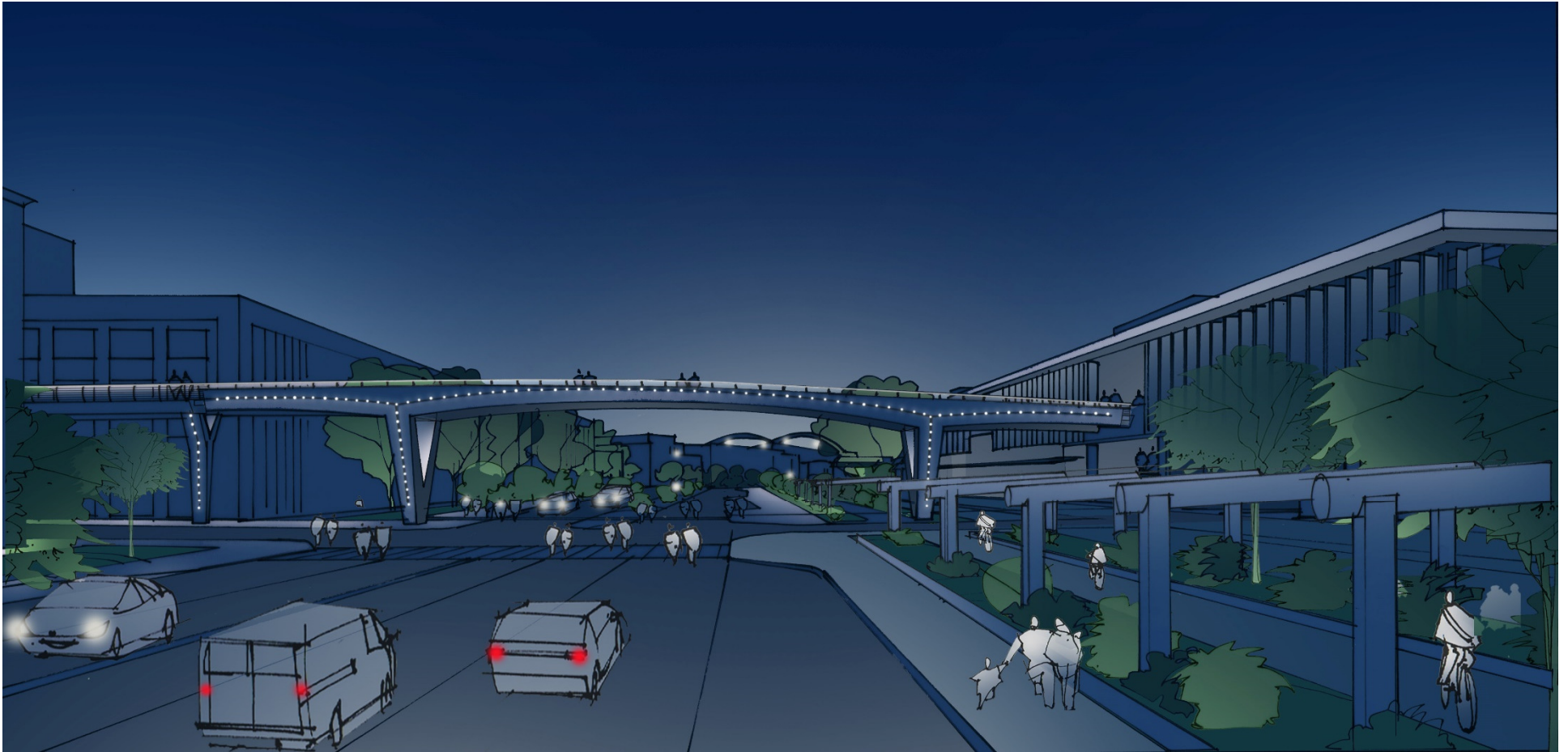


Pier Light Fixture
SCALE: 3" = 1'

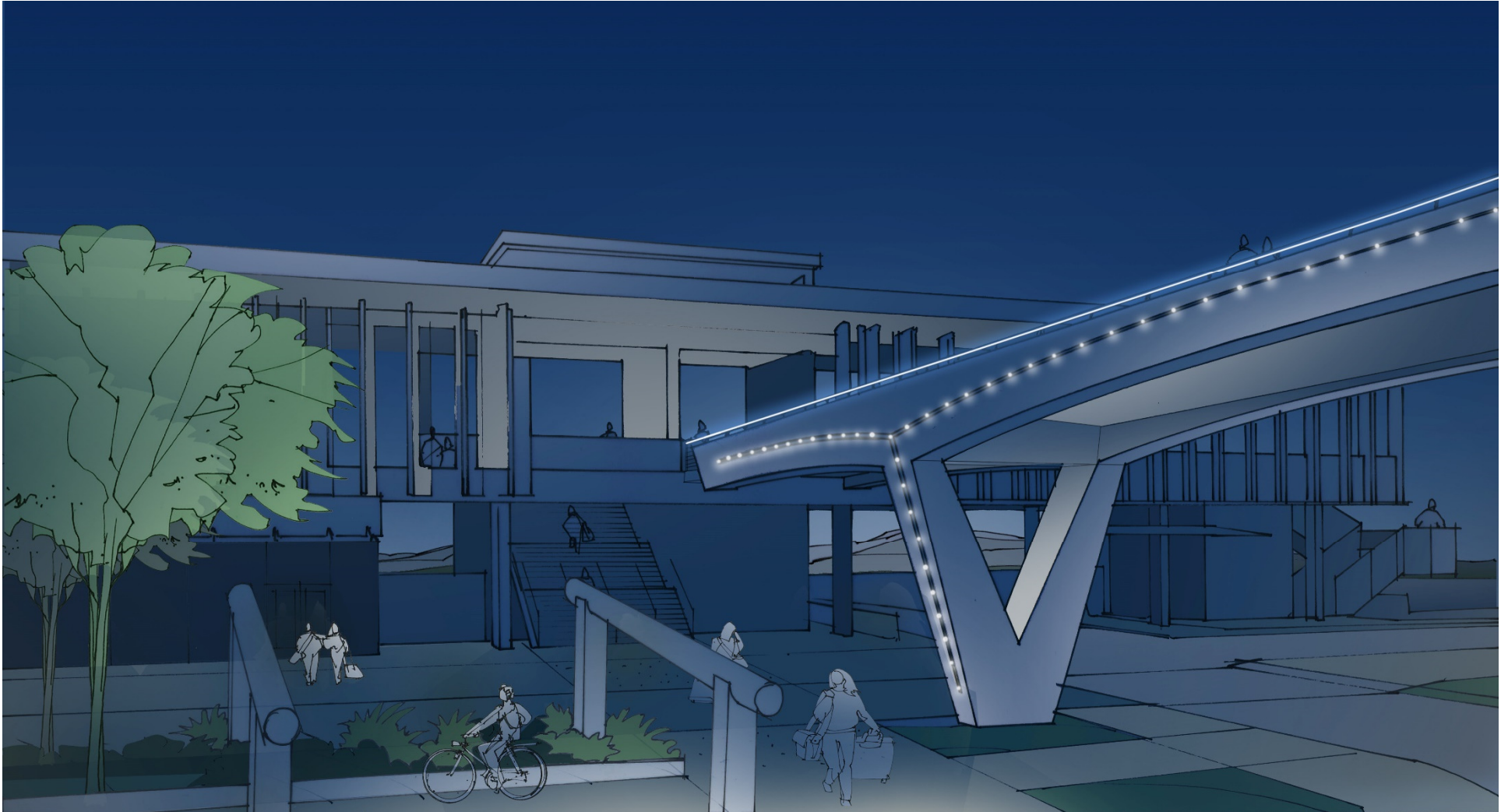


Stainless Steel Rail / Led Light Strip
SCALE: 3" = 1'

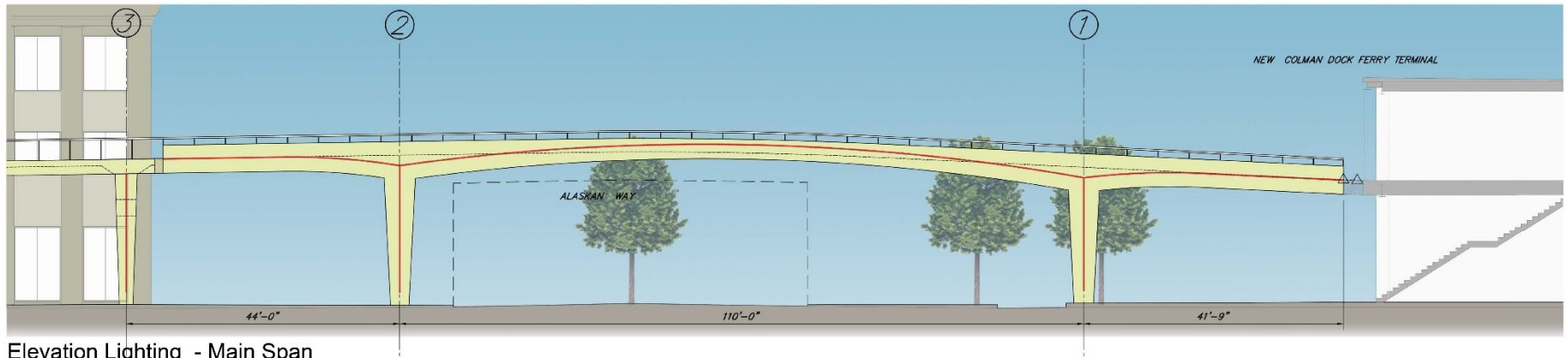
Lighting Design – option A



Lighting Design – option A

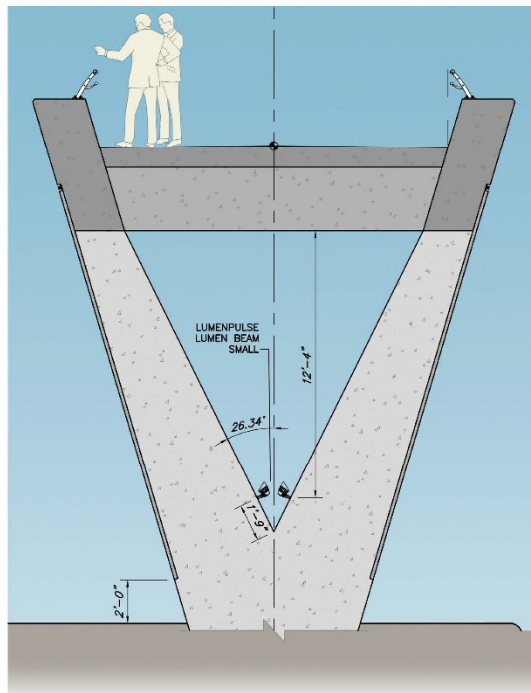


Lighting Design – option B



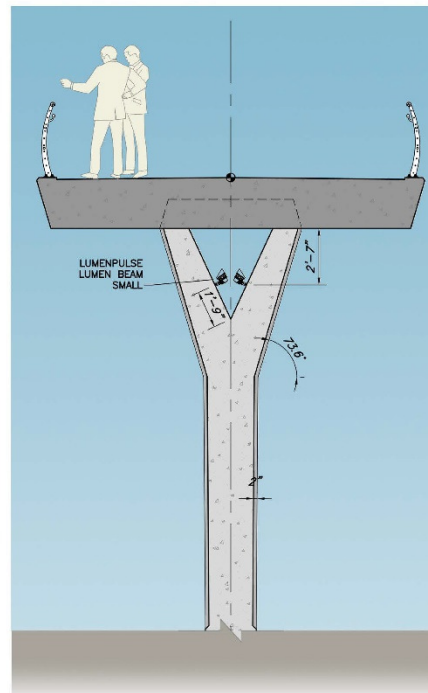
Elevation Lighting - Main Span

SCALE: 1/8" = 1'



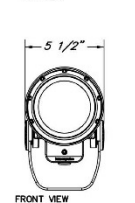
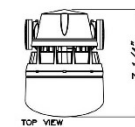
Pier Lighting (Typical of two)

SCALE: 3/8" = 1'



Ramp Pier Lighting (Typical of five)

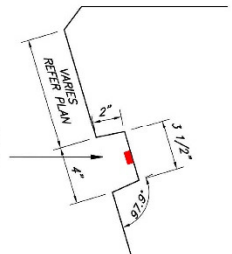
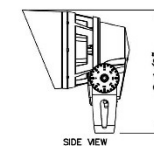
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Pier Light Fixture

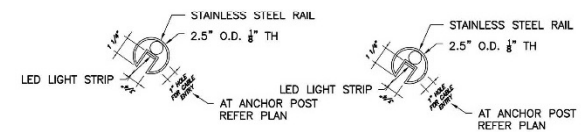
SCALE: 3" = 1'

NOTES:
LUMENPULSE LUMENBEAM SMALL COLOR CHANGING
COLOR AND COLOR TEMPERATURE: ADDITIVE RGB
OPTICS: VERY NARROW 6"
FINISH: SILVER SANDTEX
OPTICAL ACCESSORY: VISOR



