



AGENDA

- RECAP
- ALIGNMENT + OVERVIEW
- BRIDGE + LANDSCAPE
DESIGN
- DISCUSSION



- Design input and outreach work with North Seattle College



- Design and schedule coordination with Sound Transit



- Technical and Right-of-Way coordination with WSDOT



- Traffic planning and coordination with King County Metro

- Open House held June 2014
- Continual briefings:
 - NSC
 - modal Advisory boards (Bike and Ped)
 - stakeholders (District Councils and various advocacy/community groups)
 - **OCTOBER 15 OPEN HOUSE**
- Final Open House will be scheduled around 90% Design

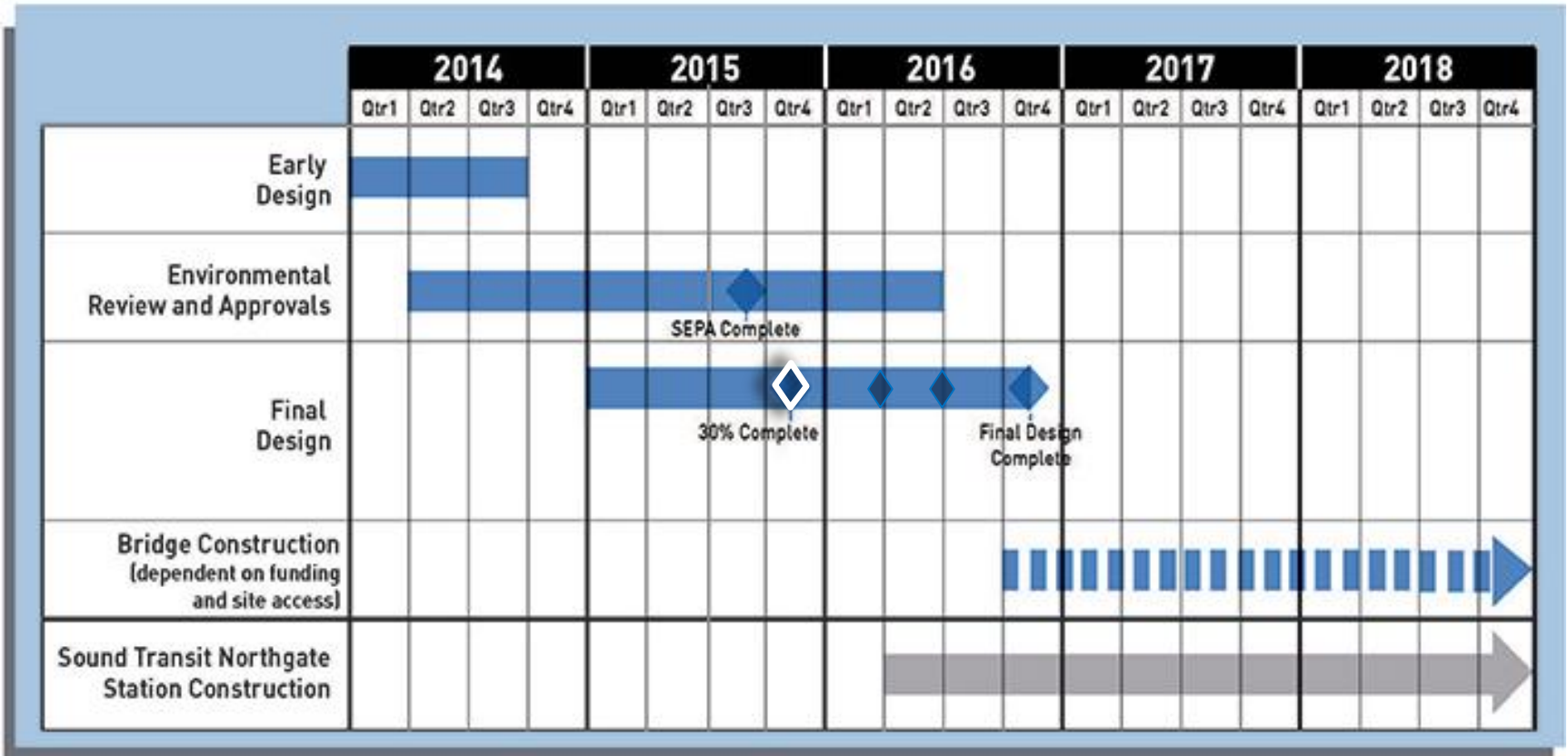
July 29, 2015	Maple Leaf Summer Social
July 15, 2015	North Seattle Chamber of Commerce
June 17, 2015	Licton Springs Community Council
June 17, 2015	Seattle Pedestrian Advisory Board
June 24, 2015	Pinehurst Community Council
May 27, 2015	Northwest District Council Briefing
May 26, 2015	Cascade Bicycle Club: Connect Northgate
May 22, 2015	Seattle Neighborhood Expo
May 12, 2015	Meadowbrook Community Council
May 2015	Seattle Pedestrian Advisory Board
April 29, 2015	Maple Leaf Community Council
April 22, 2015	North Seattle College Earth Day Symposium
October 21, 2014	North Seattle College
September 10, 2014	Public Briefing
June 3, 2014	Open House
March 2014	Sound Transit Open House



\$26.3M Project Cost Estimate (planning-level)

Secured	
\$5M	Sound Transit
\$5M	City of Seattle
\$10M	Washington State
TBD	
\$25M	Federal TIGER Grant Application (combined Bridge and Bike Share application)
\$15M	Move Seattle Levy

Northgate Pedestrian & Bicycle Bridge Project Schedule



This project will provide non-motorized improvements in the Northgate, North College Park and Licton Springs neighborhoods in the vicinity of Sound Transit's North Link Station and the North Seattle College.

