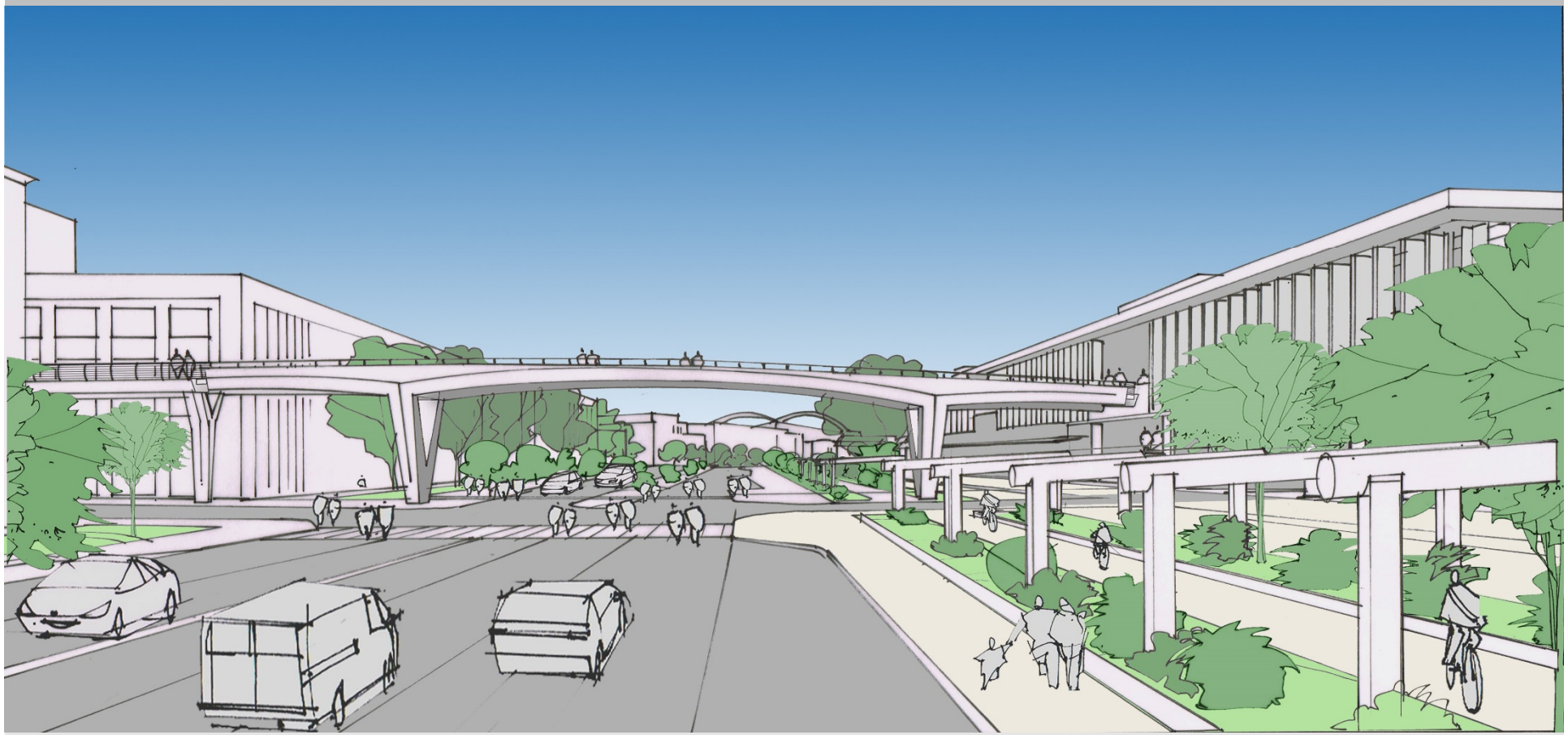
Marion Street Pedestrian Bridge

30% Preliminary Design

August 2nd, 2018



city of seattle

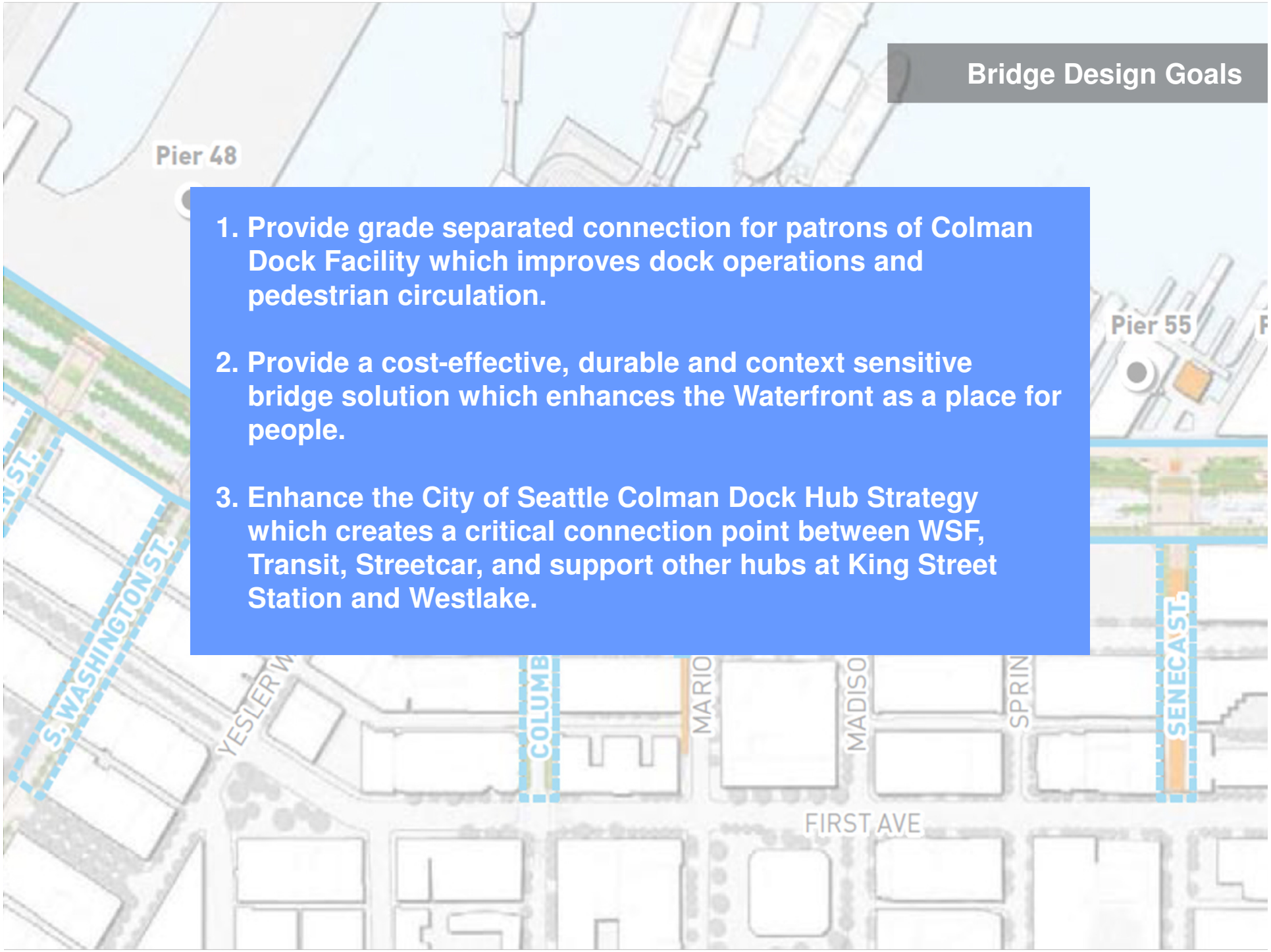
waterfront SEATTLE

WSDOT

Organization Chart

Project is WSDOT funded

Bridge Design Goals



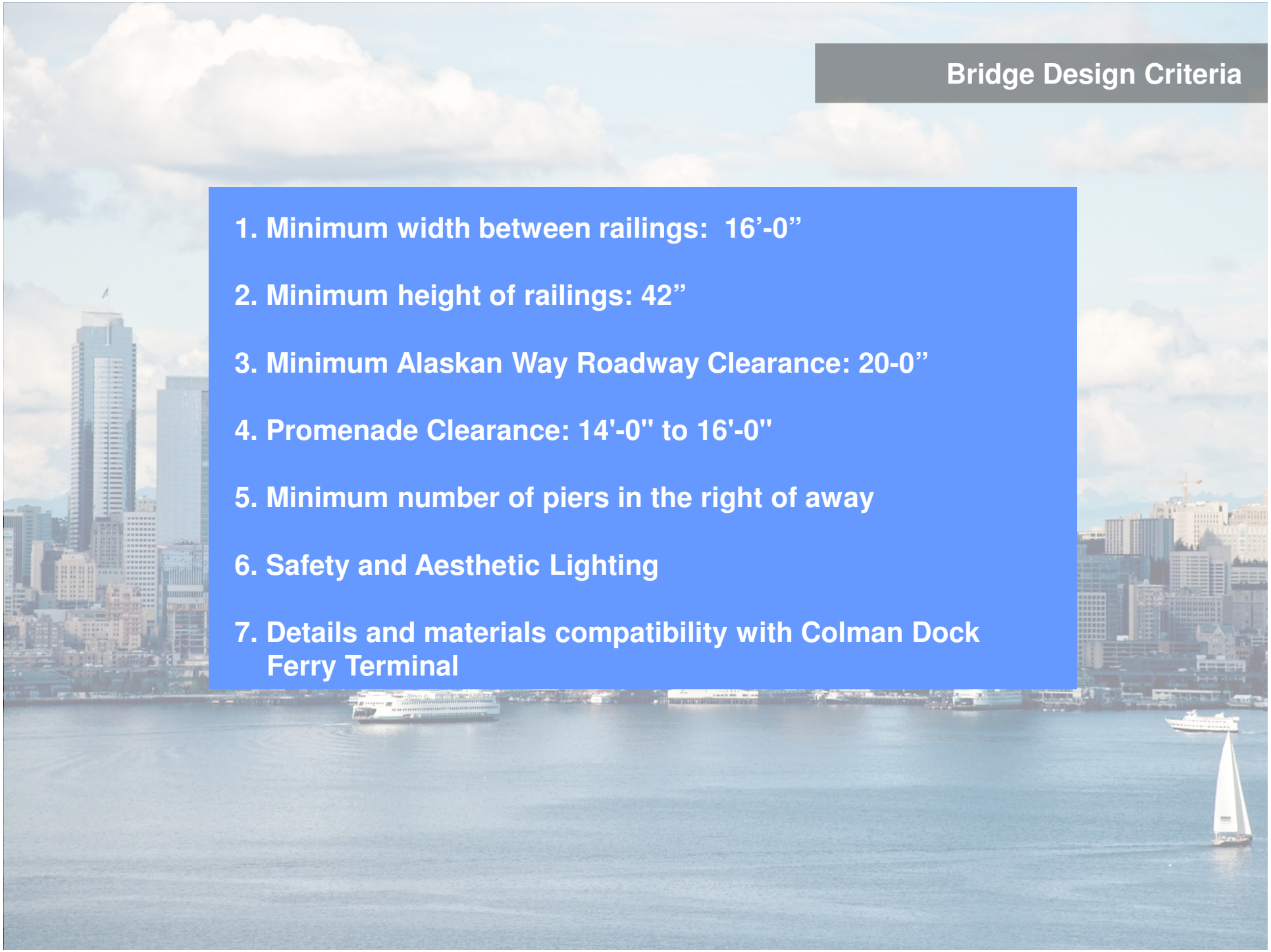
1. Provide grade separated connection for patrons of Colman Dock Facility which improves dock operations and pedestrian circulation.

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

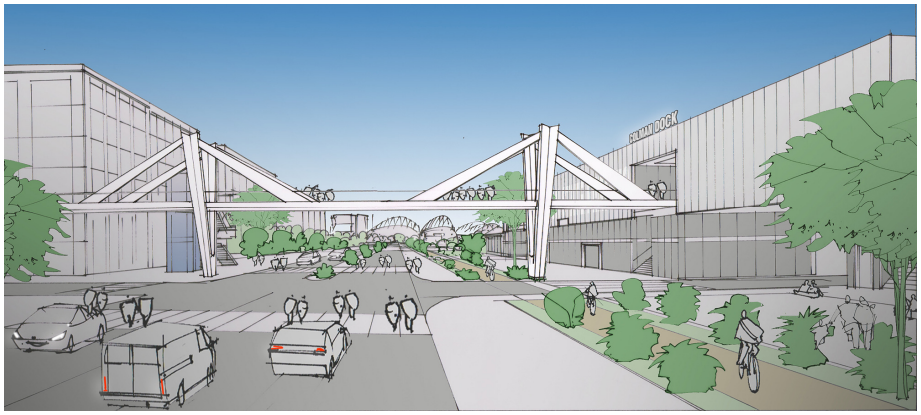
Marion Street Bridge Existing Conditions



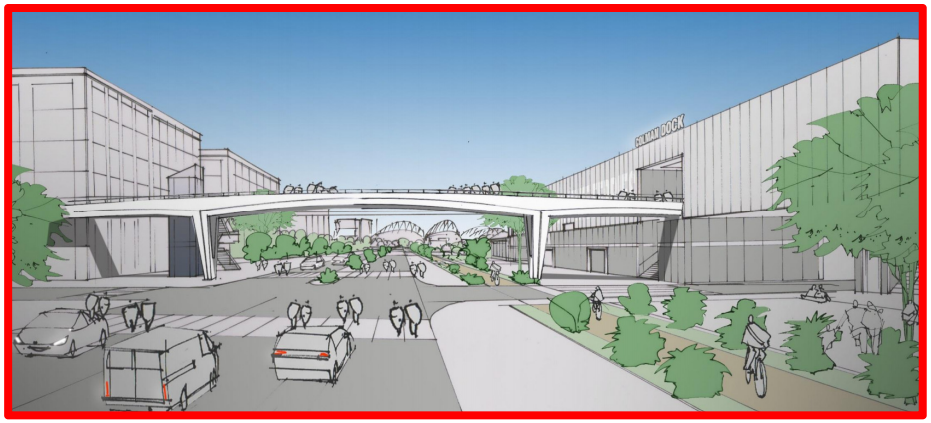
Bridge Design Criteria

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 away
6. Safety and Aesthetic Lighting
7. Details and materials compatibility with Colman Dock Ferry Terminal

