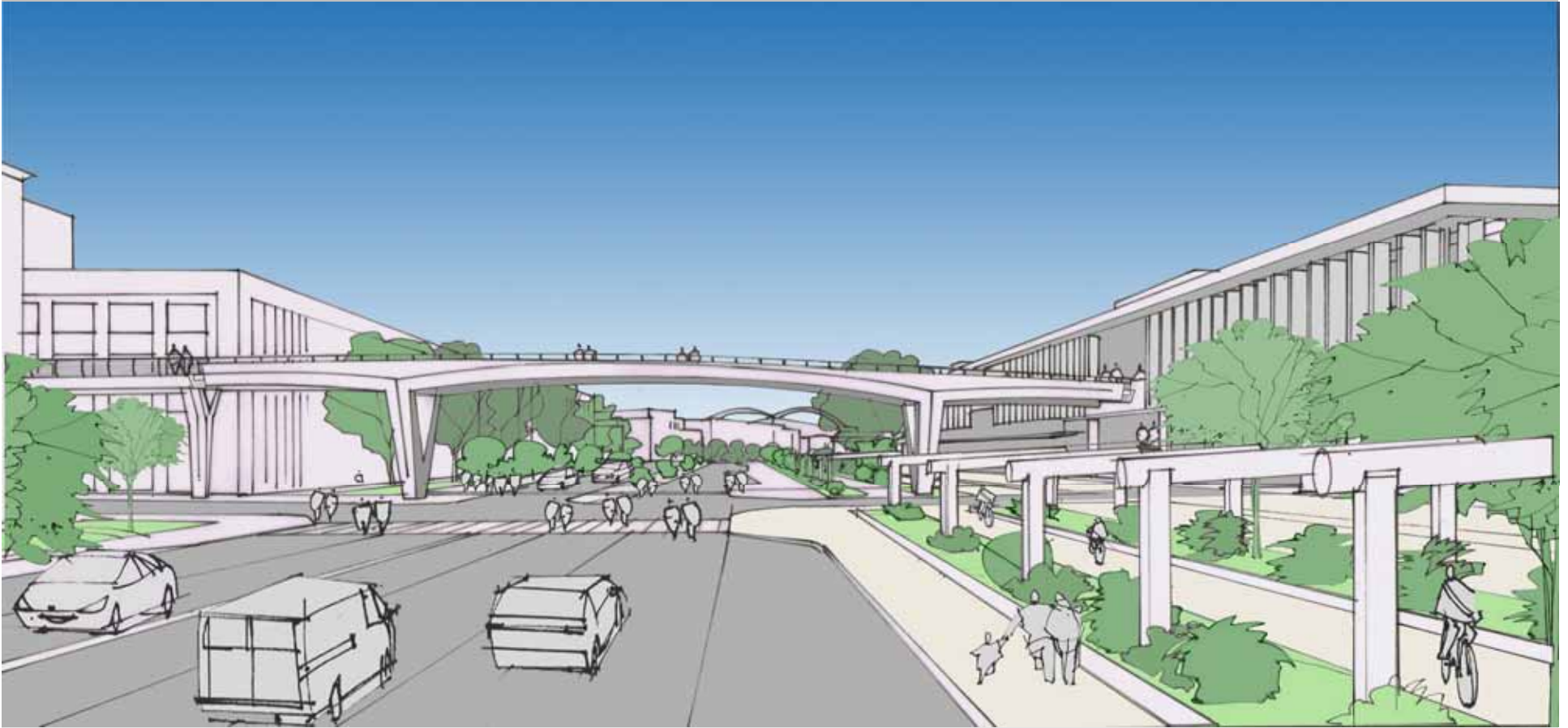


# Marion Street Pedestrian Bridge

## 30% Preliminary Design

August 2nd, 2018



## Organization Chart



Office of the  
Waterfront  
City of Seattle

**HDR**  
Engineer of Record

**Paul Bott, PE, SE**  
Project Manager

**Rosales + Partners**  
Bridge Design

**Miguel Rosales, AIA**  
Bridge Designer

*Project is WSDOT funded*

A map of the Seattle waterfront area. The map shows a grid of streets including S. Washington St., Yesler W., Columbian, Mario, Madison, Spruance, 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 gray with blue lines for streets and green areas for parks or waterfront. The text 'Pier 48' and 'Pier 55' are in black. The street names are in blue and white. The design goals are in white text on a blue background.

## 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.



## Existing Context









## 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



## February 2016 Design Options



**Option 1**  
**Extradosed CIP Concrete**

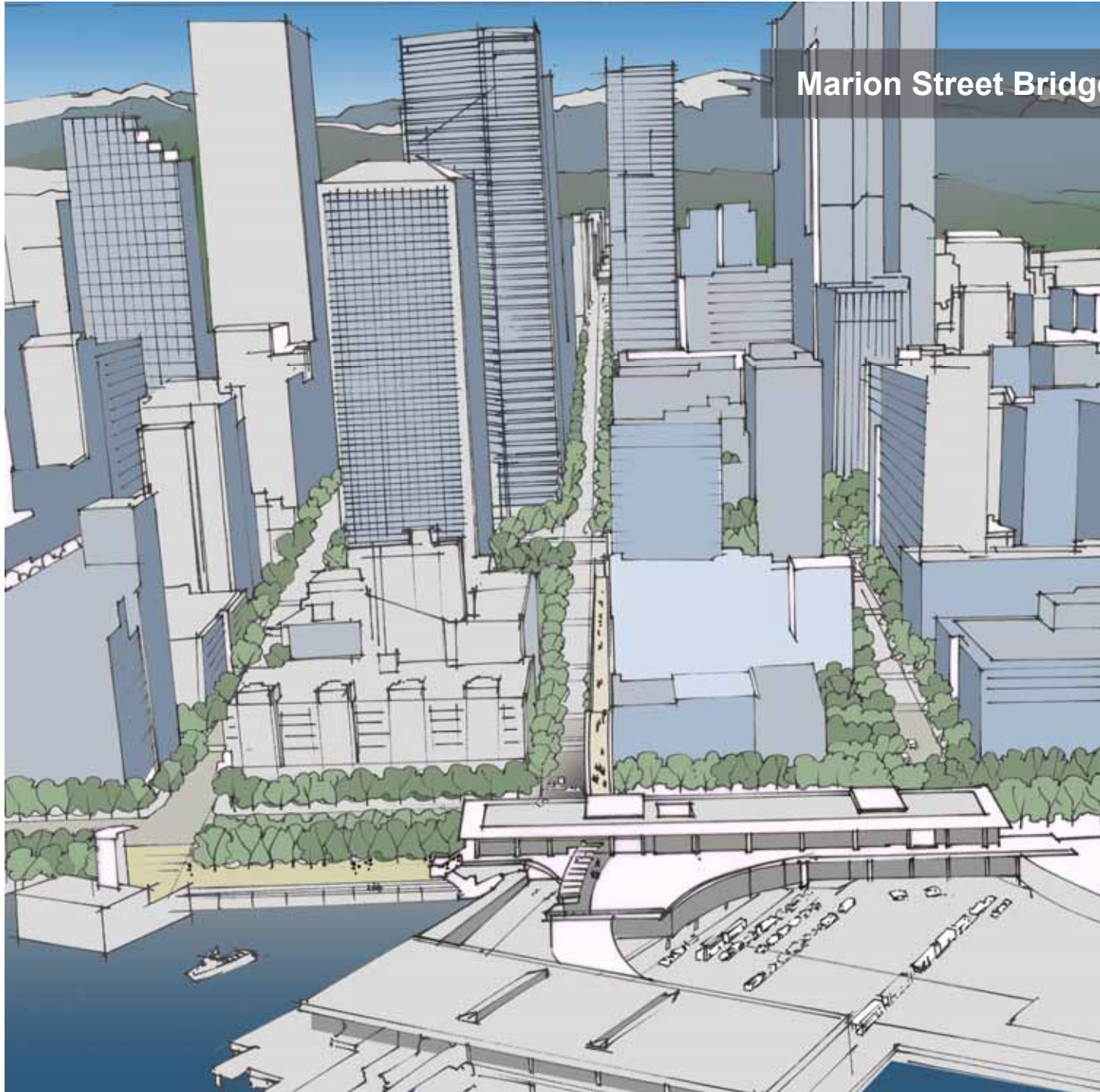


**Option 2**  
**CIP Concrete**



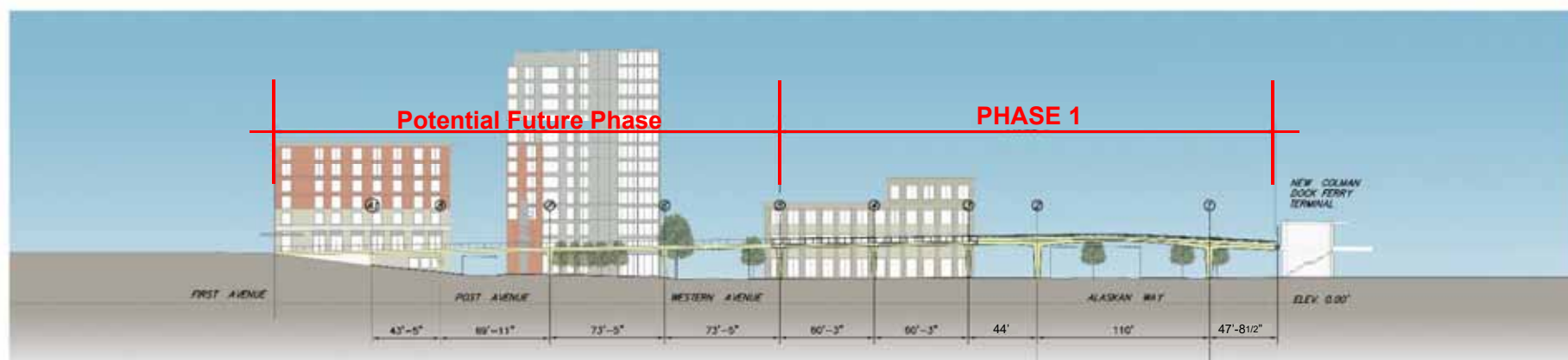
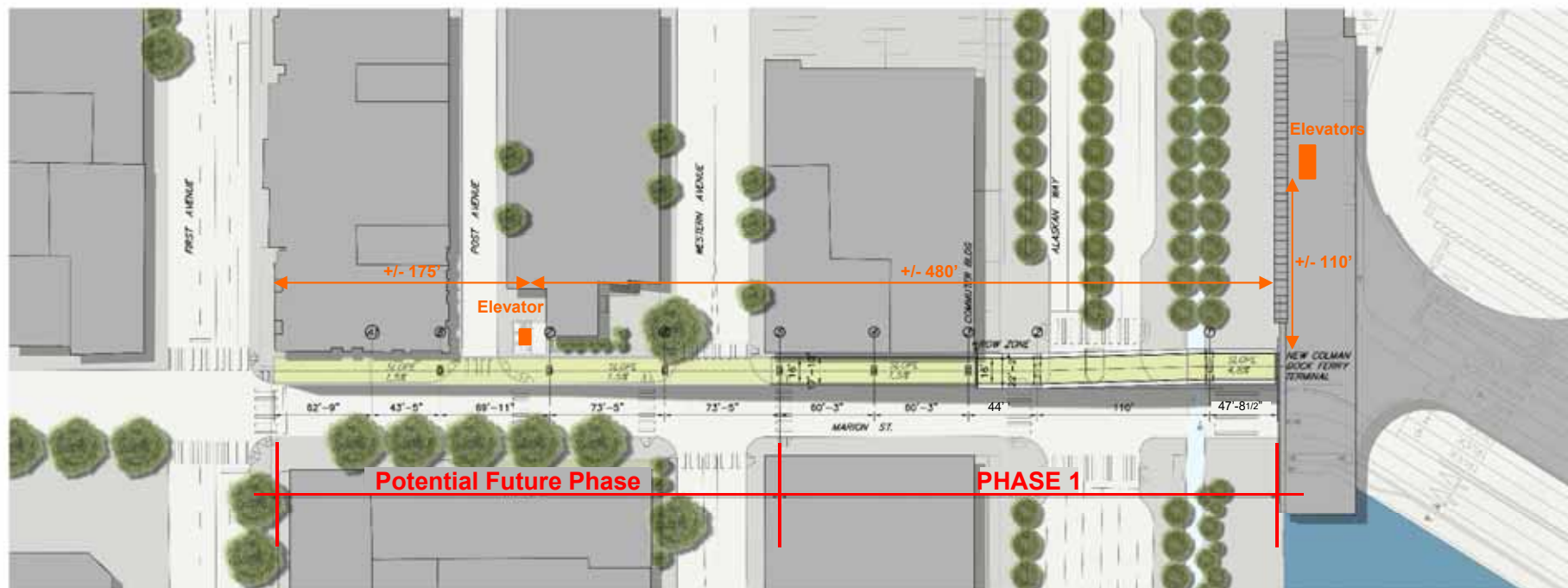
**Option 3**  
**Fink Truss Steel**