Reveal Lighting

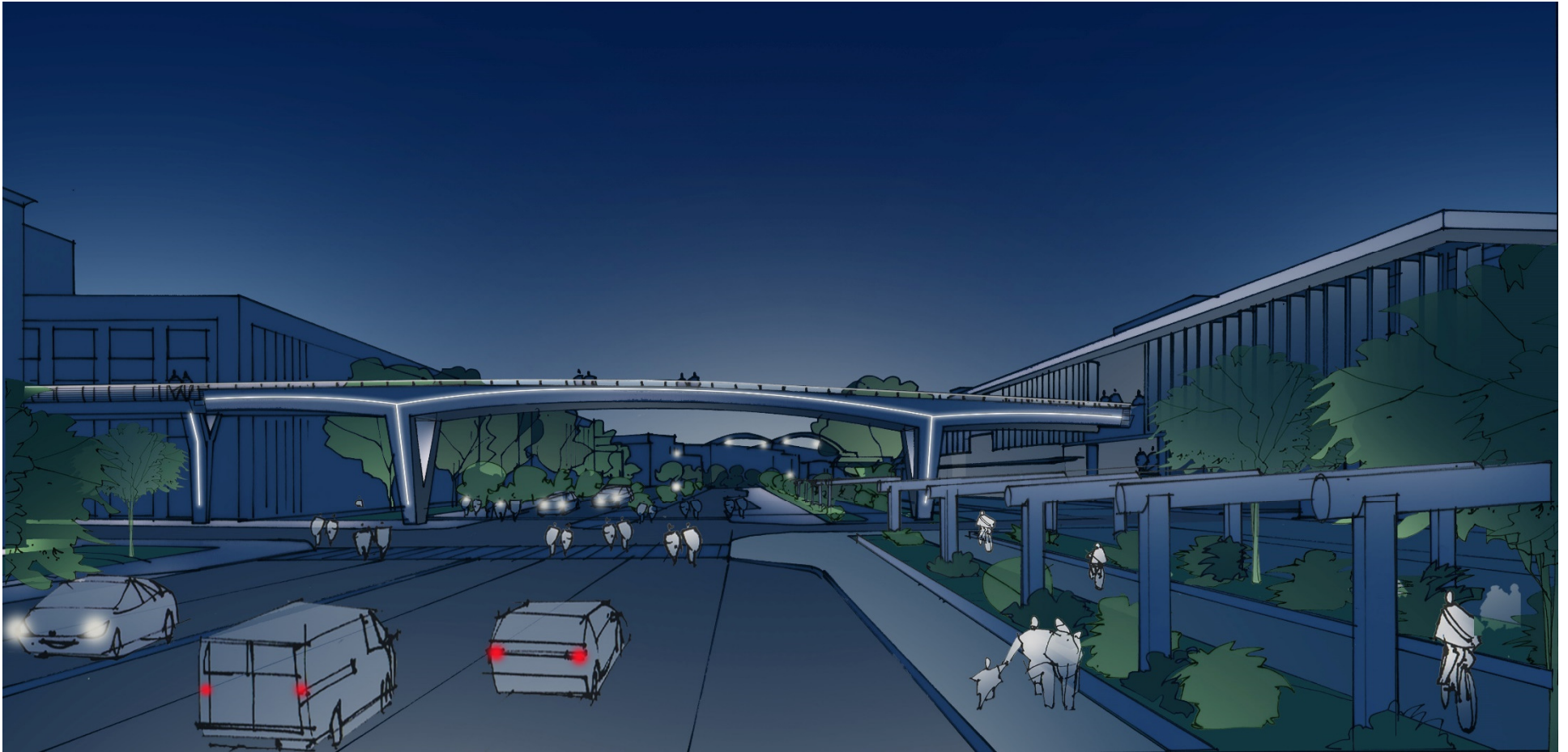
SCALE: 3" = 1'



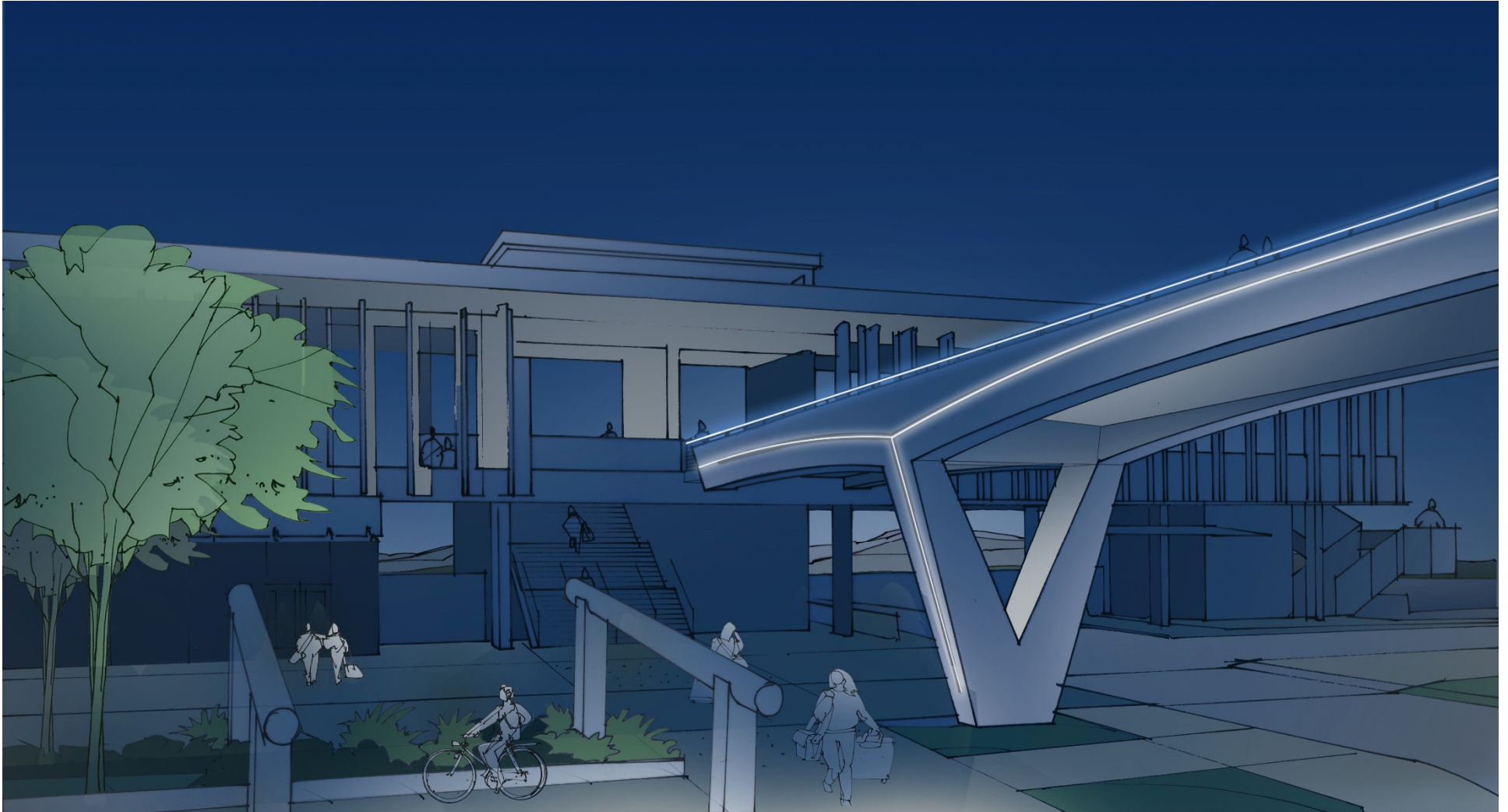
Stainless Steel Rail / Led Light Strip

SCALE: 3" = 1'

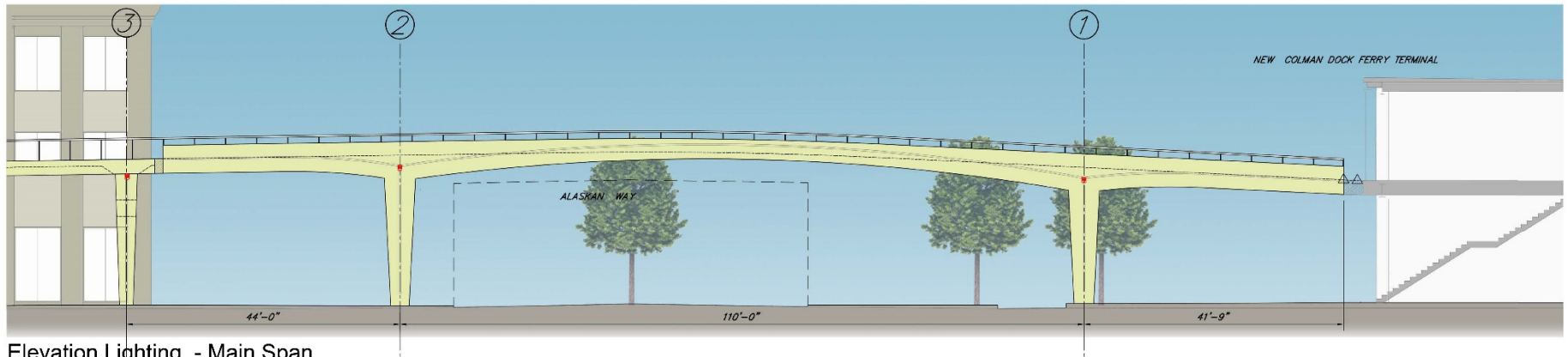
Lighting Design – option B



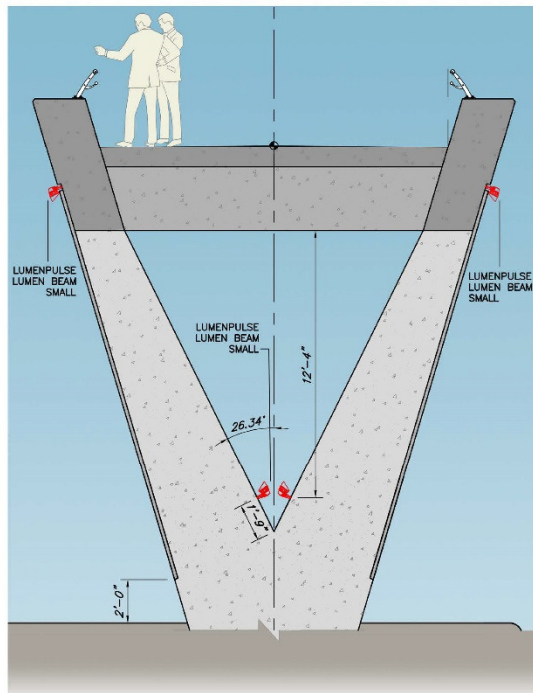
Lighting Design – option B



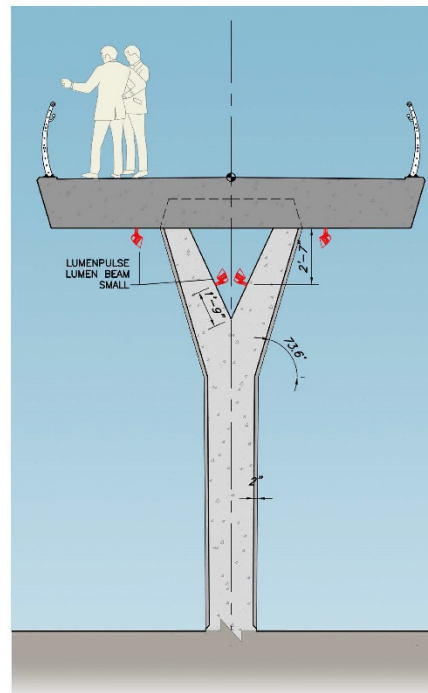
Lighting Design – option C



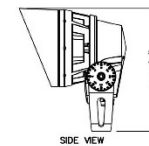
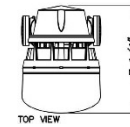
Elevation Lighting - Main Span
SCALE: 1/8" = 1'



Pier Lighting (Typical of two)
SCALE: 3/8" = 1'

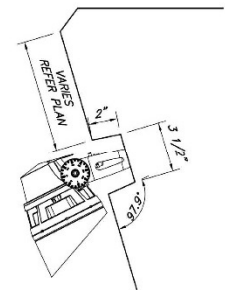


Ramp Pier Lighting (Typical of five)
SCALE: 3/8" = 1'

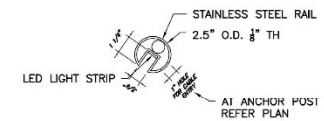


NOTES:
LUMENPULSE LUMENBEAM SMALL, COLOR CHANGING
COLOR AND COLOR TEMPERATURE: ADDITIVE RGB
OPTICS: VERY NARROW 6"
FINISH: SILVER SANDIEK
OPTICAL ACCESSORY: NSOR

Pier Light Fixture
SCALE: 3" = 1'

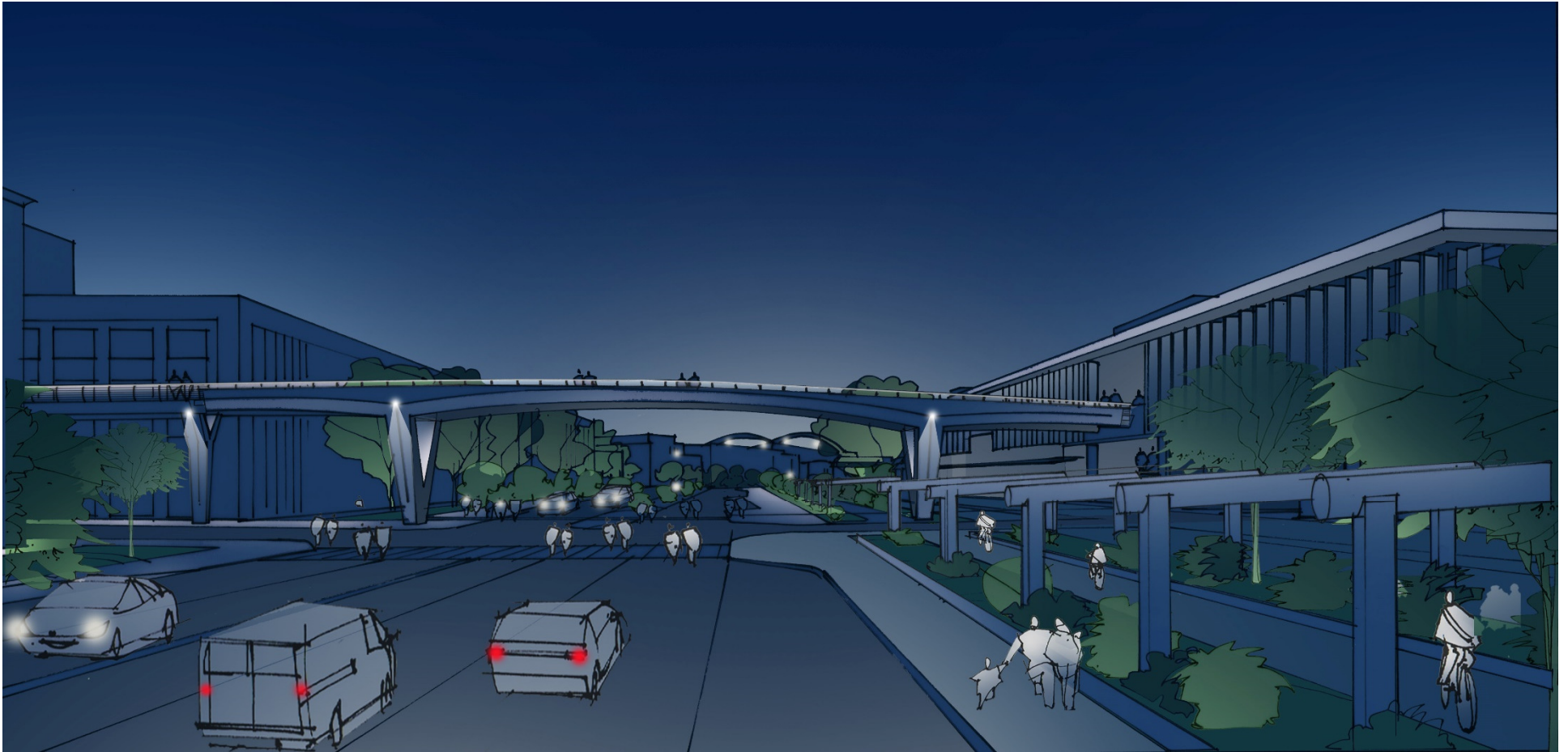


Reveal Lighting
SCALE: 3" = 1'