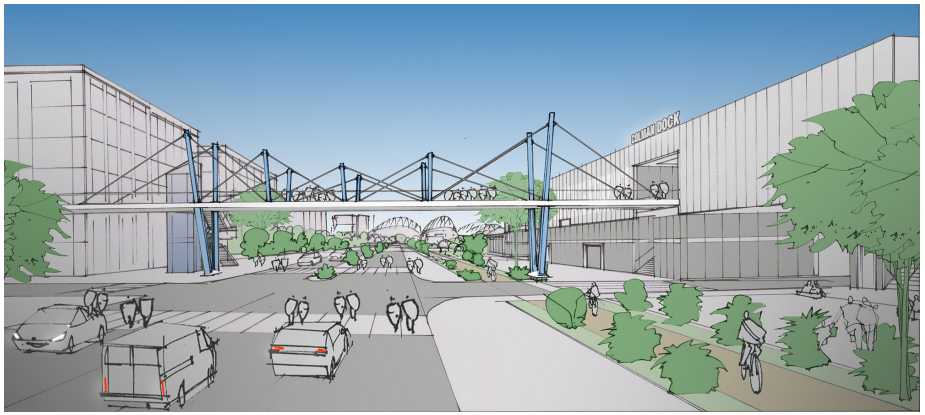
February 2016 Design Options



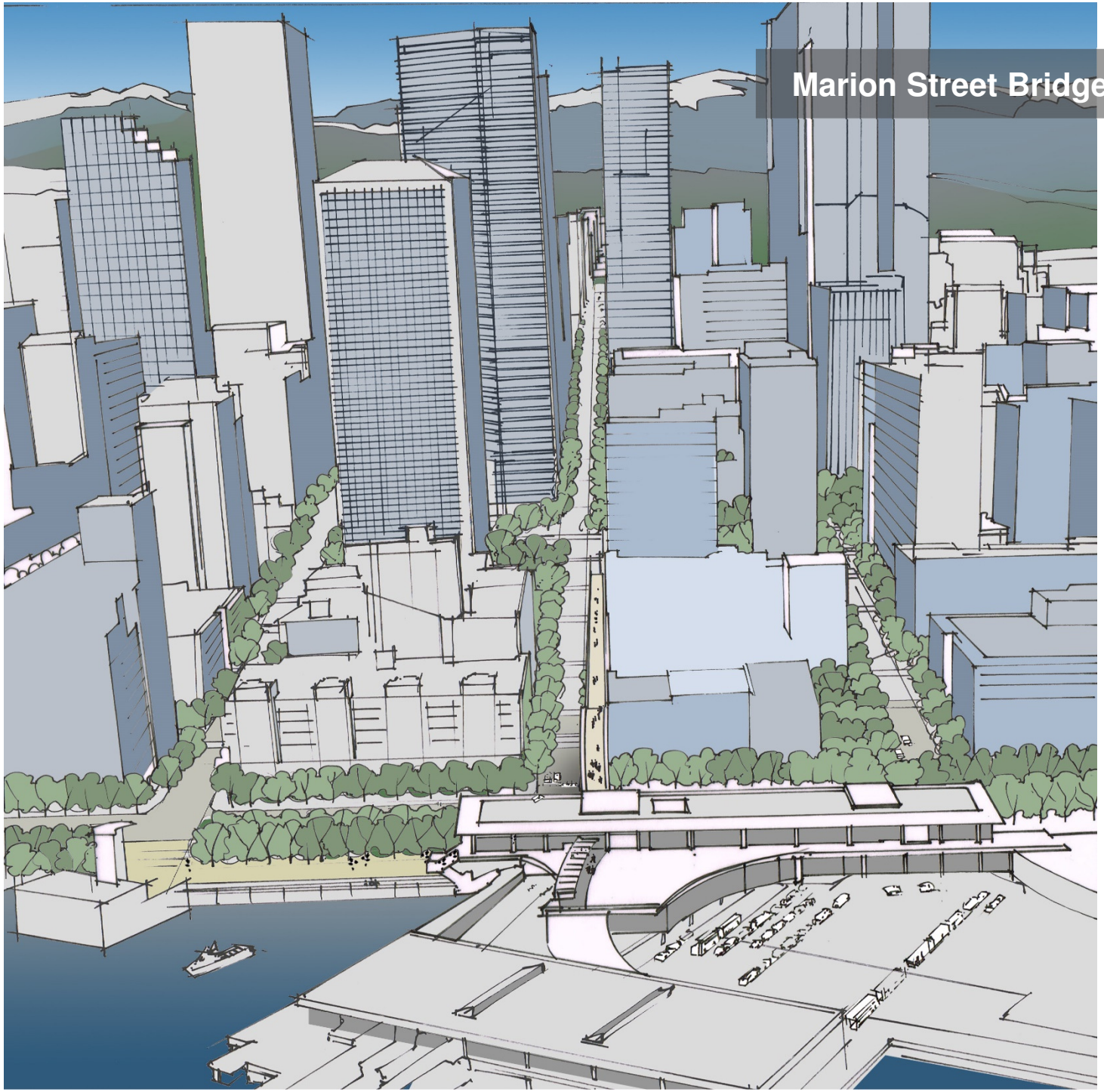
Option 1
Extradosed CIP Concrete



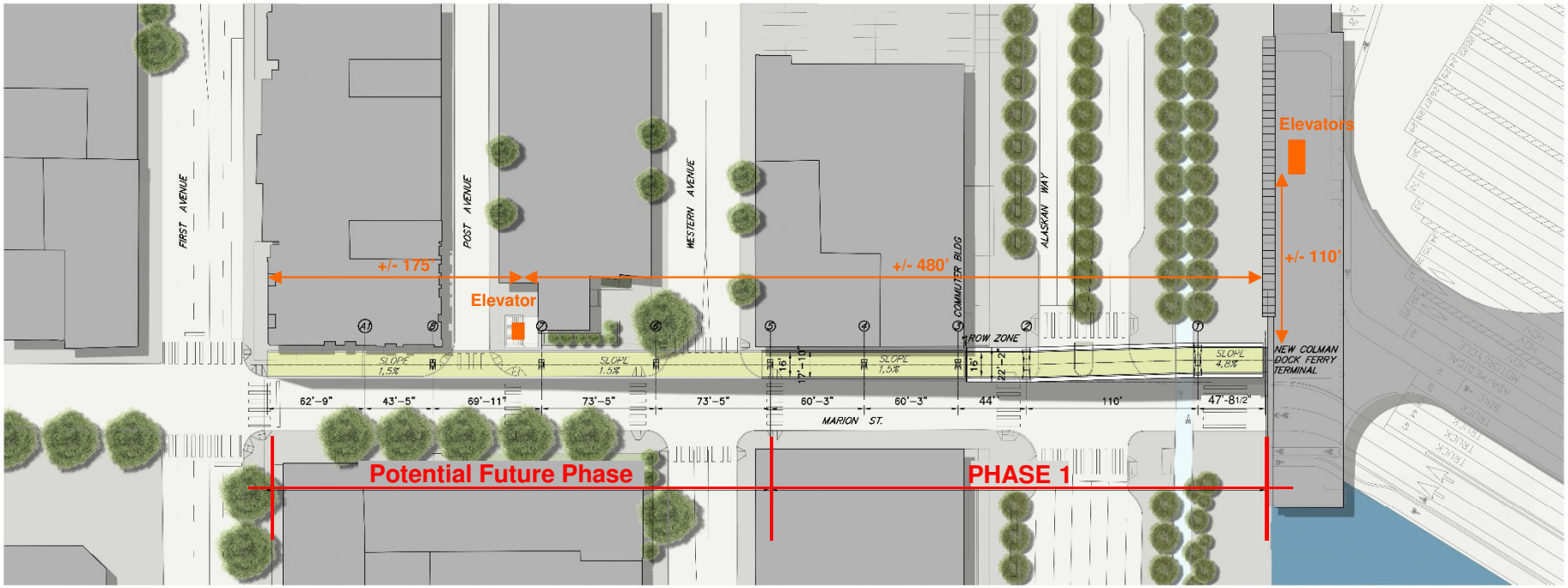
Option 2
CIP Concrete

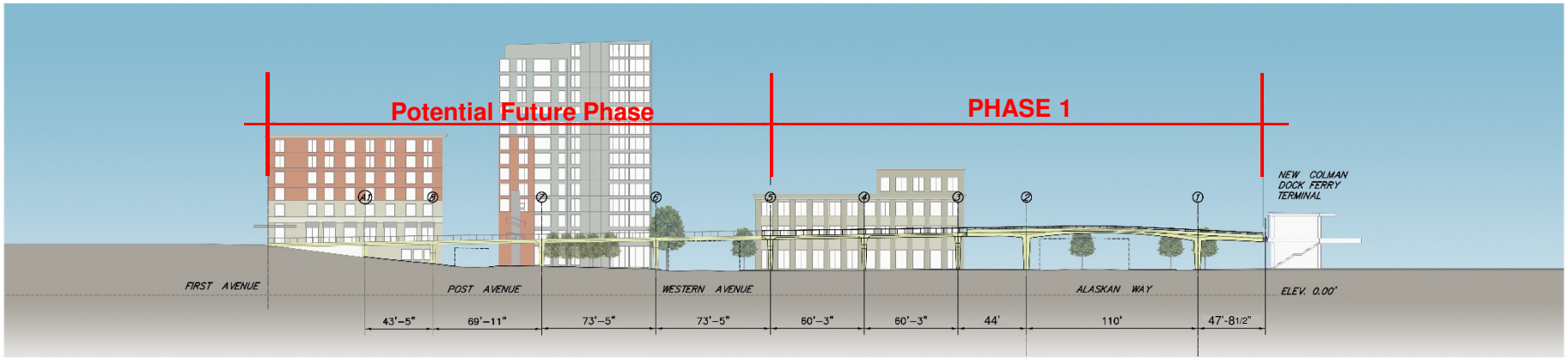


Option 3
Fink Truss Steel

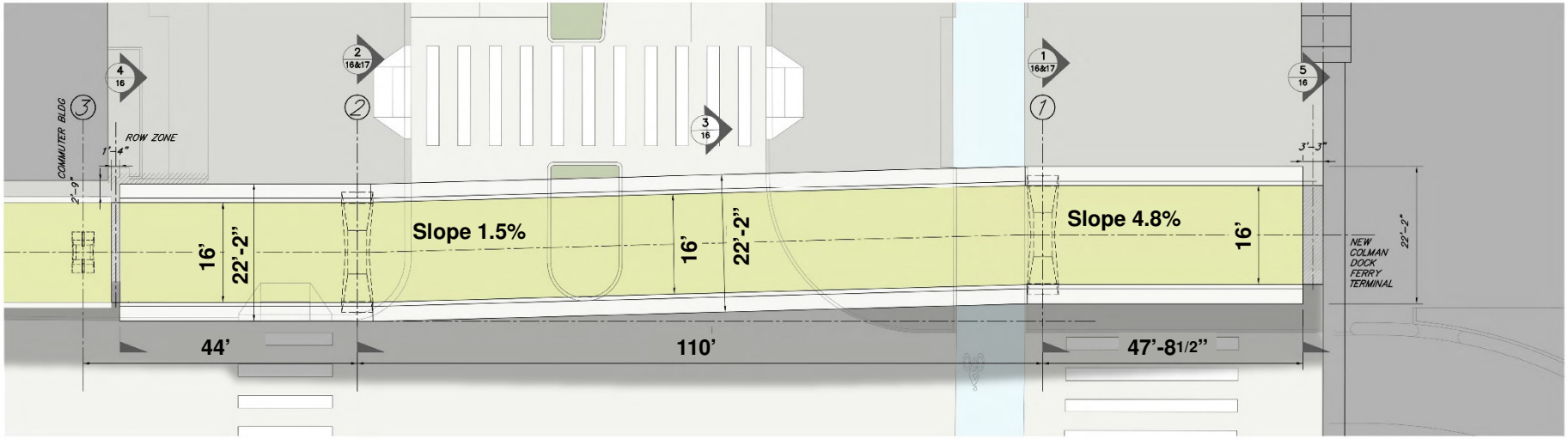

Marion Street Bridge Concept

Marion Street Pedestrian Bridge Replacement Project

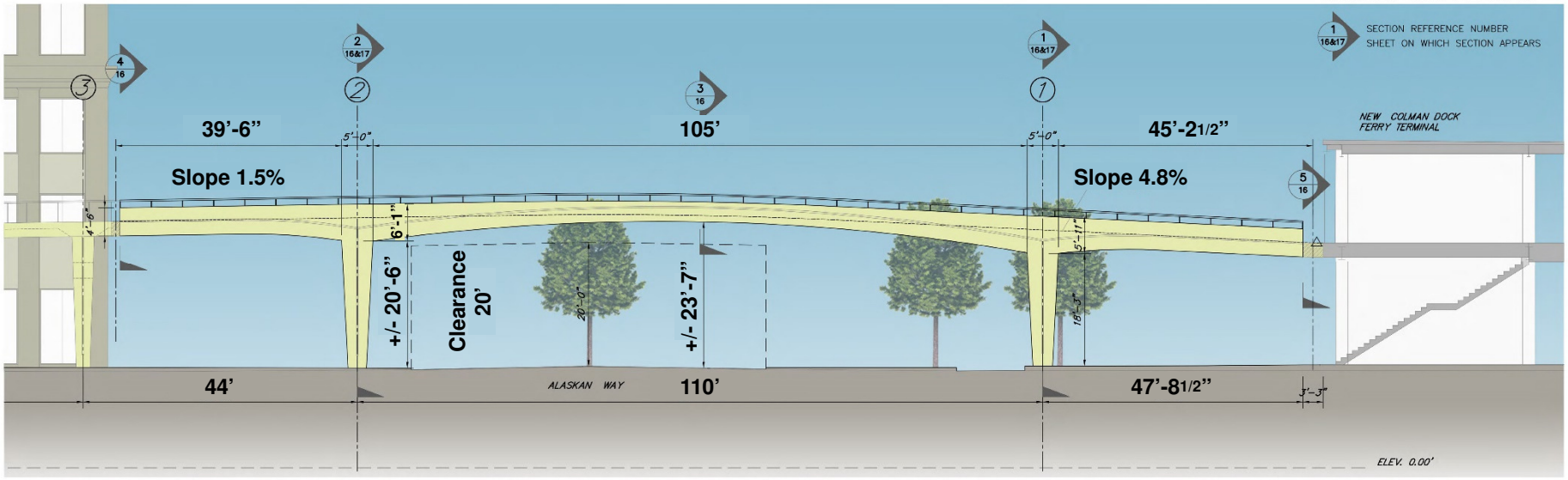




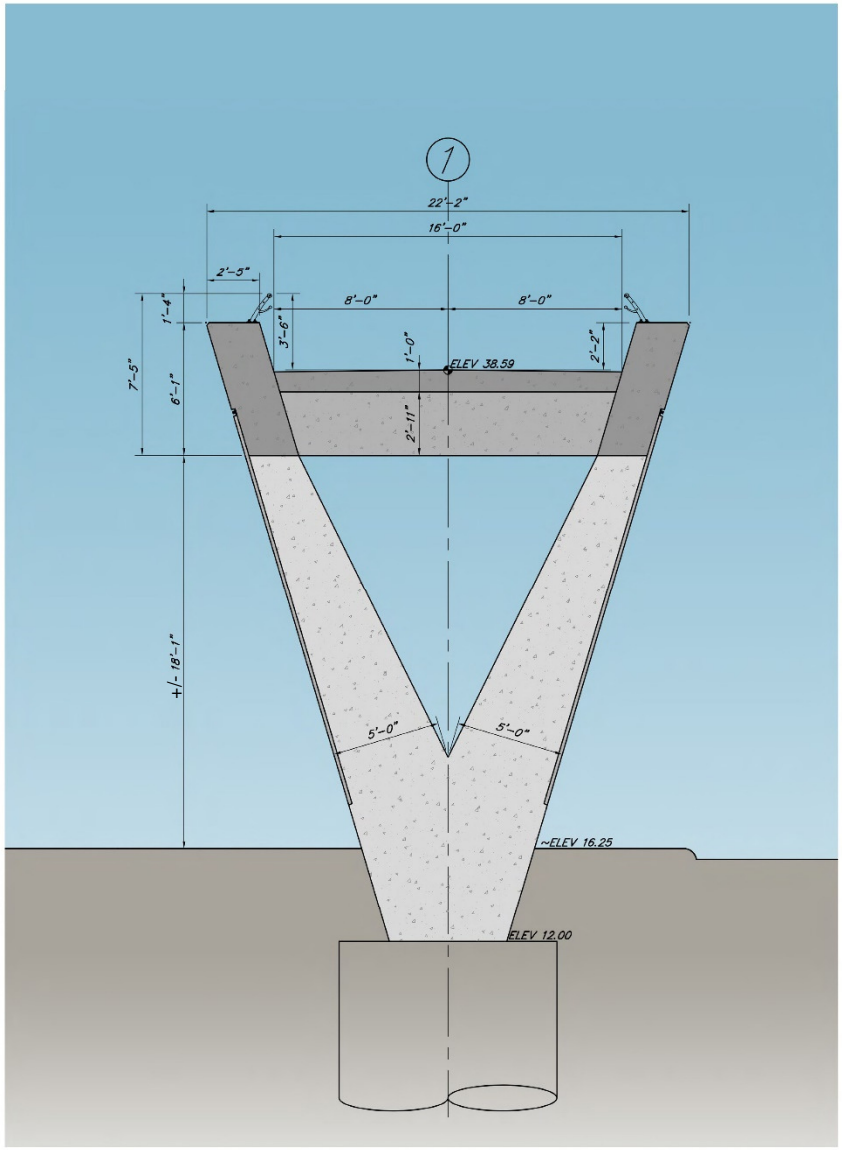
Architectural Plan and Elevation - Main Span