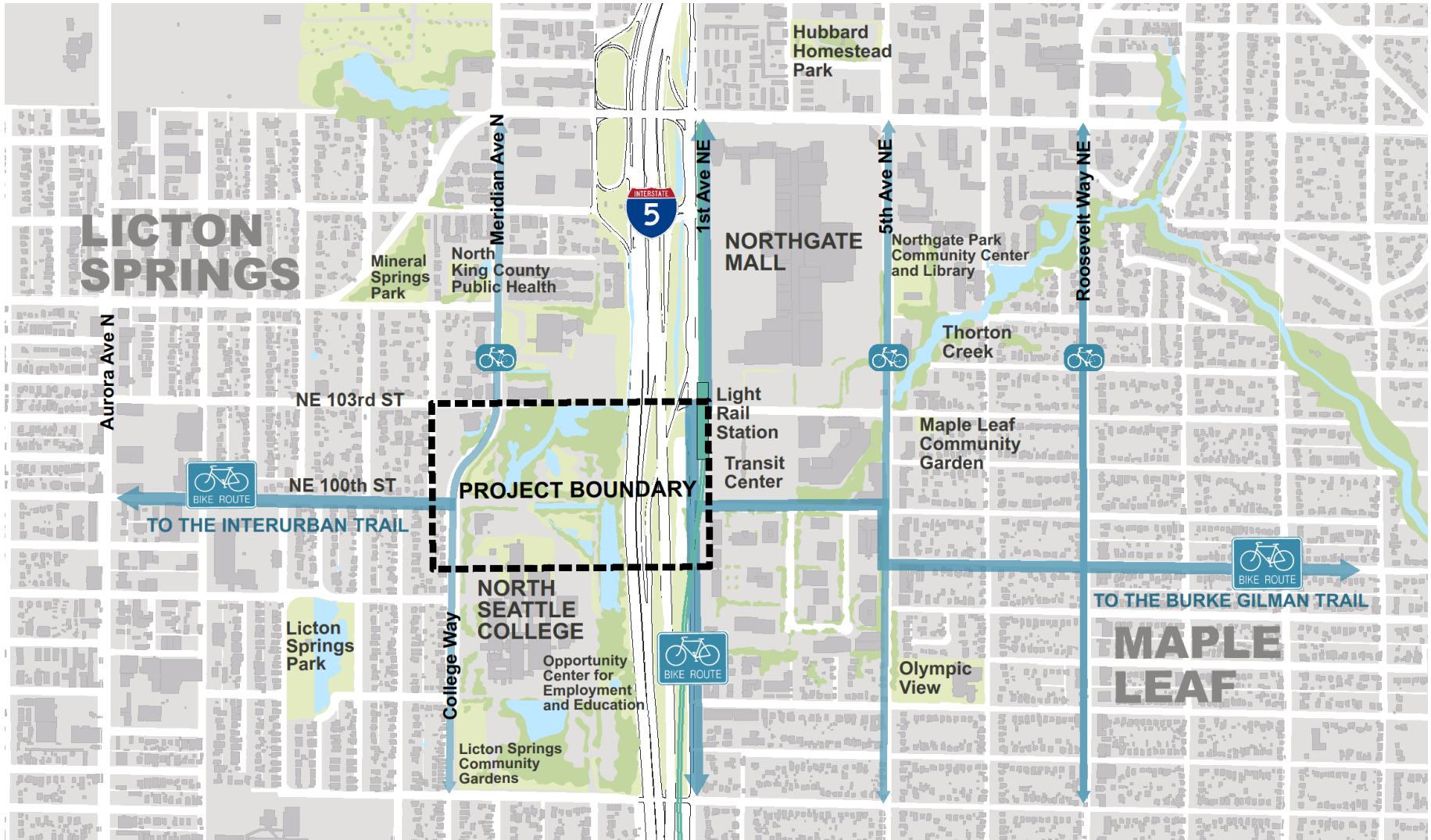
Improvements include:

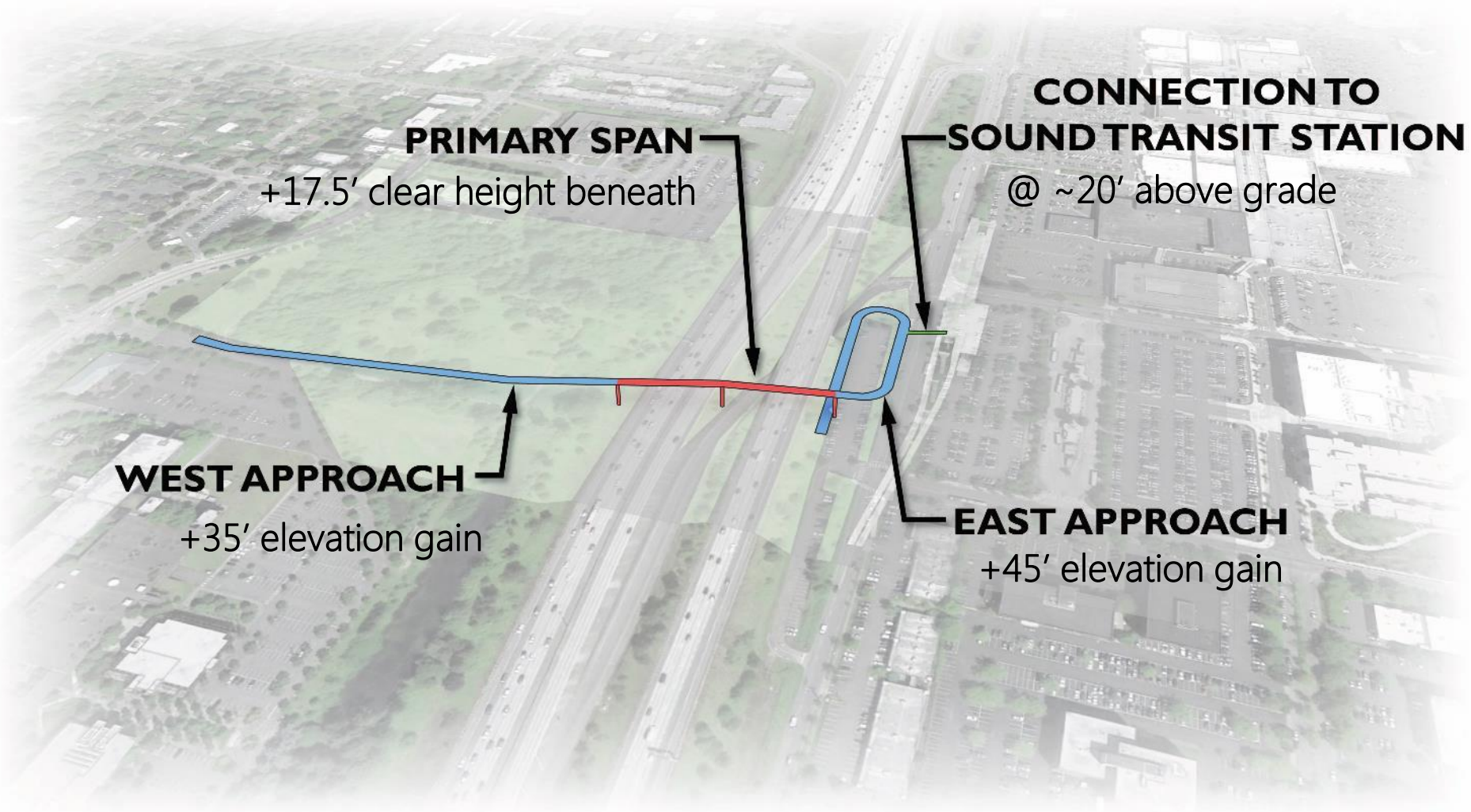
- Pedestrian/bicycle overpass over I-5
- Connections of west and east neighborhoods/businesses
- Connection of integrated transit facilities with the bridge and separated bicycle facilities

CPTED: Crime Prevention Through Environmental Design

- A multi-disciplinary approach to deterring criminal behavior through environmental design.
- CPTED strategies rely upon the ability to influence offender decisions that precede criminal acts by affecting the built, social and administrative environment.