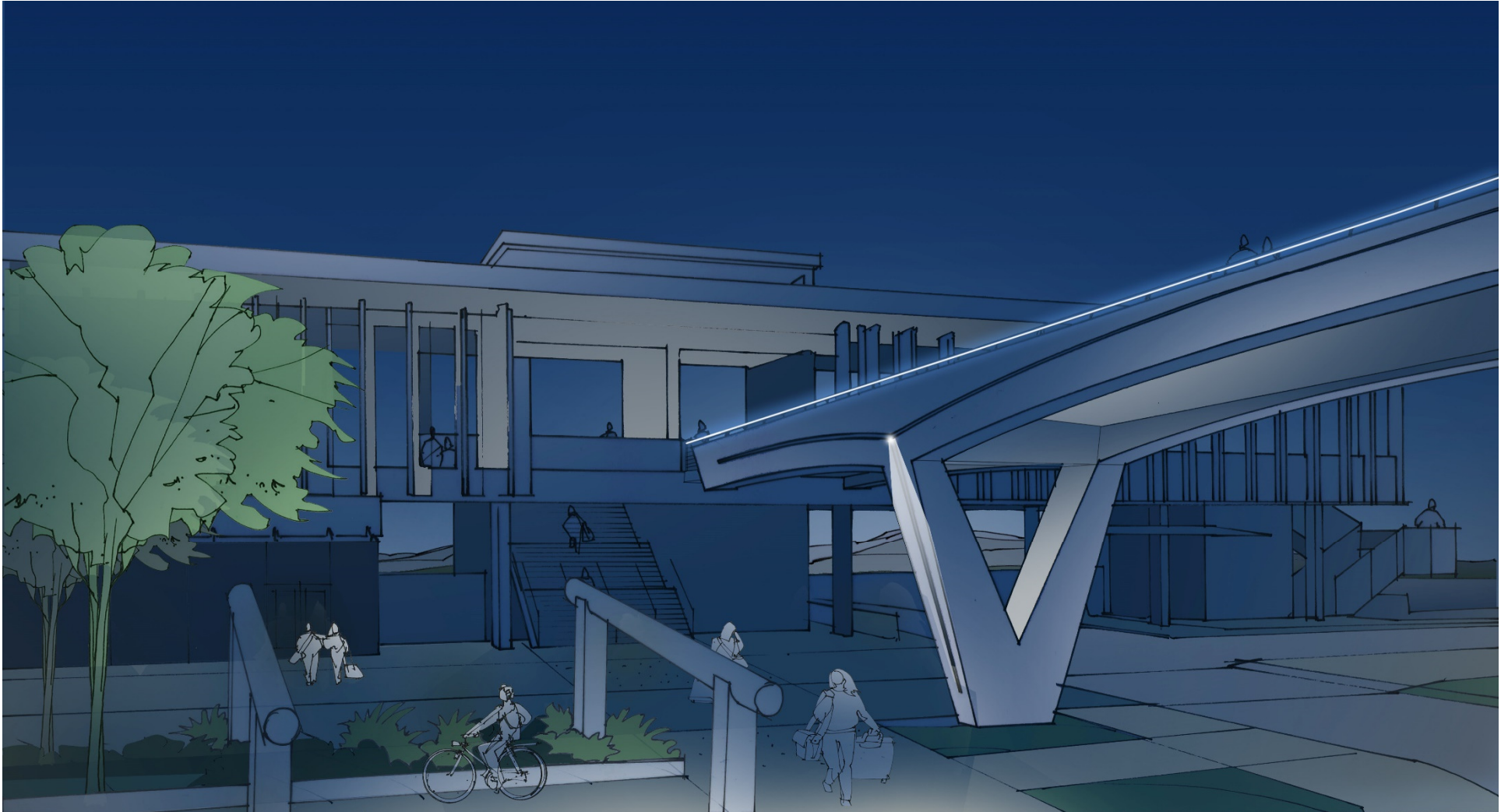


Stainless Steel Rail / Led Light Strip
SCALE: 3" = 1'

Lighting Design – option C



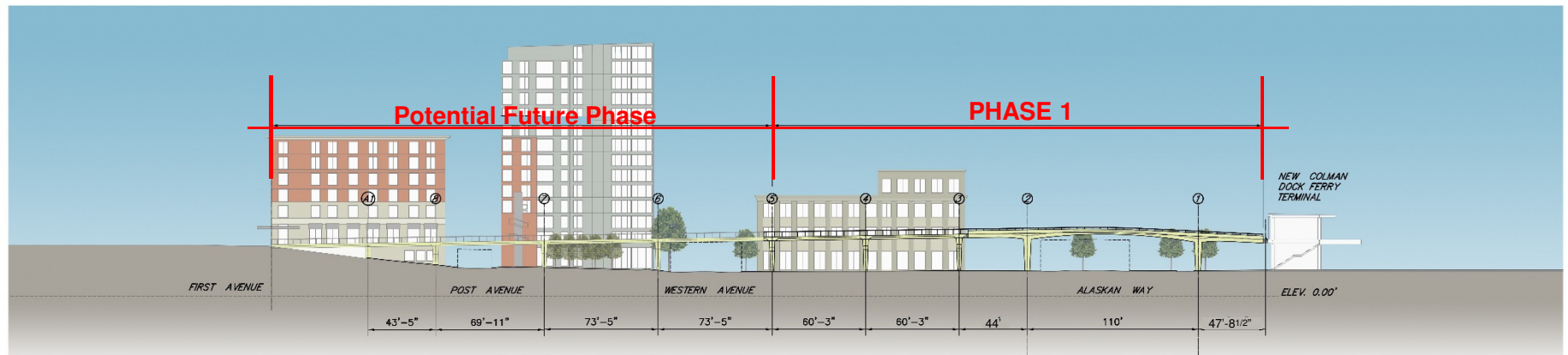
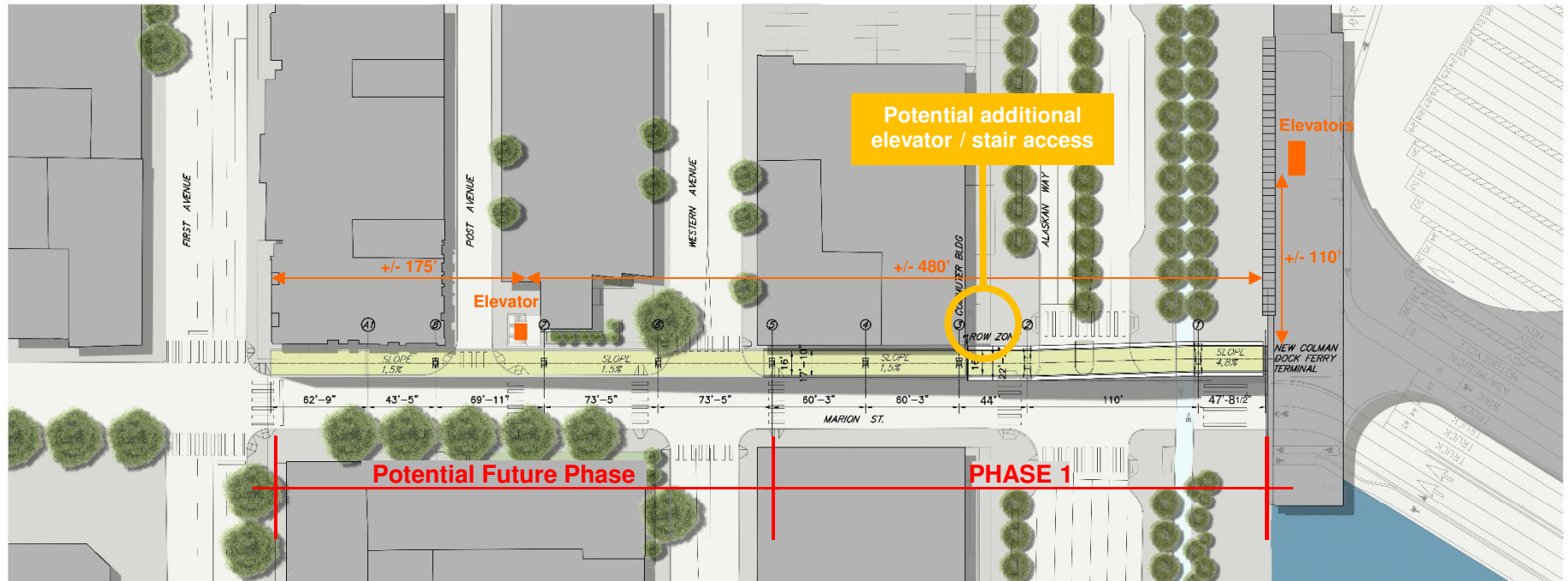
Lighting Design – option C



2. Vertical Circulation.



Vertical Circulation and Connectivity. Stair and Elevator Access Signage.



Vertical Circulation and Connectivity. Stair and Elevator Access Signage.

Marion St. Bridge

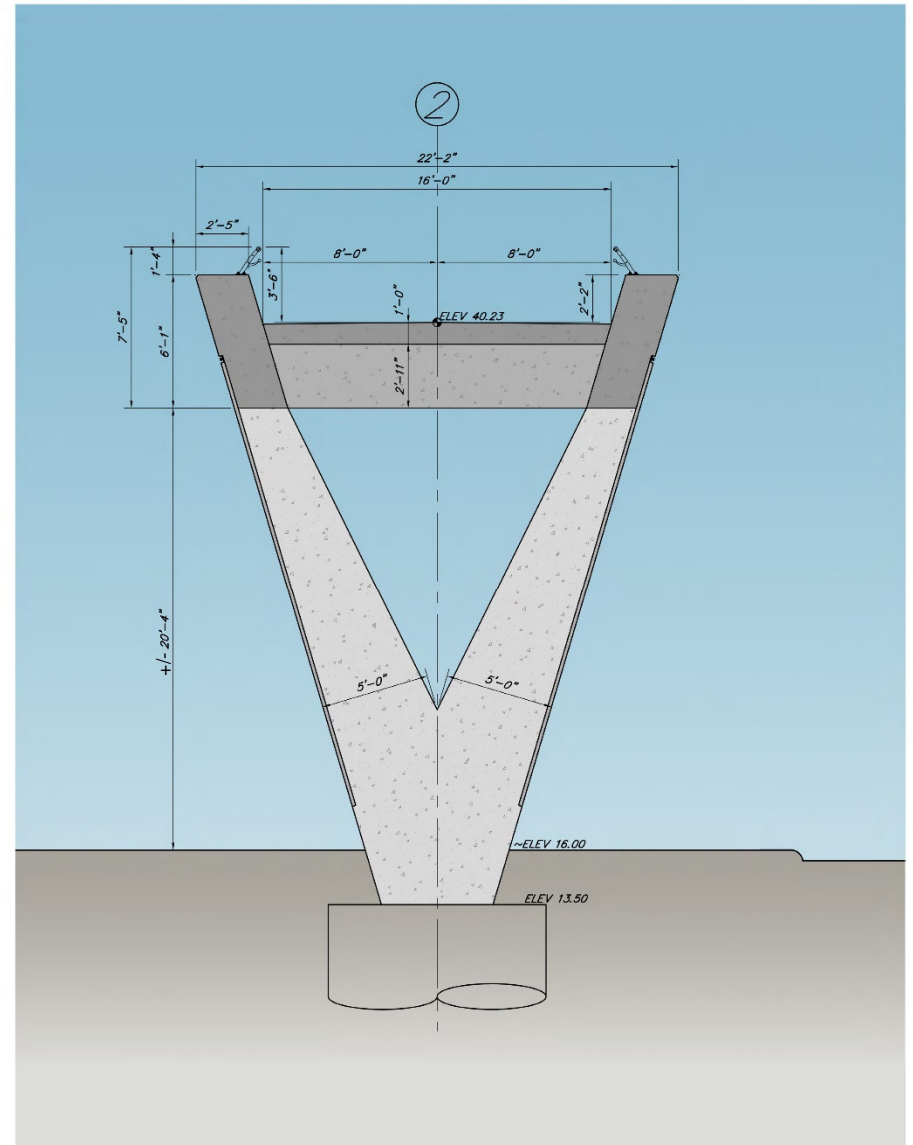
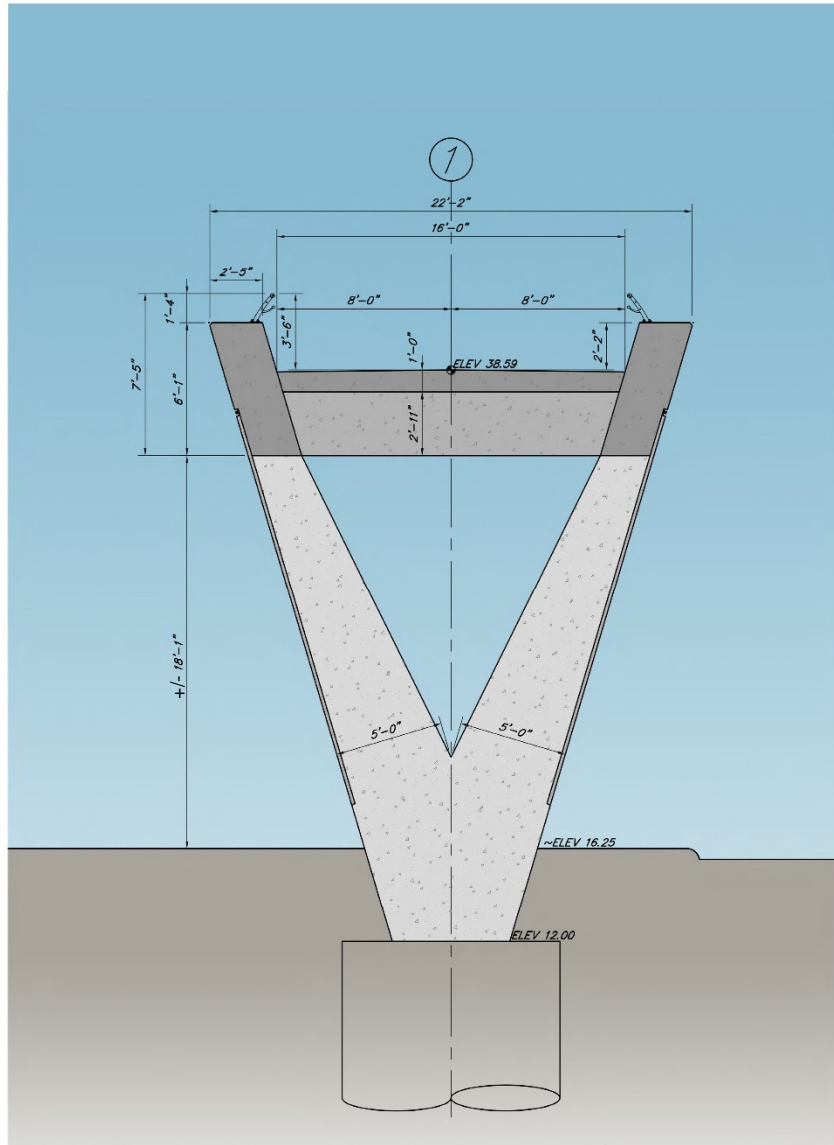