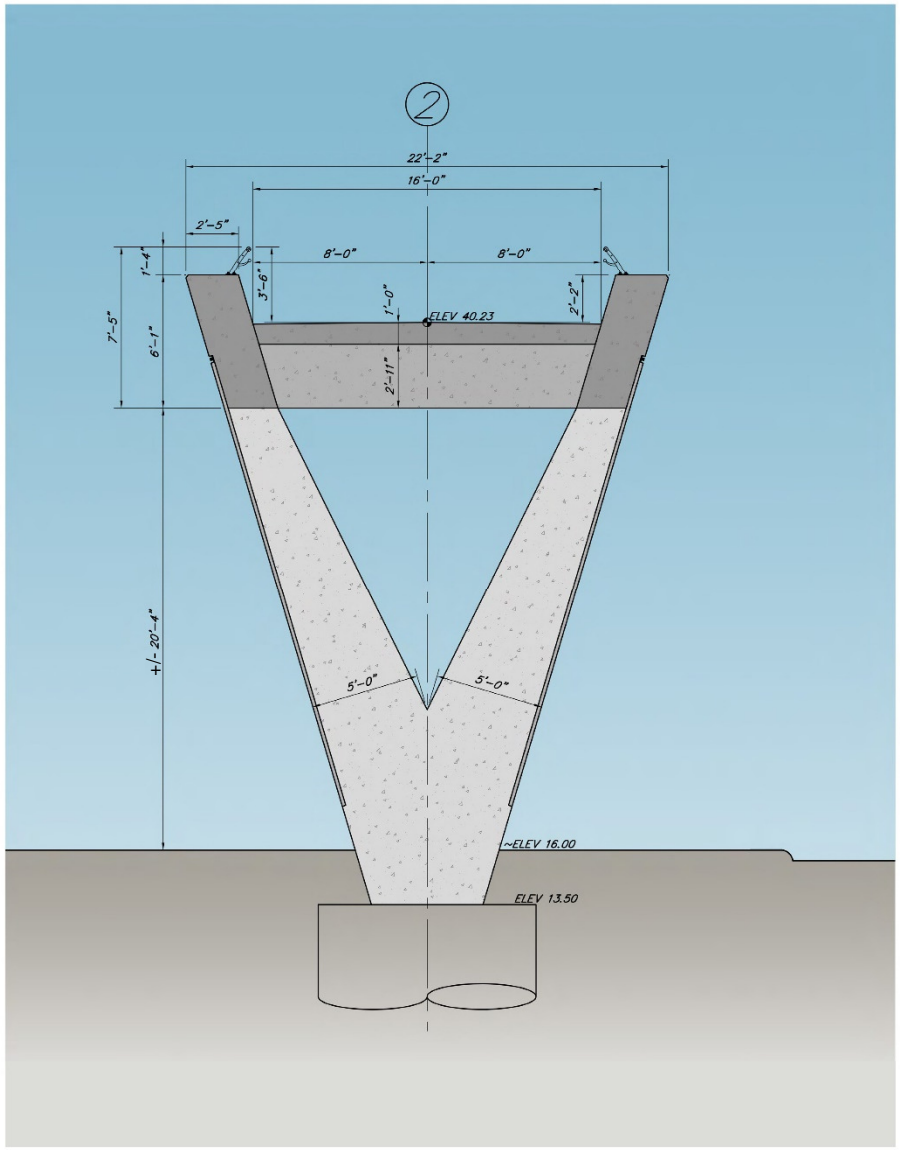


SECTION REFERENCING

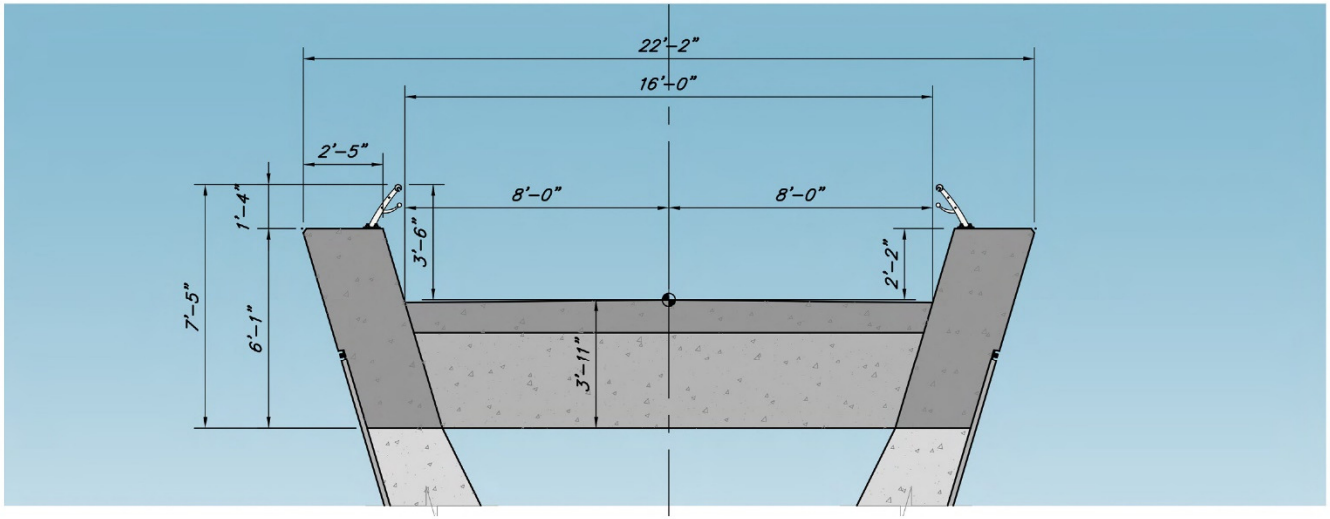


Architectural / Structural Piers - Main Span

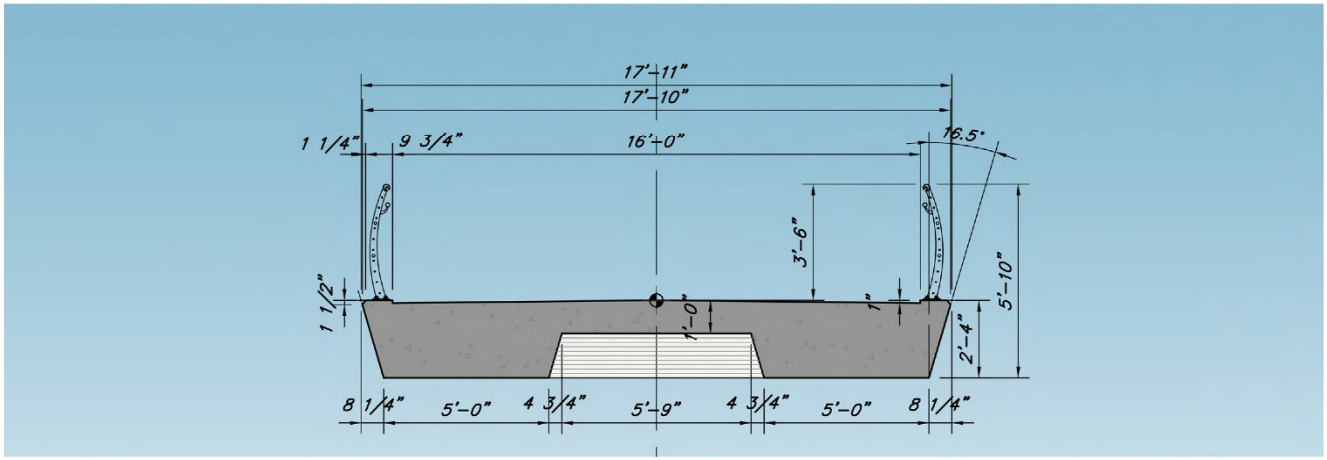




Architectural Sections - Main Span and Approach

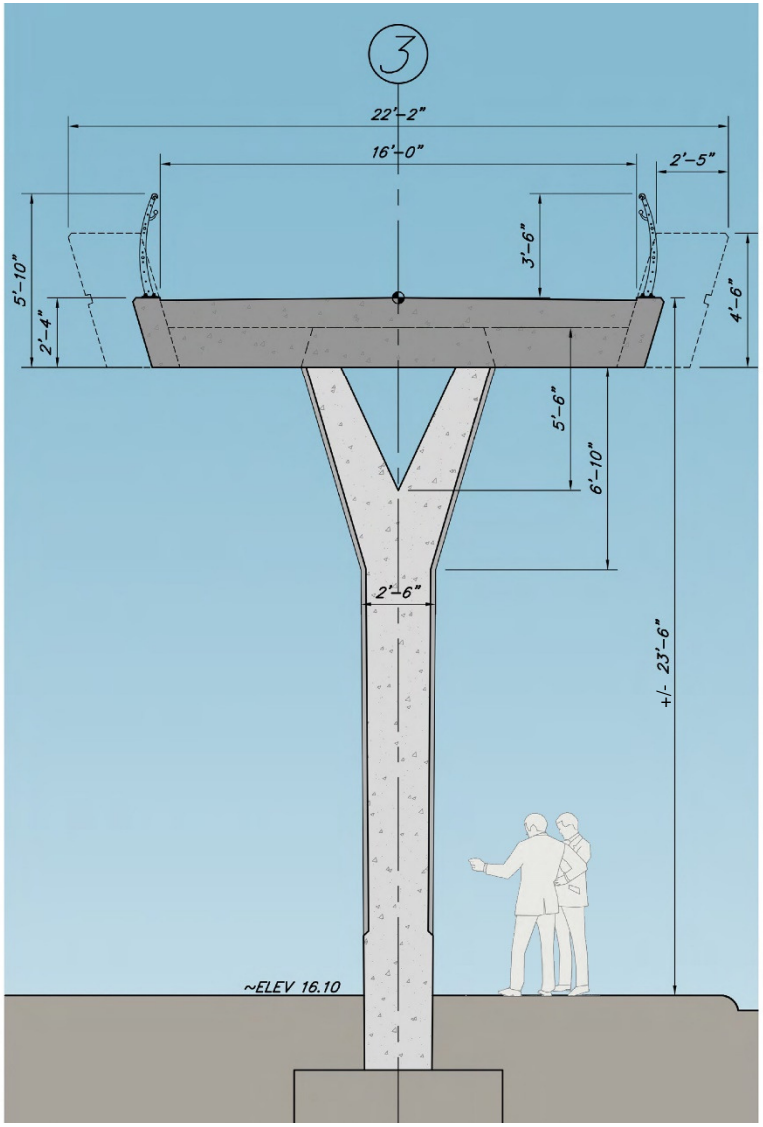


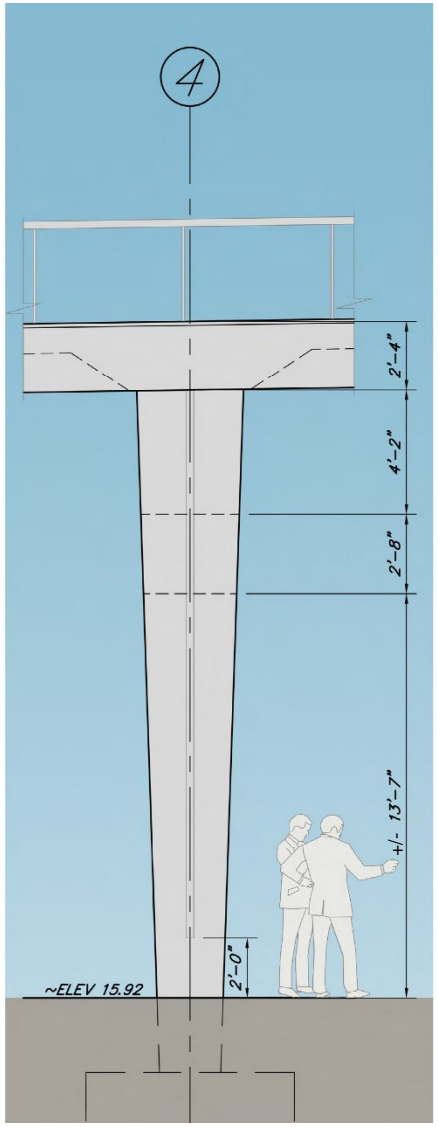
Main Span Section



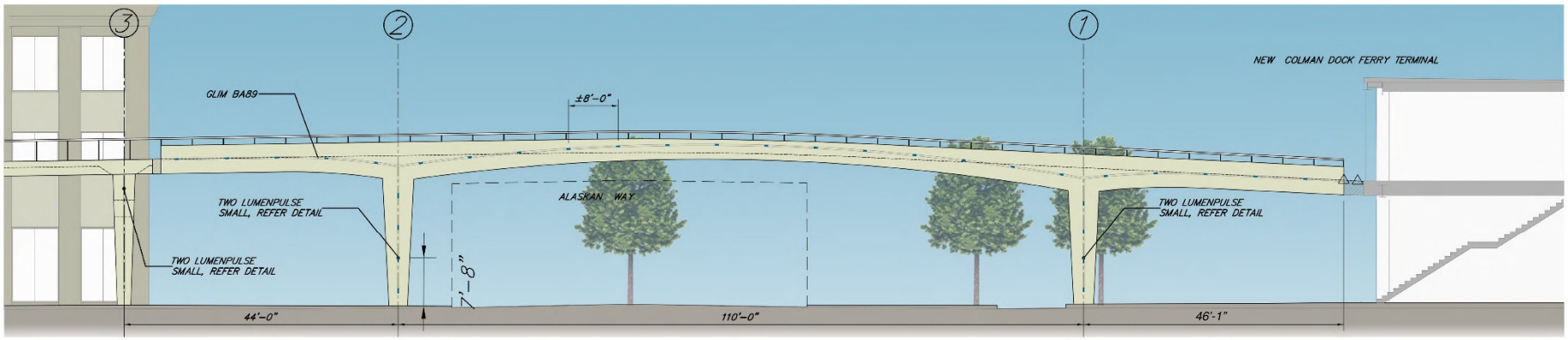
Approach Span Section

Architectural / Structural Piers - Approach

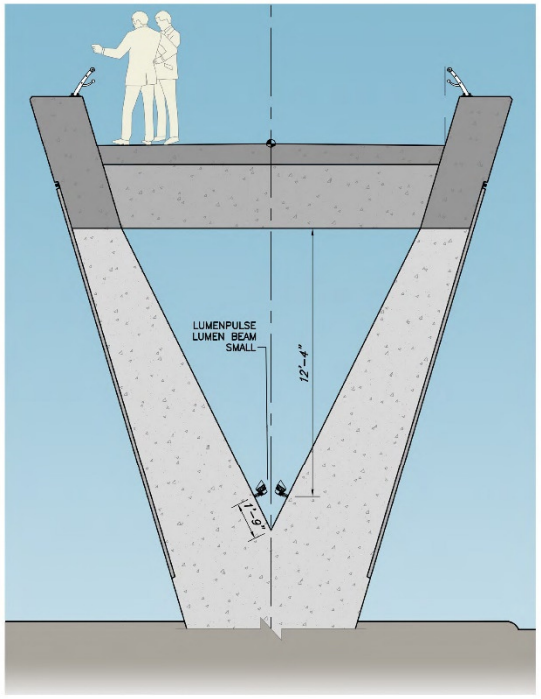




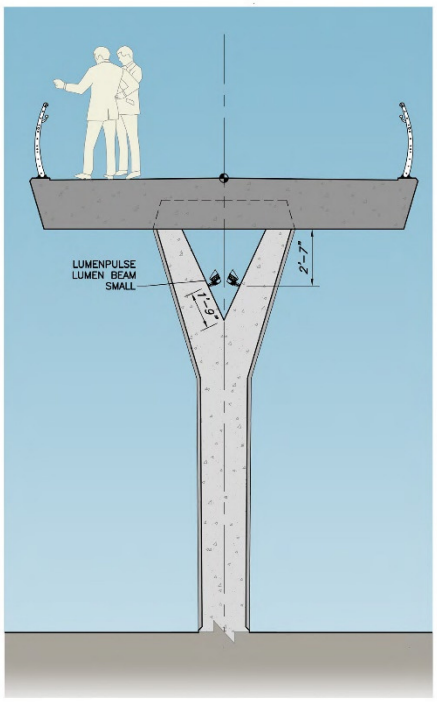
Lighting Details - Main Span and Approach



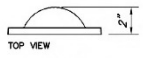
Elevation Lighting - Main Span
SCALE: 1 / 8" = 1'

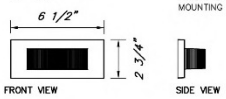


Pier Lighting (Typical of two)
SCALE: 3 / 8" = 1'



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

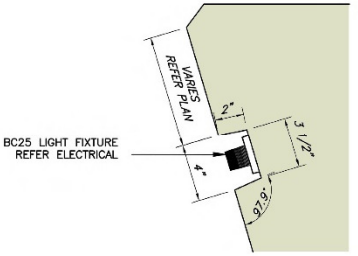




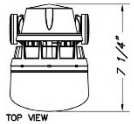
NOTES:
GLIM CUBE BC25

COLOR: RGB LED BLADE OF LIGHT OPTIC
FINISH: GREY
MOUNTING OPTION: WALL/CEILING MOUNTING

Reveal Light Fixture
SCALE: 3" = 1'

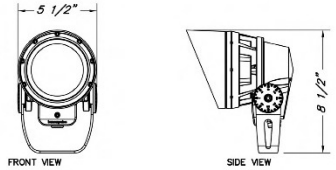


Reveal Lighting
SCALE: 3" = 1'

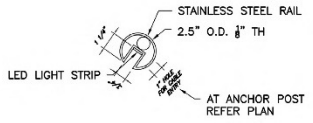


NOTES:
LUMENPULSE LUMENBEAM SMALL COLOR CHANGING

COLOR AND COLOR TEMPERATURE: ADDITIVE RGB
OPTICS: VERY NARROW 6°
FINISH: SILVER SANDTEX
OPTICAL ACCESSORY: VISOR

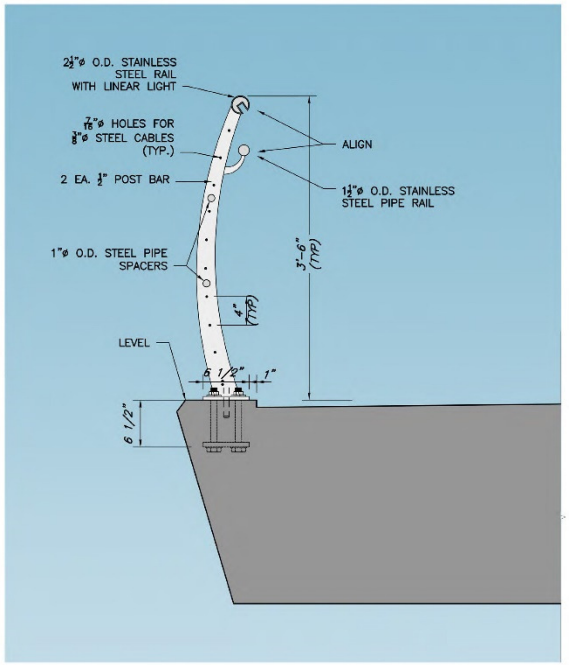


Pier Light Fixture
SCALE: 3" = 1'



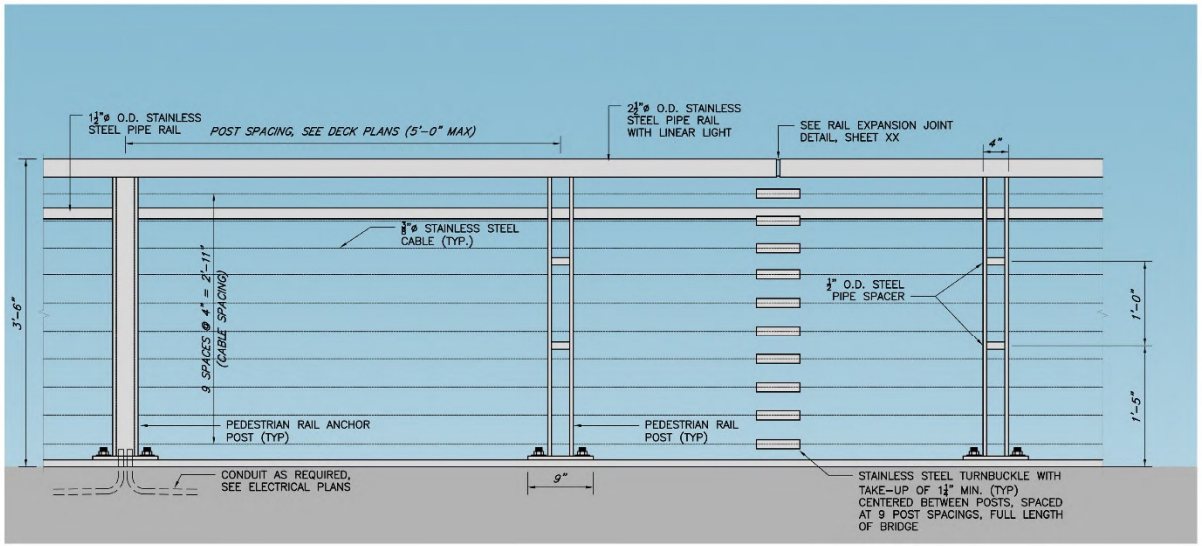
Stainless Steel Rail / Led Light Strip
SCALE: 3" = 1'

Railing Details - Approach Bridge



Pedestrian Rail Typical Post Section

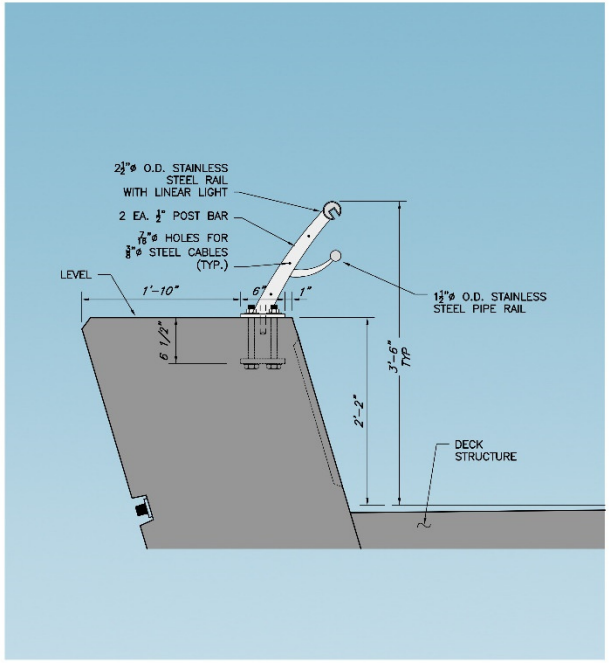
SCALE: 1 - 1 / 2" = 1'



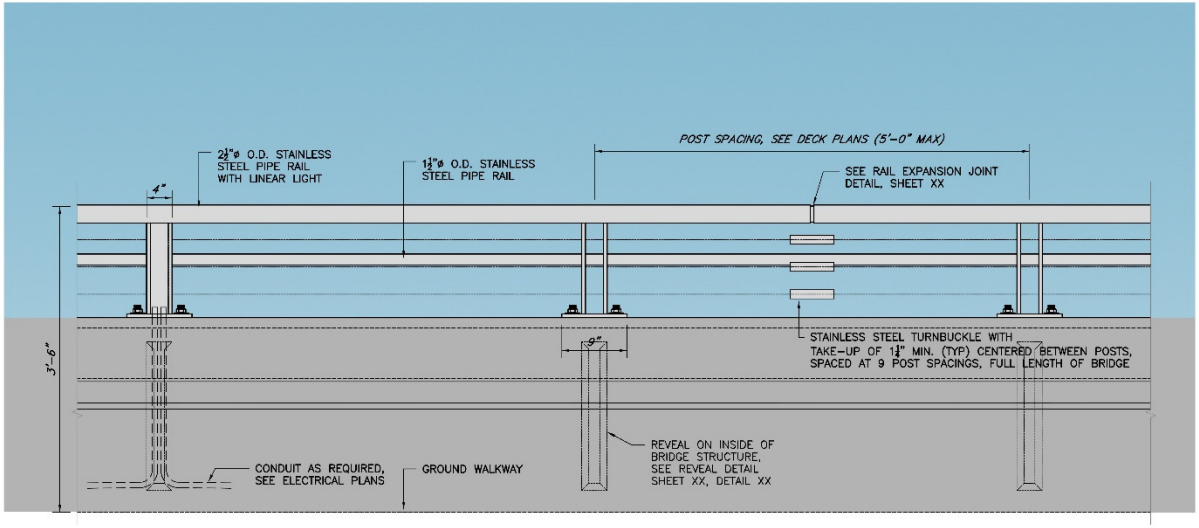
Pedestrian Rail Typical Post Elevation on Approach

SCALE: 1 - 1 / 2" = 1'