- Provide a safe and efficient link for pedestrians and bicyclists over I-5
- Inspire users to connect with their environment through a rich variety of experiences across the bridge
- Enhance local environmental systems





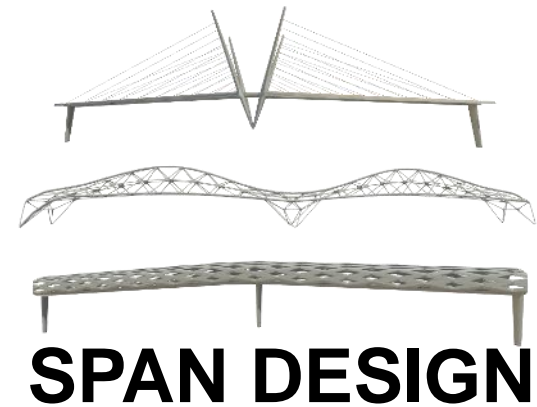
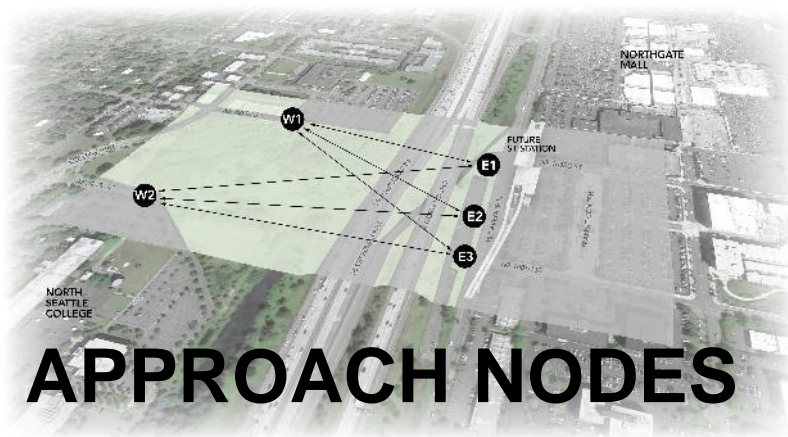
PRIMARY SPAN
+17.5' clear height beneath

**CONNECTION TO
SOUND TRANSIT STATION**
@ ~20' above grade

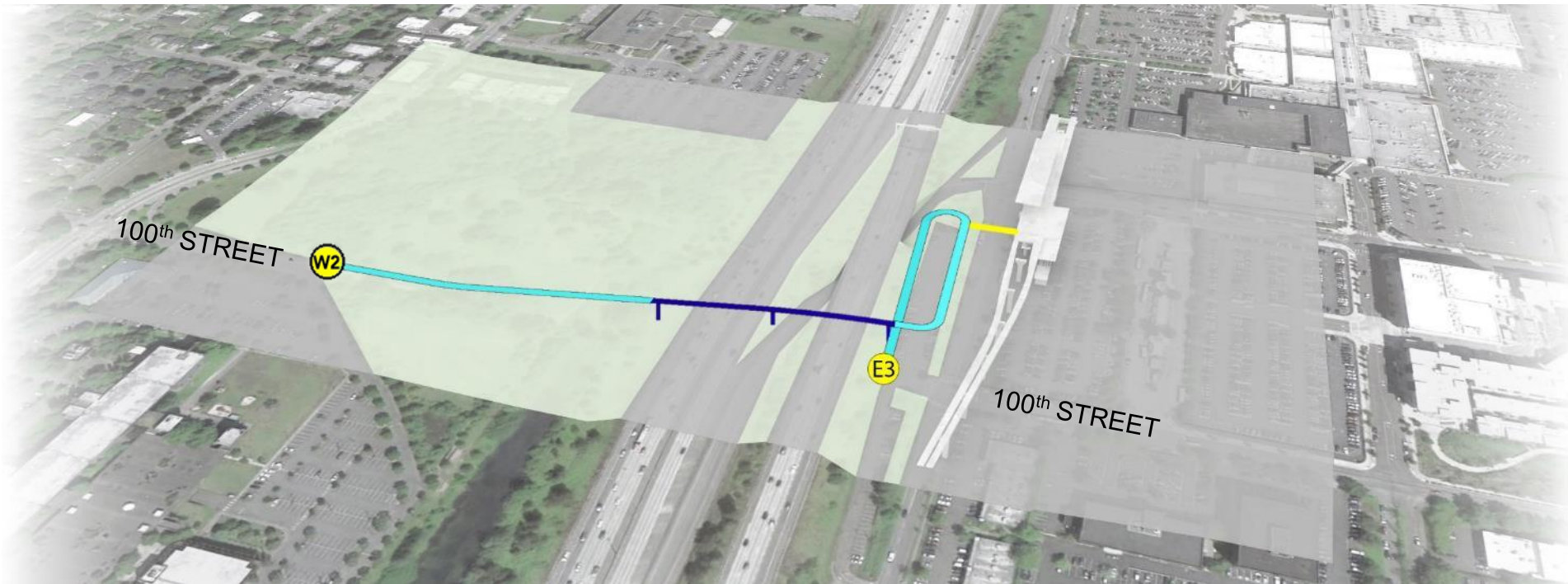
WEST APPROACH
+35' elevation gain

EAST APPROACH
+45' elevation gain

- Connectivity/Geometry
- Safety
- Visual Impact/Presence
- Environmental Impact
- Constructability
- Cost

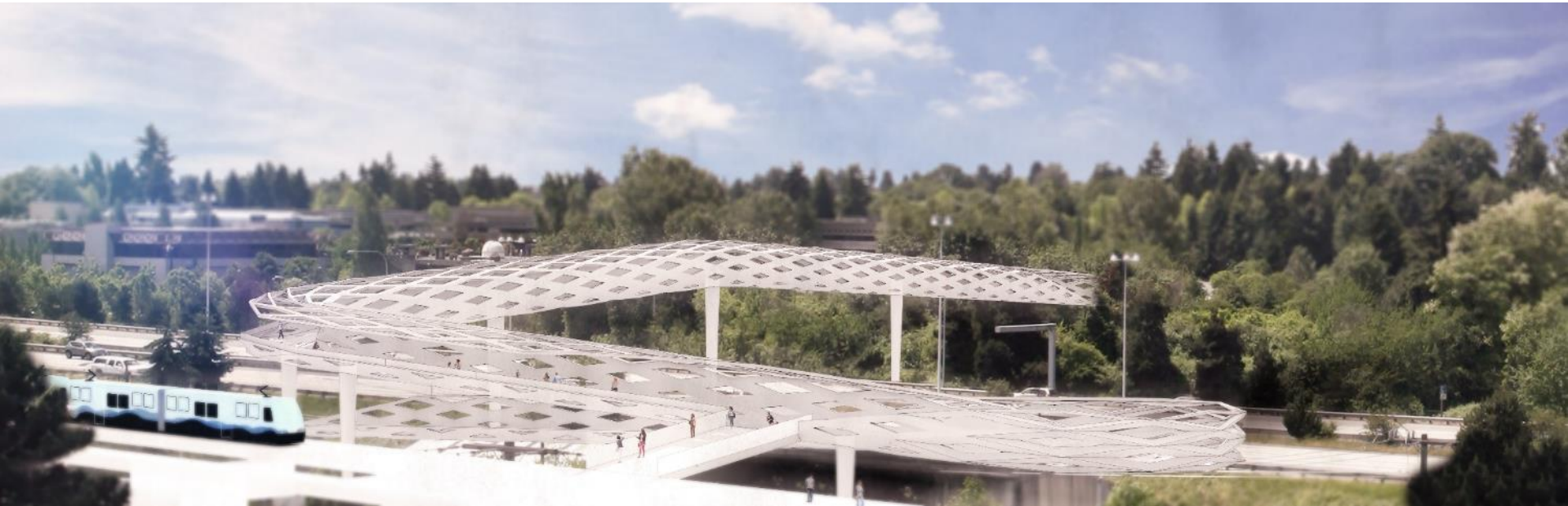


- Links to existing and future bike facilities
- Proximity to Campus
- Ideal elevation at connection to Sound Transit Station



- Constructability
- Integration of railings and barriers
- Unique Aesthetic Qualities
- Community Preference