Potential Development

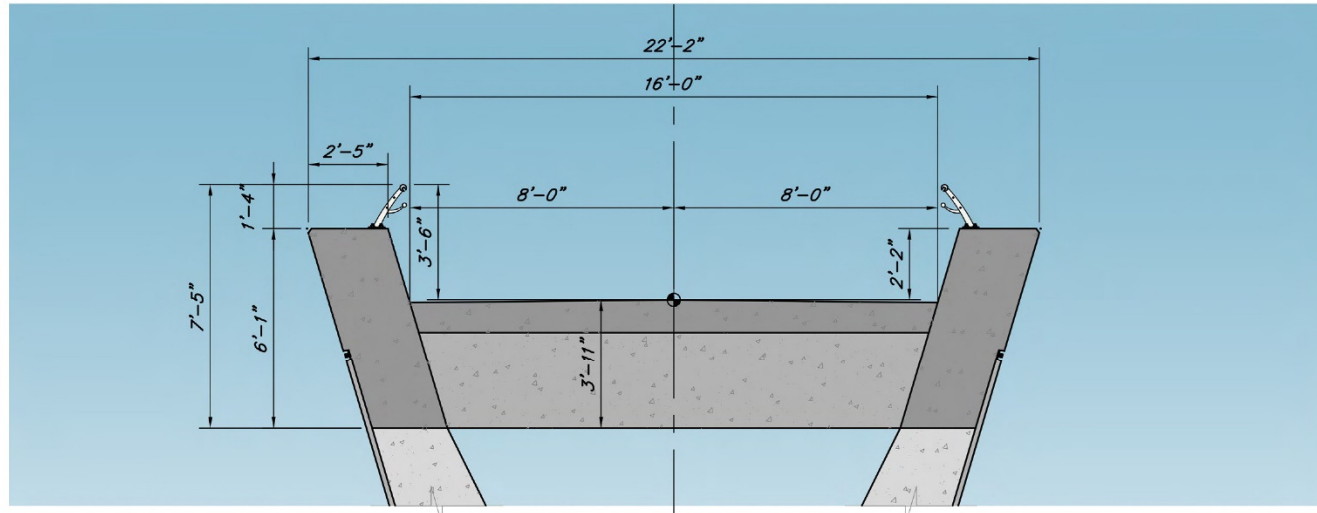
3. Approach Piers.



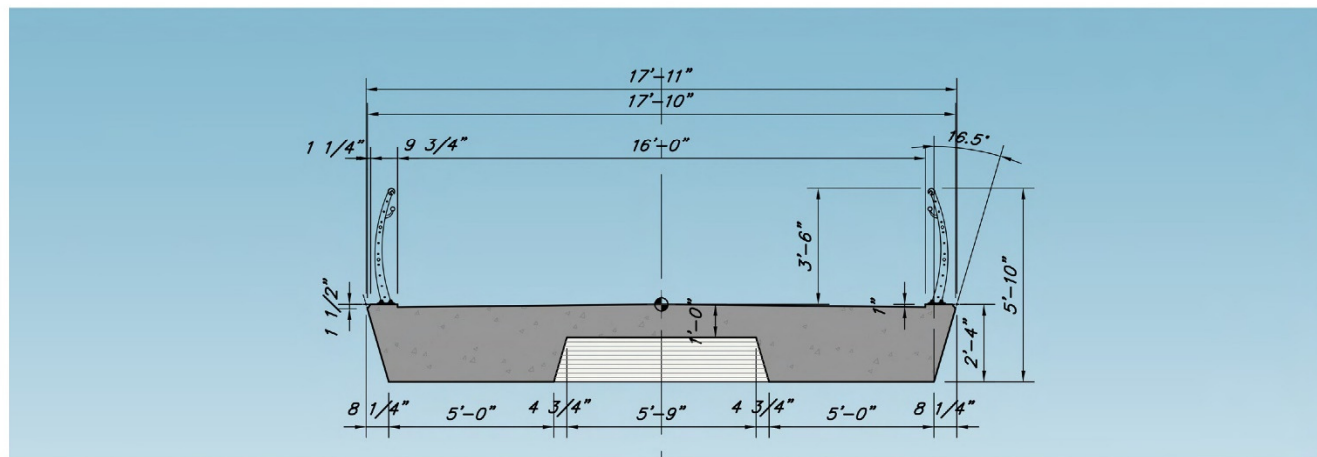
Architectural / Structural Piers - Main Span