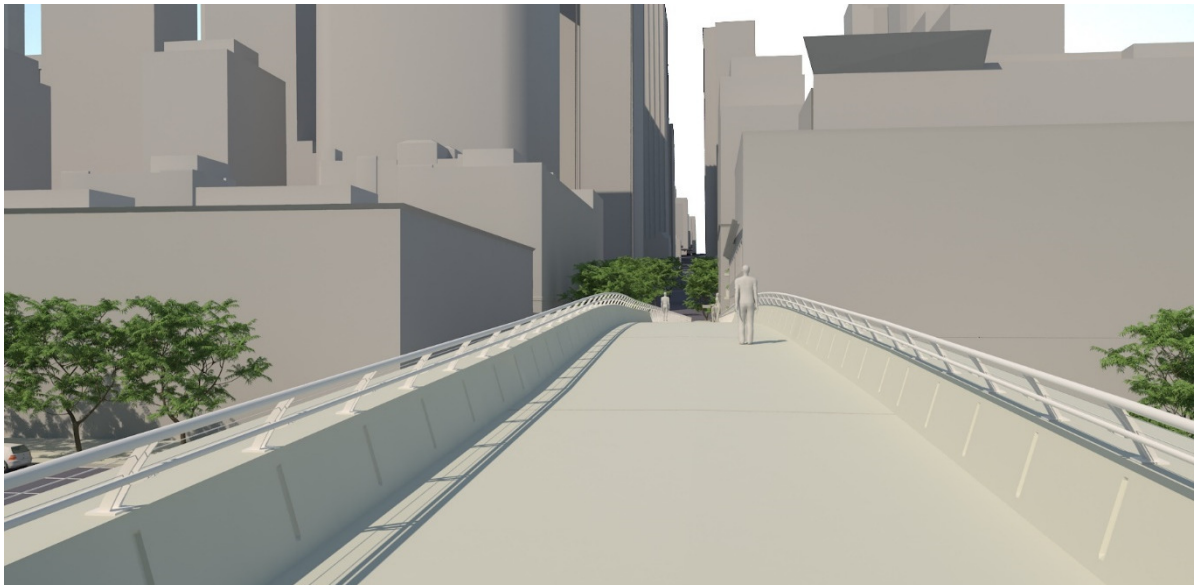
Railing Details - Main Span



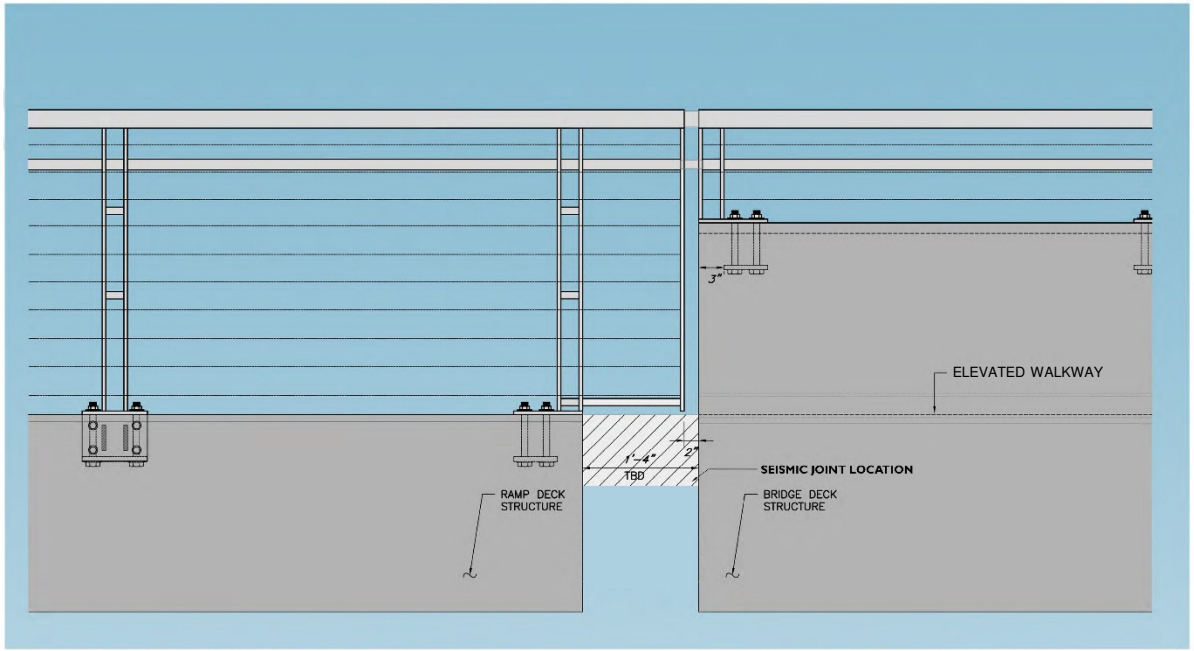
Pedestrian Rail Typical Post Section on Bridge



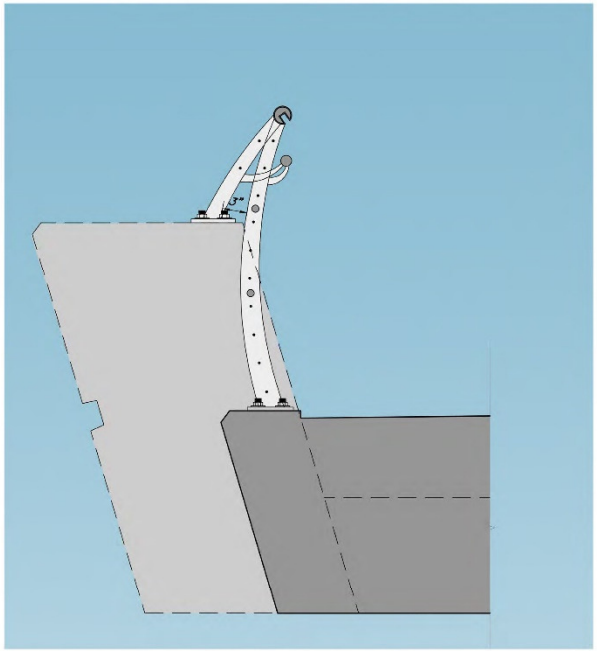
Pedestrian Rail Typical Post Elevation on Bridge
SCALE: 1 - 1 / 2" = 1'



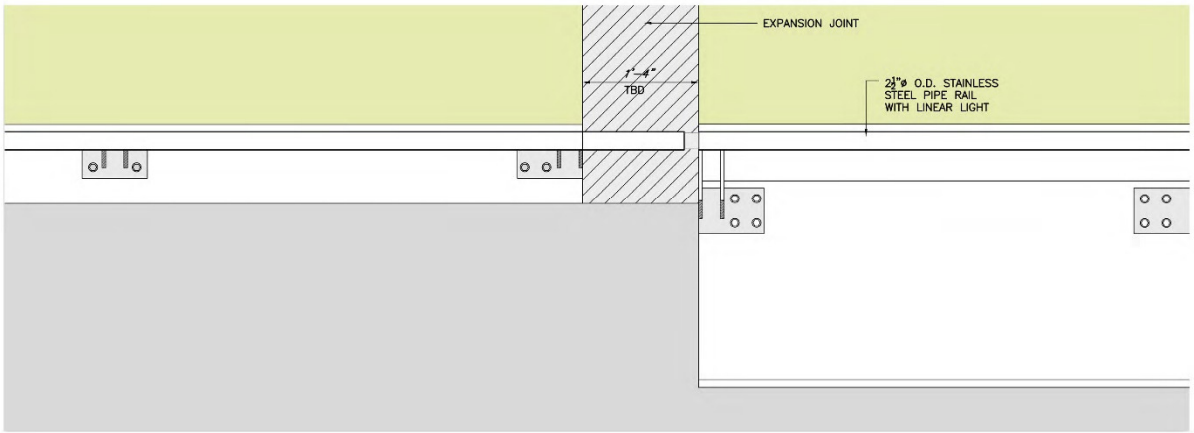
Railing Details - Approach Bridge Side



Railing Elevation at Ramp Expansion Joint
SALE: 1 - 1 / 2" = 1'

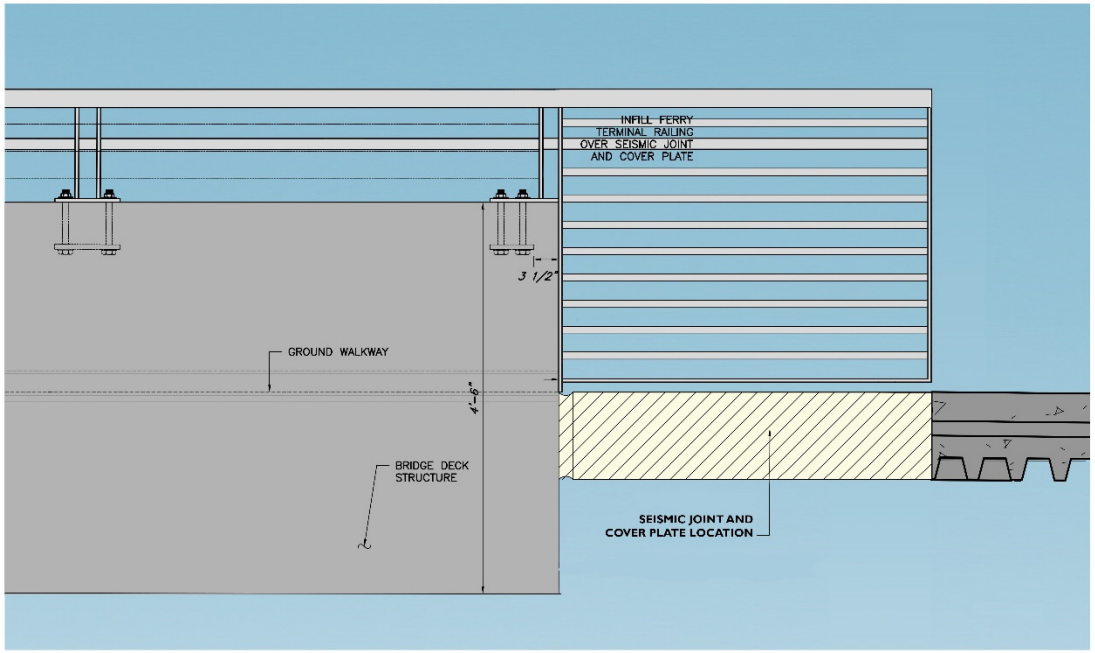


Railing Detail at Ramp Expansion Joint
SALE: 1 - 1 / 2" = 1'

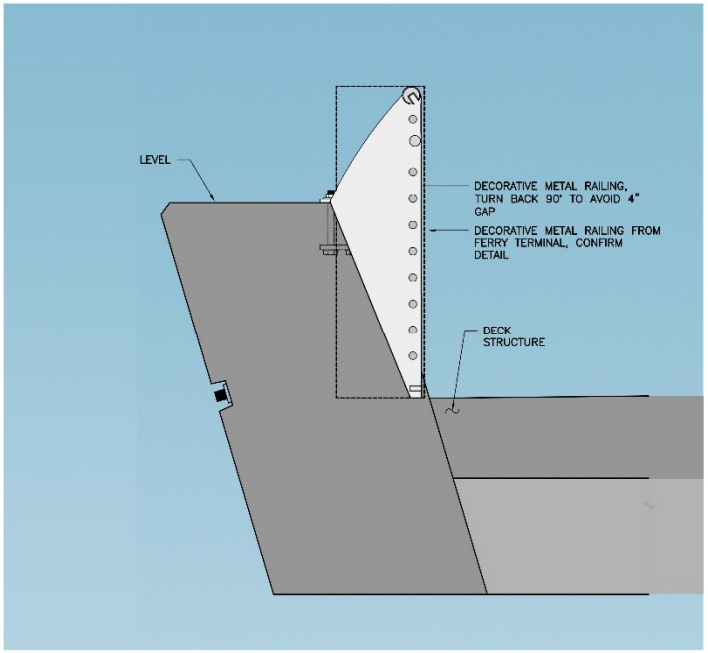


Railing Plan at Ramp Expansion Joint
SALE: 1 - 1 / 2" = 1'

Railing Details - Ferry Terminal Side

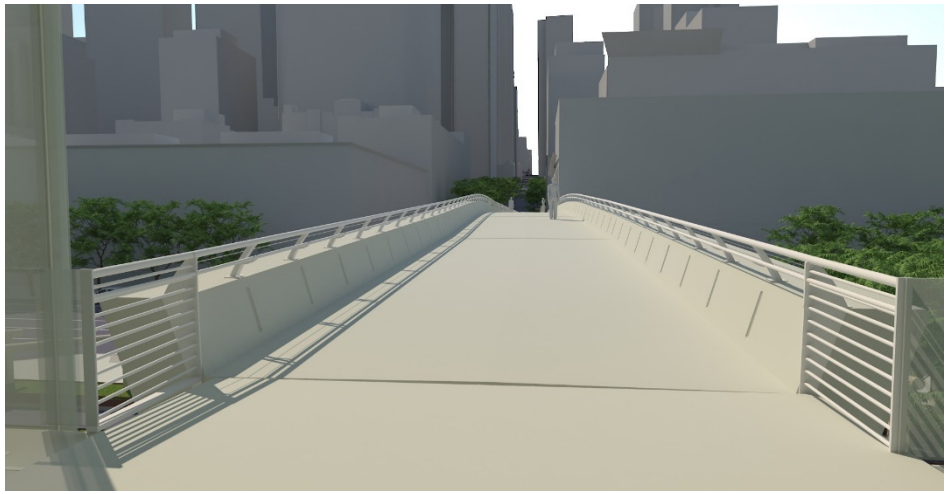


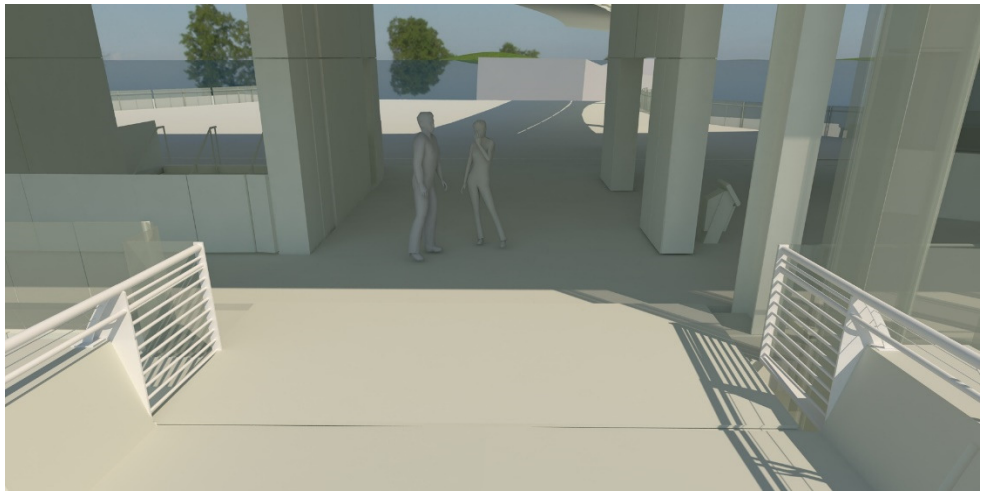
Railing Elevation at Ferry Expansion Joint
SALE: 1 - 1 / 2" = 1'



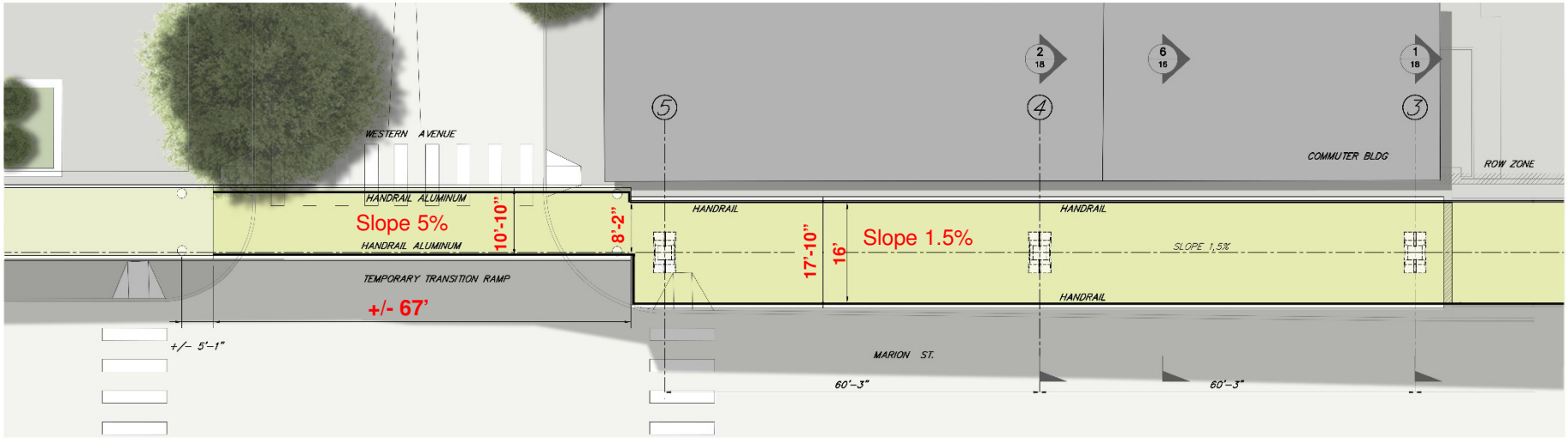
Railing Detail at Ferry Expansion Joint
SALE: 1 - 1 / 2" = 1'