## Marion Street Bridge Concept

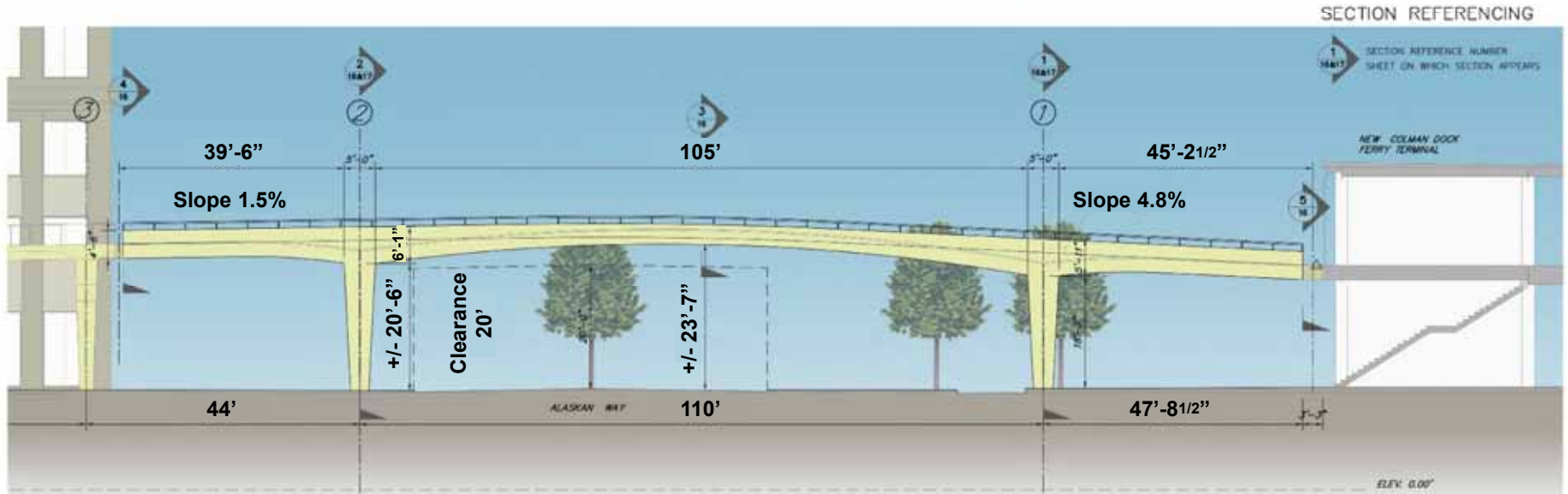
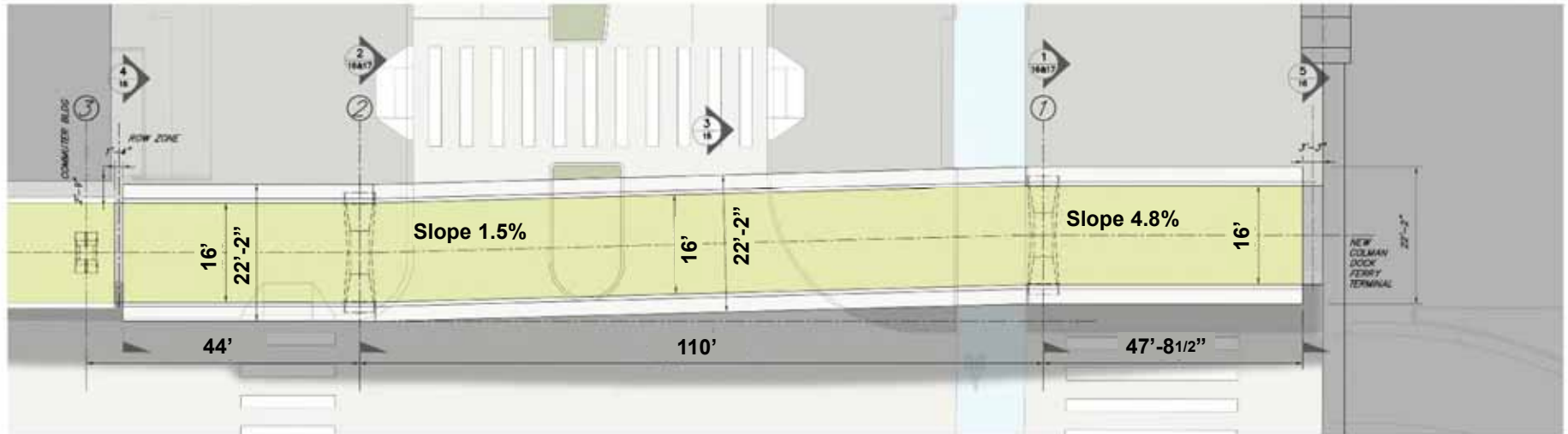




# Marion Street Pedestrian Bridge Replacement Project

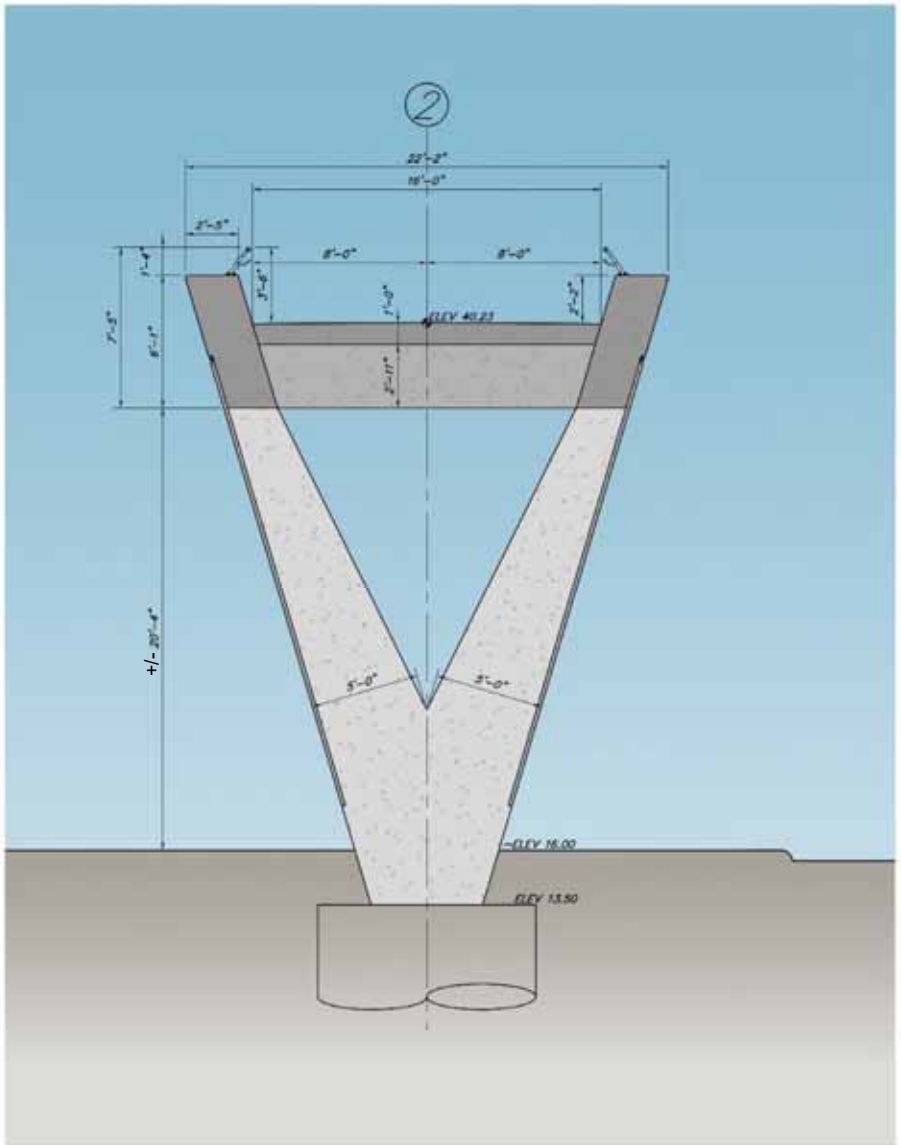
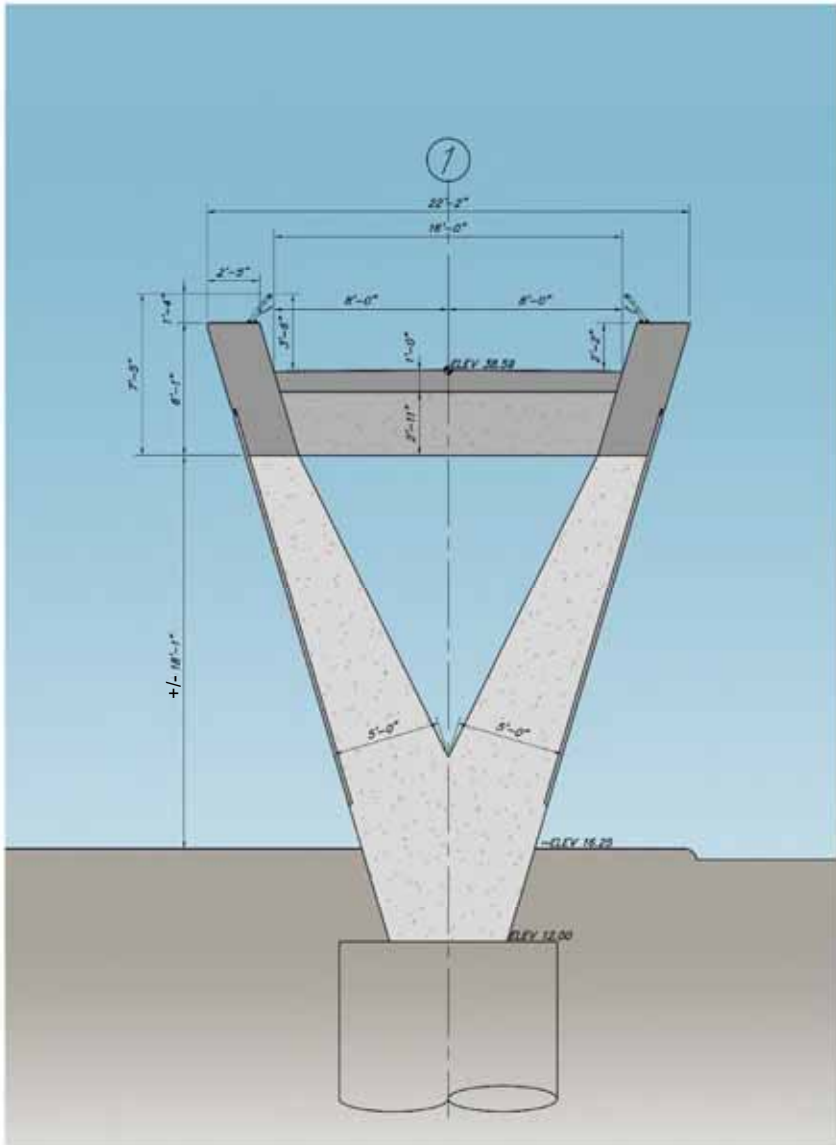


## Architectural Plan and Elevation - Main Span

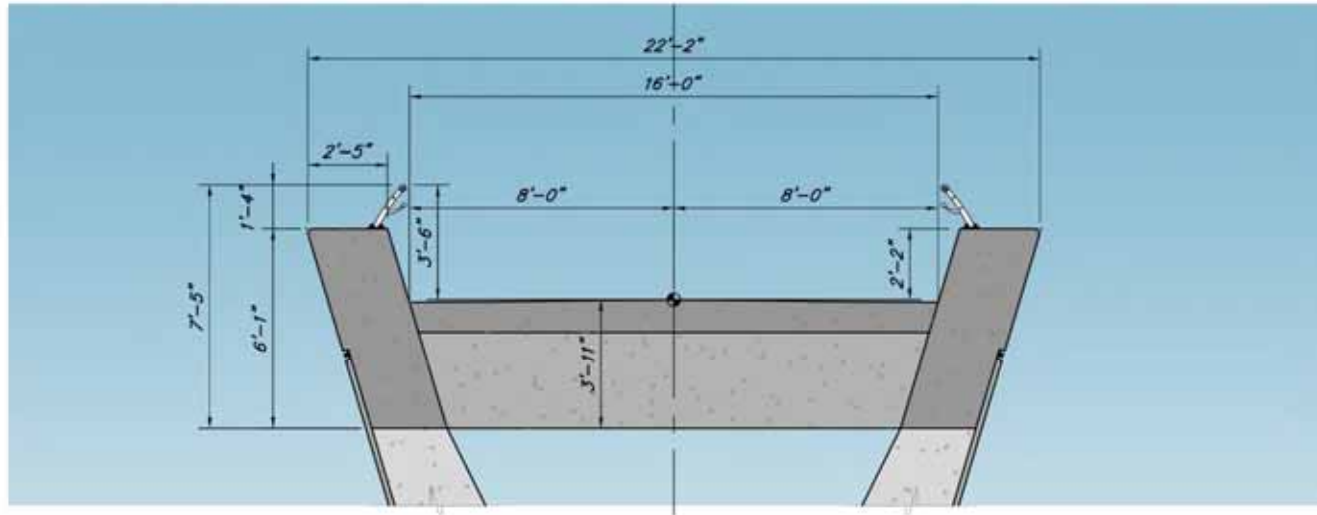




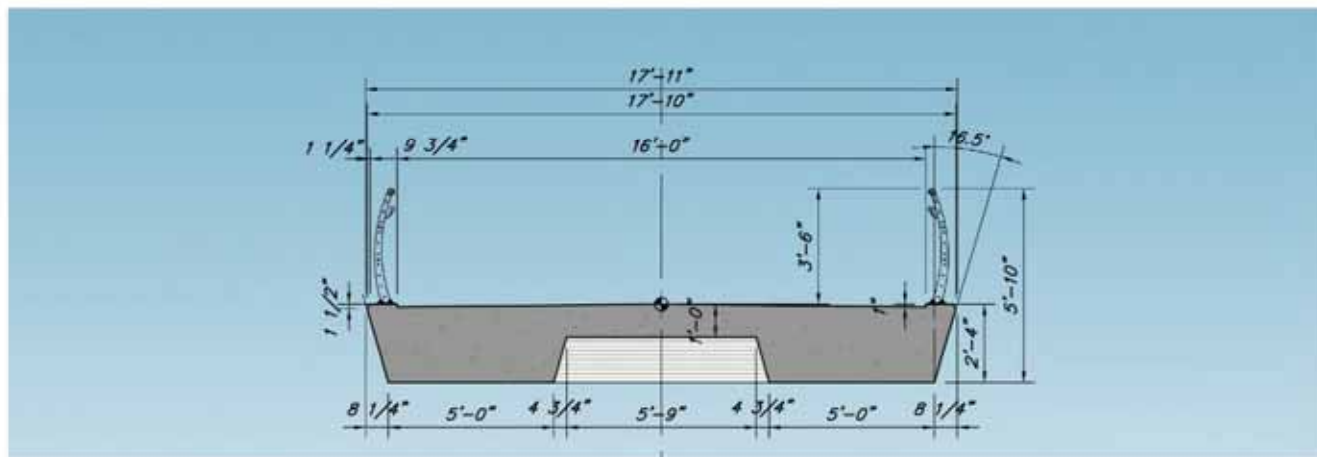
## Architectural / Structural Piers - Main Span