Architectural Sections - Main Span and Approach

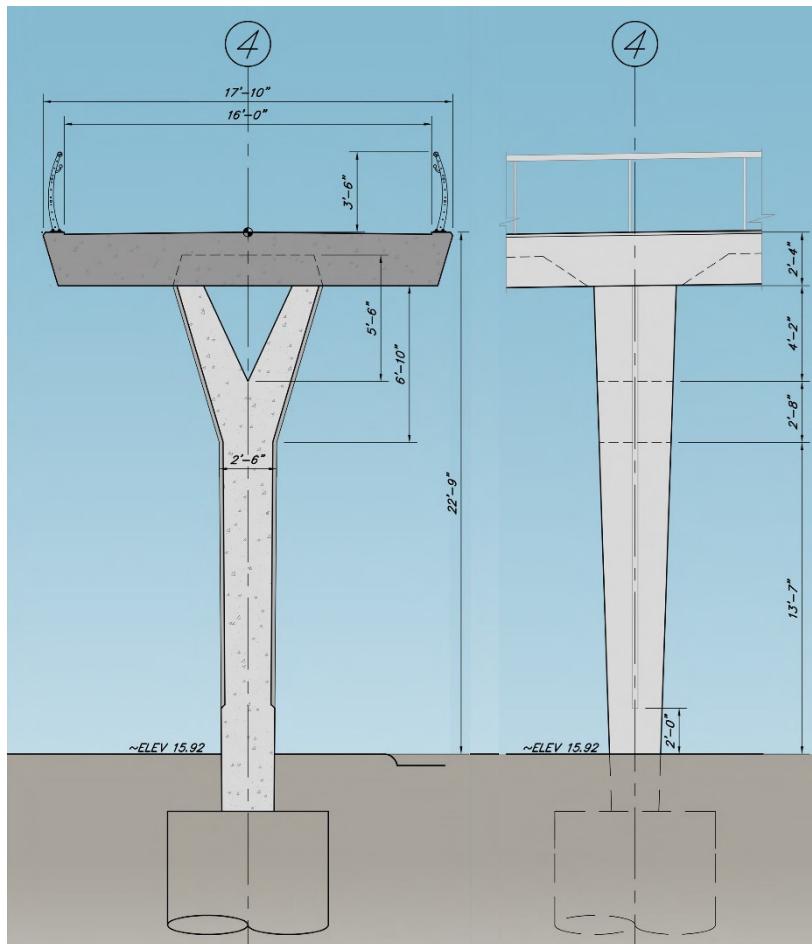


Main Span Section

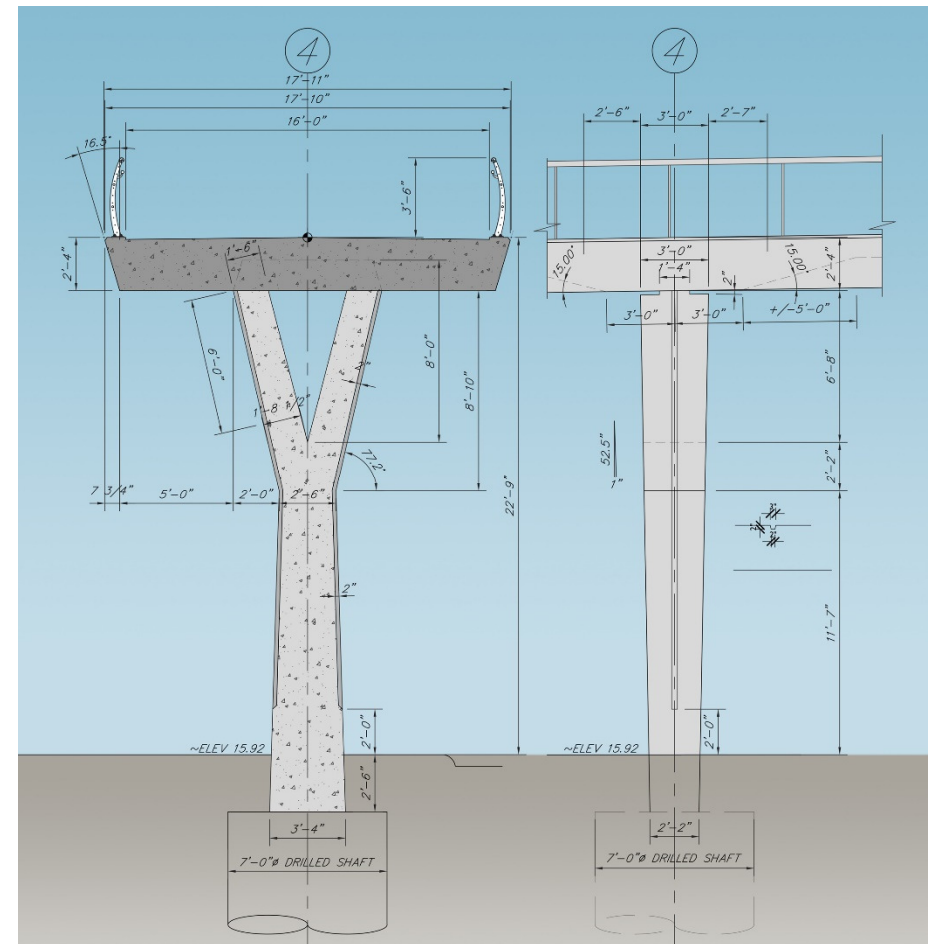


Approach Span Section

Architectural / Structural Piers – Approach Span

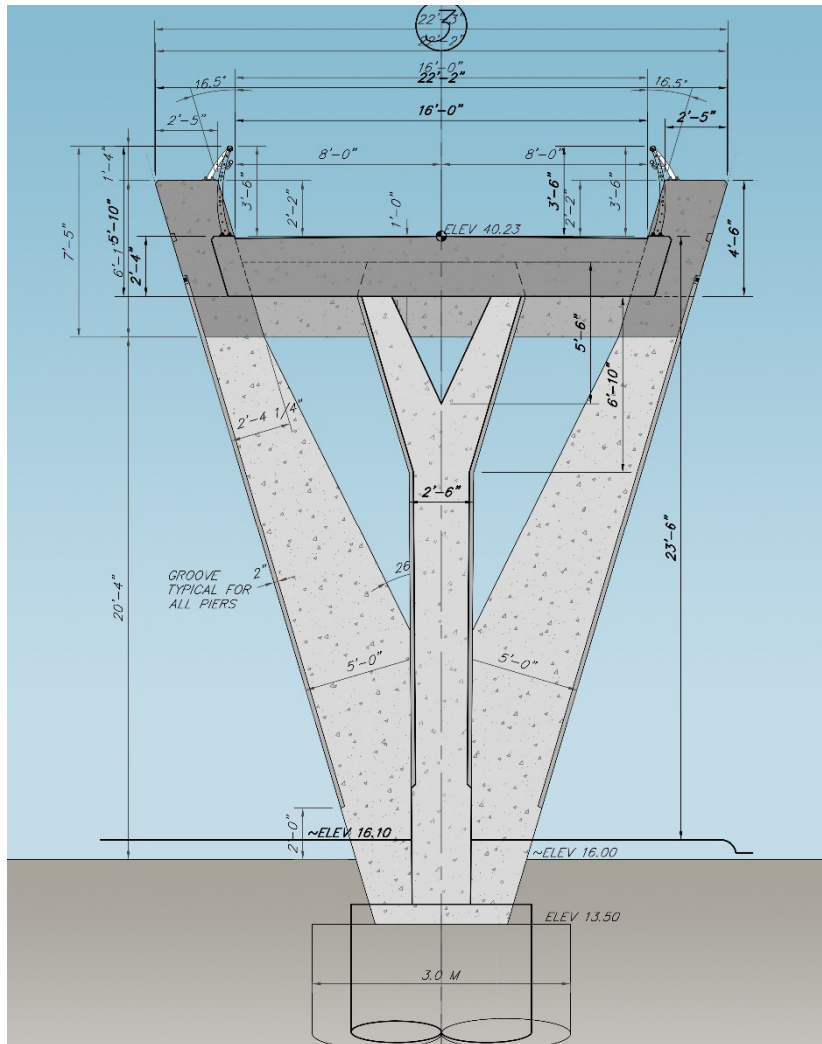


Before

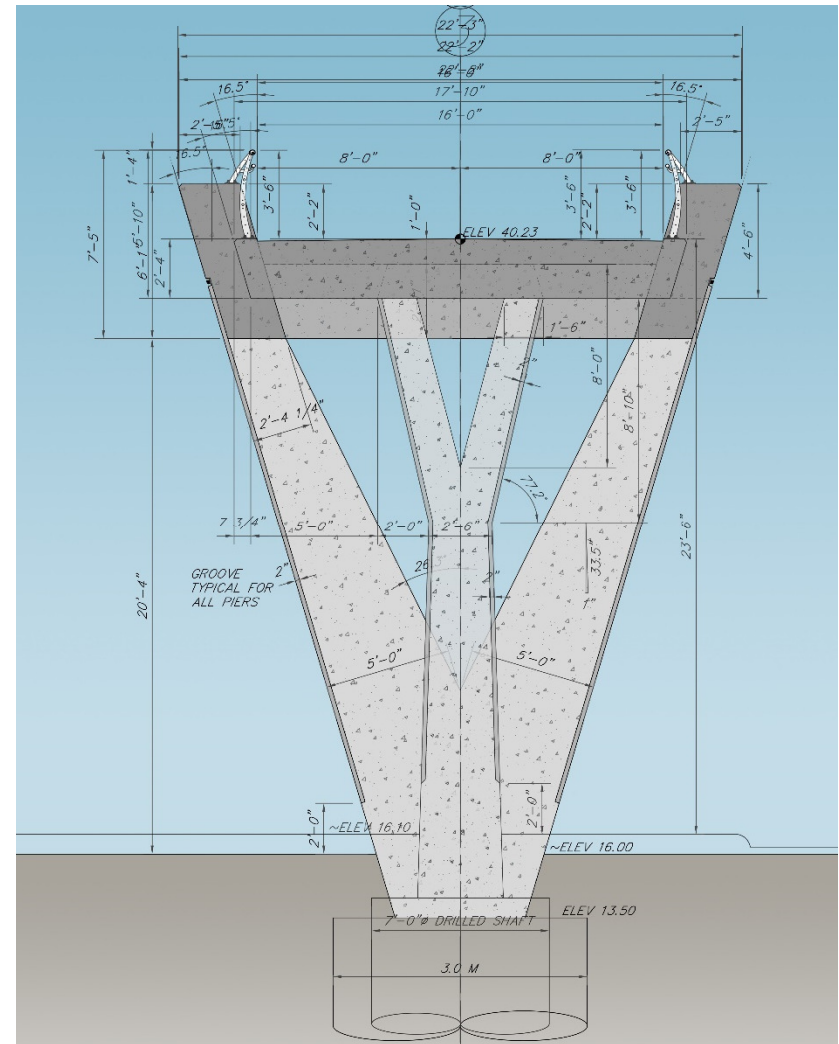


After

Promenade Level Column Placement. Overall Column Design and V Piers.

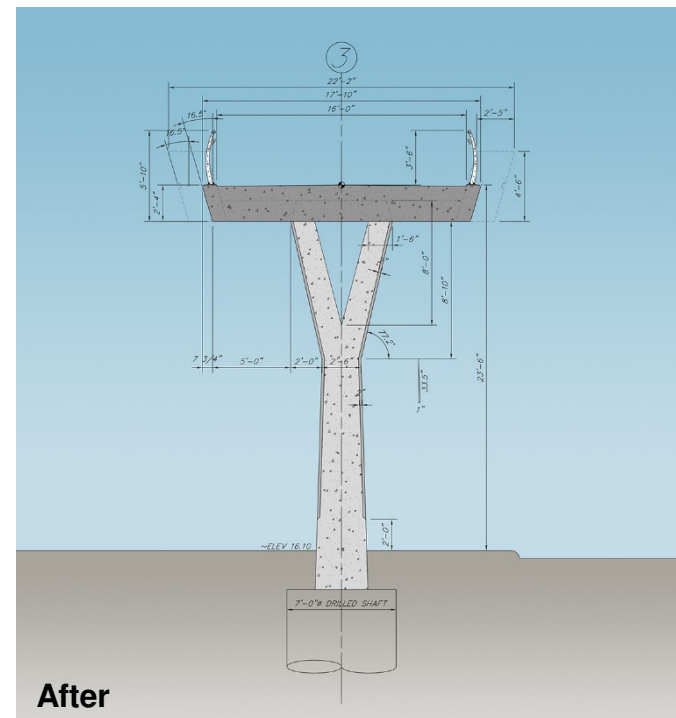
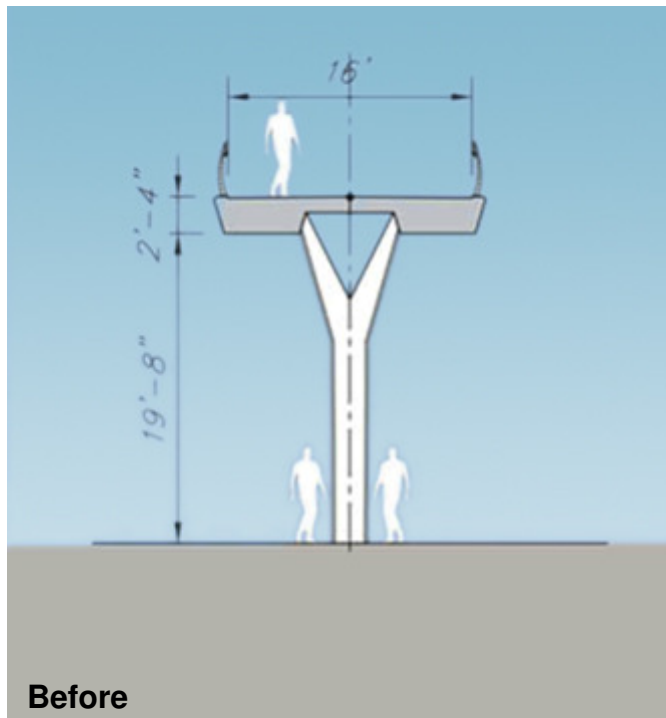
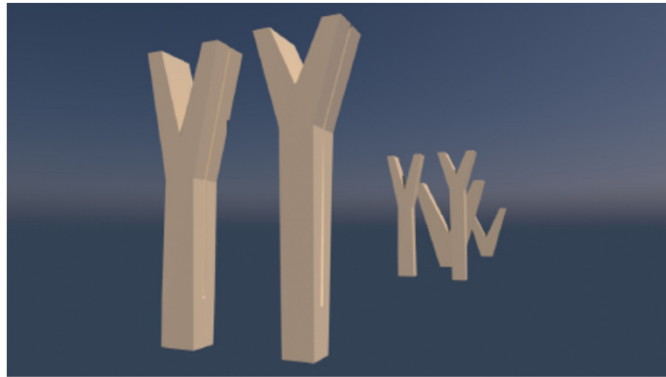


Before

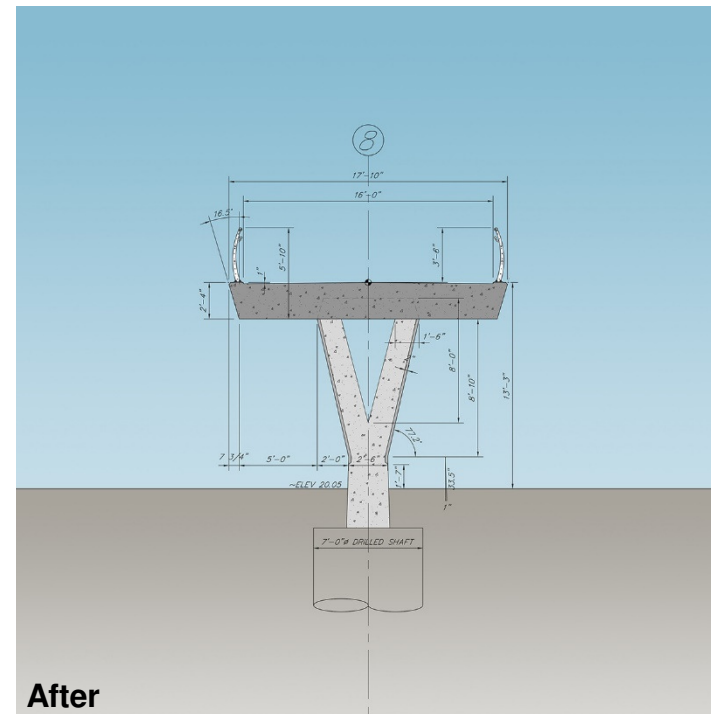
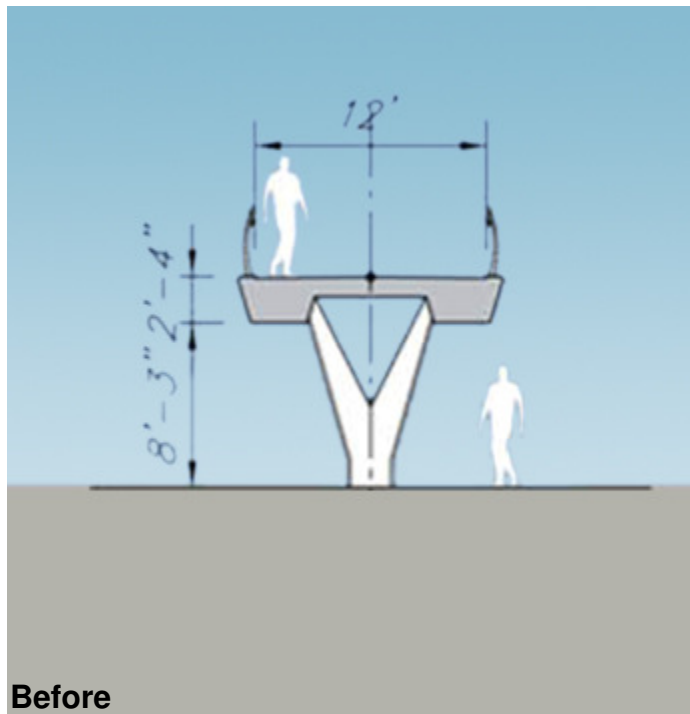


After

Pier Comparison.



Pier Comparison.



Pier Comparison.

Before



After



Pier Comparison.

Before

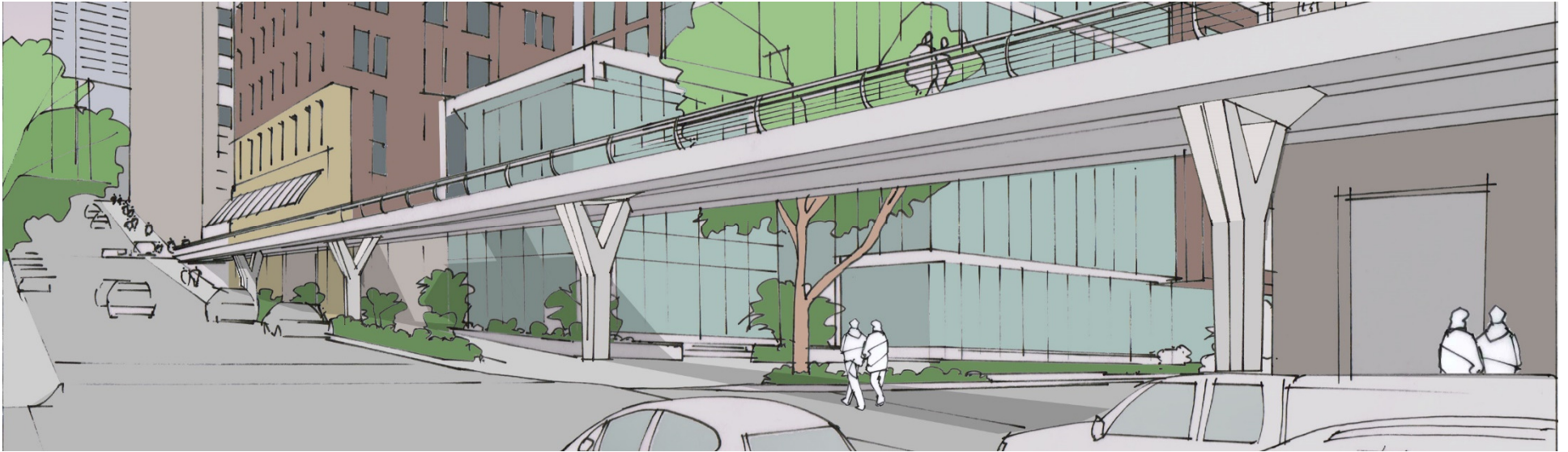


After



Pier Comparison.