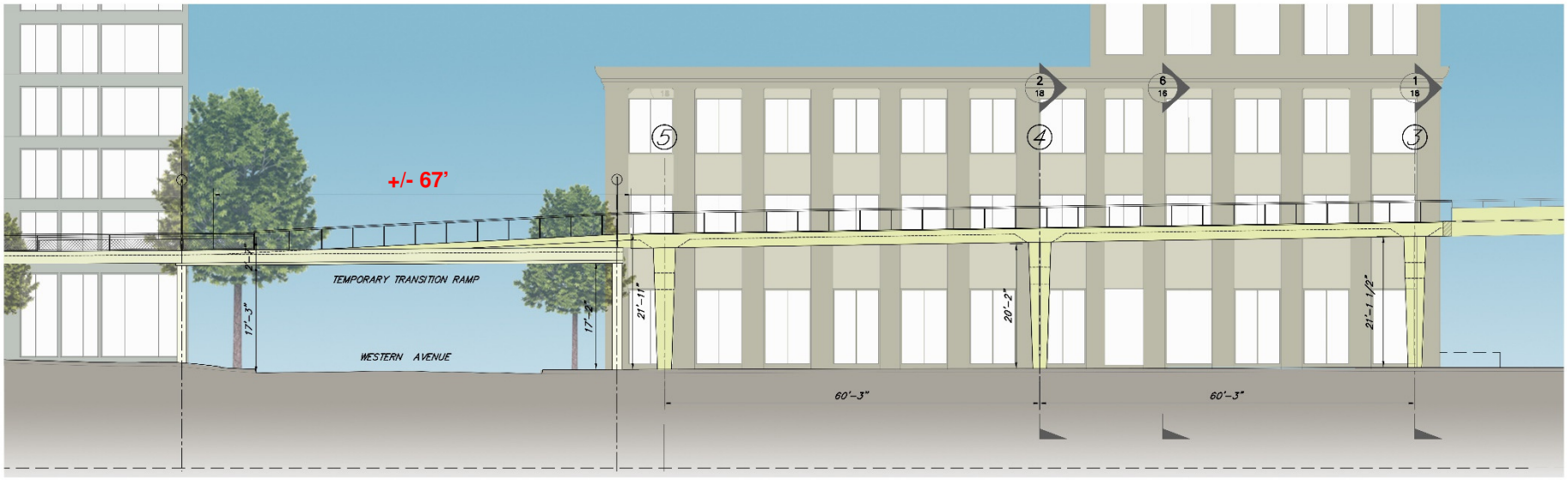
Railing Details - Ferry Terminal Side



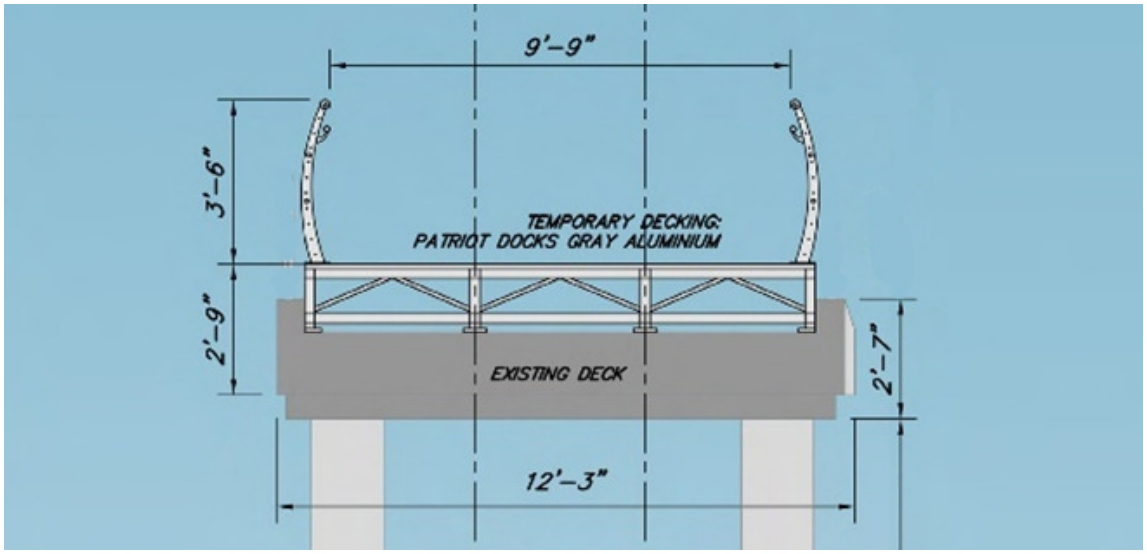


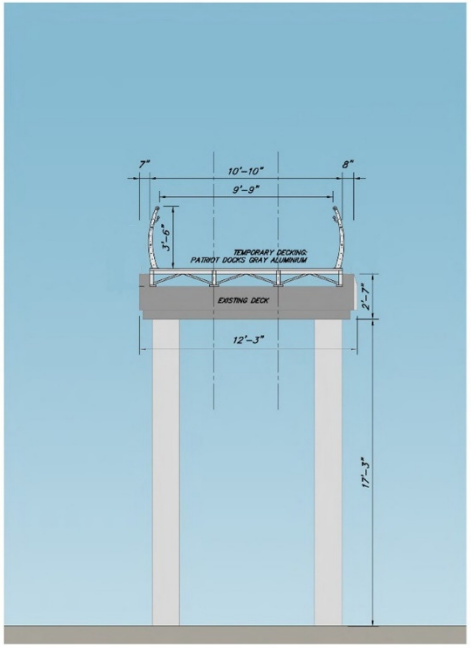
Temporary Transition Ramp – Plan and Elevation