## Architectural Sections - Main Span and Approach



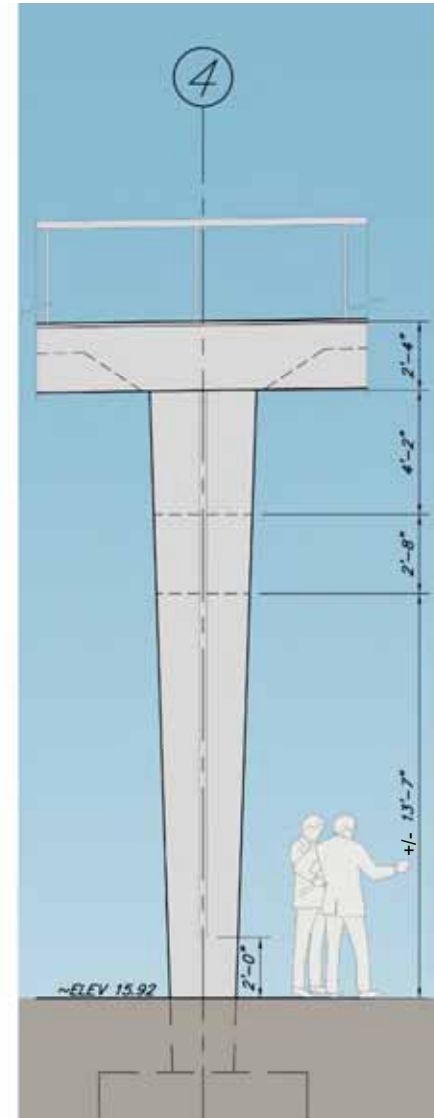
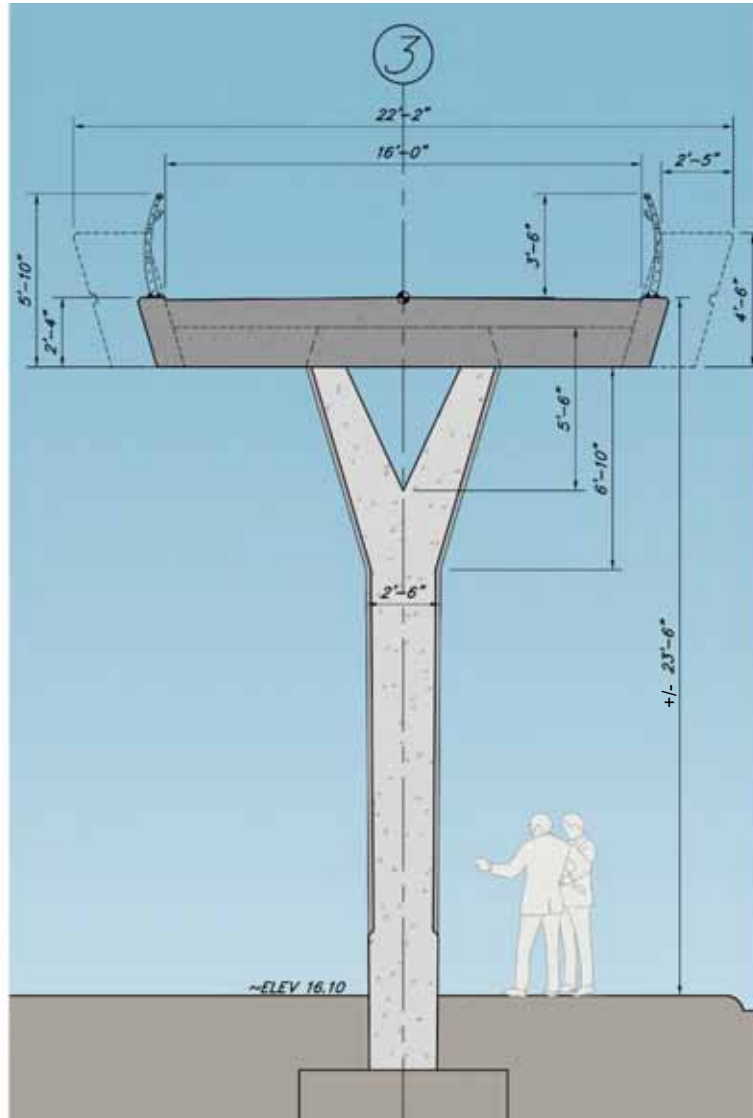
**Main Span Section**



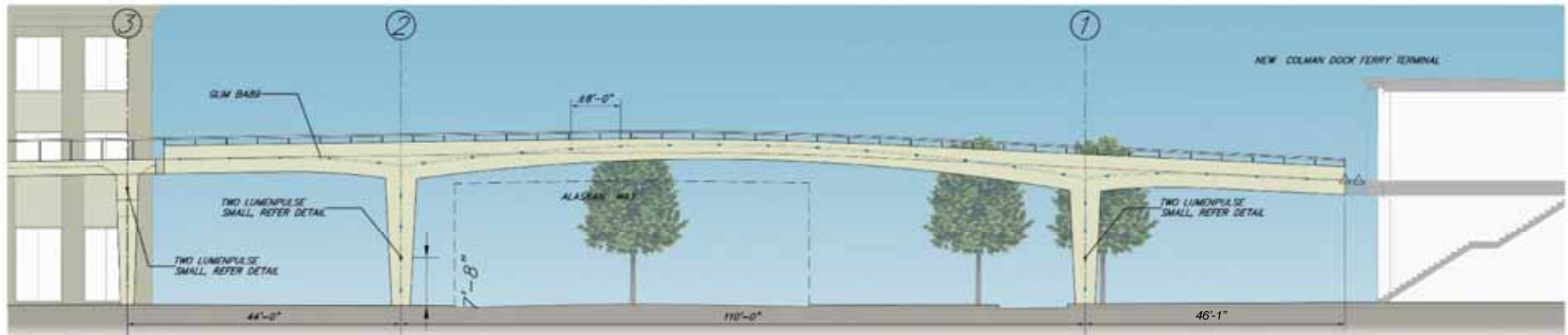
**Approach Span Section**



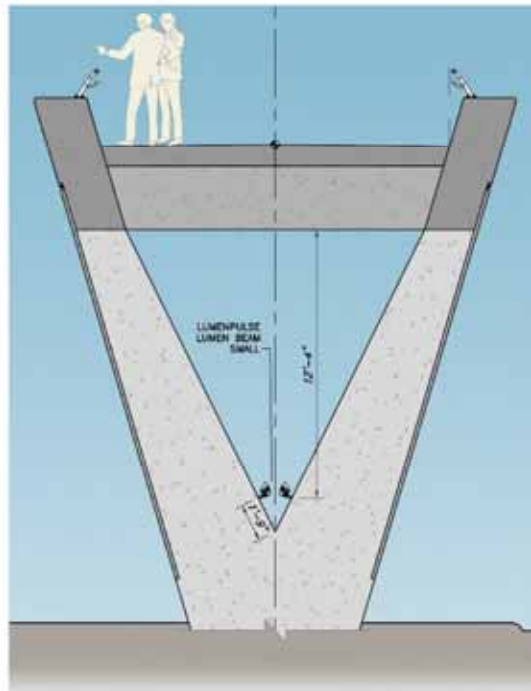
## Architectural / Structural Piers - Approach



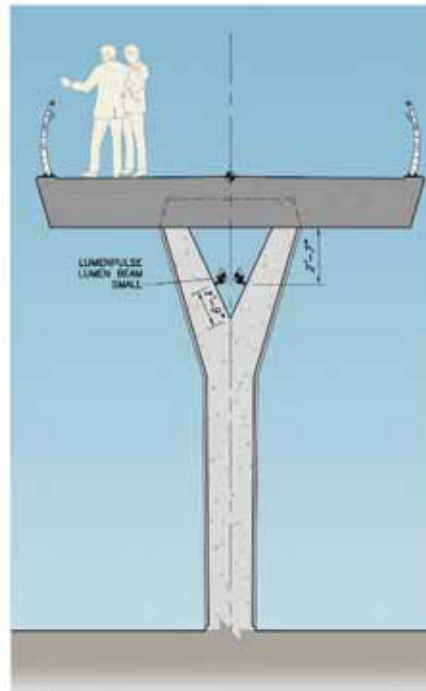
# Lighting Details - Main Span and Approach



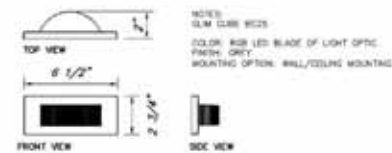
Elevation Lighting - Main Span  
SCALE: 1/8" = 1'



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



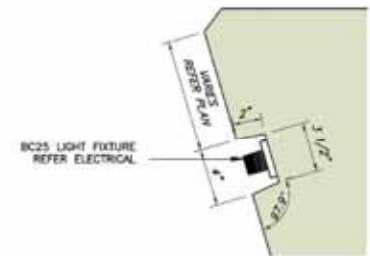
Ramp Pier Lighting (Typical of five)  
SCALE: 3/8" = 1'



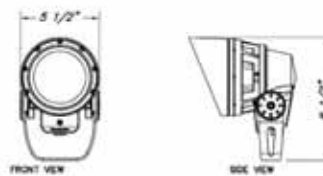
Reveal Light Fixture  
SCALE: 3" = 1'



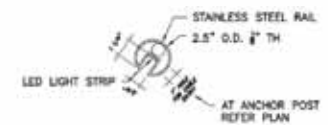
Pier Light Fixture  
SCALE: 3" = 1'



Reveal Lighting  
SCALE: 3" = 1'

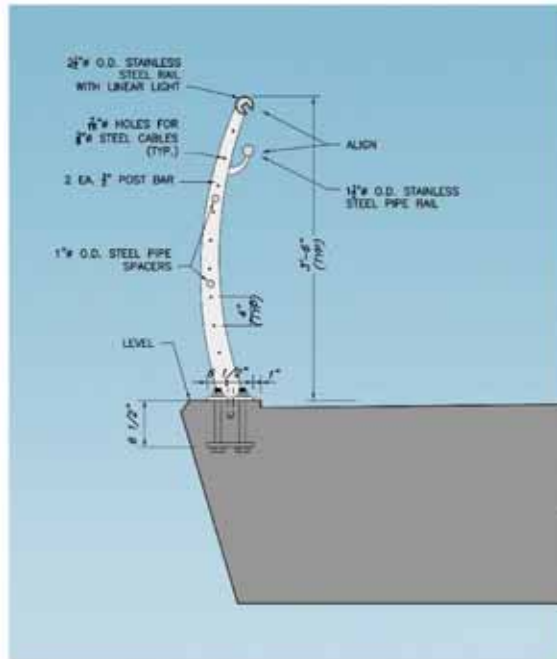


Stainless Steel Rail / Led Light Strip  
SCALE: 3" = 1'