Before



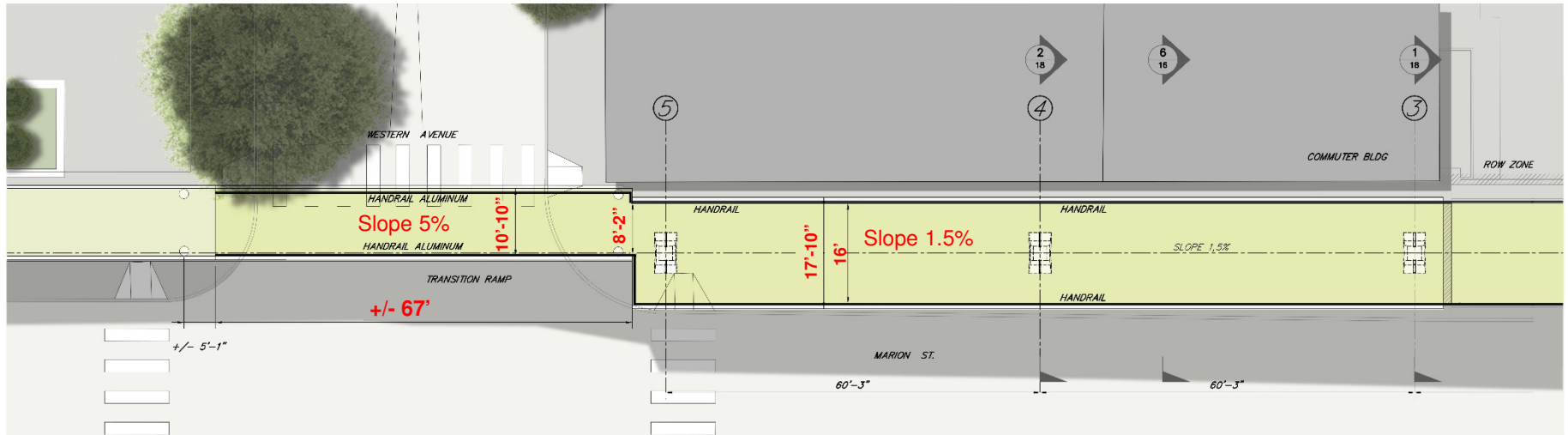
After



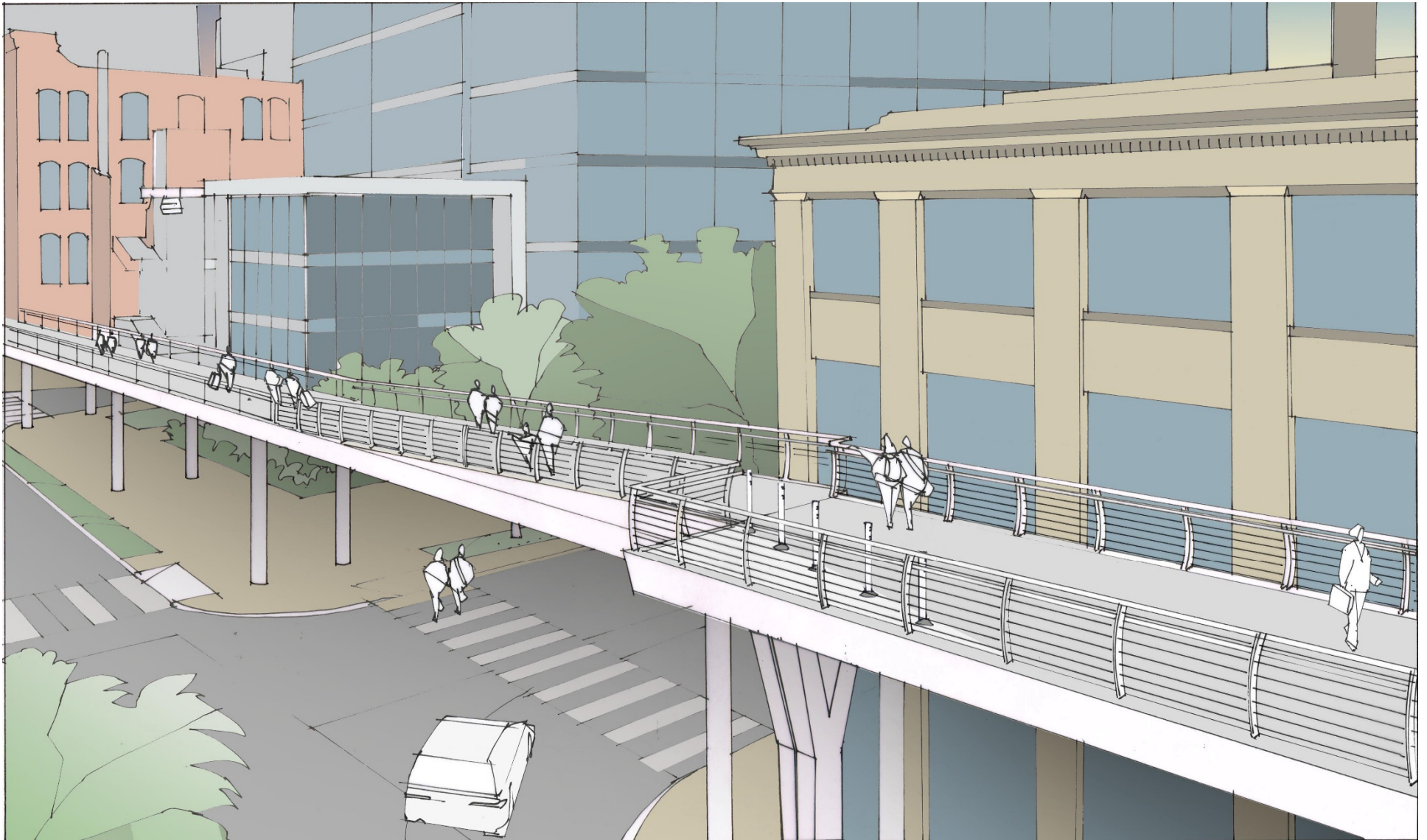
4. Interim Transition.



Transition Ramp – Plan and Elevation



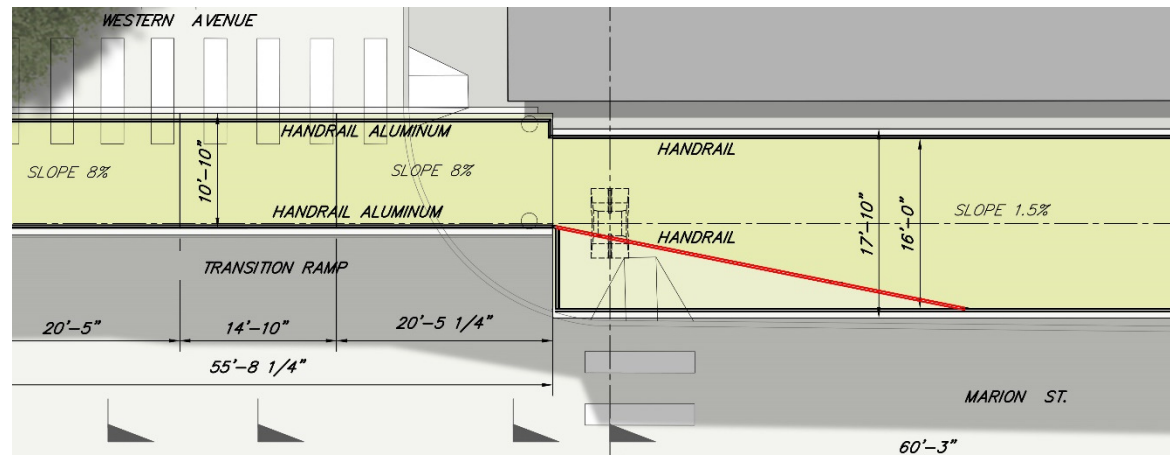
Transition Ramp



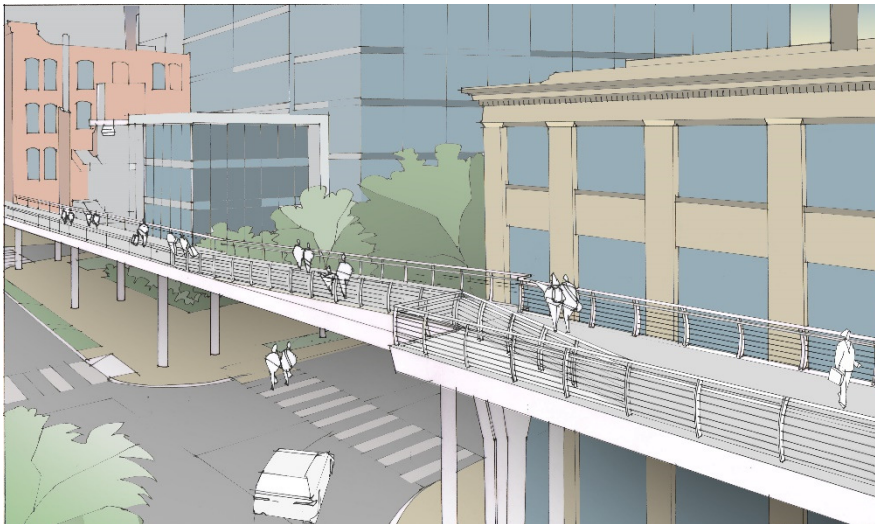
Transition Ramp



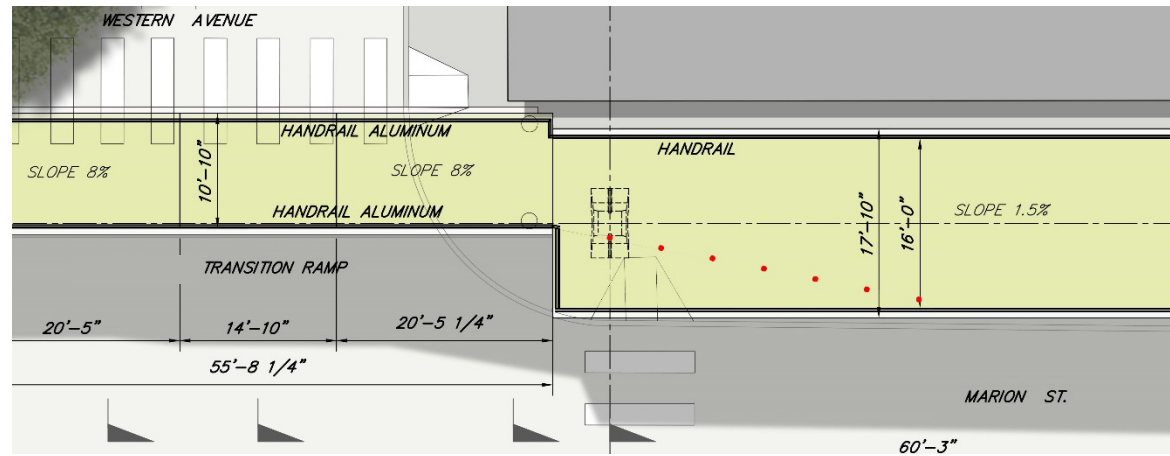
Interim Period Transition between Existing and New Bridge



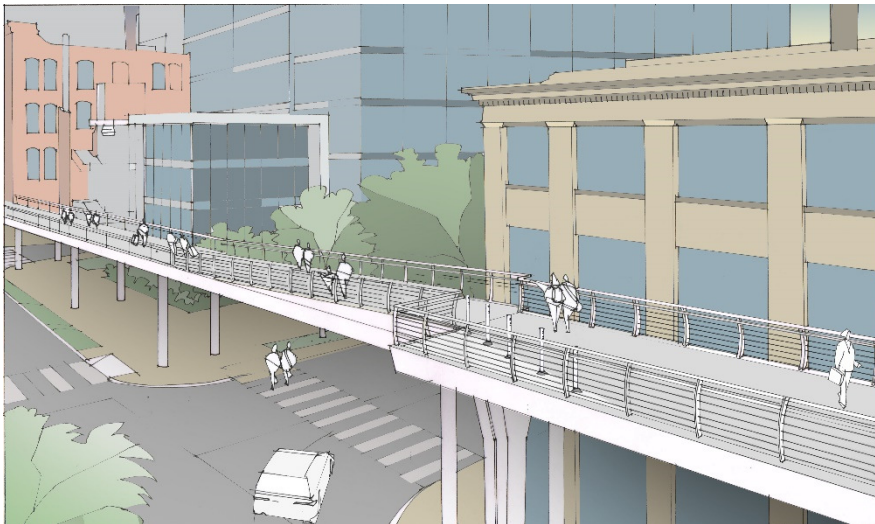
Option A – Additional Railing



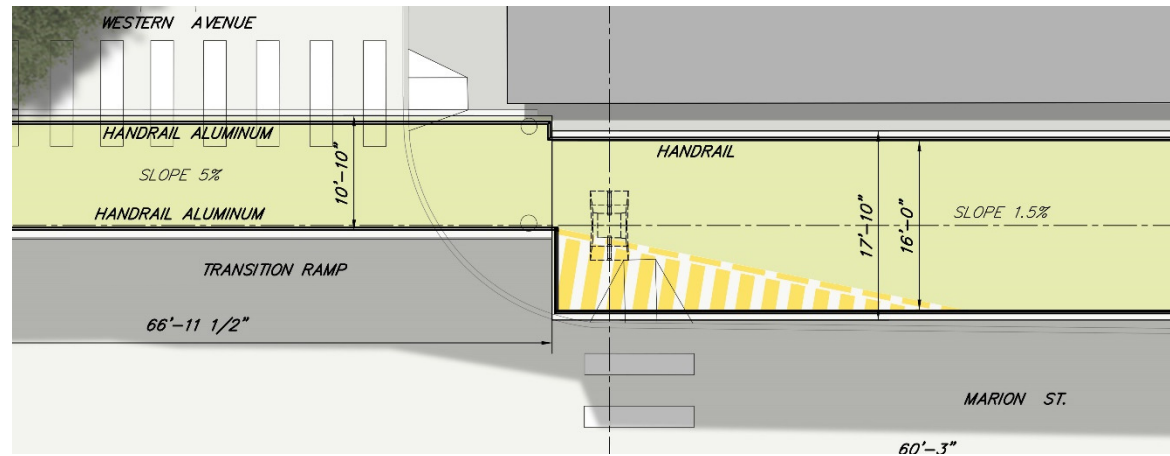
Interim Period Transition between Existing and New Bridge