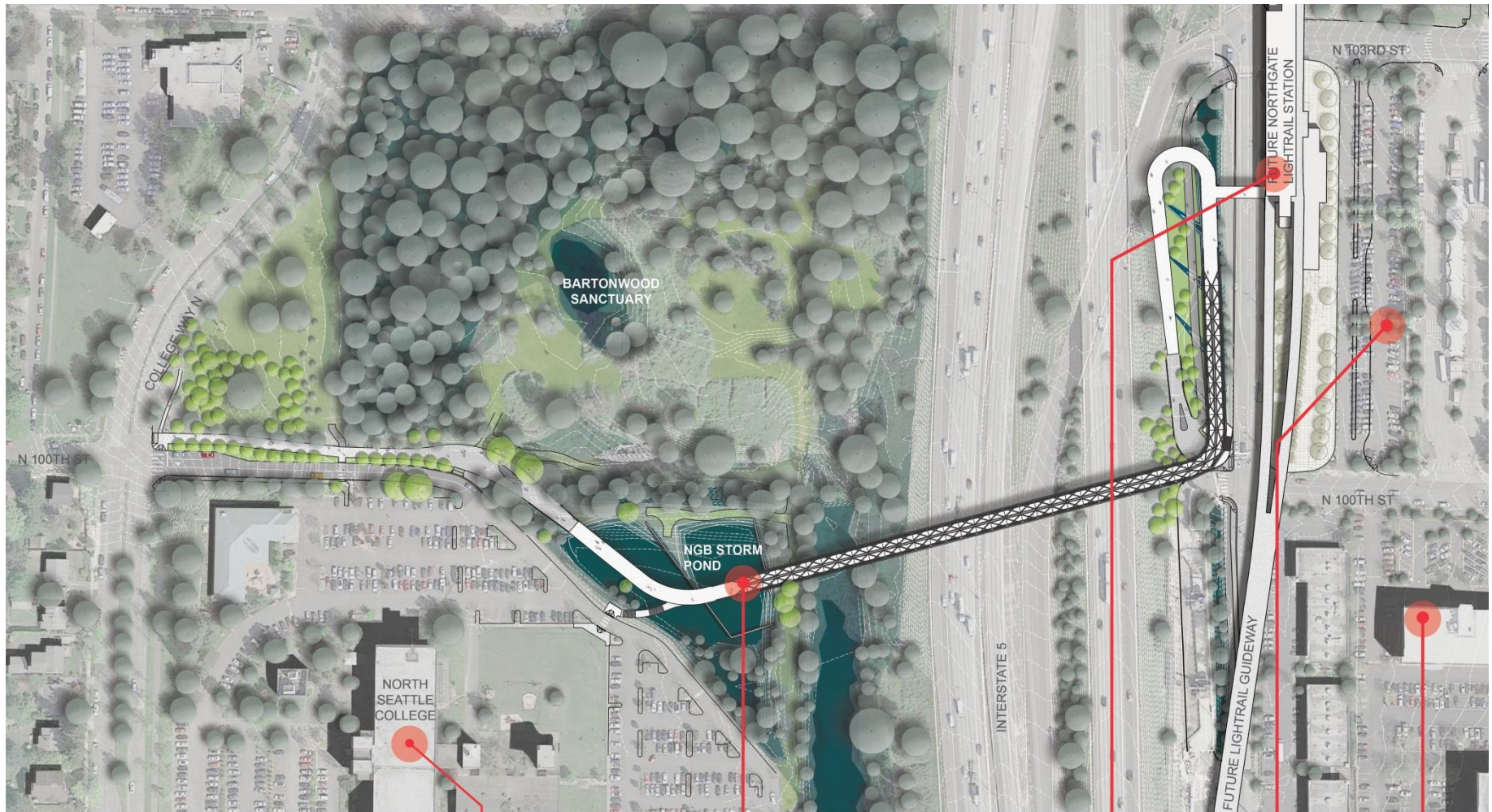




VIEW FROM NORTHEAST

ALIGNMENT + OVERVIEW





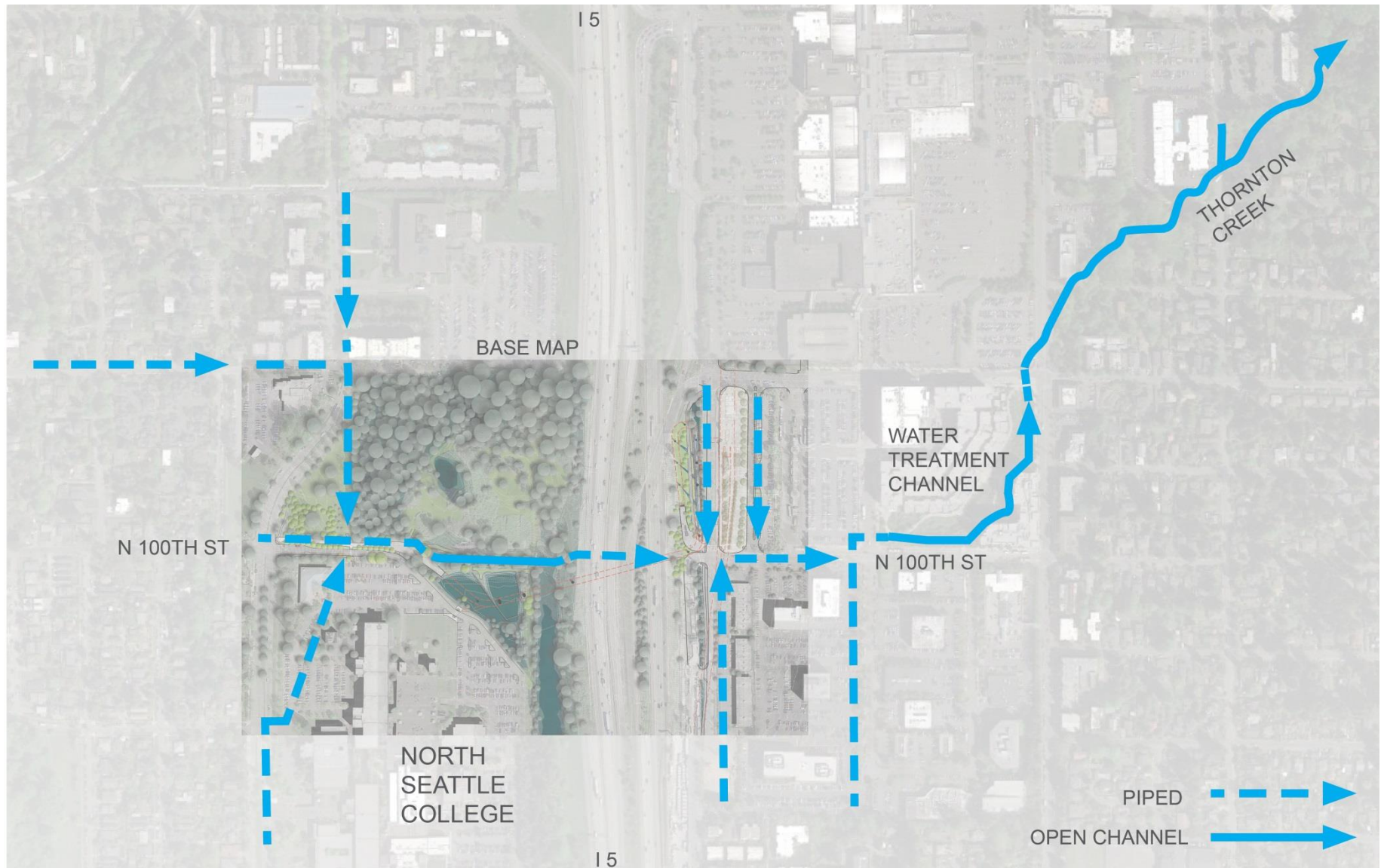
Future growth or decline tied to economic conditions. Currently in decline.