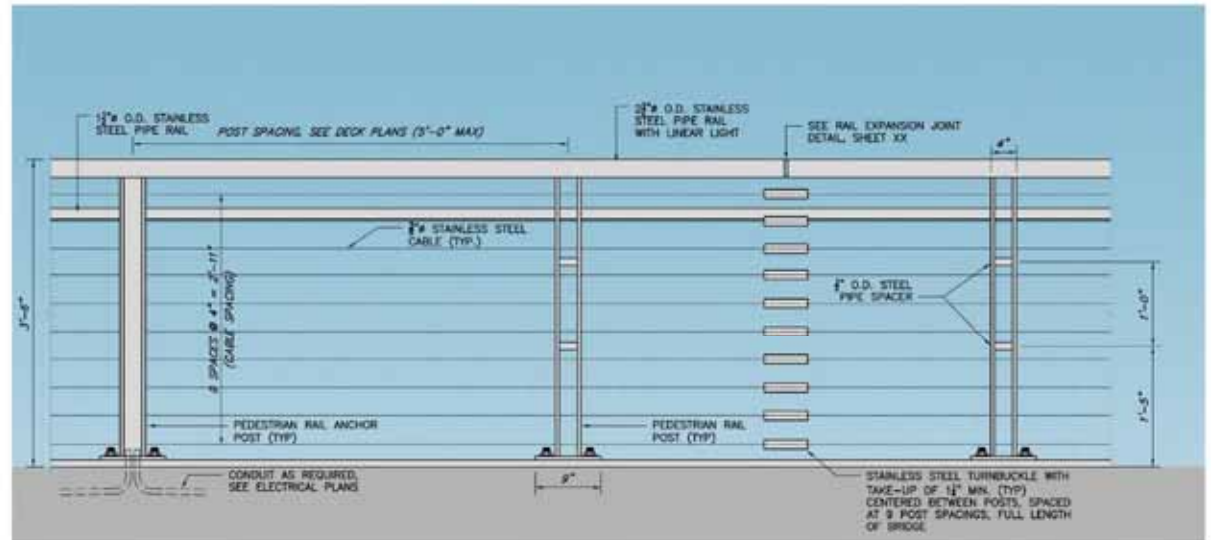




## Railing Details - Approach Bridge



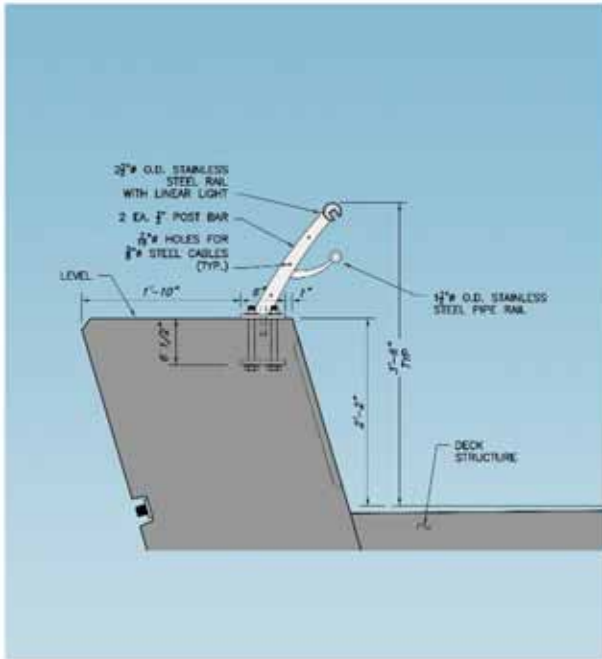
Pedestrian Rail Typical Post Section  
SCALE: 1 - 1/2" = 1'



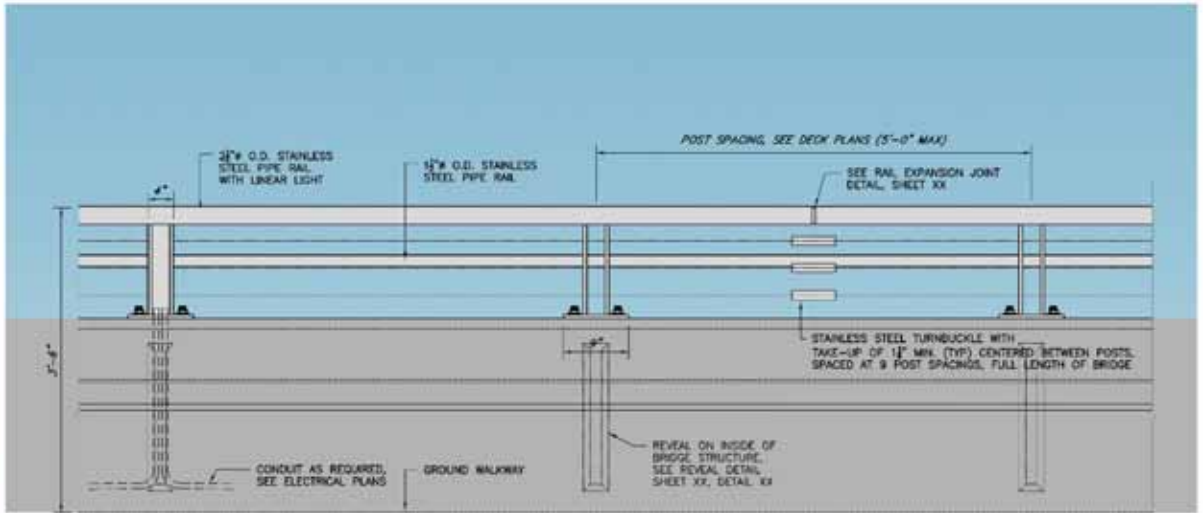
Pedestrian Rail Typical Post Elevation on Approach  
SCALE: 1 - 1/2" = 1'



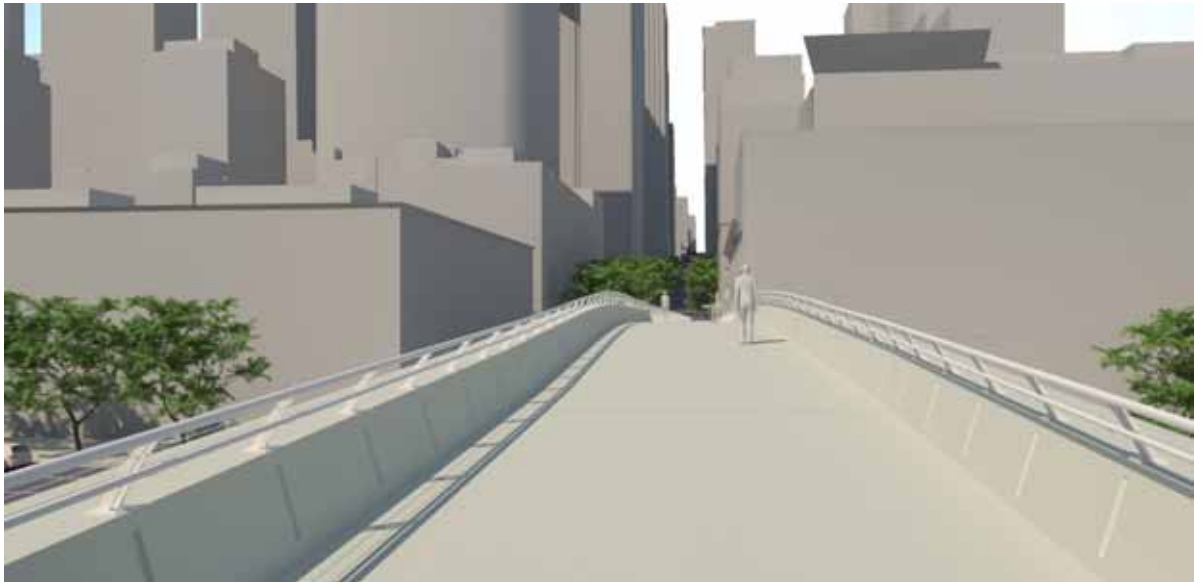
## Railing Details - Main Span



### Pedestrian Rail Typical Post Section on Bridge

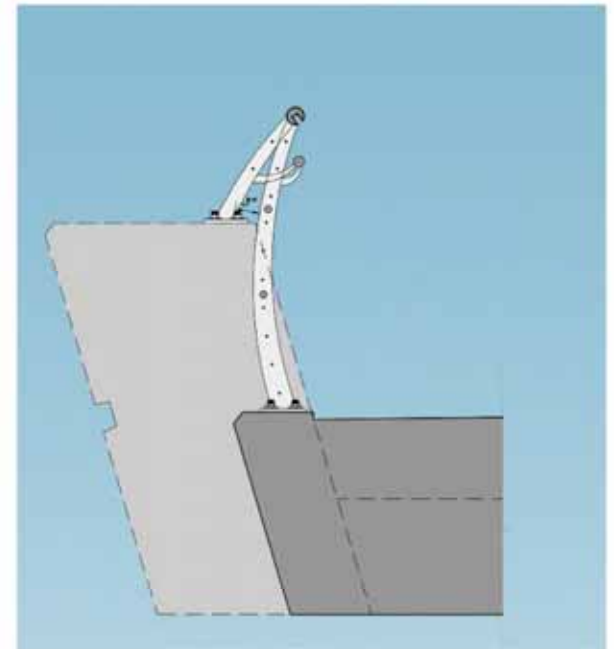
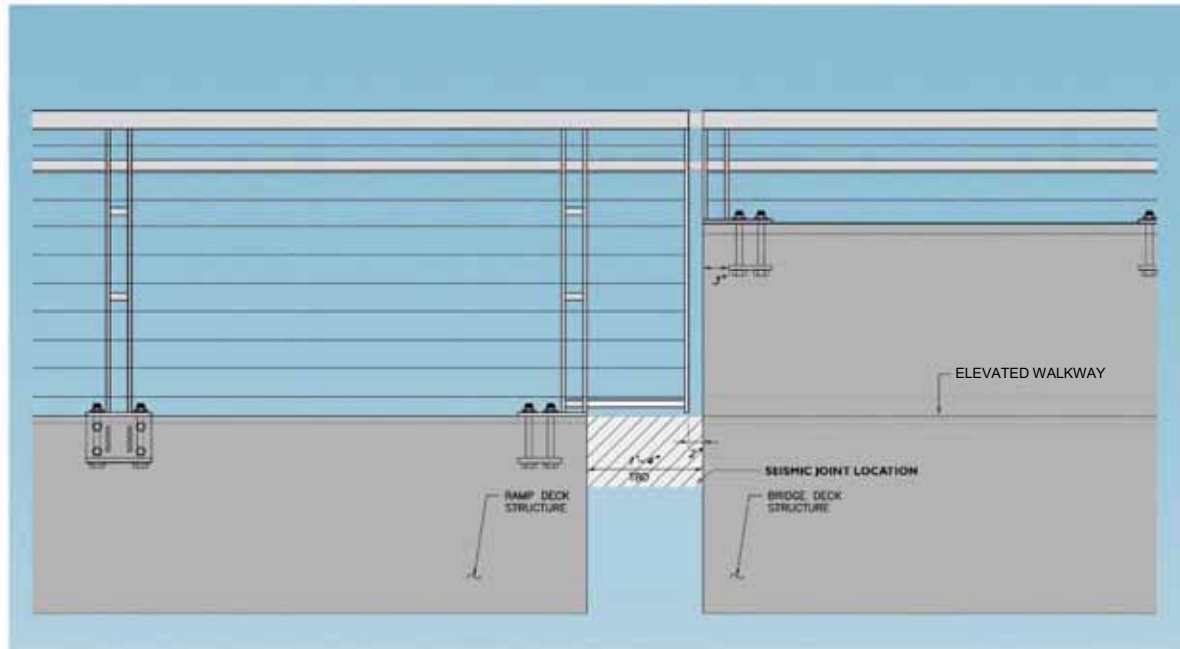


### Pedestrian Rail Typical Post Elevation on Bridge





## Railing Details - Approach Bridge Side

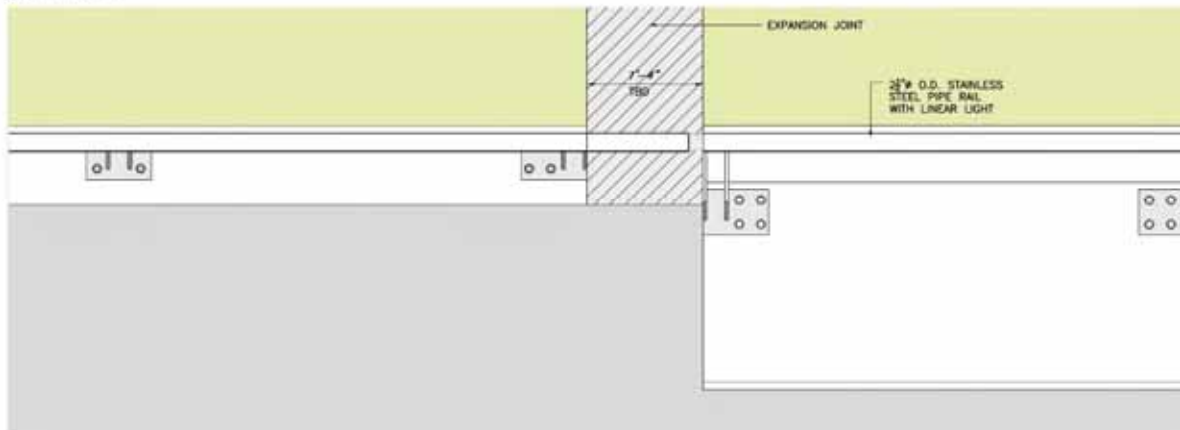


**Railing Elevation at Ramp Expansion Joint**

SCALE: 1 - 1/2" = 1'