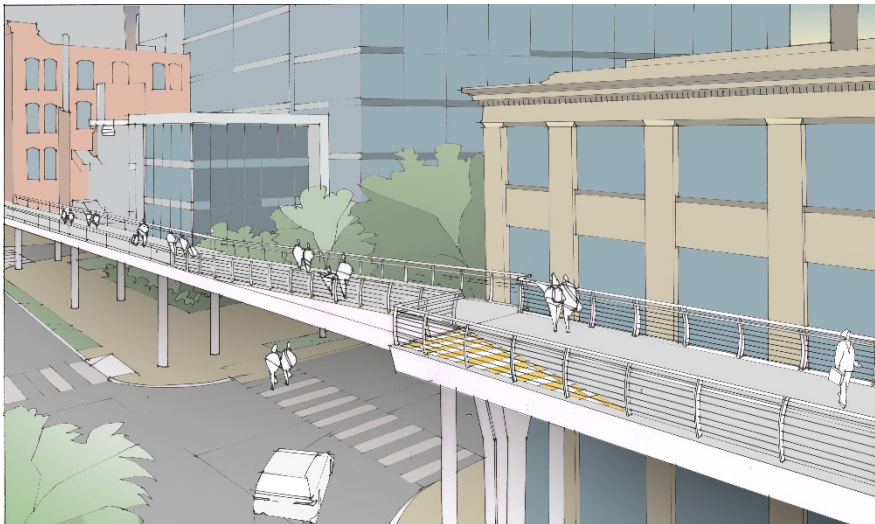
Option B – Temporary Bollards



Interim Period Transition between Existing and New Bridge



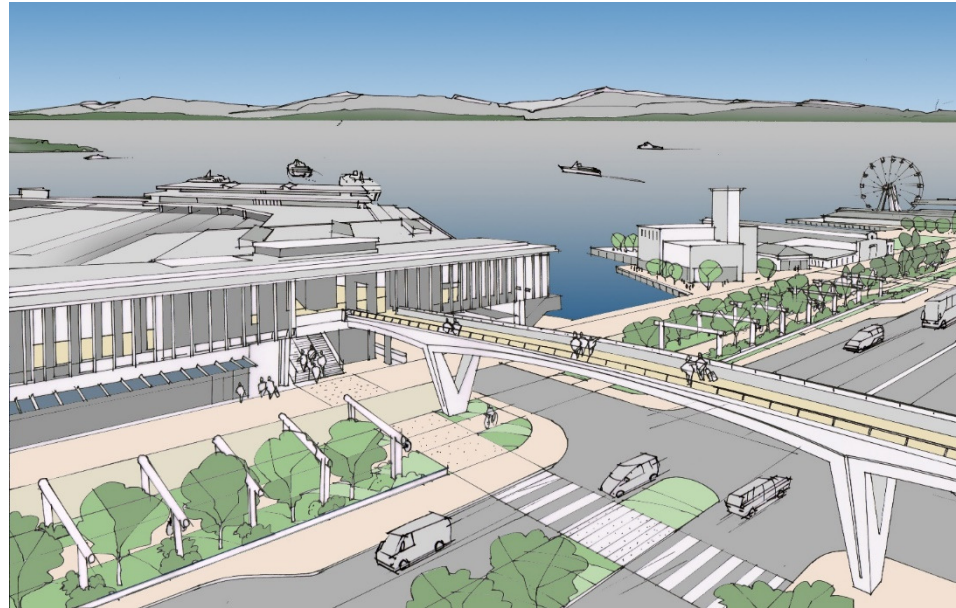
Option C – Pavement Markings



5. Sustainability Strategy.



Sustainability Strategy

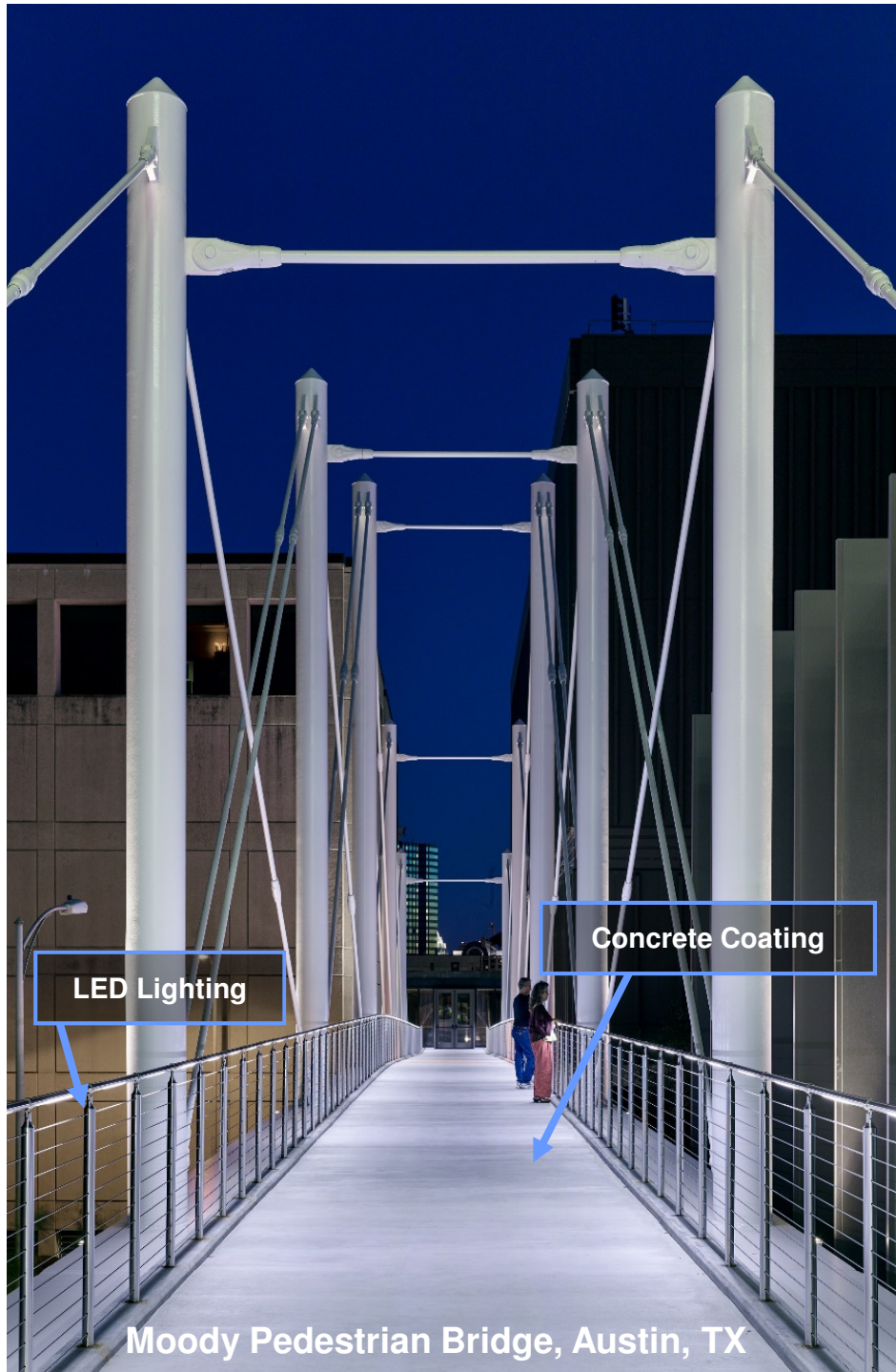


- **MOBILITY:** Pedestrian bridge will create a more attractive, wider and sustainable link between the Ferry Terminal and Downtown. Promotes active transportation modes. Incorporation of ADA. Scenic viewpoints.

- **MAINTENANCE:** Use of low maintenance materials and products like high strength concrete, stainless steel and LED lighting. Lowest life cycle cost and long life expectancy.

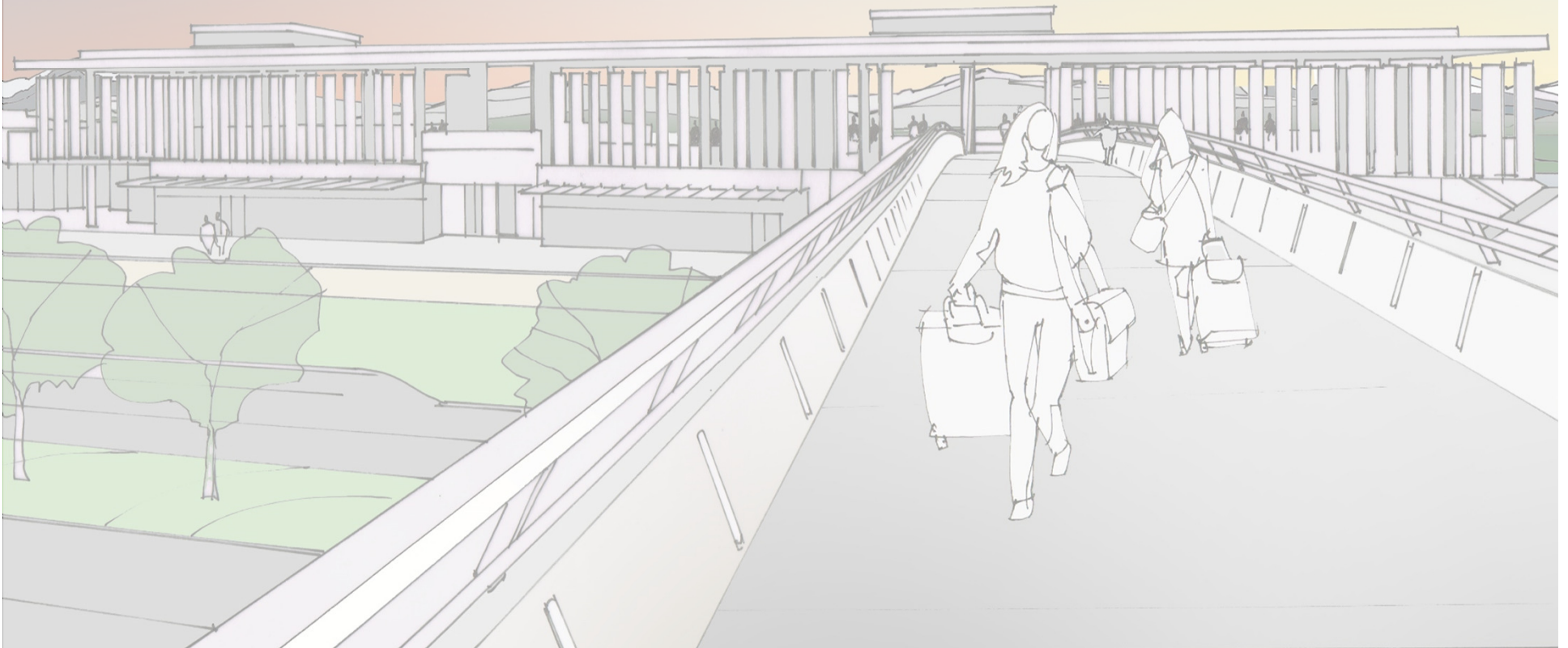
- **ECONOMY:** Bridge design is very efficient minimizing the size of all elements as much as possible increasing constructability. Coordination with adjacent future projects to prevent repeat utility relocations.

- **RE-USE/RECYCLE:** Will use SDOT standard practice recycling of demolished concrete/metal debris when existing bridge is removed



Walking Surface Concrete Coating

- Watertight Elastomeric Coating - Concrete Crack Bridging.
- Seattle Weather Resistant - Slip Resistant Finish/Easy to Walk Surface.
- Improved Visual Appearance.
- Outstanding UV Resistance and Non-Yellowing.