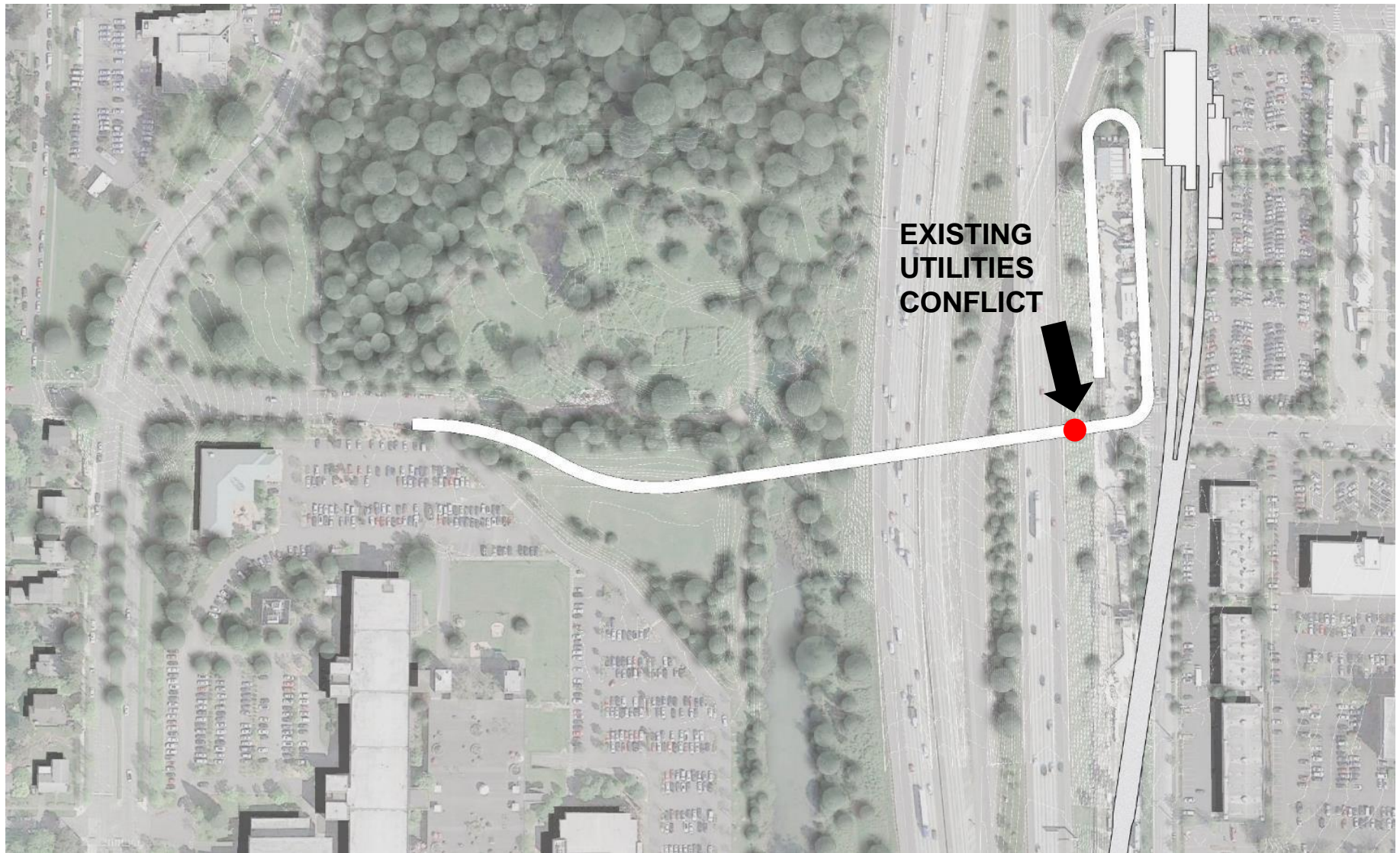
3,000
People per day to use network of Northgate paths upon opening.

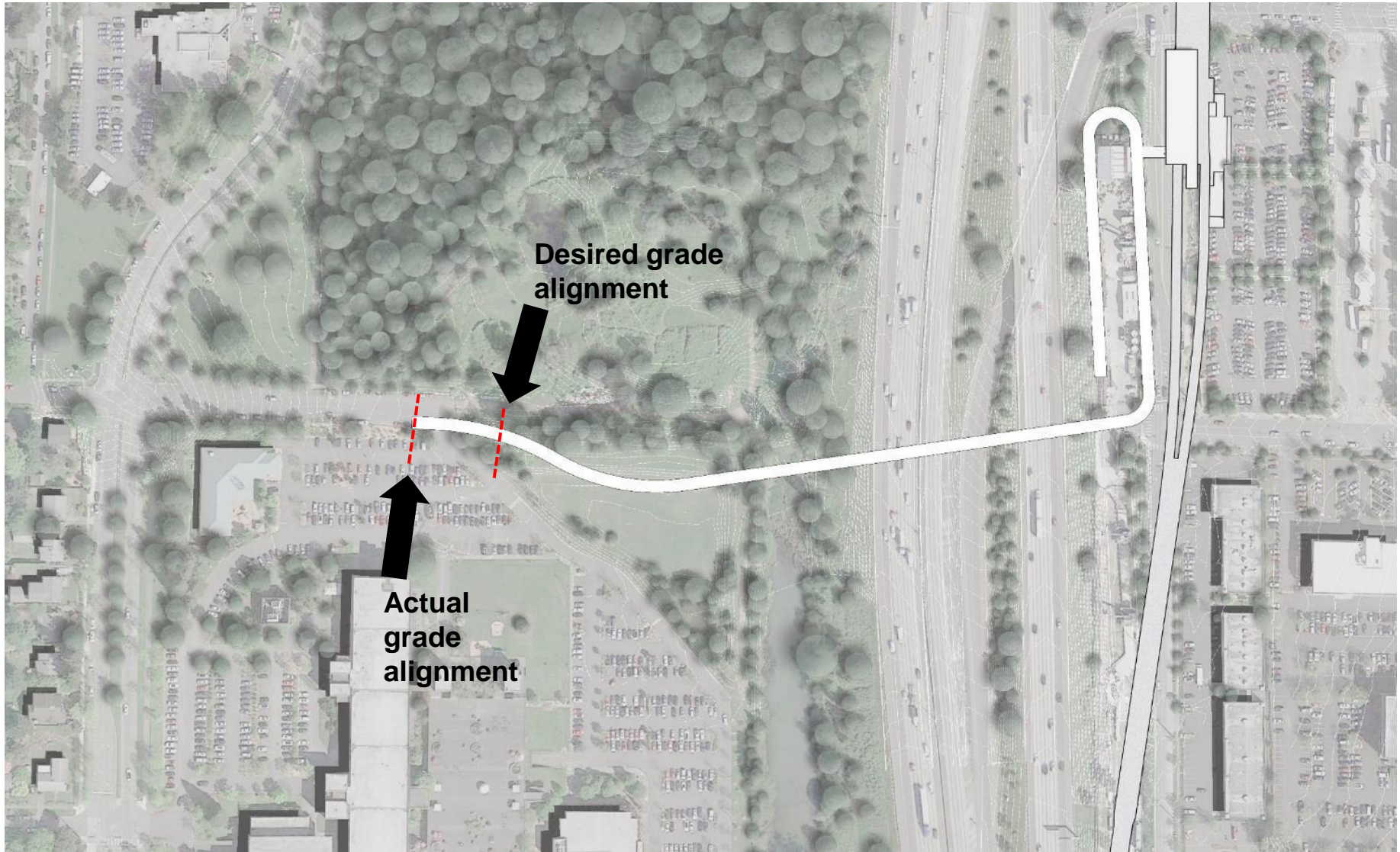
15,000
People per day to be served by Sound Transit Northgate Station upon opening.