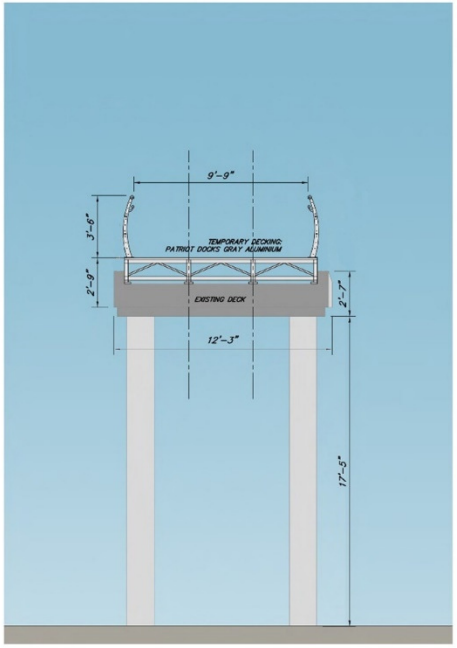


Architectural Section – Temporary Transition

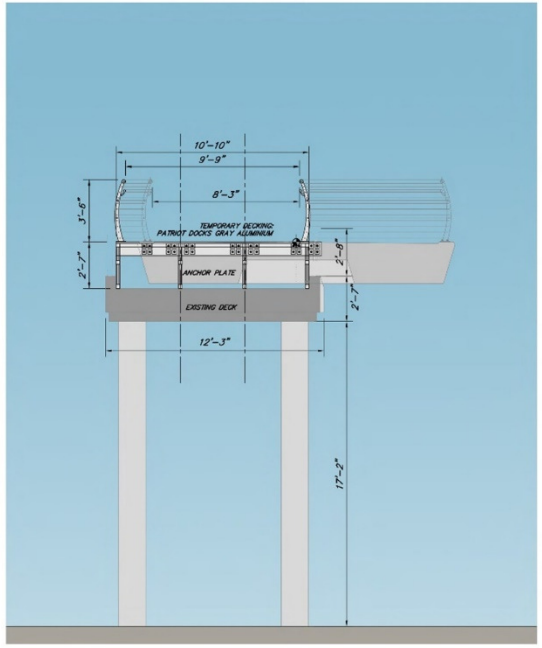




Transition Ramp Section A - A

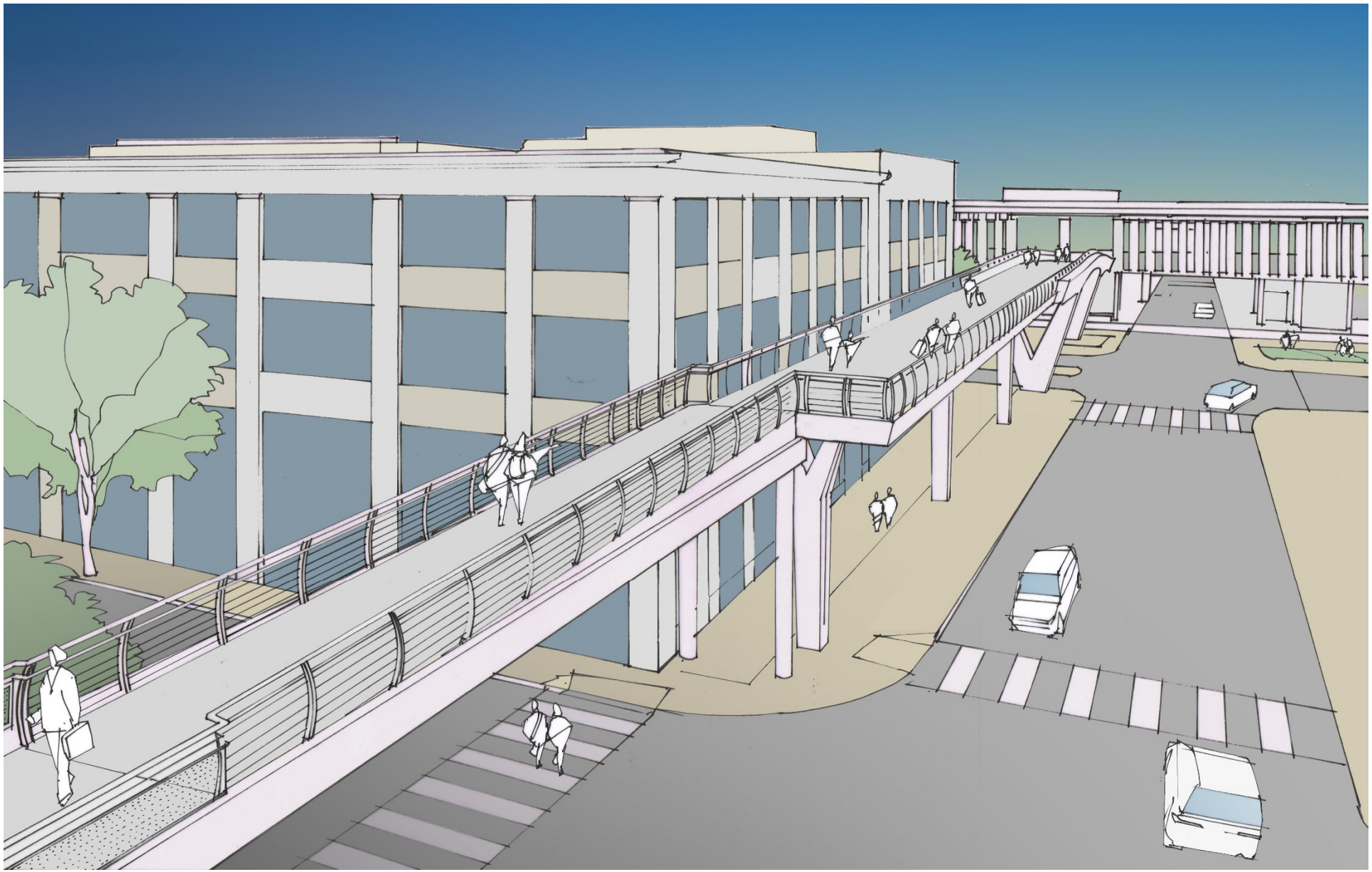


Transition Ramp Section B - B

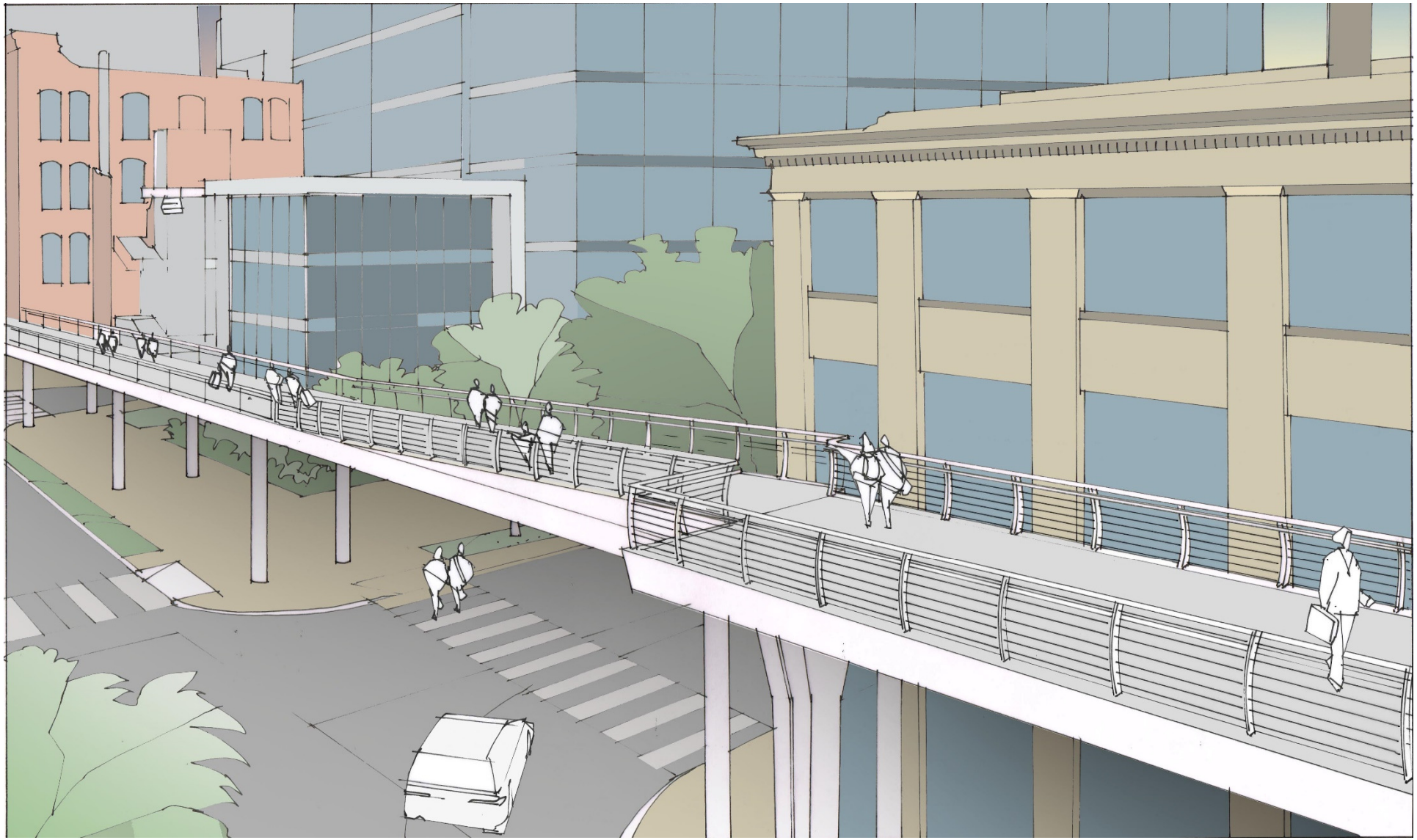


Transition Ramp Section C - C

Temporary Transition Ramp



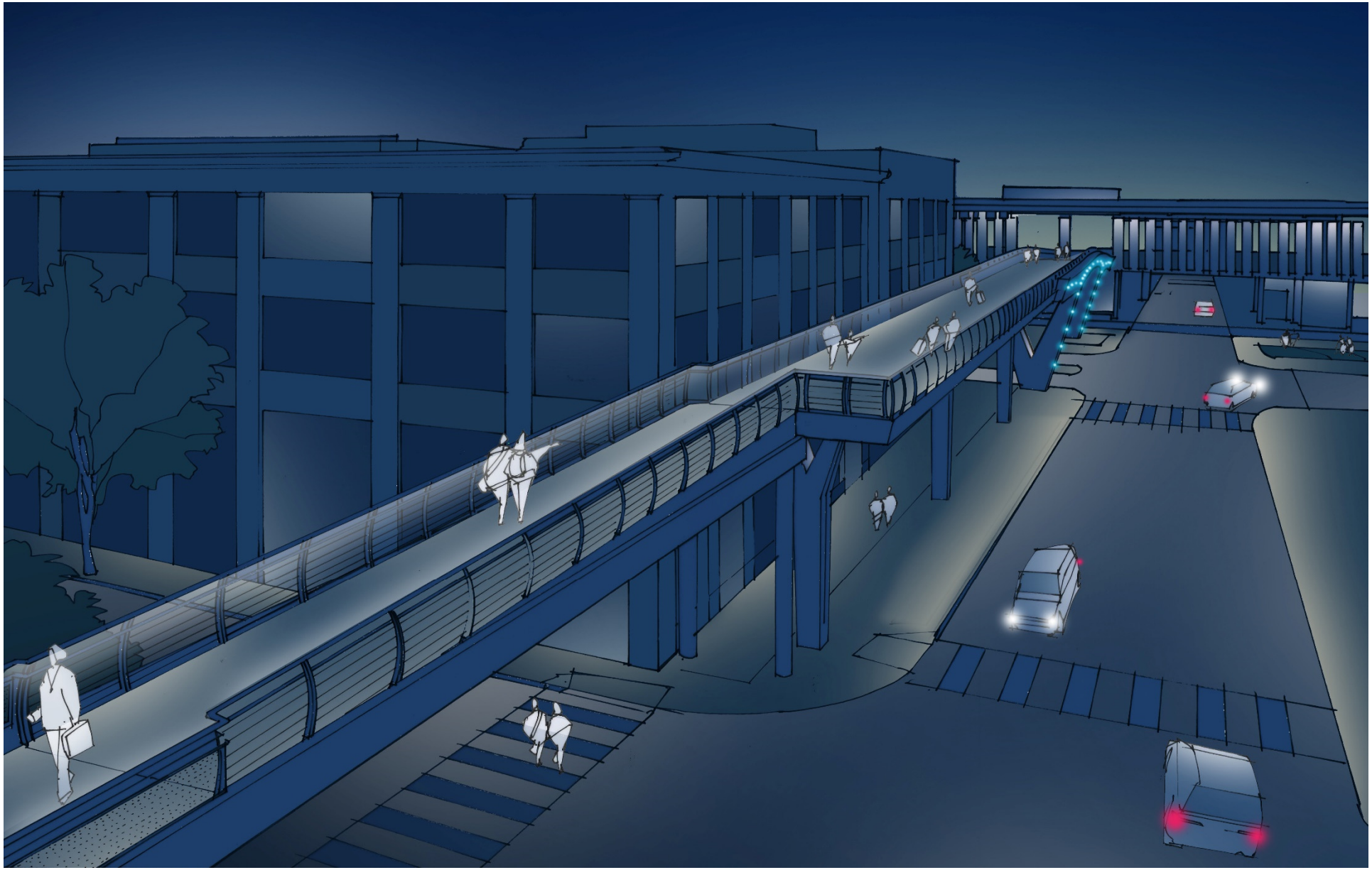
Temporary Transition Ramp