Concrete Stain



Concrete Stain

Phillys Tilley Memorial Pedestrian Bridge, Fort Worth, TX



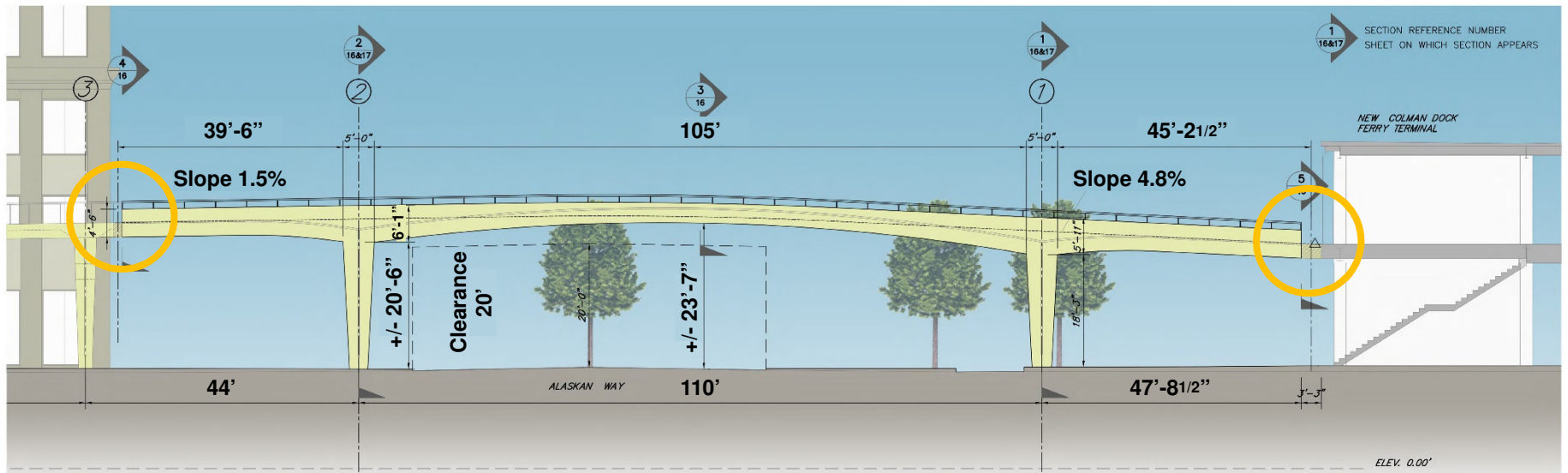
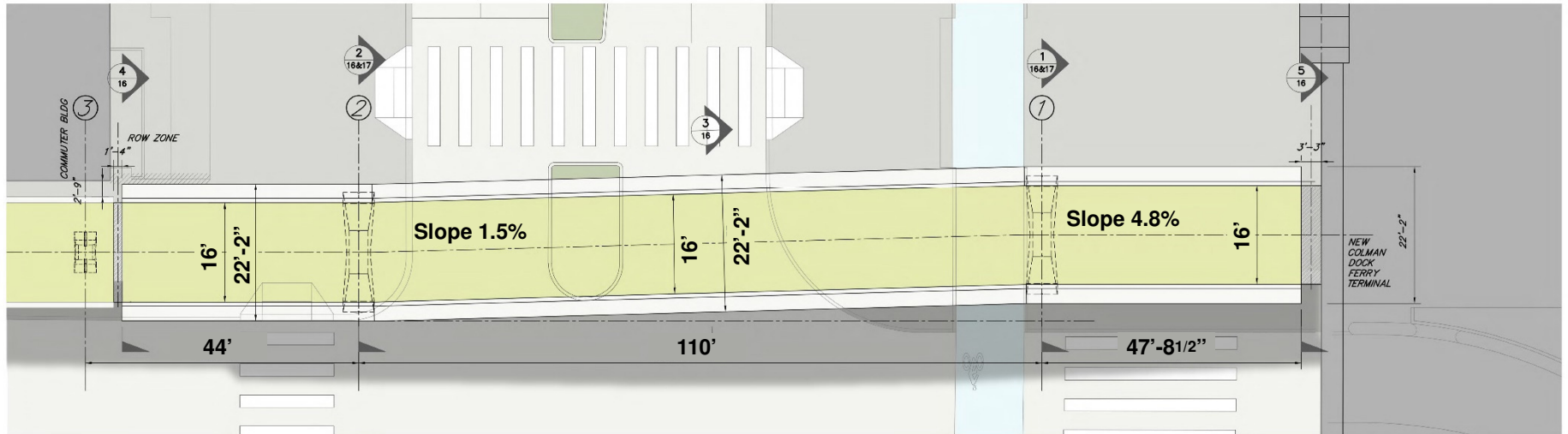
Concrete Stain

- Light Textured Natural Look.
- Uniform Color to all Concrete Surfaces.
- Resistant, Non-Chipping or Peeling.
- Water Based Stain.
- Stain and Concrete Sealer Application.

6. Transition at Ferry Terminal.



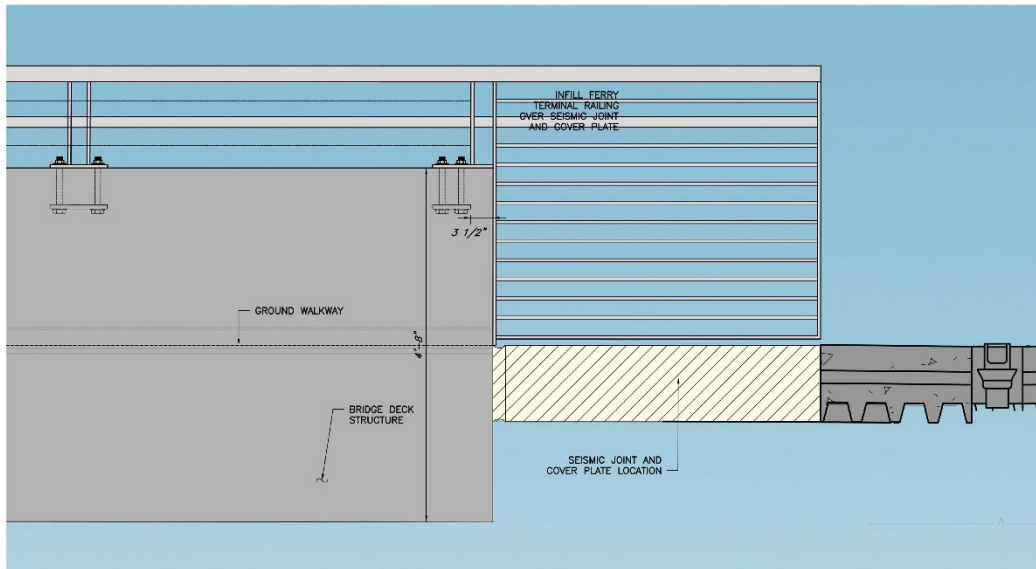
Bridge Railings Transitions



Bridge Railings Transitions

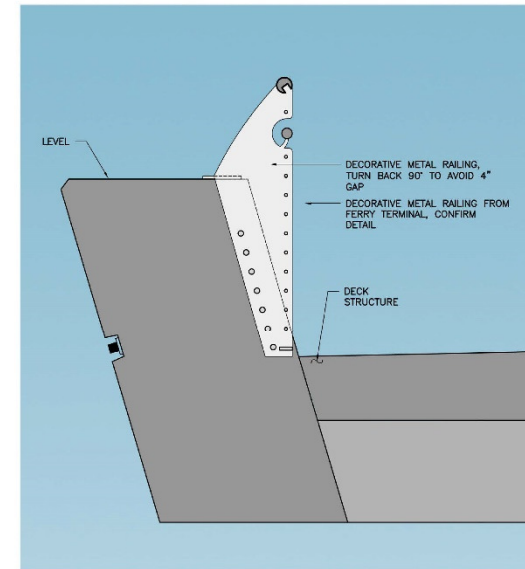


Transition at Colman Dock Ferry Terminal



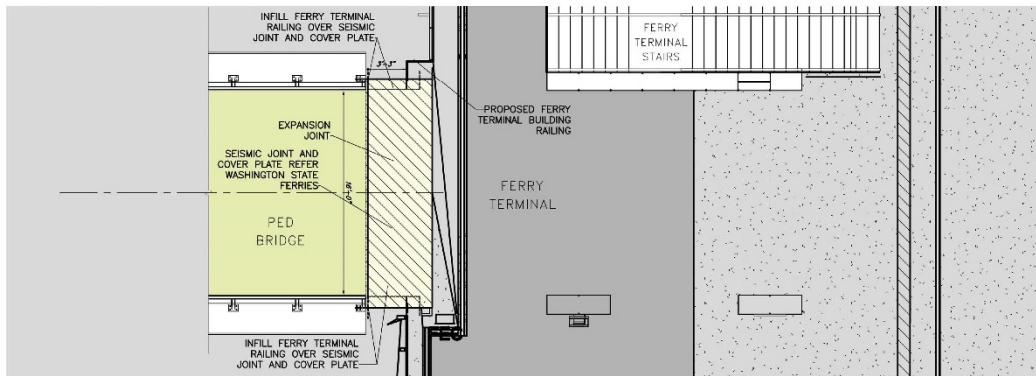
Railing Elevation at Ferry Expansion Joint

SCALE: 1 - 1/2" = 1'



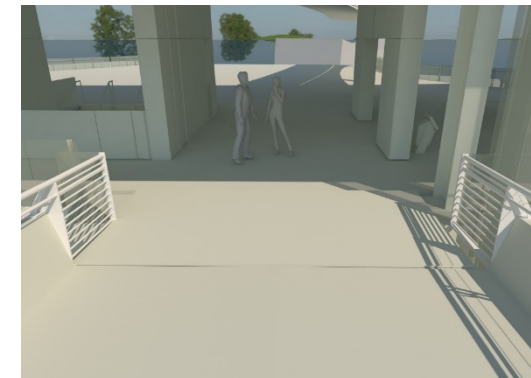
Railing Detail at Ferry Expansion Joint

SCALE: 1 - 1/2" = 1'

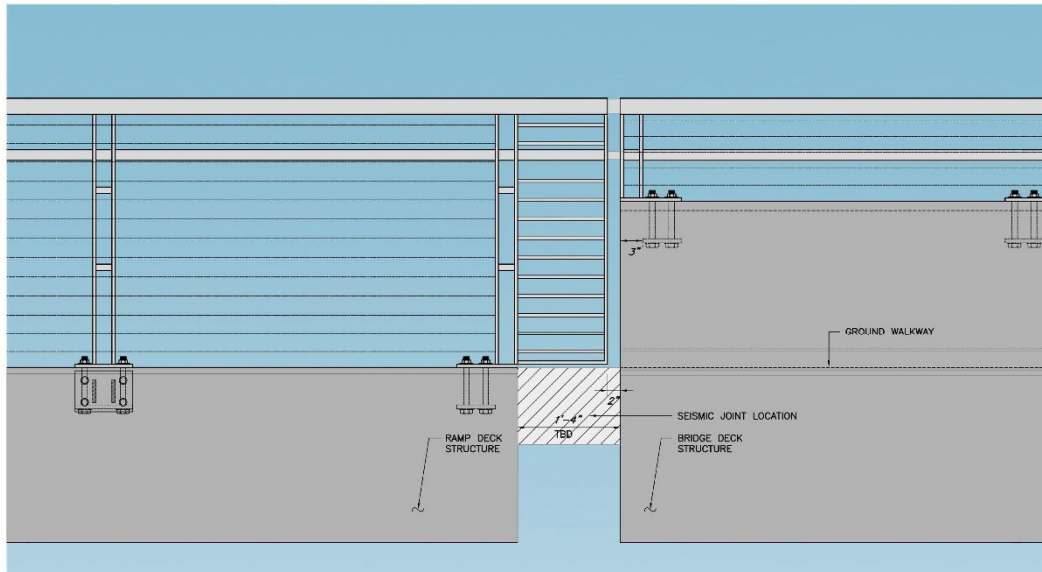


Railing Plan at Ferry Expansion Joint

SCALE: 4" = 1'

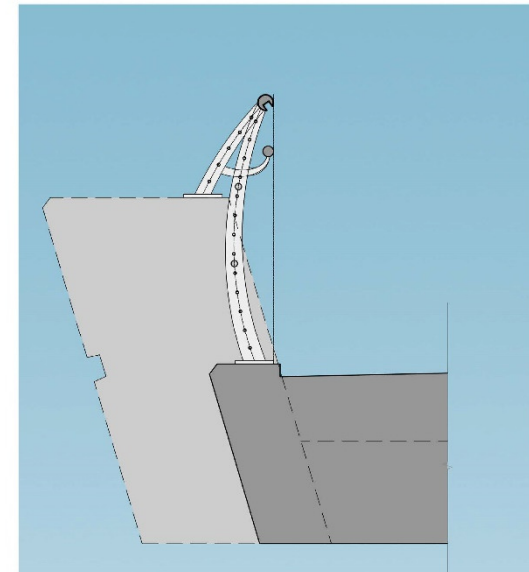


Transition at Commuter Building



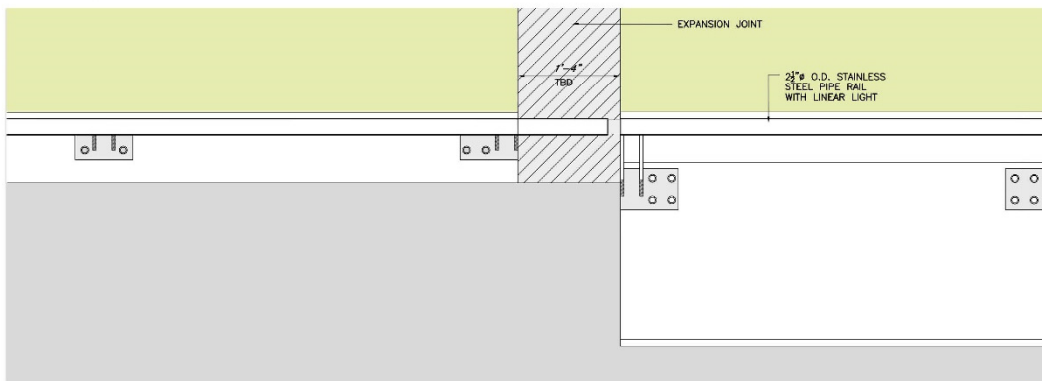
Railing Elevation at Ramp Expansion Joint

SCALE: 1 - 1/2" = 1'



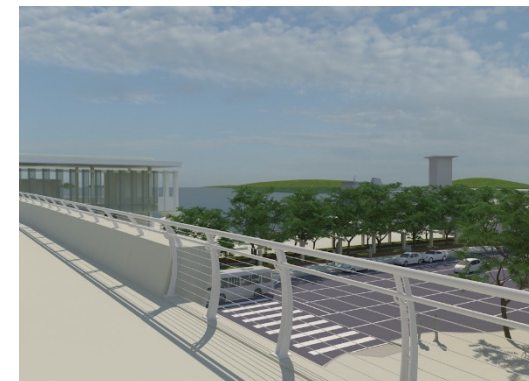
Railing Detail at Ramp Expansion Joint

SCALE: 1 - 1/2" = 1'



Railing Plan at Ramp Expansion Joint

SCALE: 1 - 1/2" = 1'



7. Intersection at 1st Ave.



Intersection at 1st Ave. and Marion St.



Marion Street Pedestrian Bridge

QUESTIONS AND ANSWERS