1,750
Housing units expected by 2024.

15,000
Northgate area job opportunities by 2024.





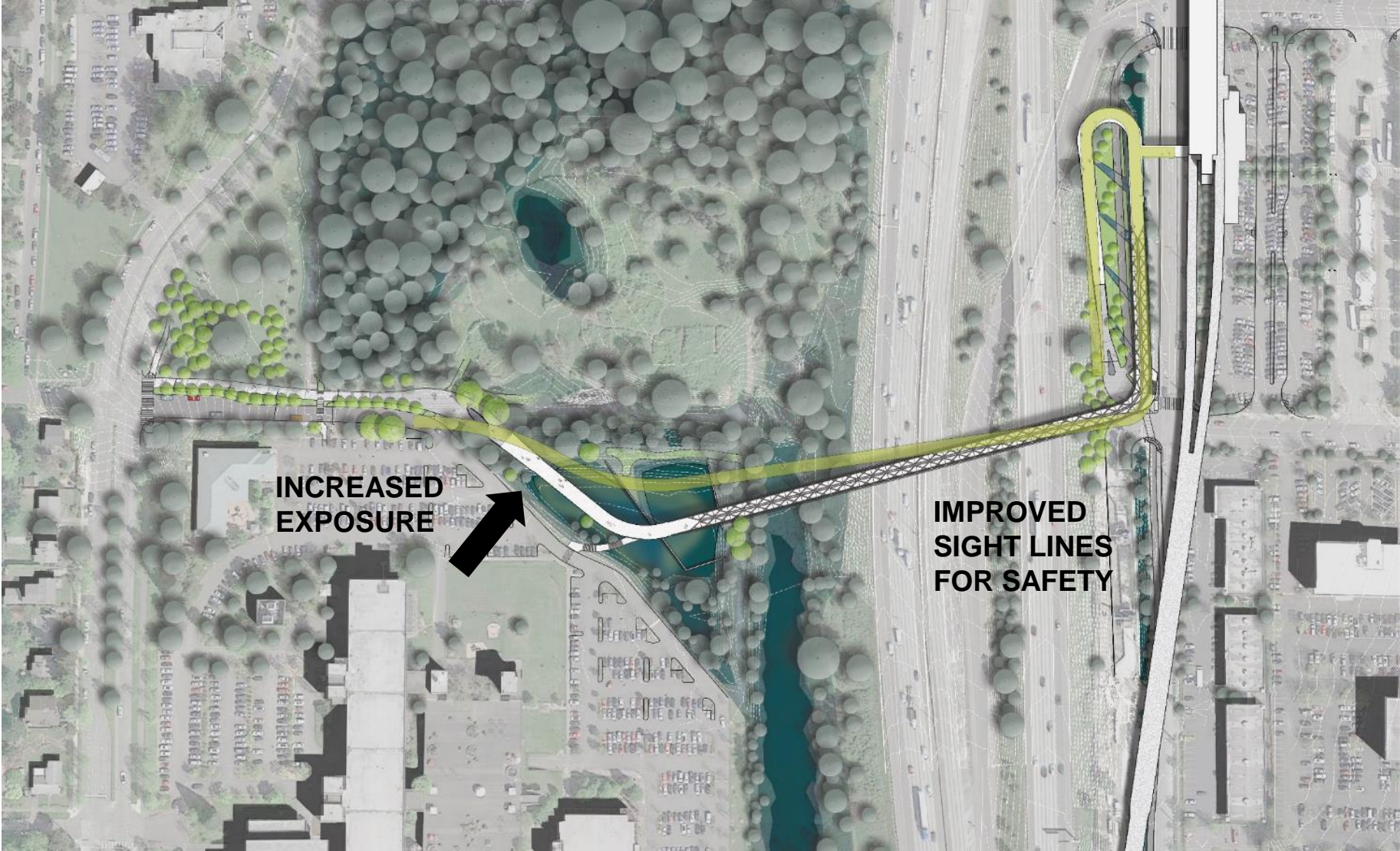


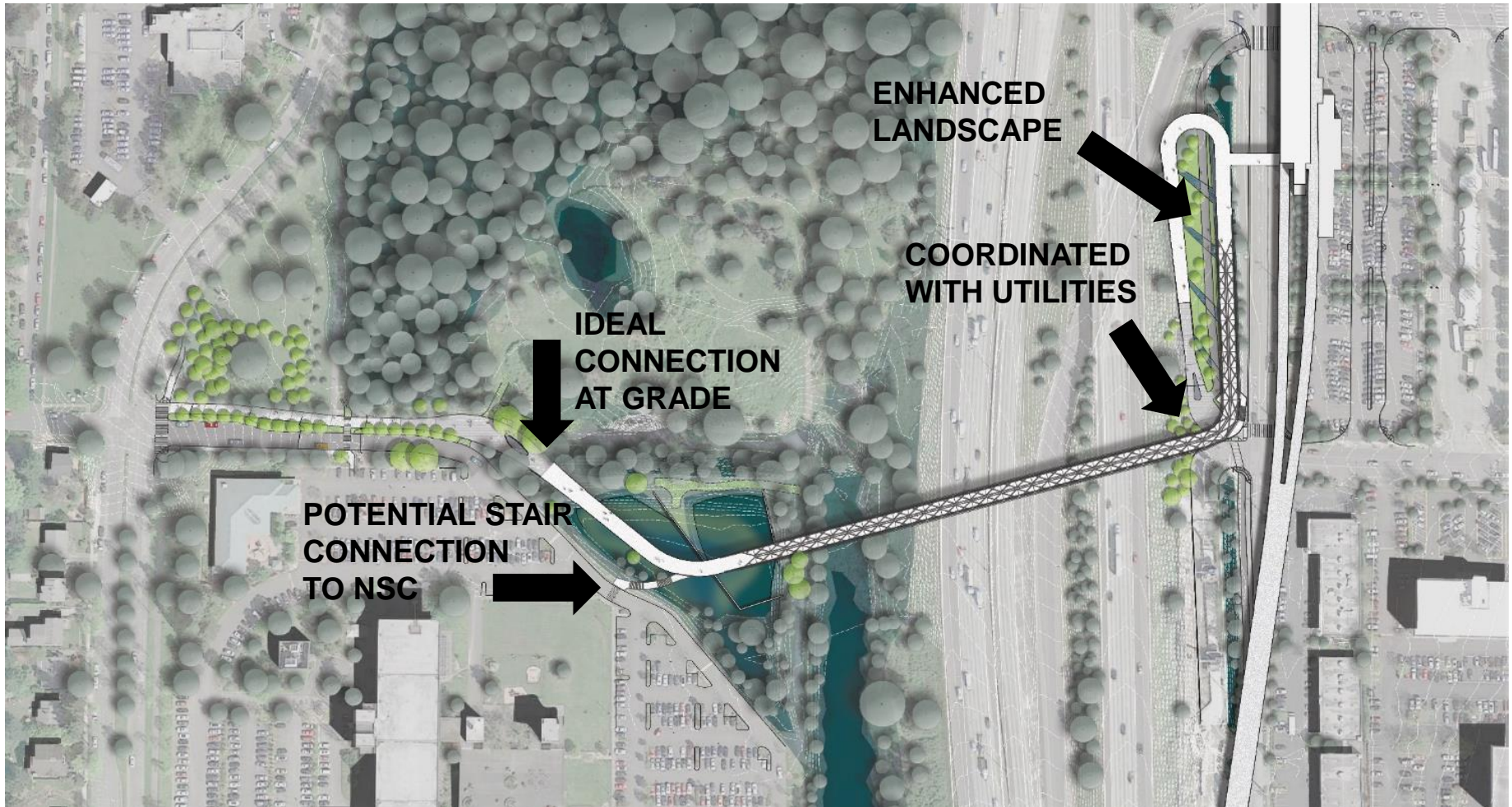


**CONCEPT PHASE:
EXCLUDE PARK-AND-RIDE LOT**

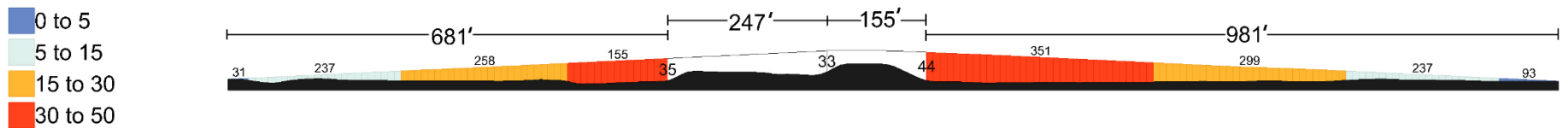