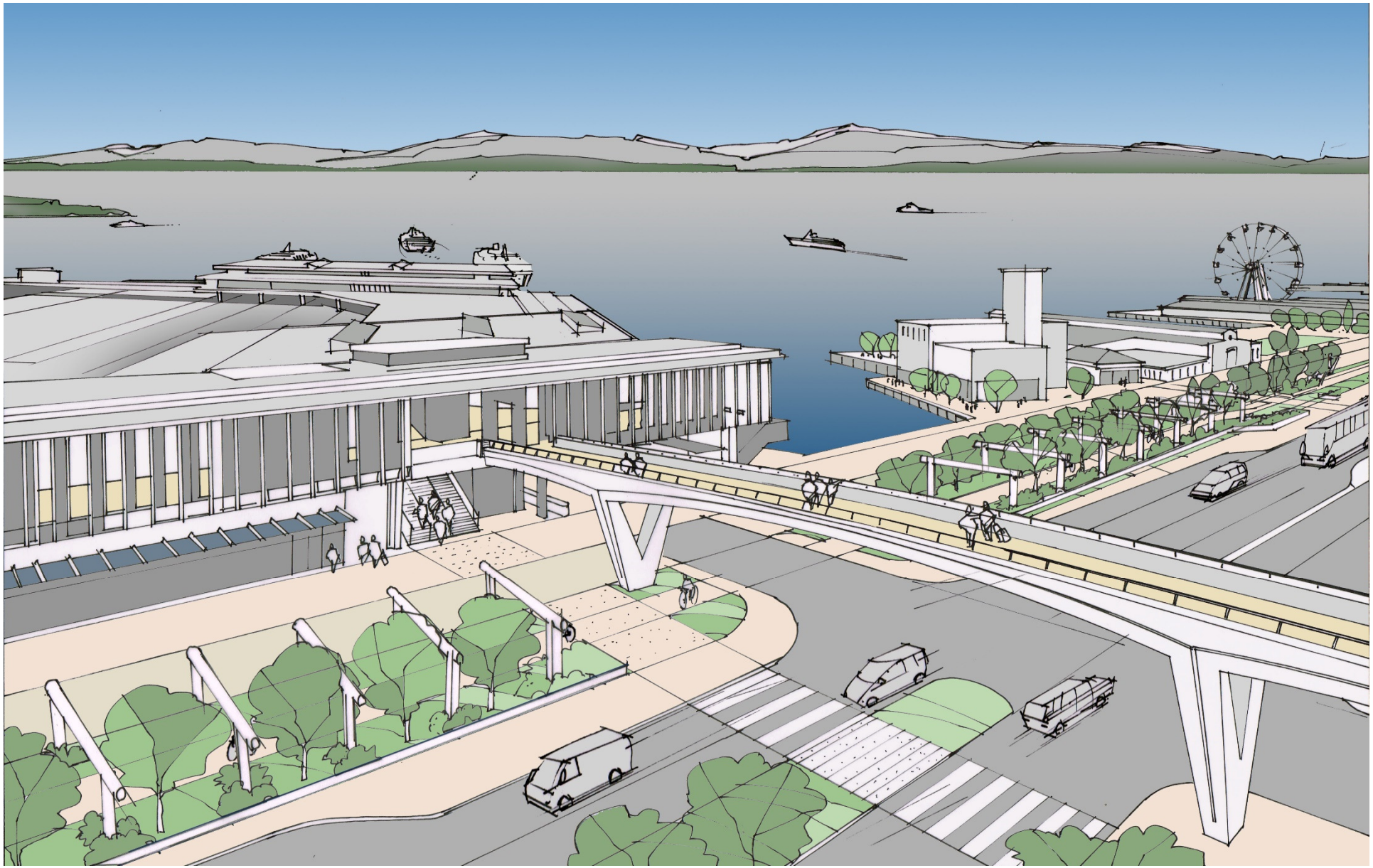
Temporary Transition Ramp

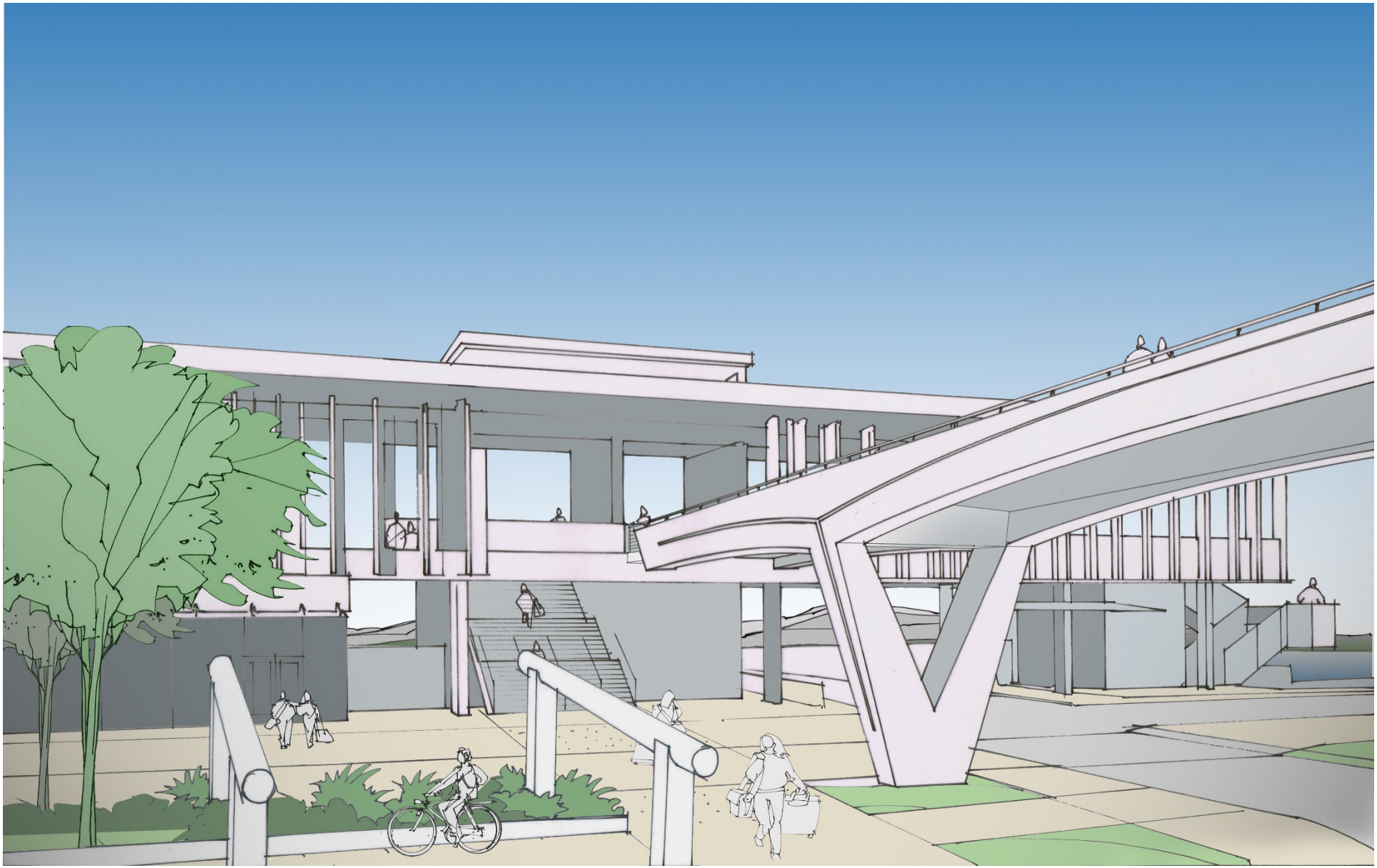
Temporary Transition Ramp

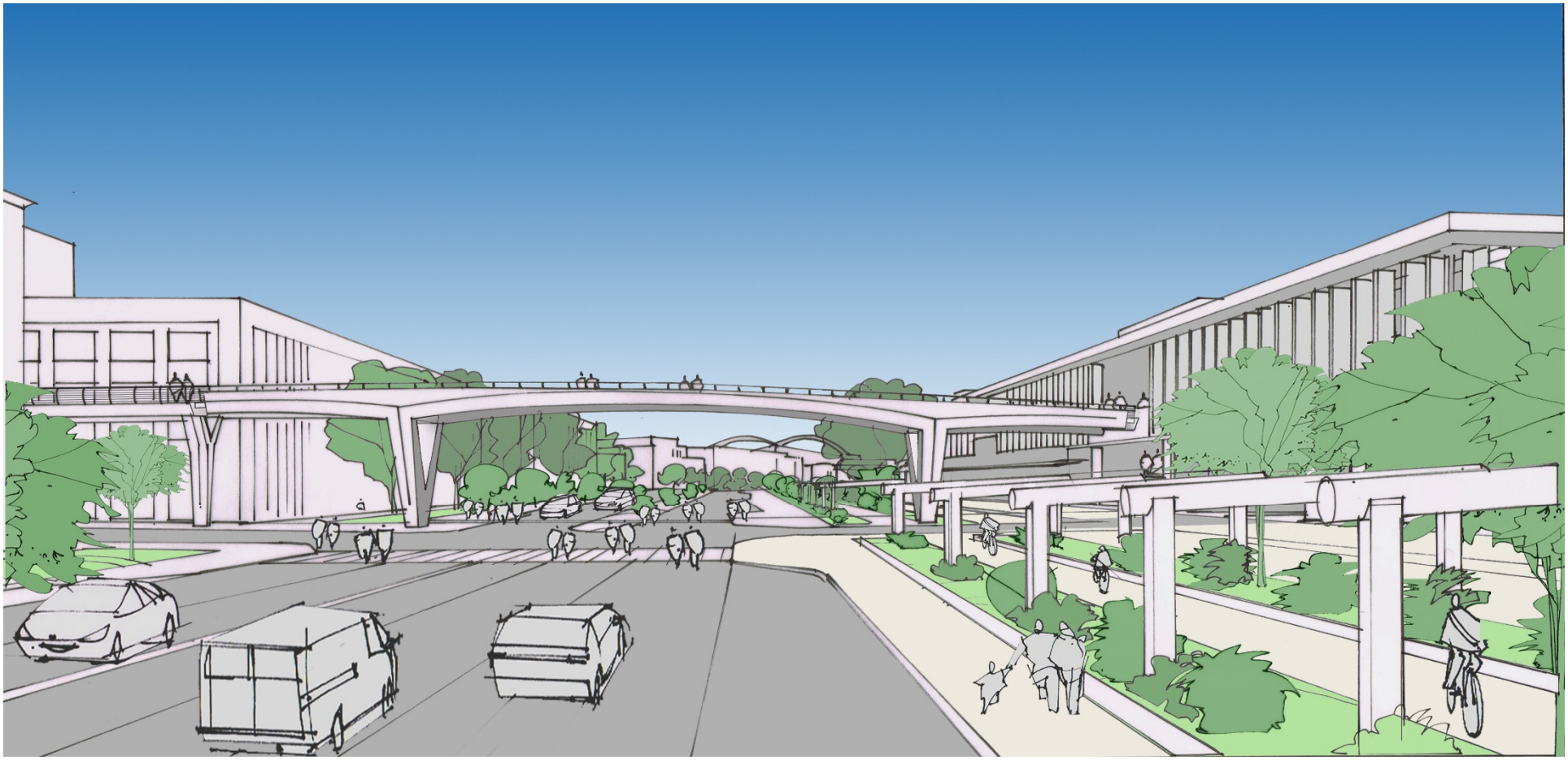
Temporary Transition Ramp

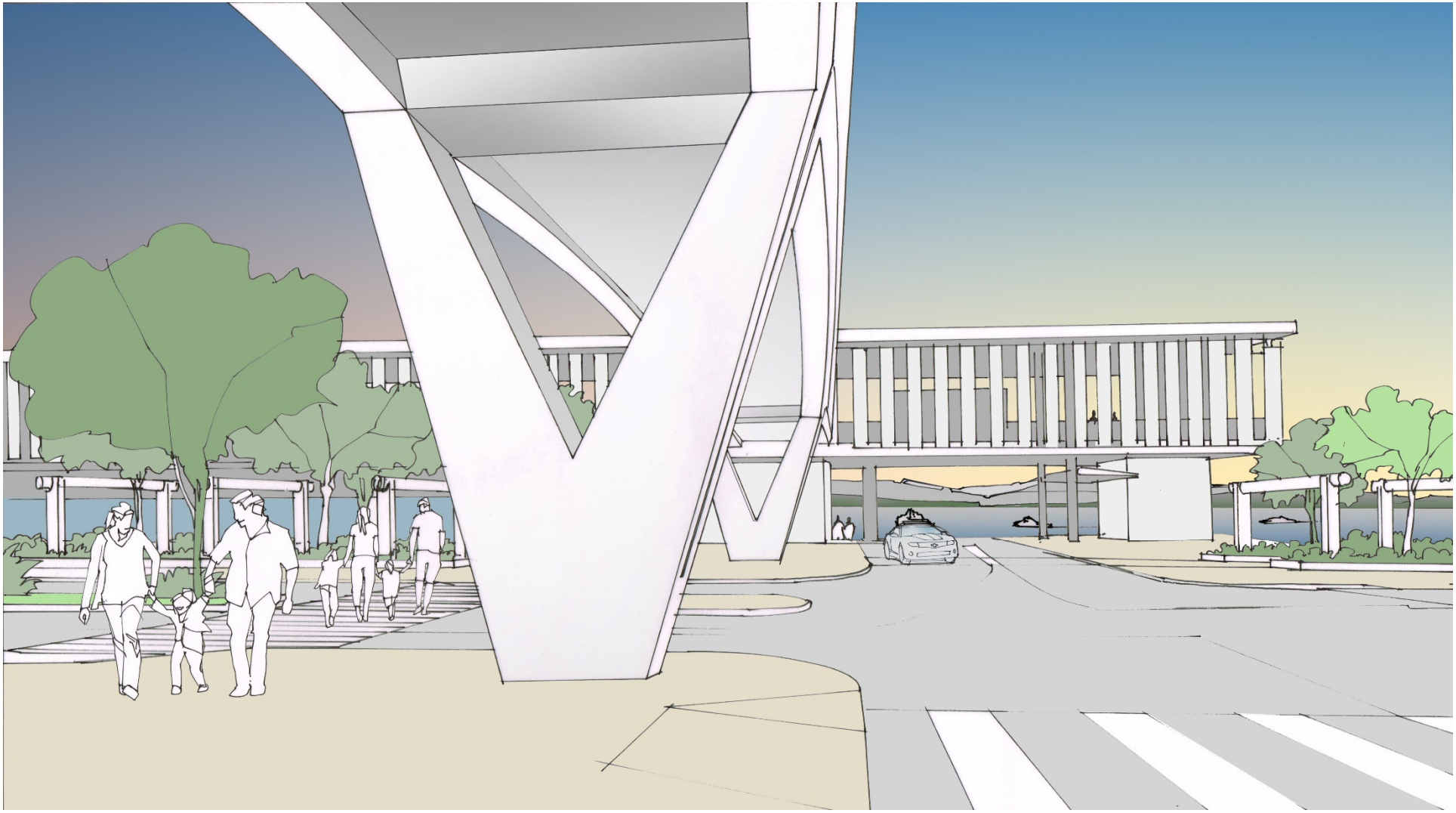


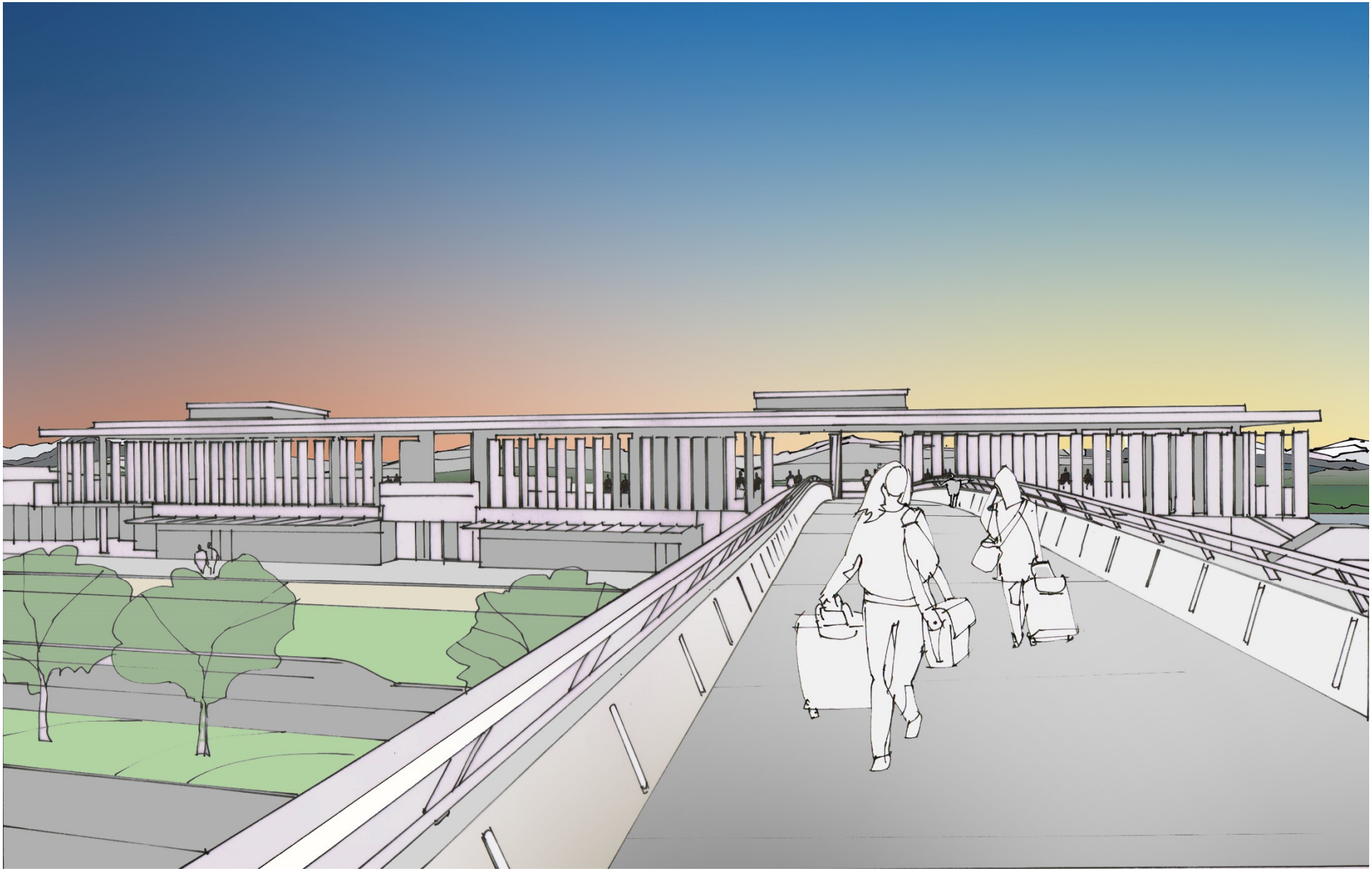
Marion Street Pedestrian Bridge

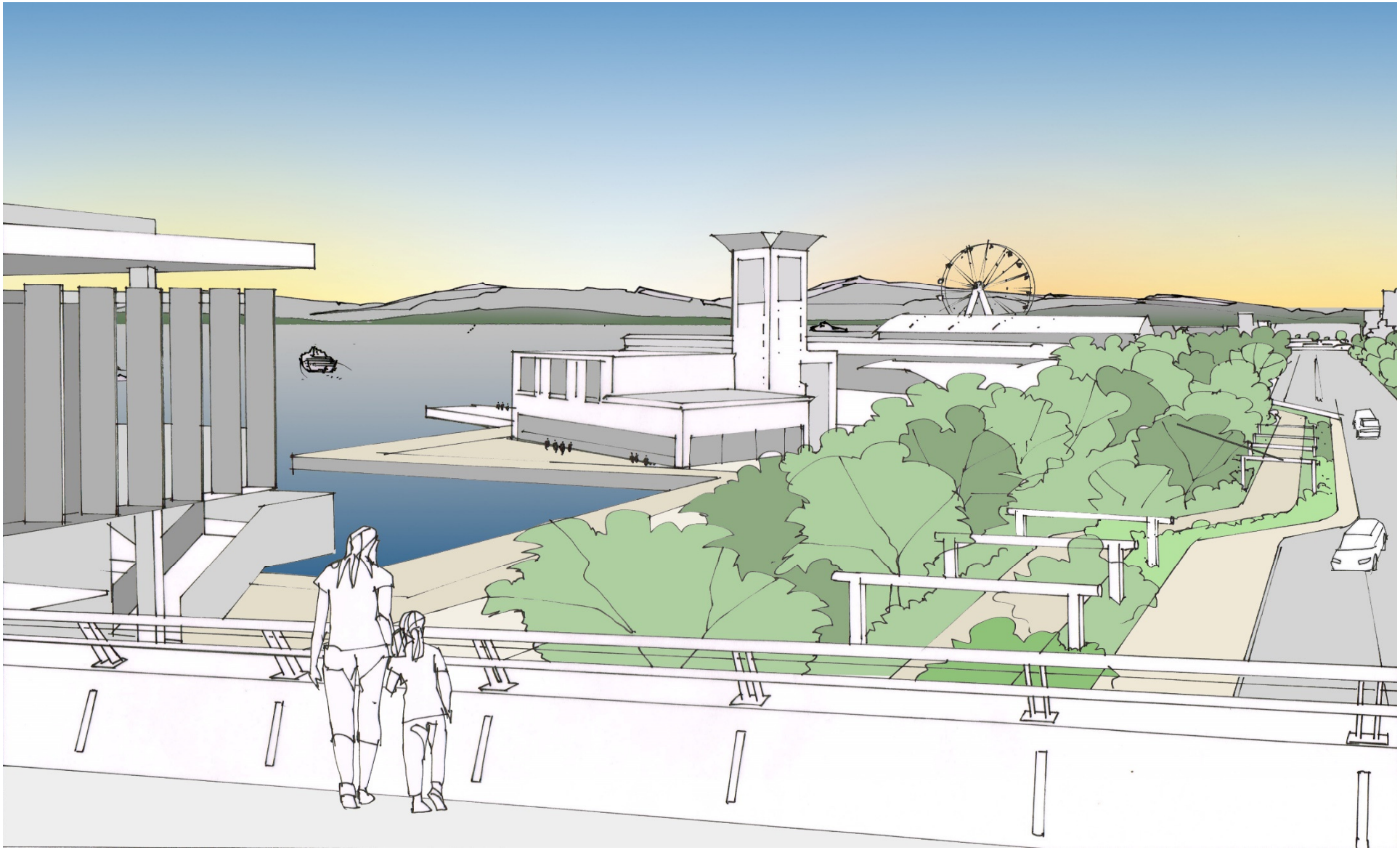


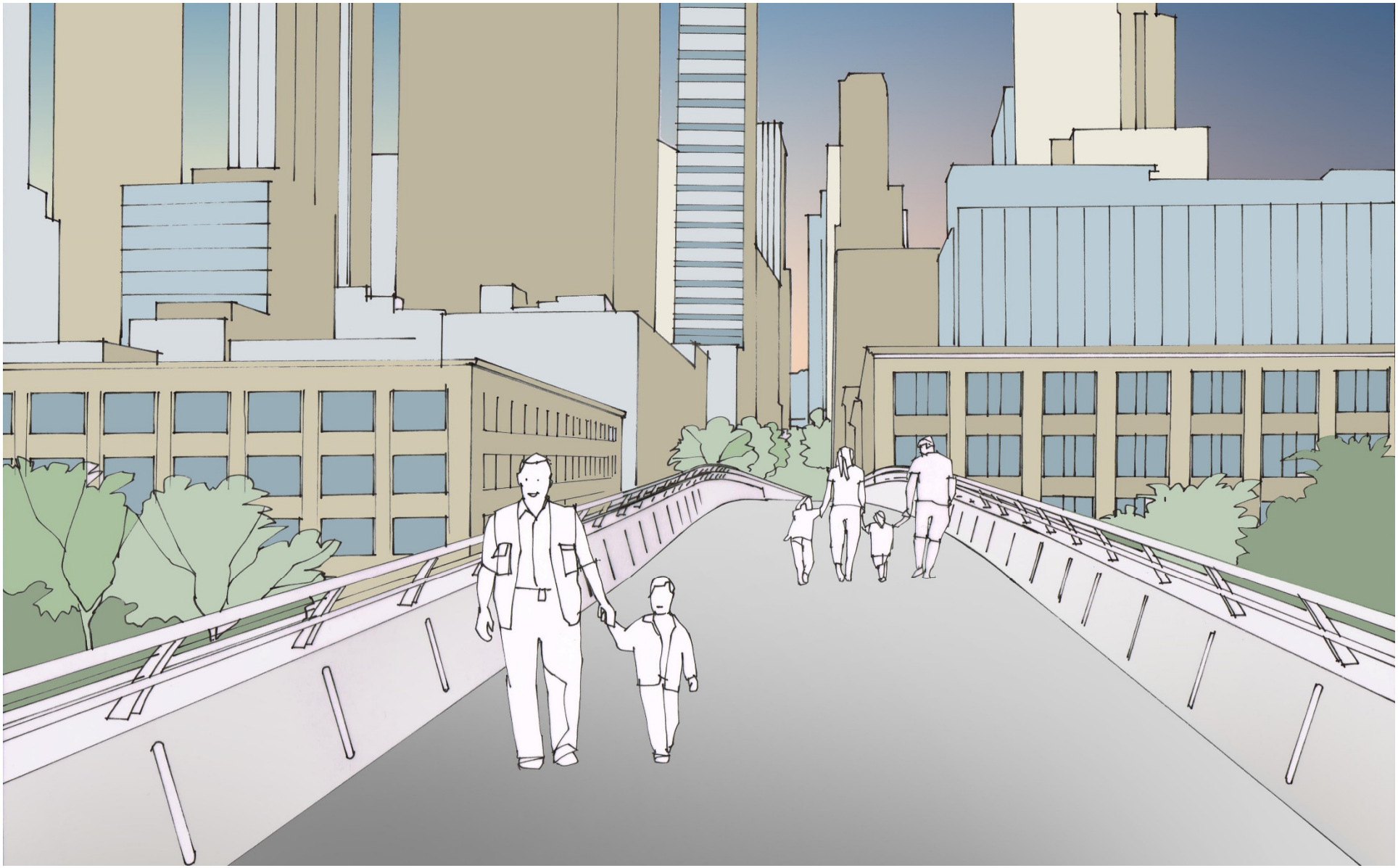


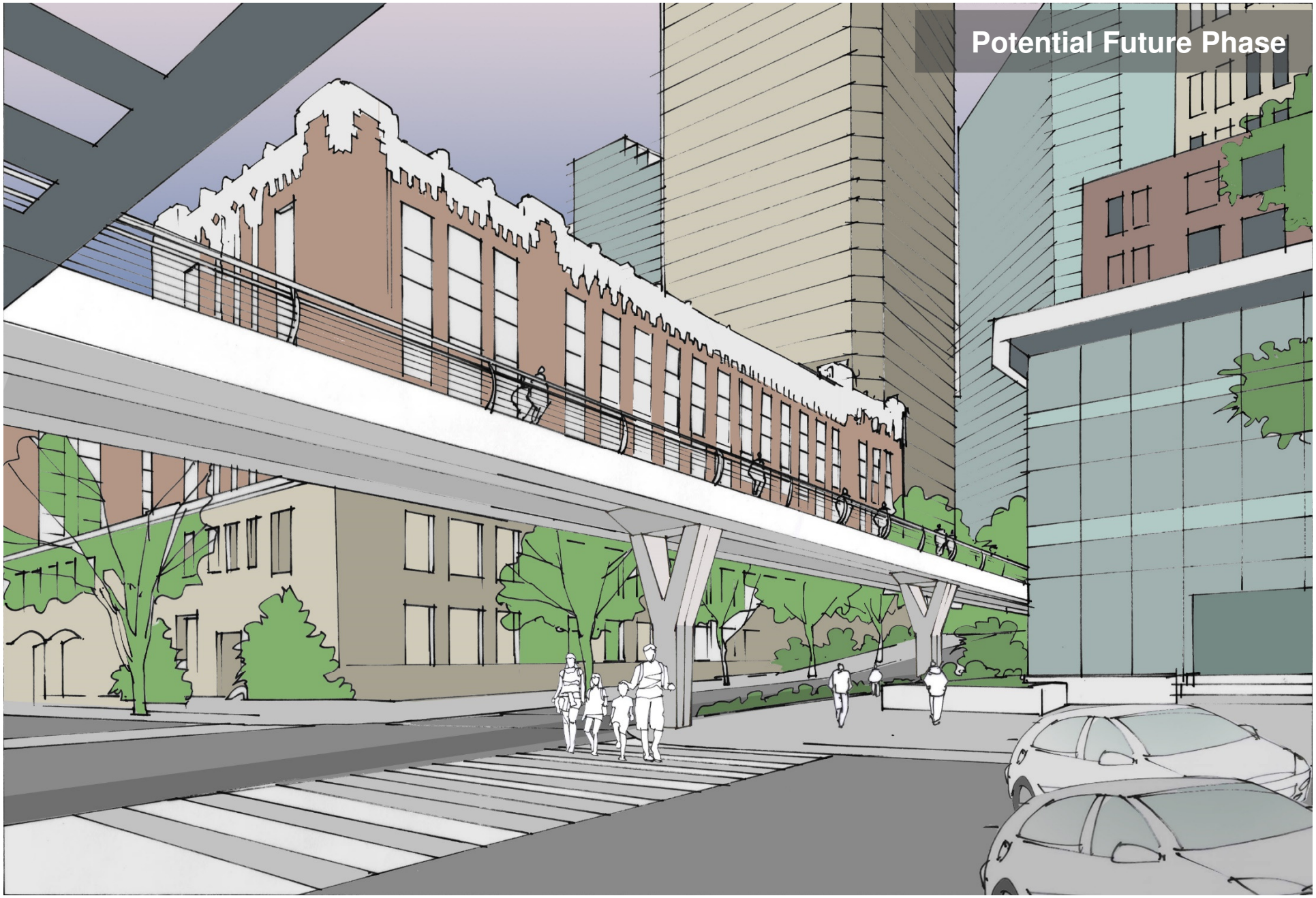