**Railing Detail at Ramp Expansion Joint**

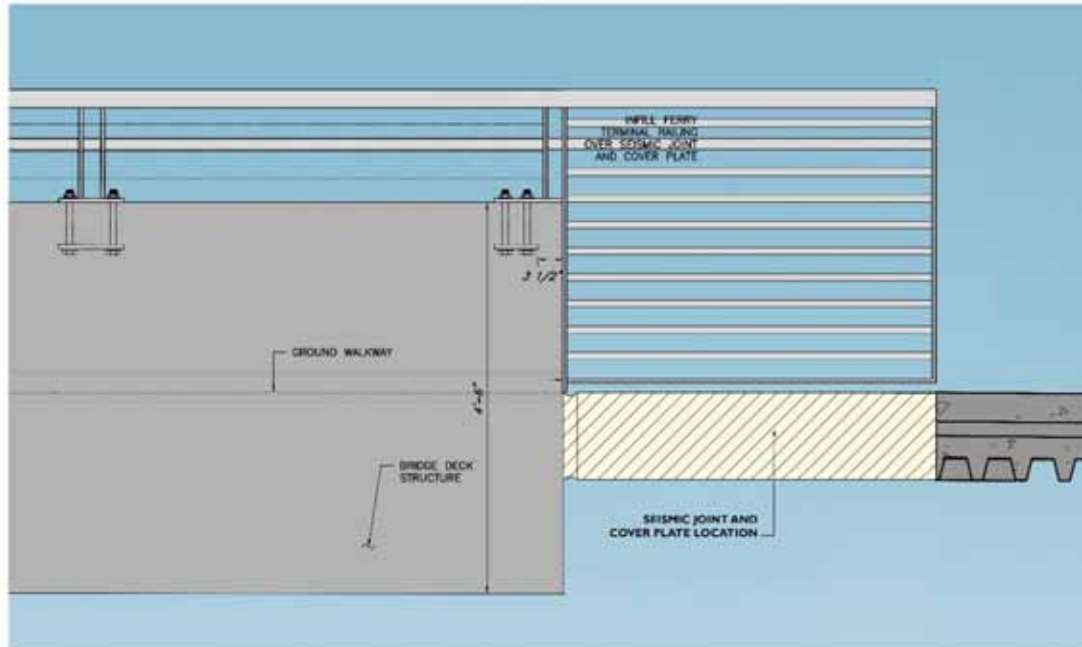
SCALE: 1 - 1/2" = 1'



**Railing Plan at Ramp Expansion Joint**

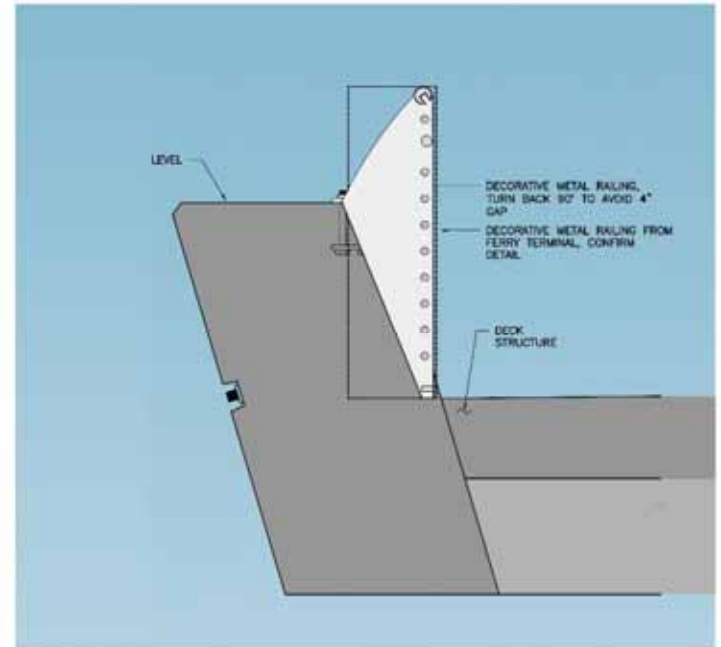
SCALE: 1 - 1/2" = 1'

## Railing Details - Ferry Terminal Side



Railing Elevation at Ferry Expansion Joint

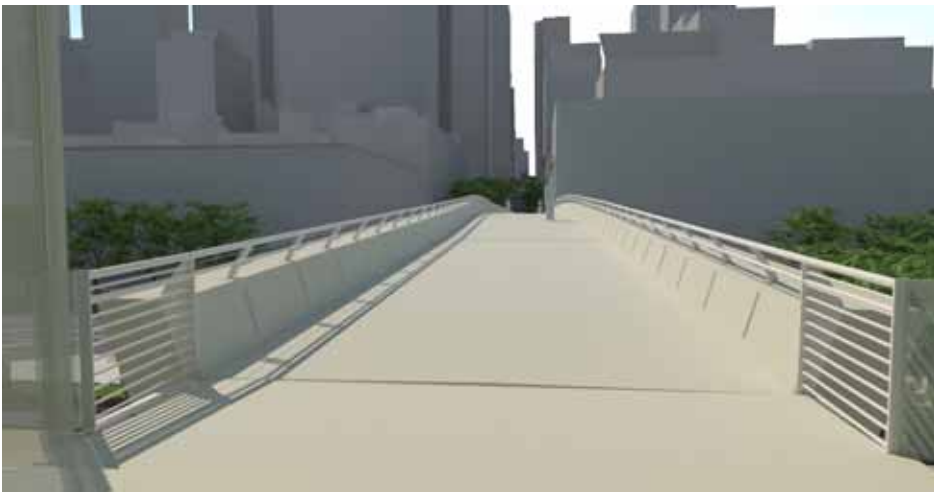
SCALE: 1 - 1/2" = 1'



Railing Detail at Ferry Expansion Joint

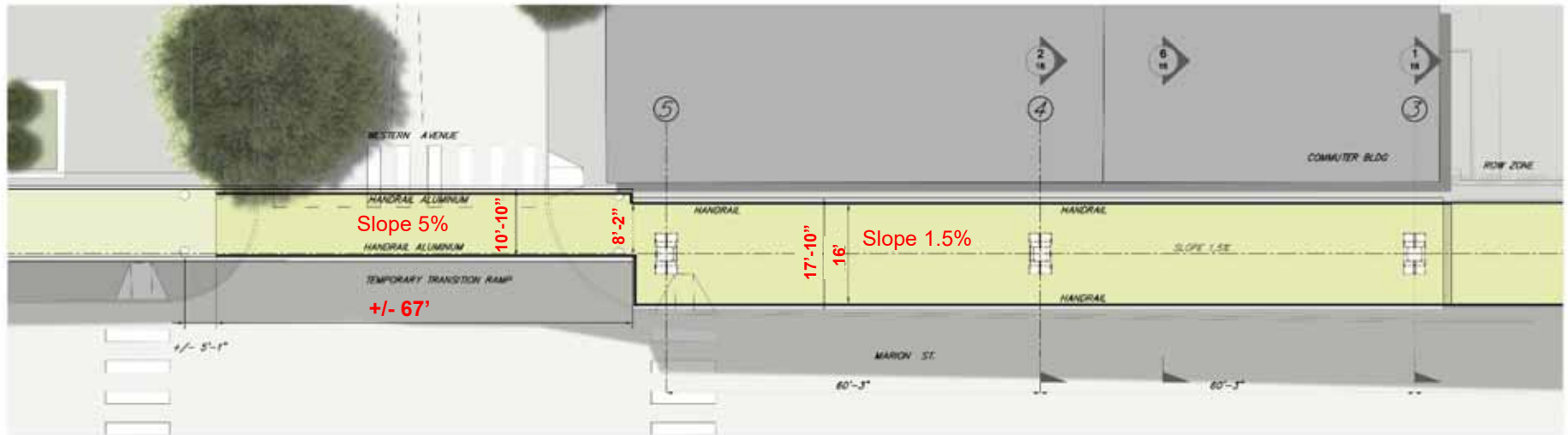
SCALE: 1 - 1/2" = 1'

## Railing Details - Ferry Terminal Side

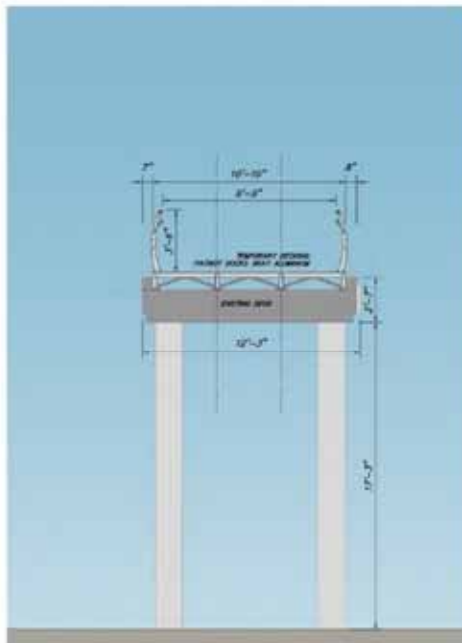
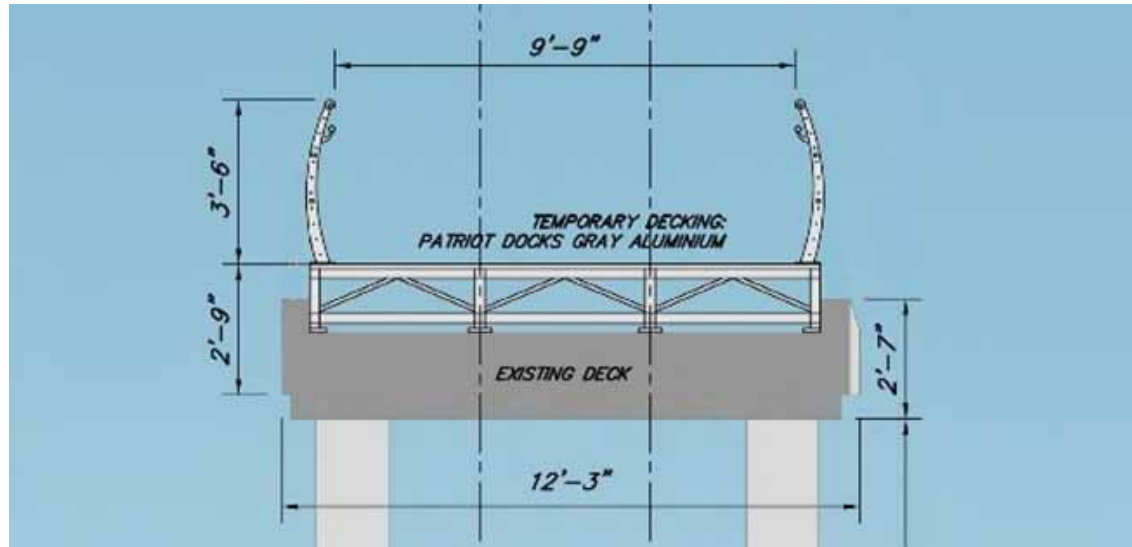




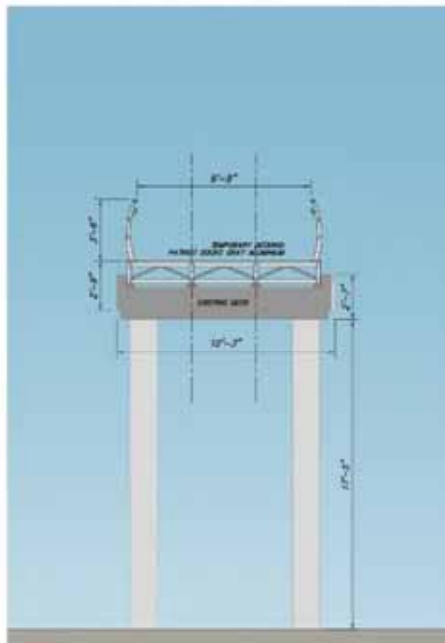
## Temporary Transition Ramp – Plan and Elevation



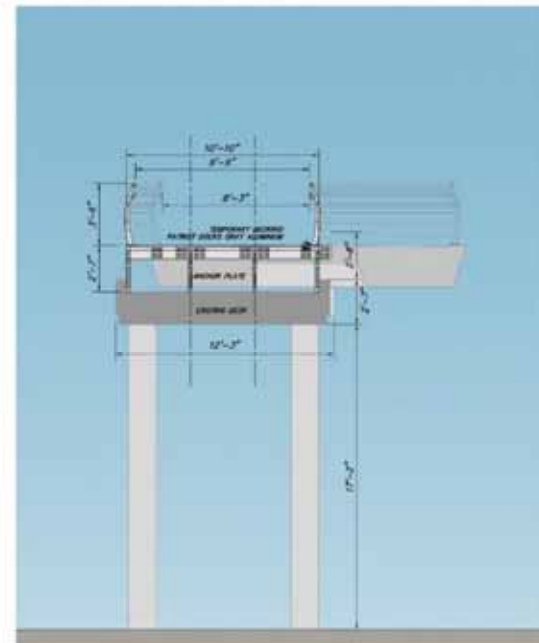
## Architectural Section – Temporary Transition