**DESIGN PHASE:
INCLUDE PARK-AND-RIDE LOT**





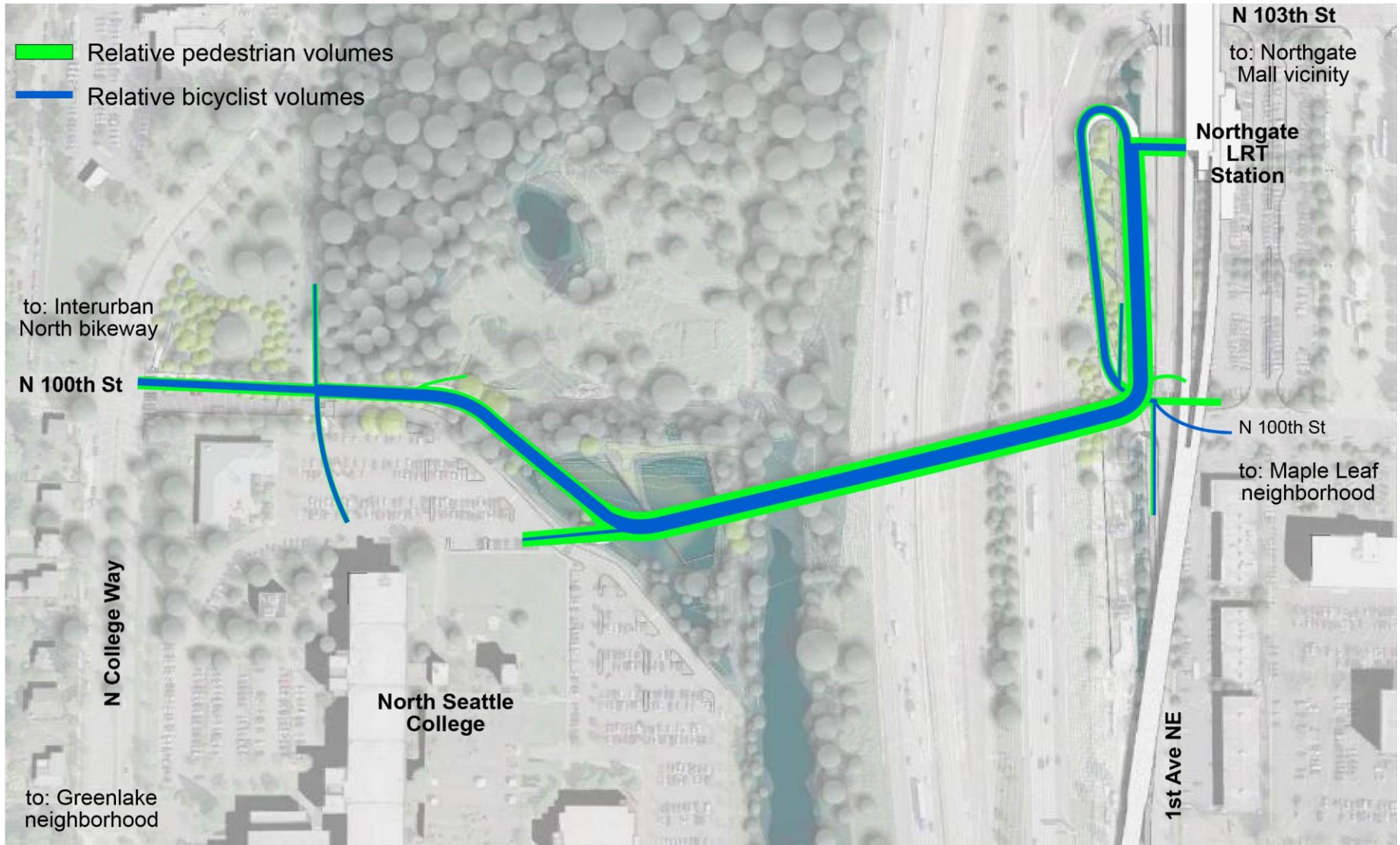
FEET ABOVE GRADE



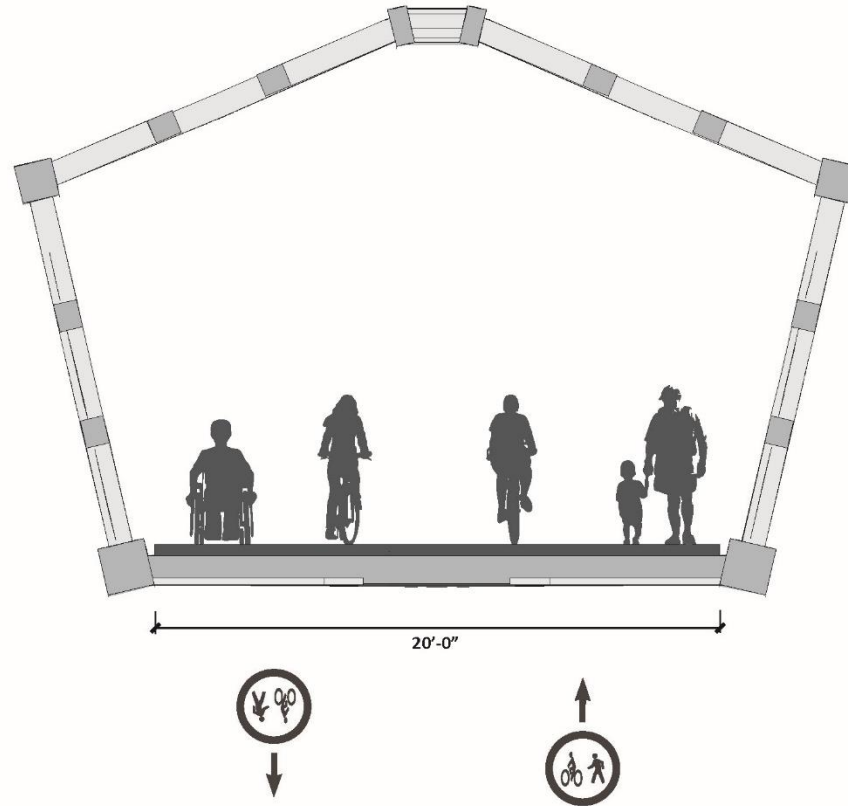
PROJECT OVERVIEW | Bridge Access



PROJECT OVERVIEW | Bridge Access



All Users Keep Right