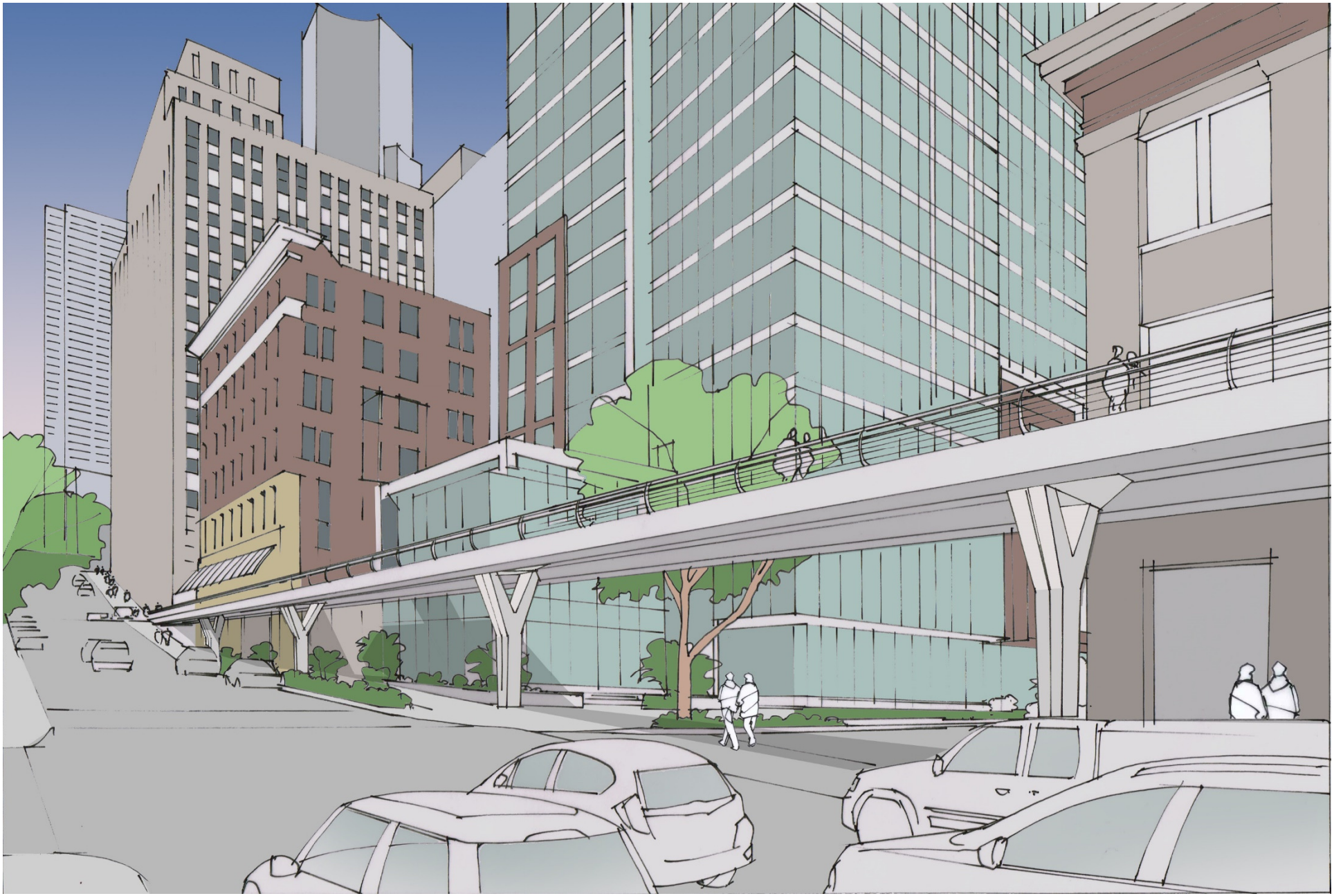


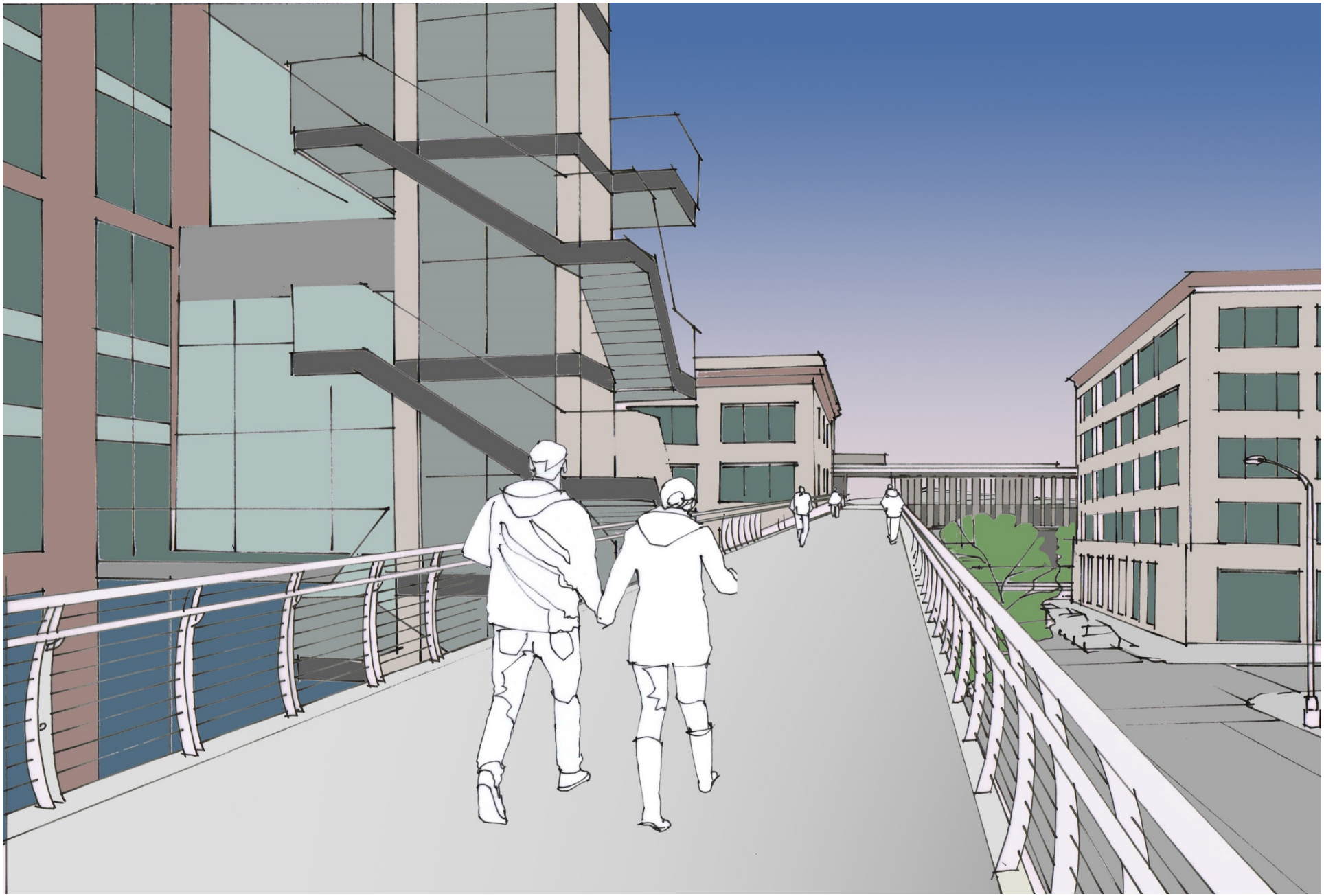


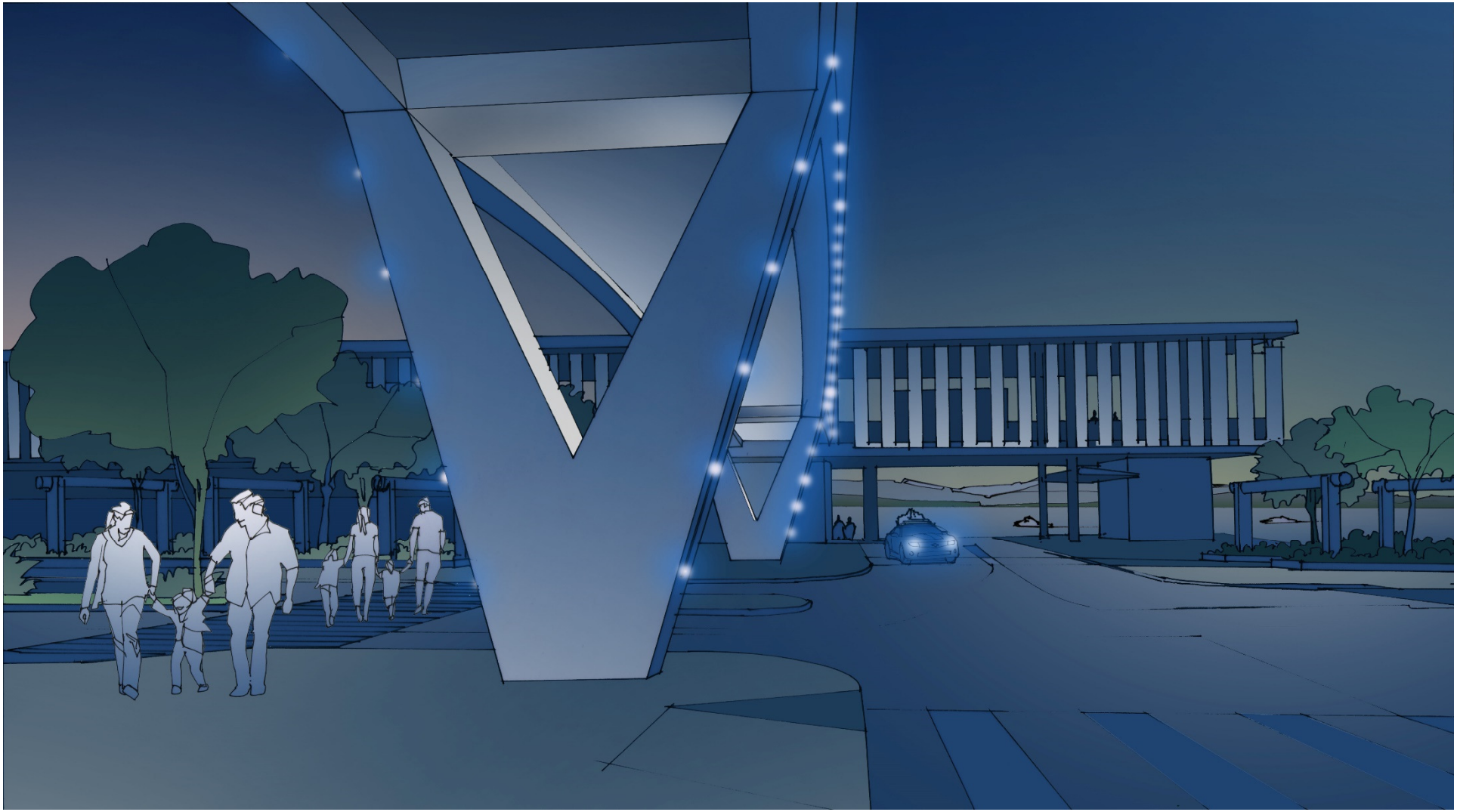


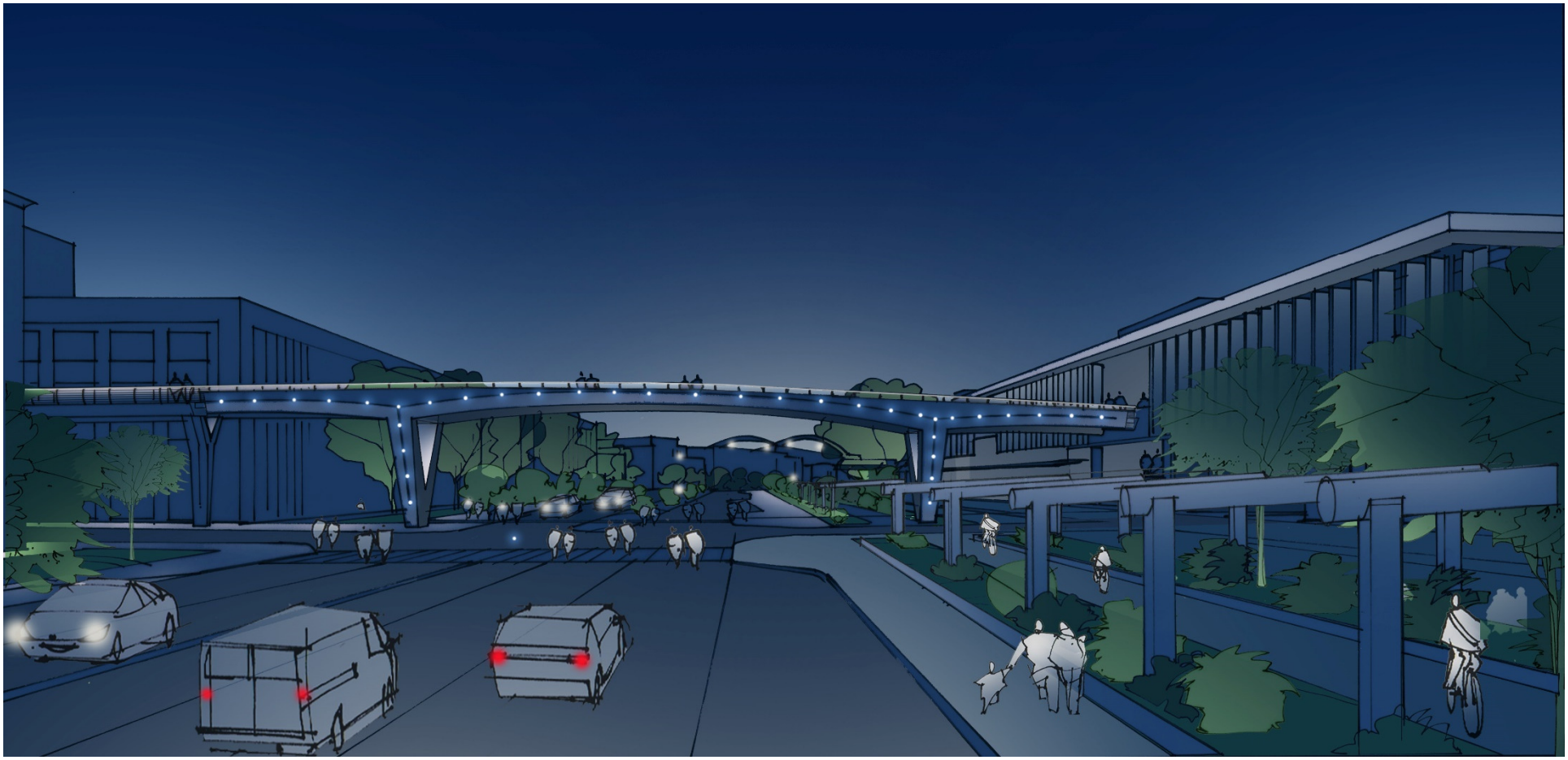


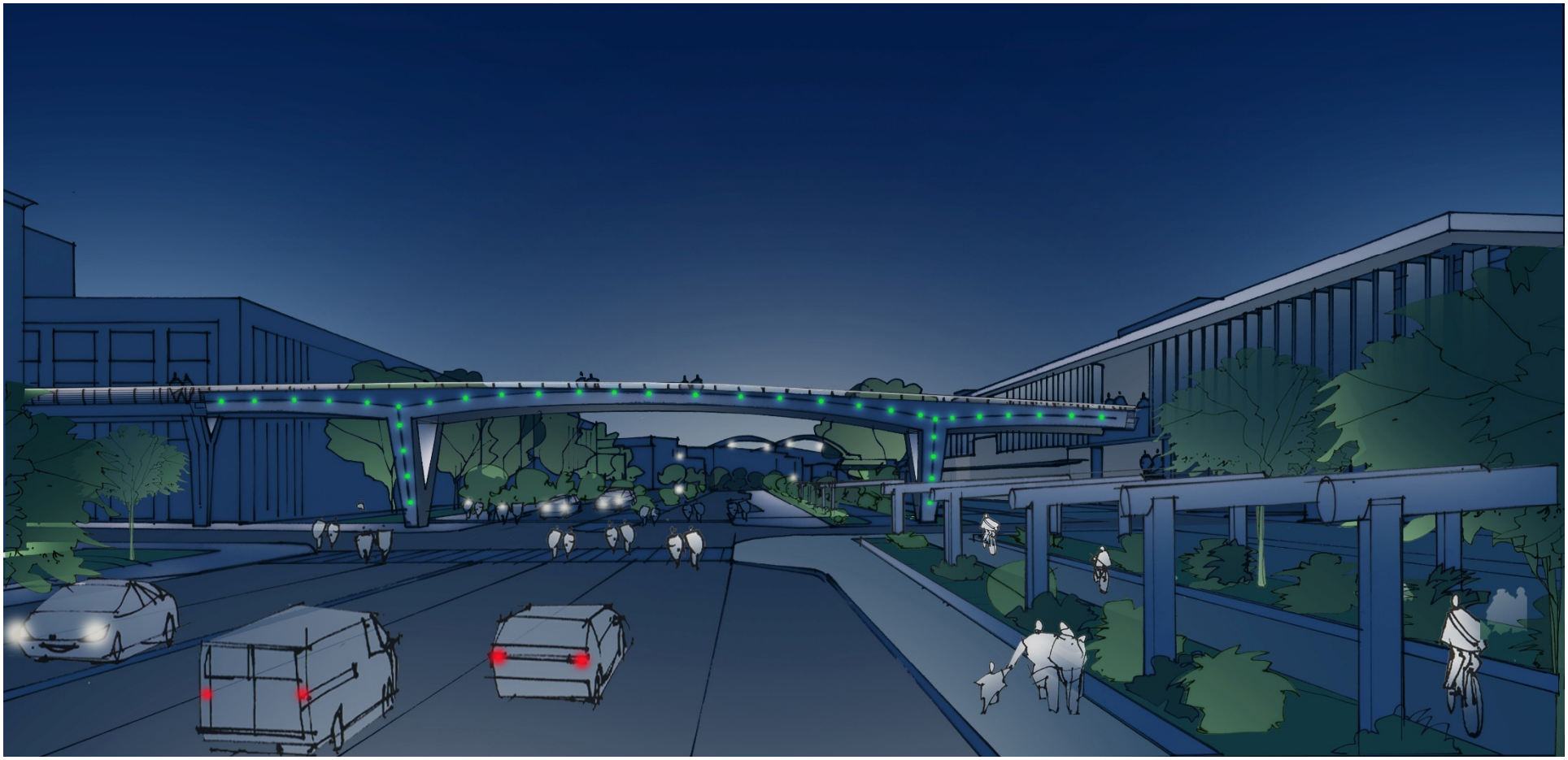

Potential Future Phase

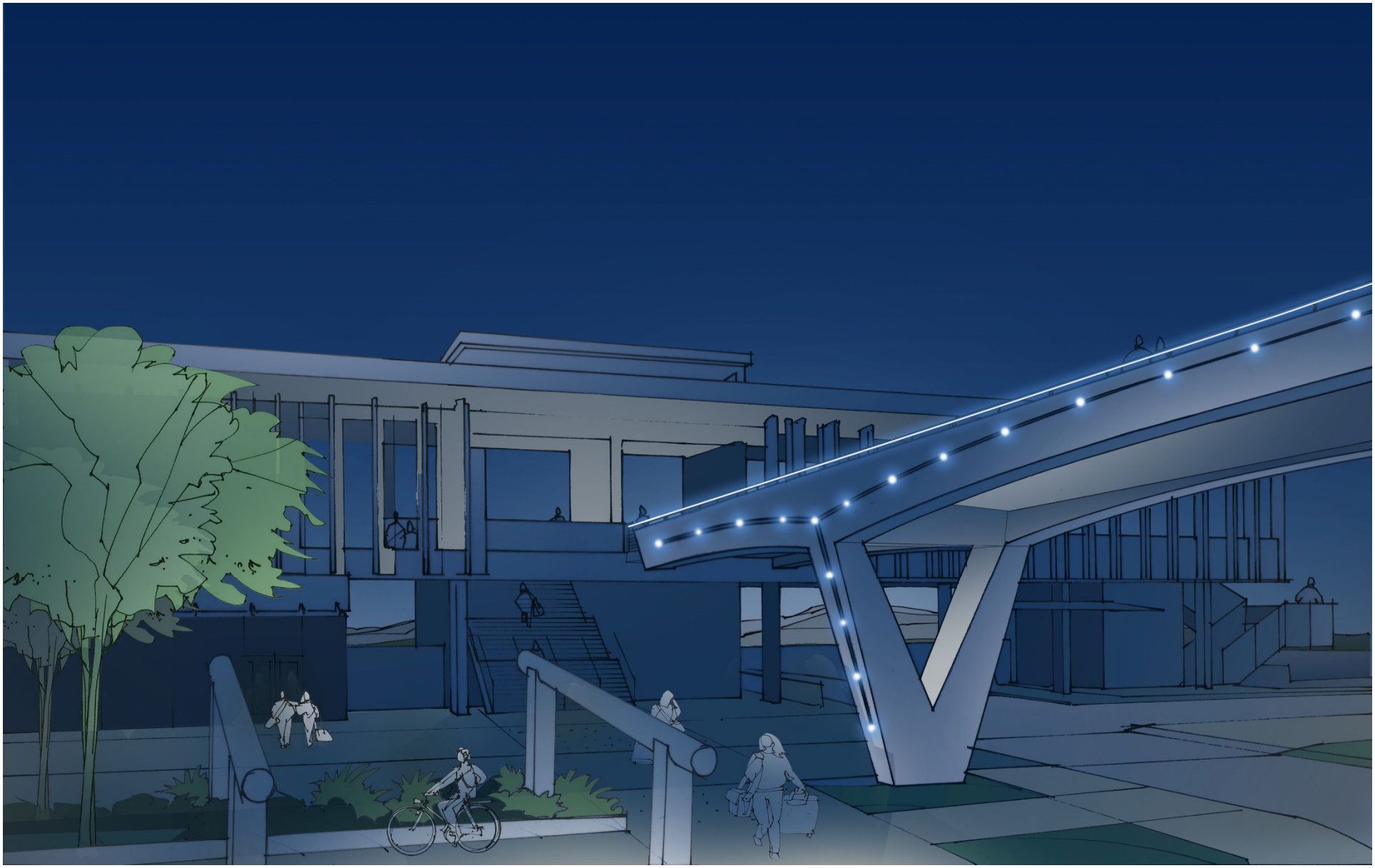


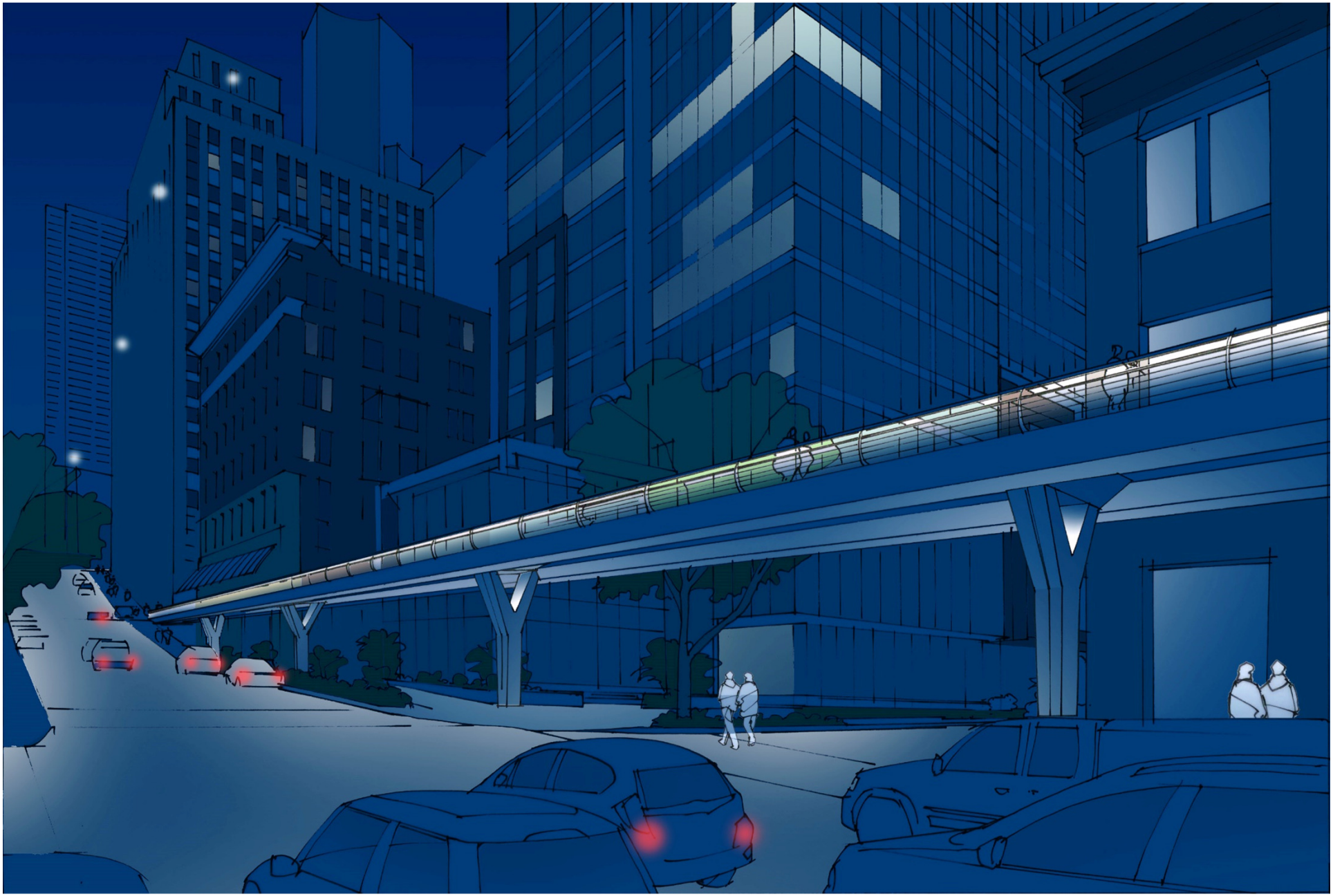


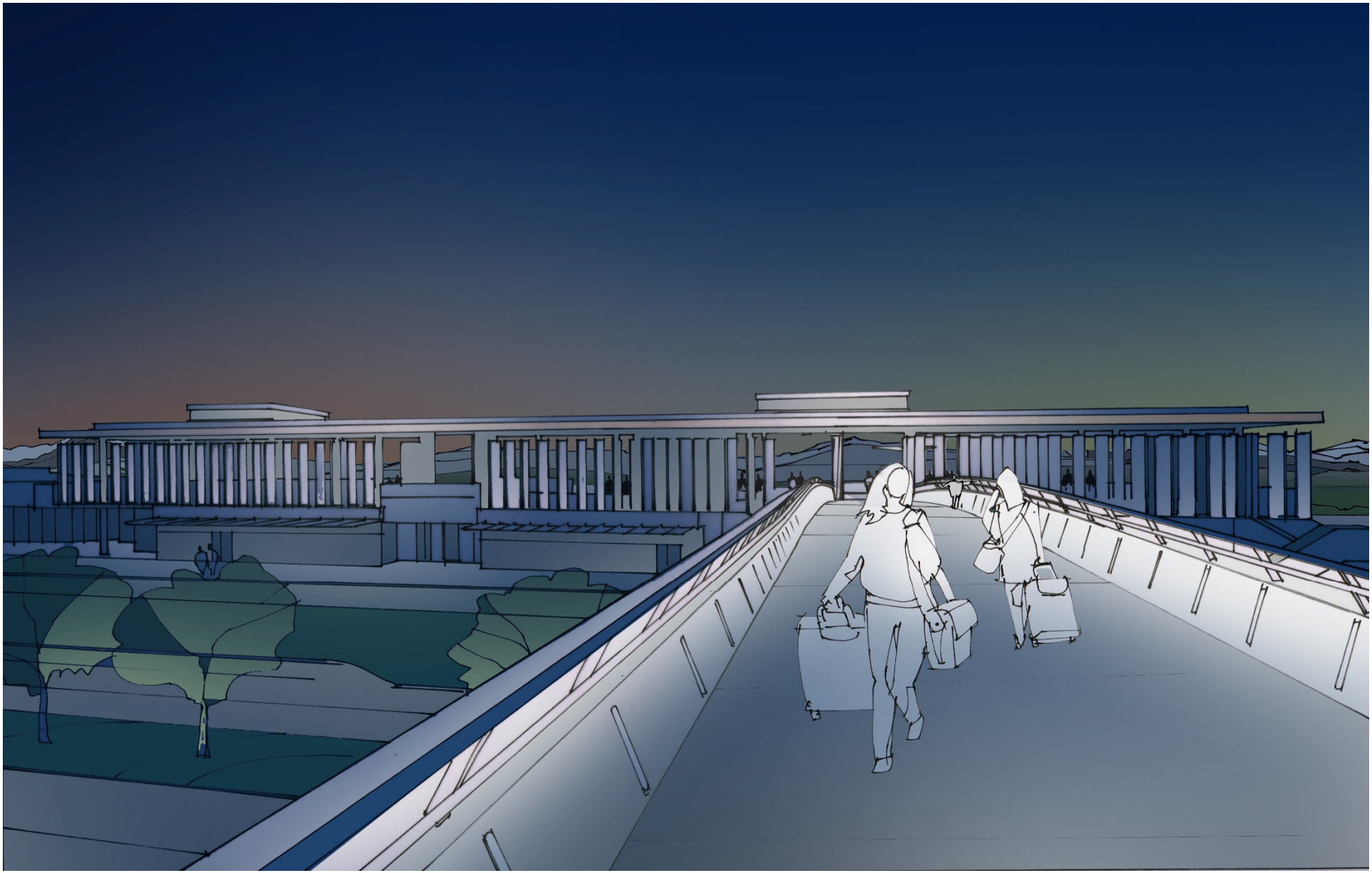












Marion Street Pedestrian Bridge

QUESTIONS AND ANSWERS