Transition Ramp Section A - A

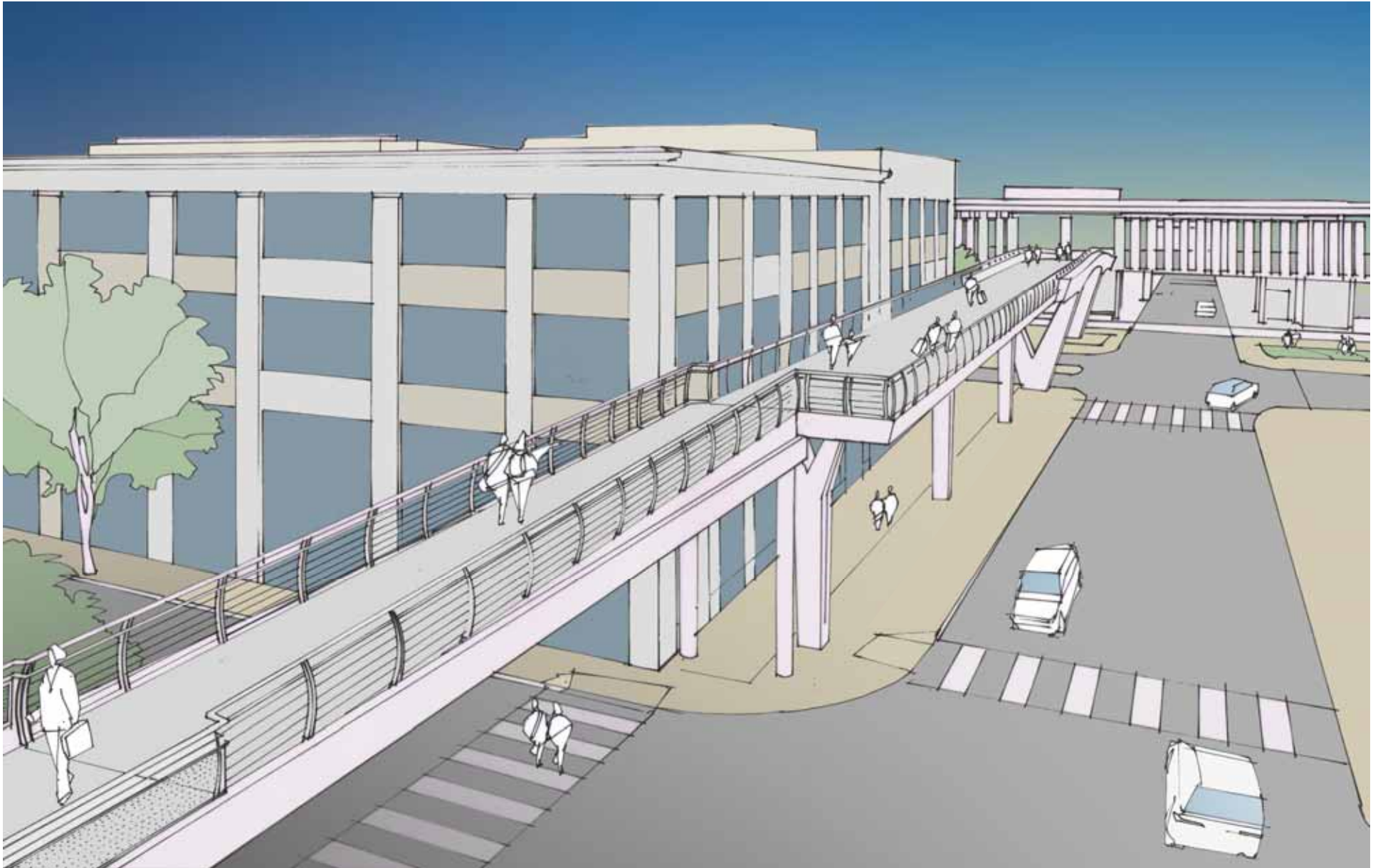


Transition Ramp Section B - B



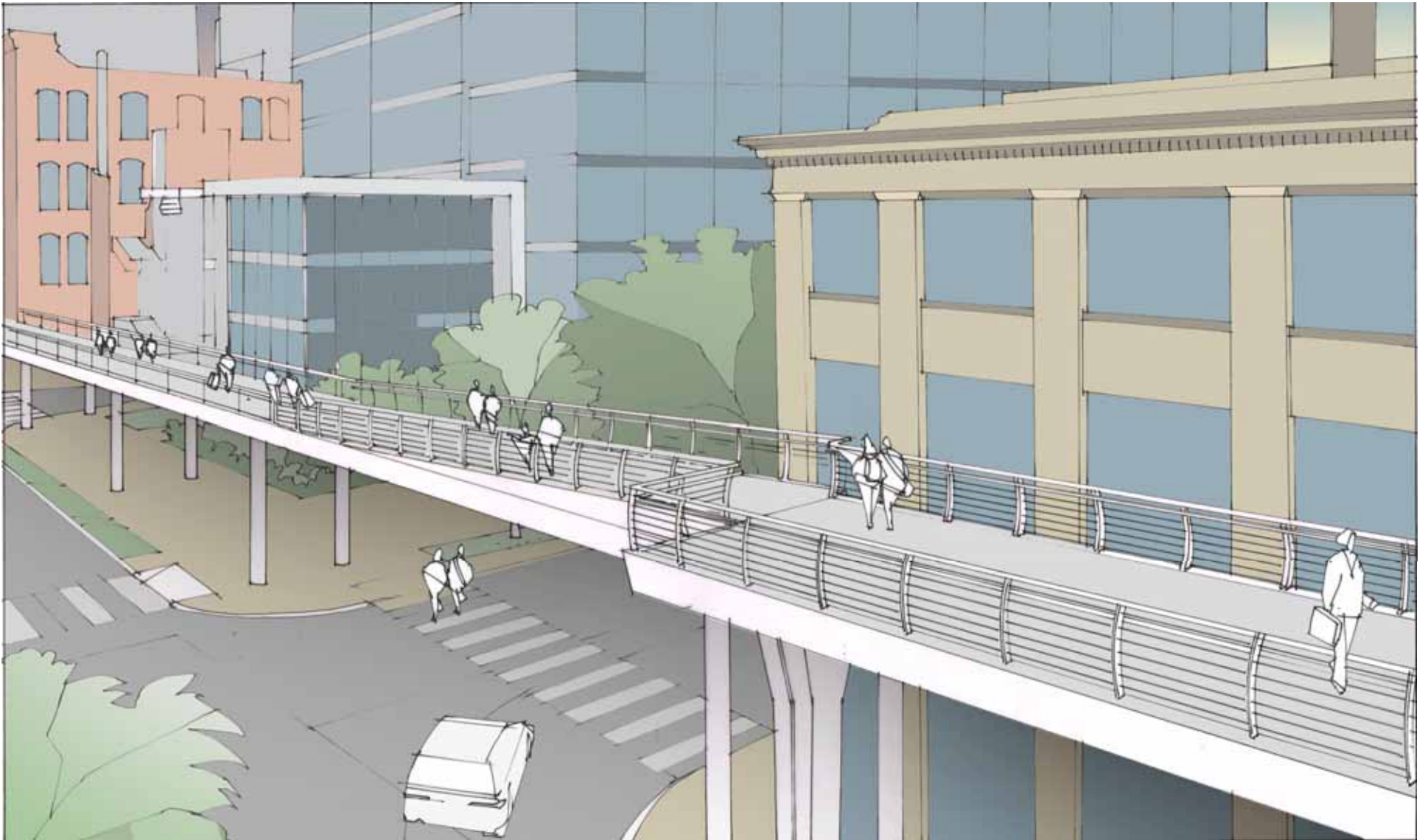
Transition Ramp Section C - C

## Temporary Transition Ramp





## Temporary Transition Ramp



## Temporary Transition Ramp

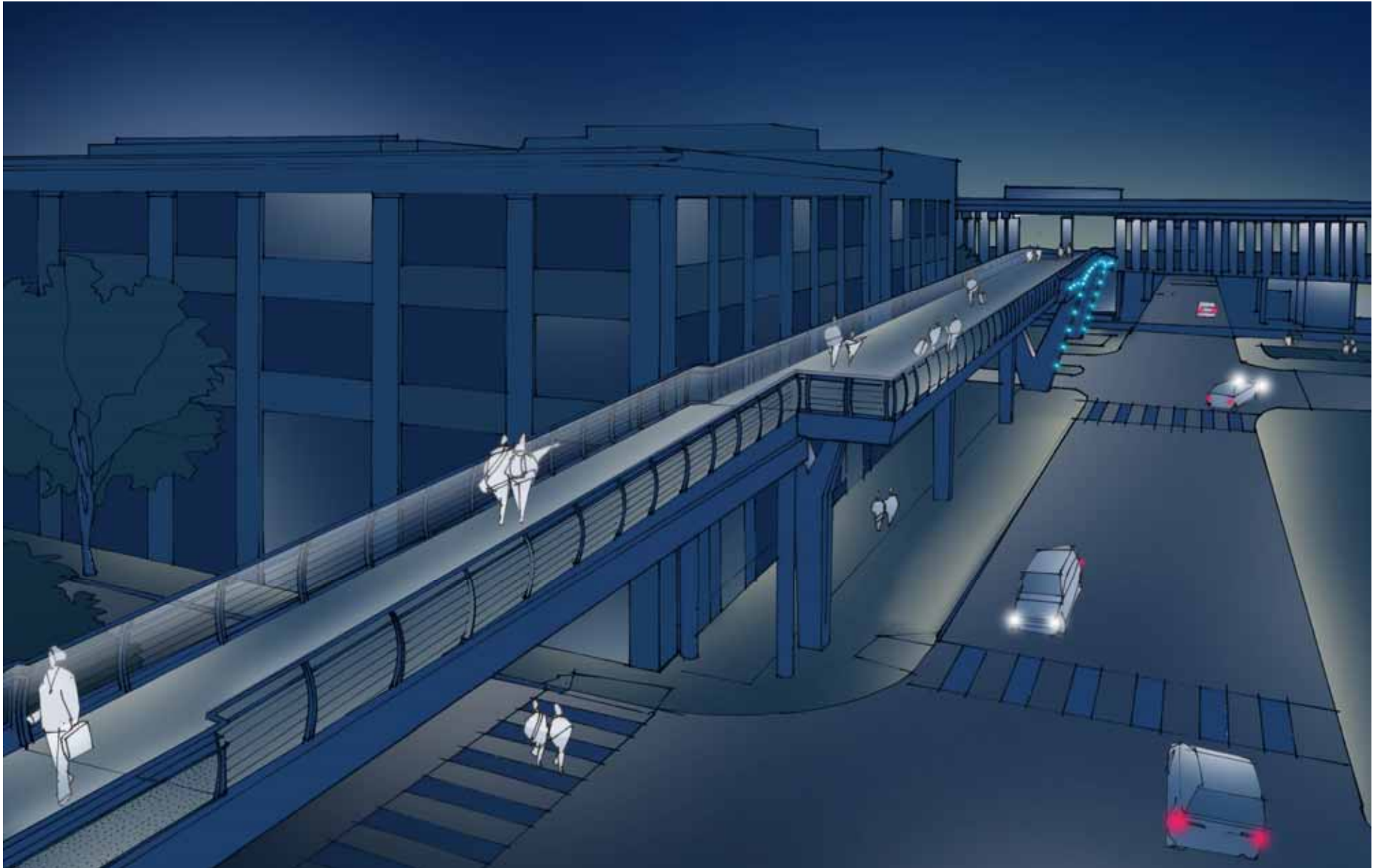


## Temporary Transition Ramp

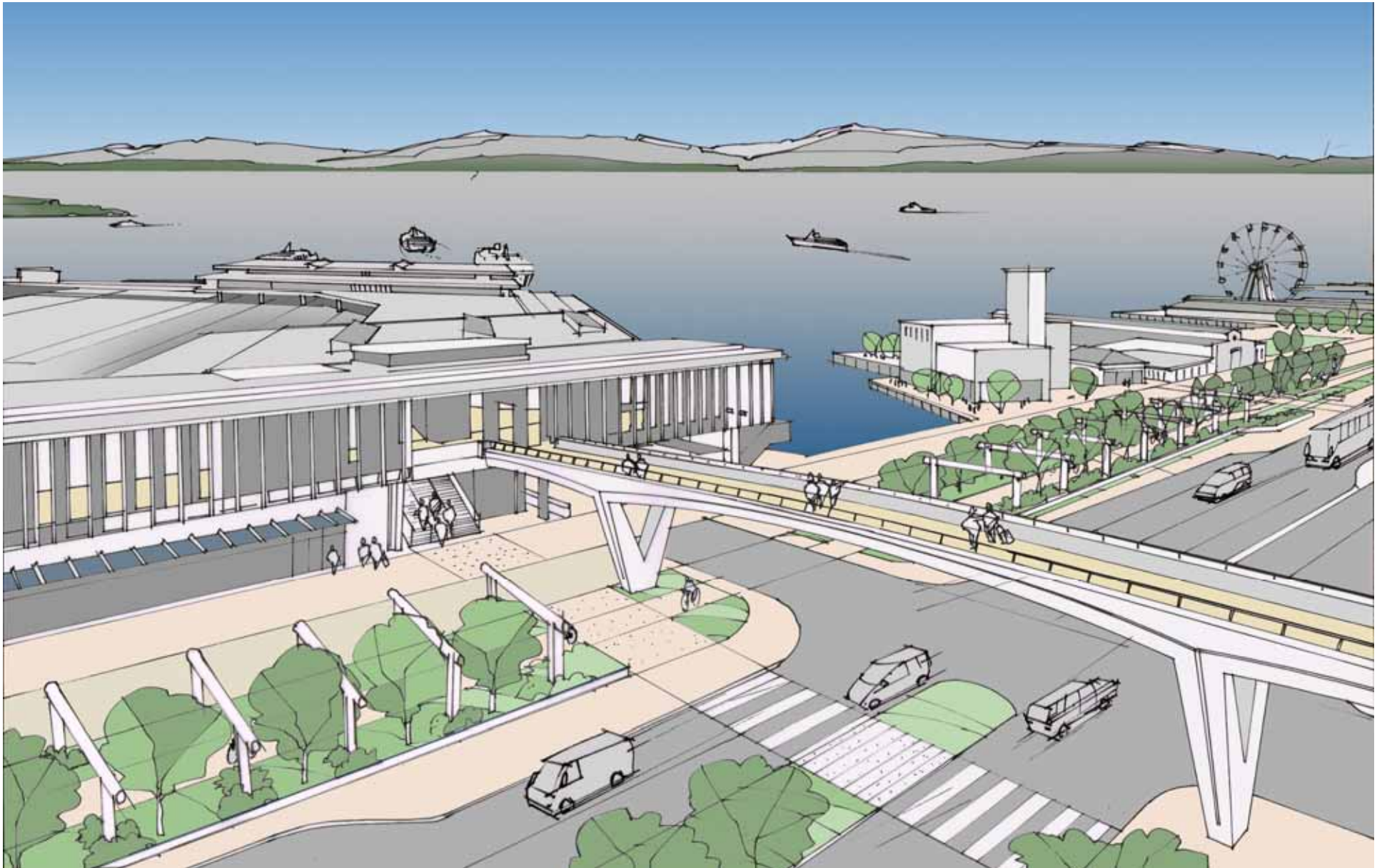




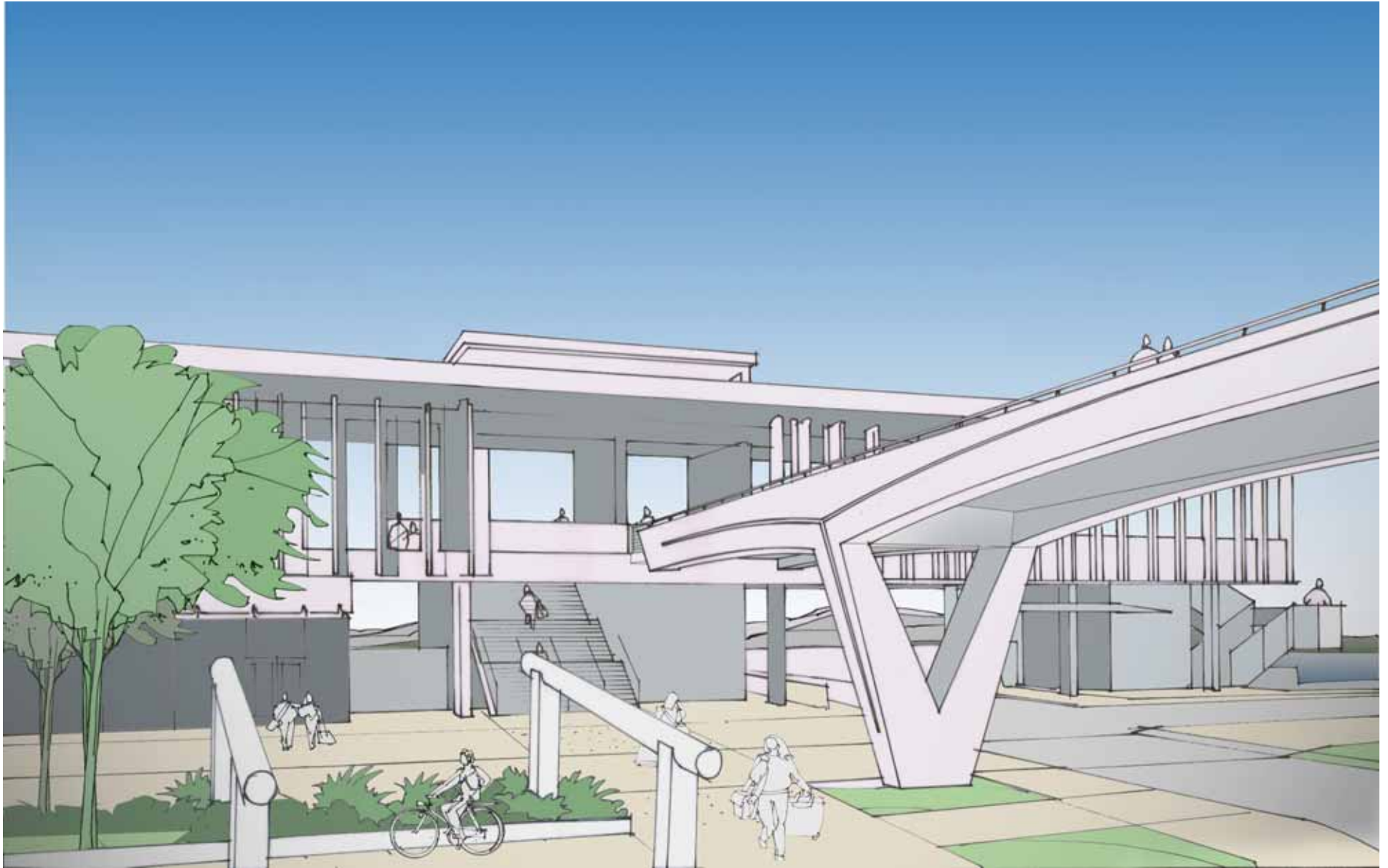
## Temporary Transition Ramp



## Marion Street Pedestrian Bridge

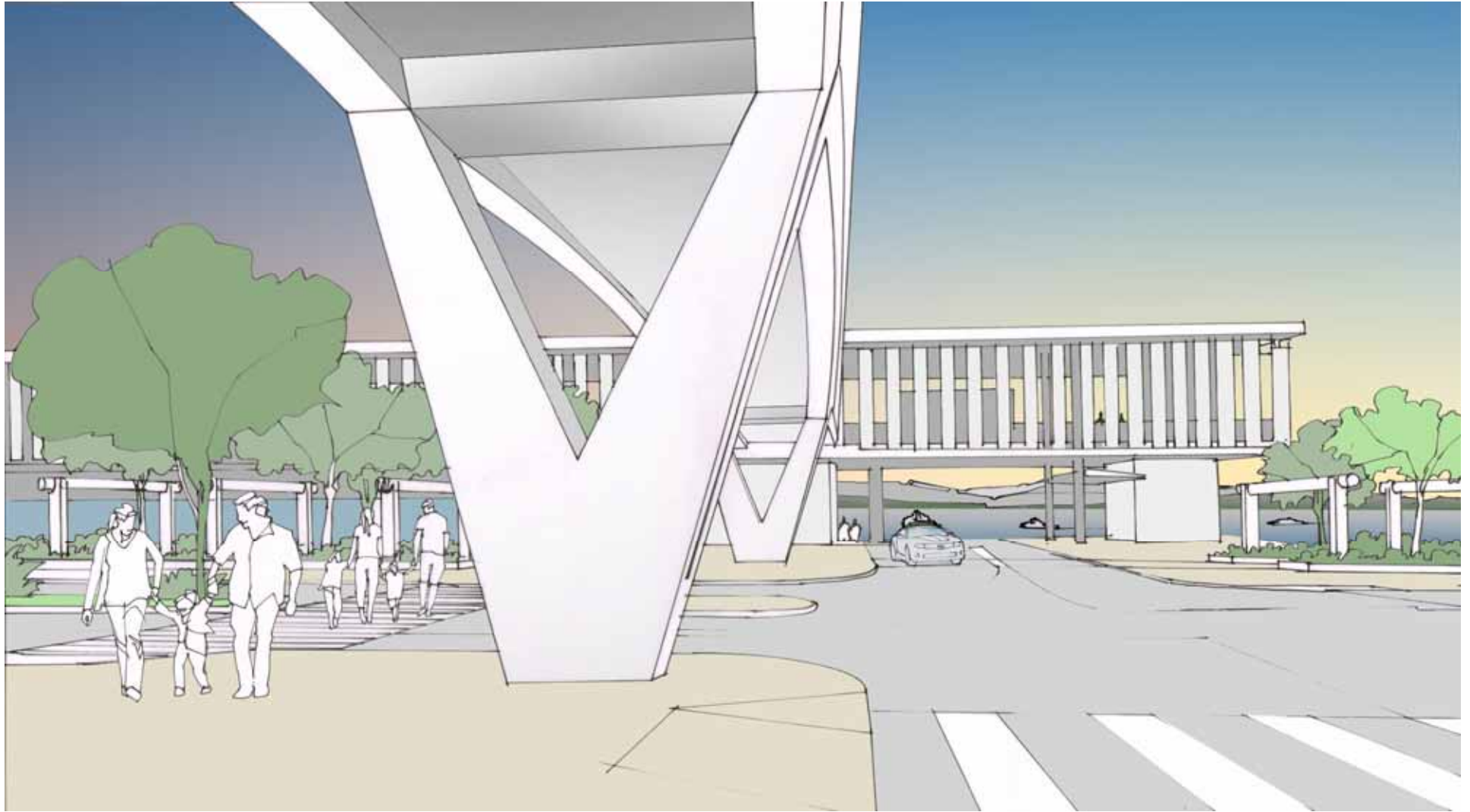








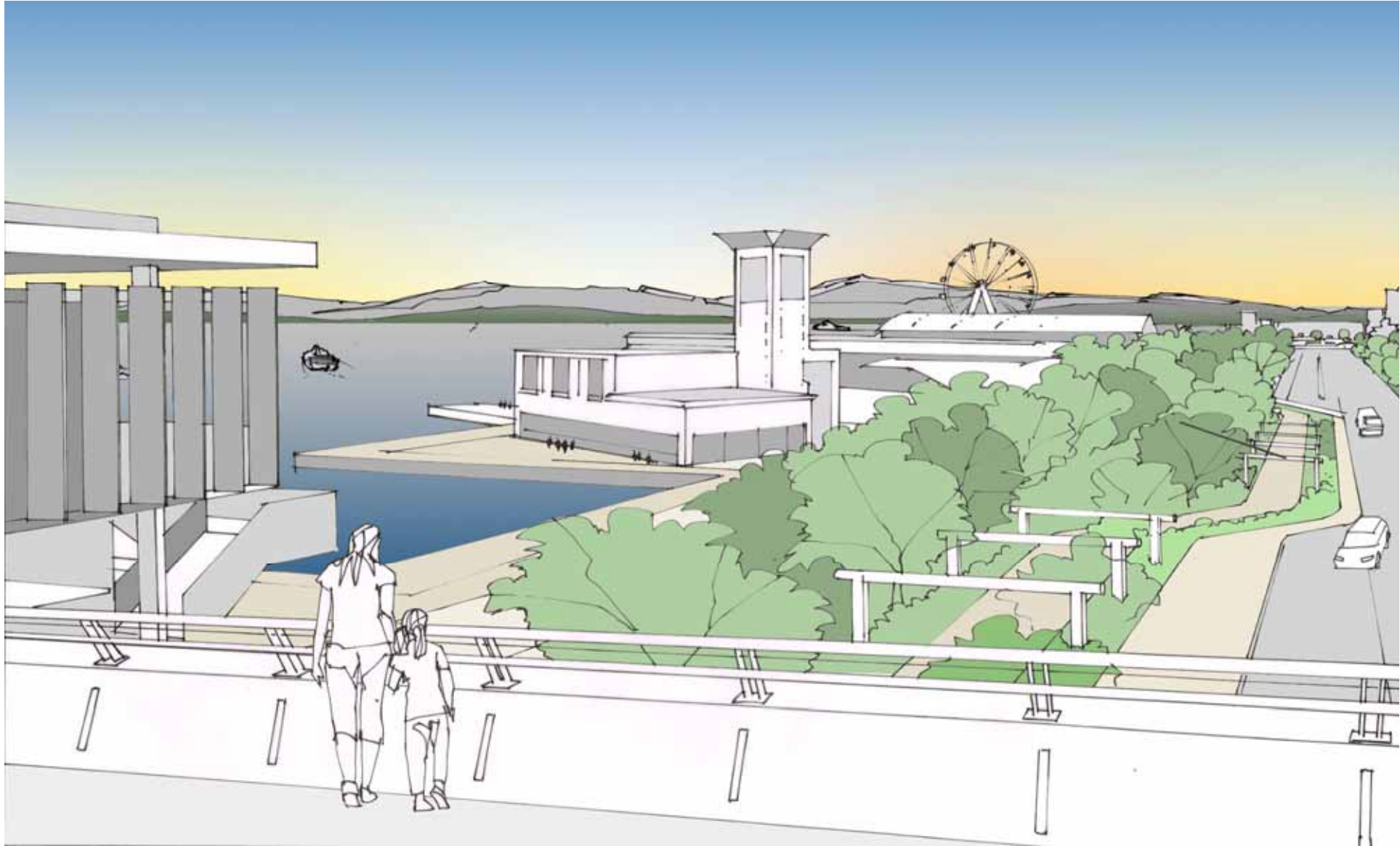


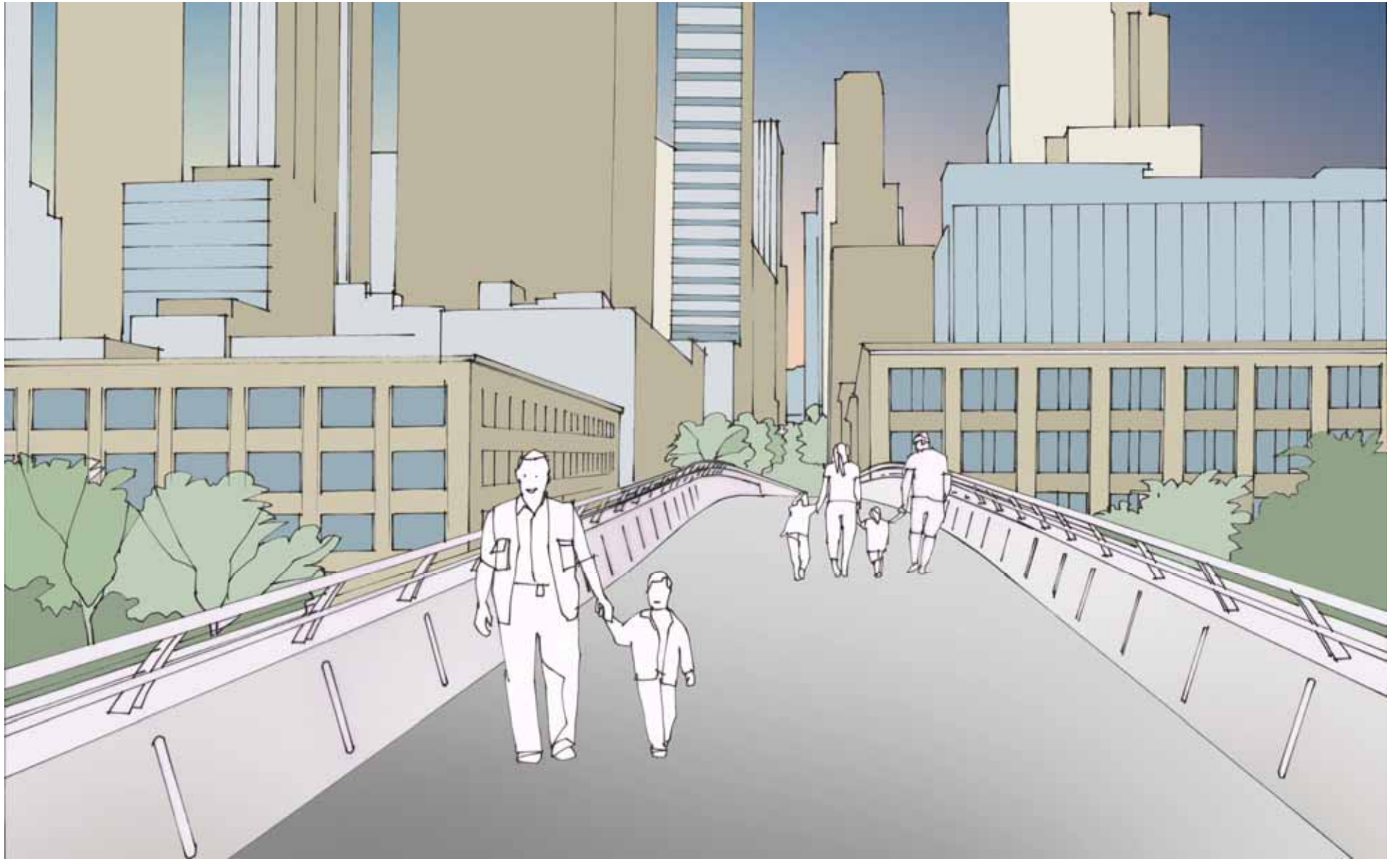






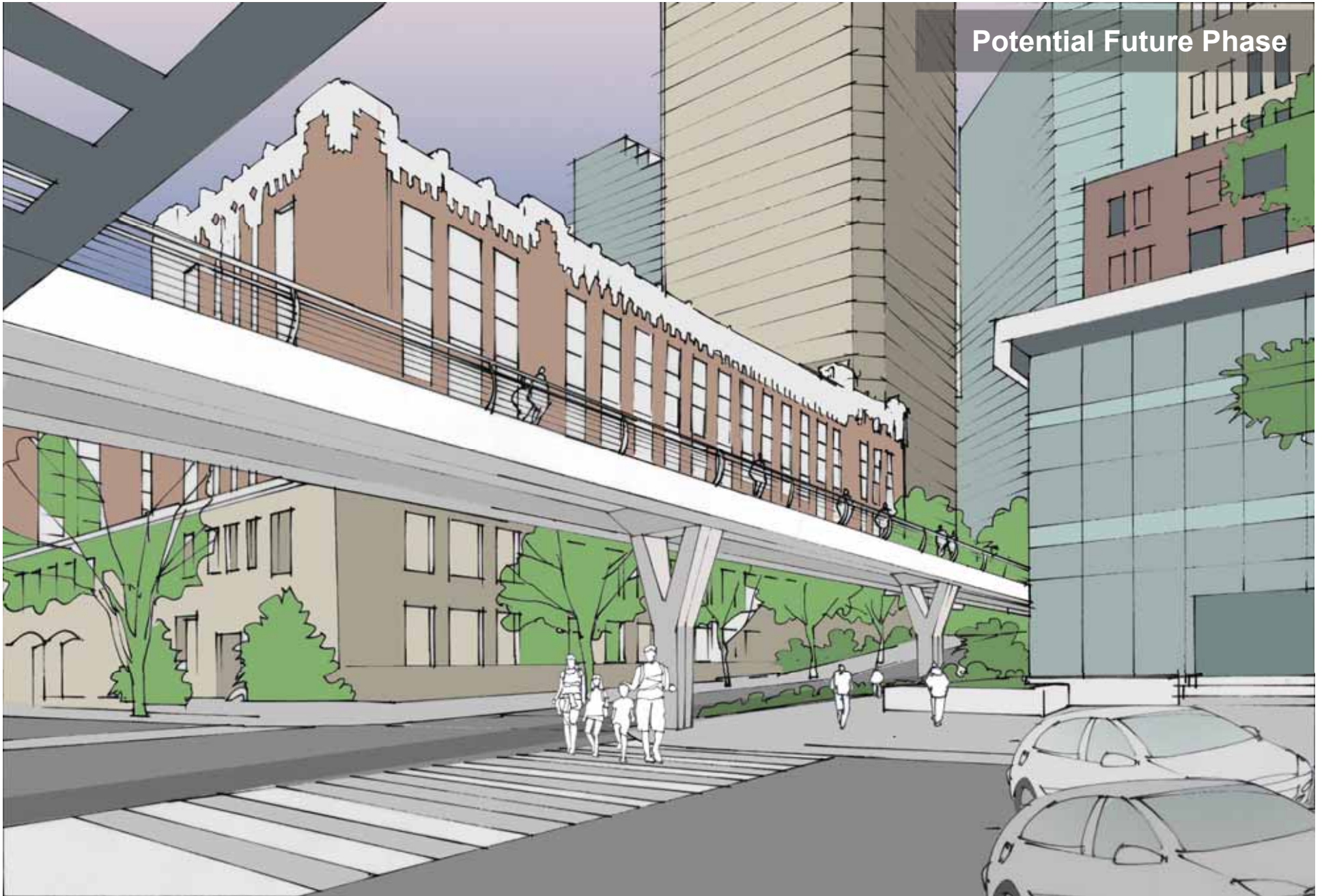






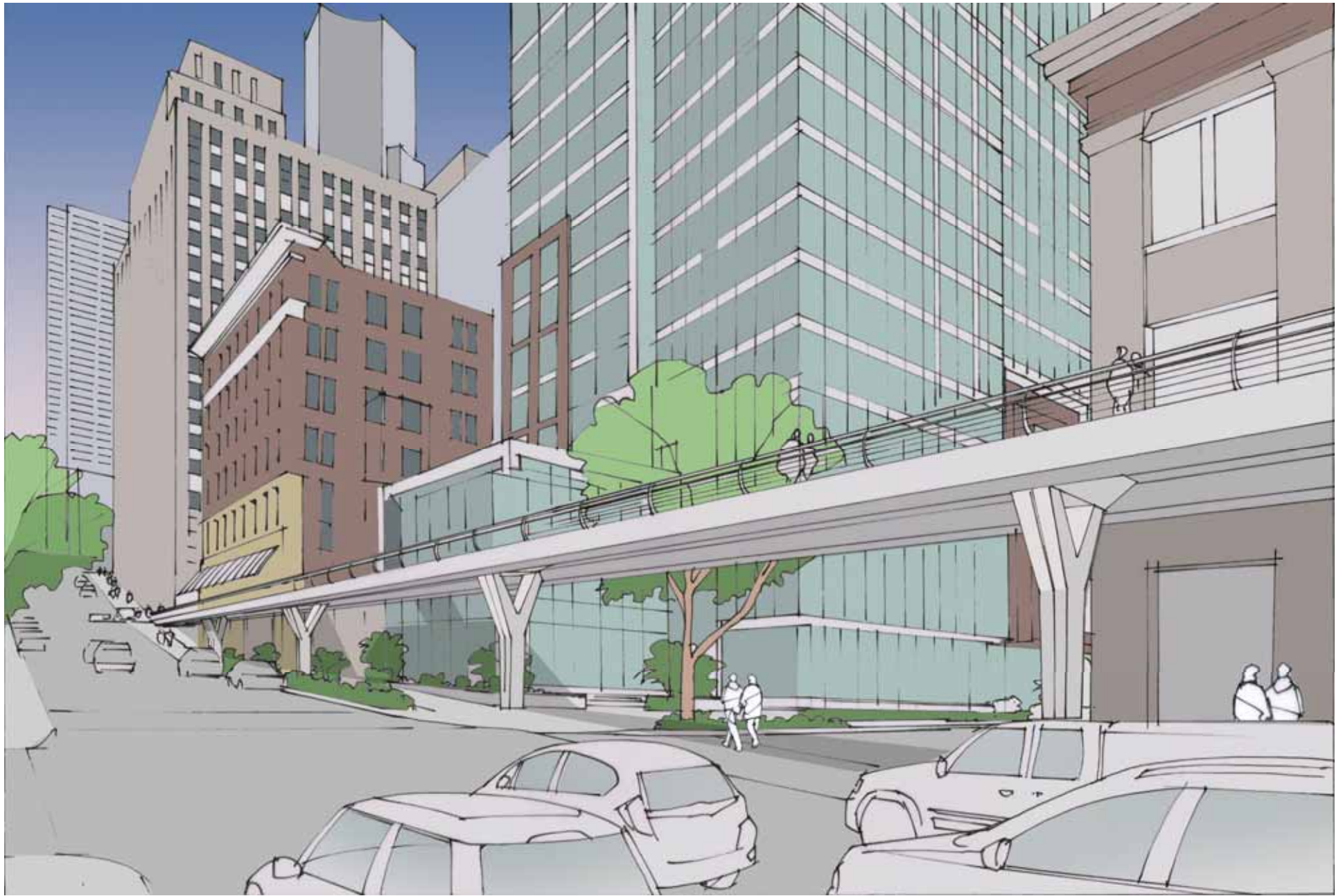


## Potential Future Phase



















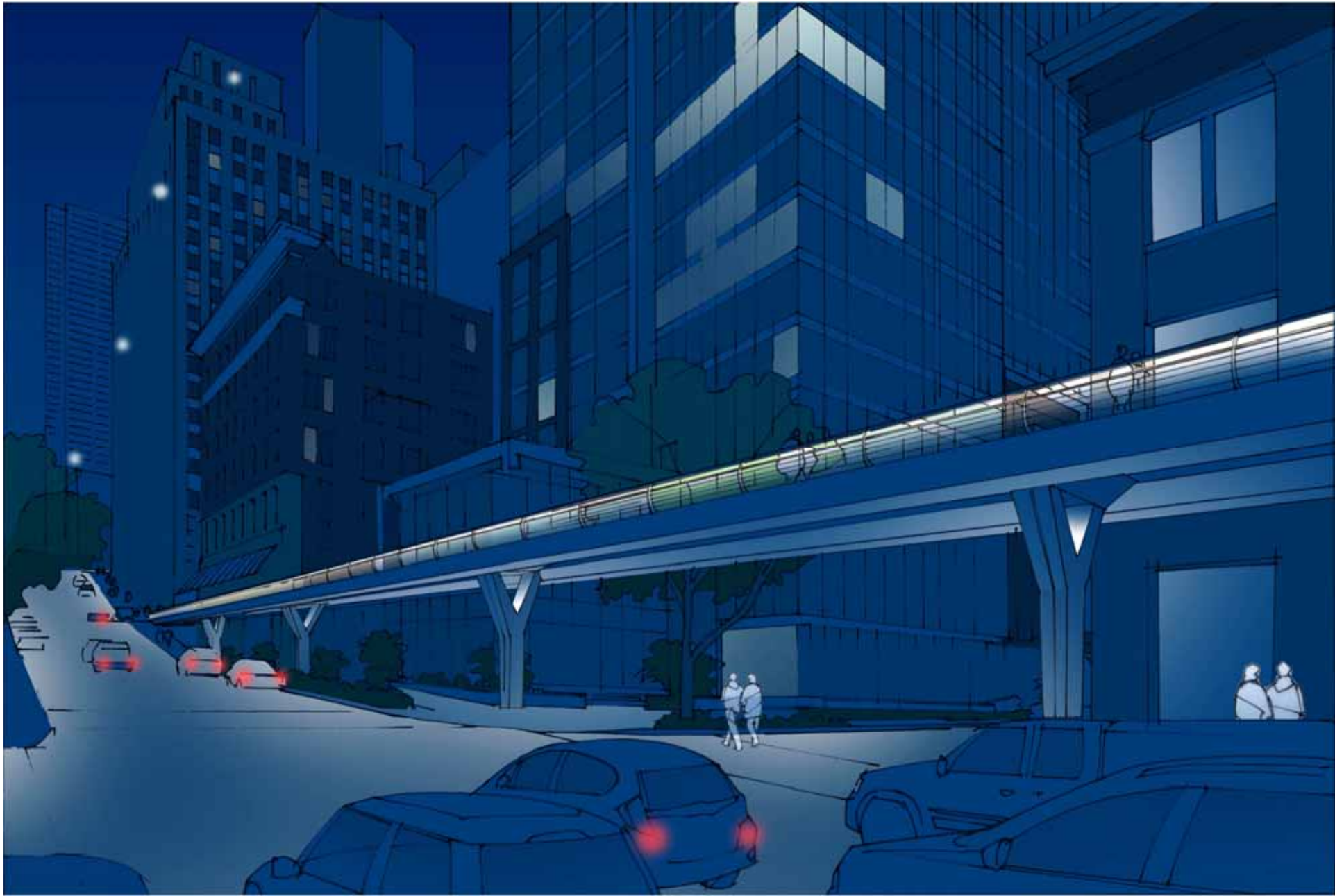
















# Marion Street Pedestrian Bridge

## QUESTIONS AND ANSWERS