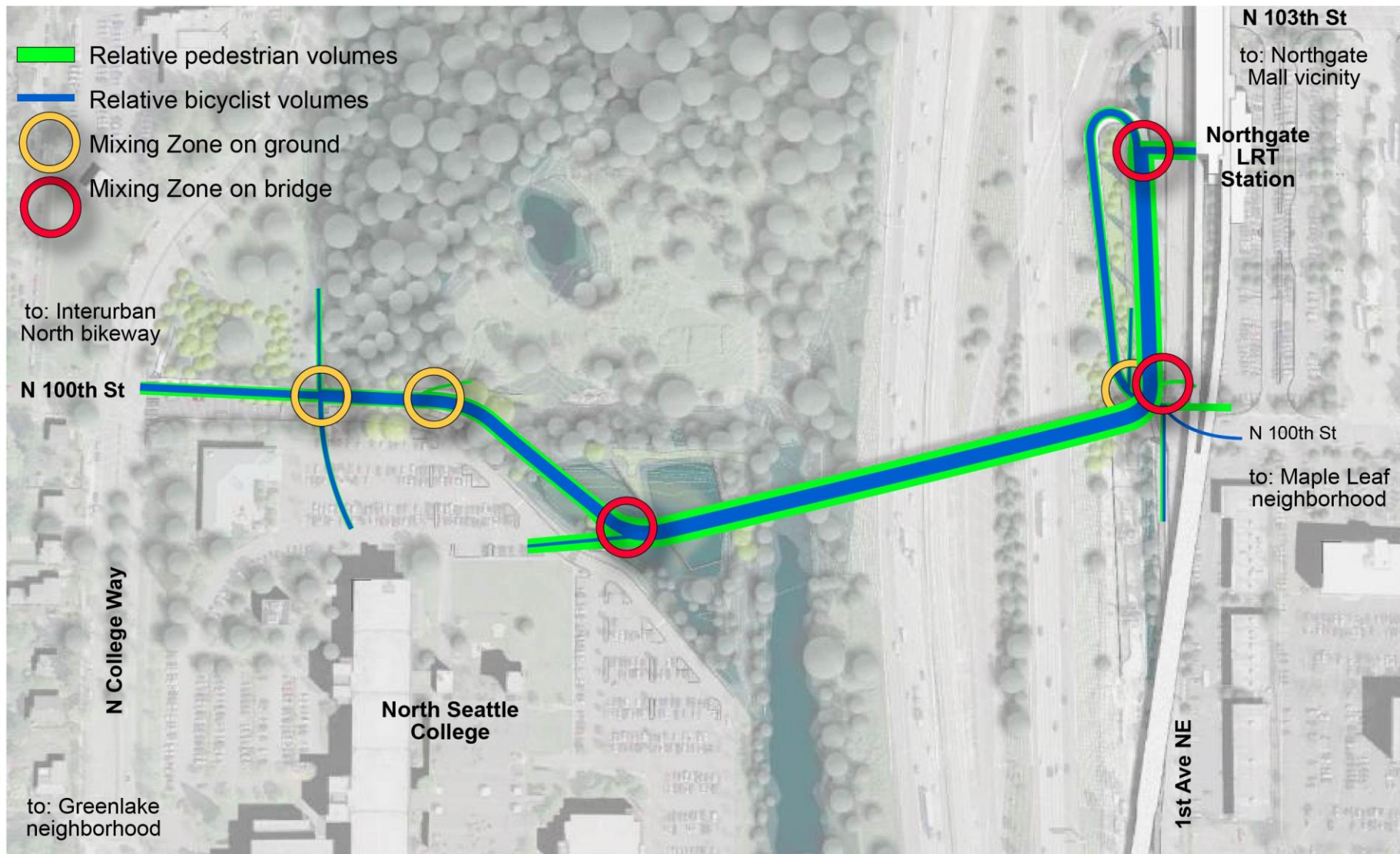


Northgate Bicycle and Pedestrian Bridge

Bridge Section
September 17, 2015




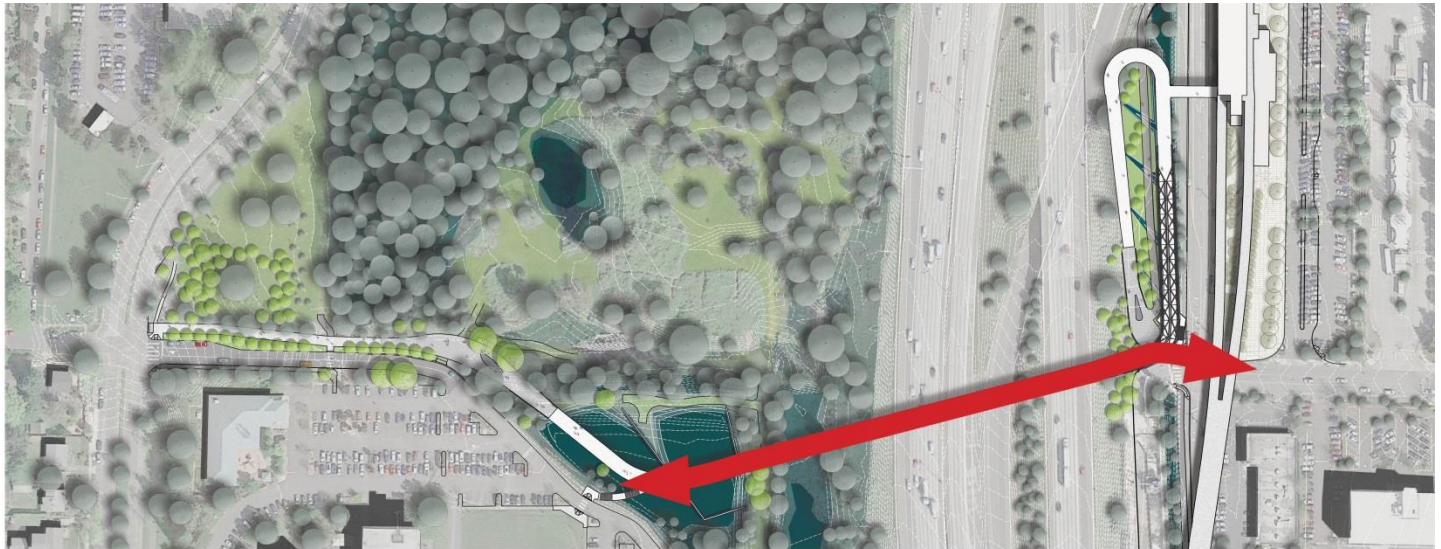
PROJECT OVERVIEW | Mixing Zones



DISTANCE: 833 FT

 WALK: 3.0 min


 RUN: 1.5 min




DISTANCE: 2,584 FT

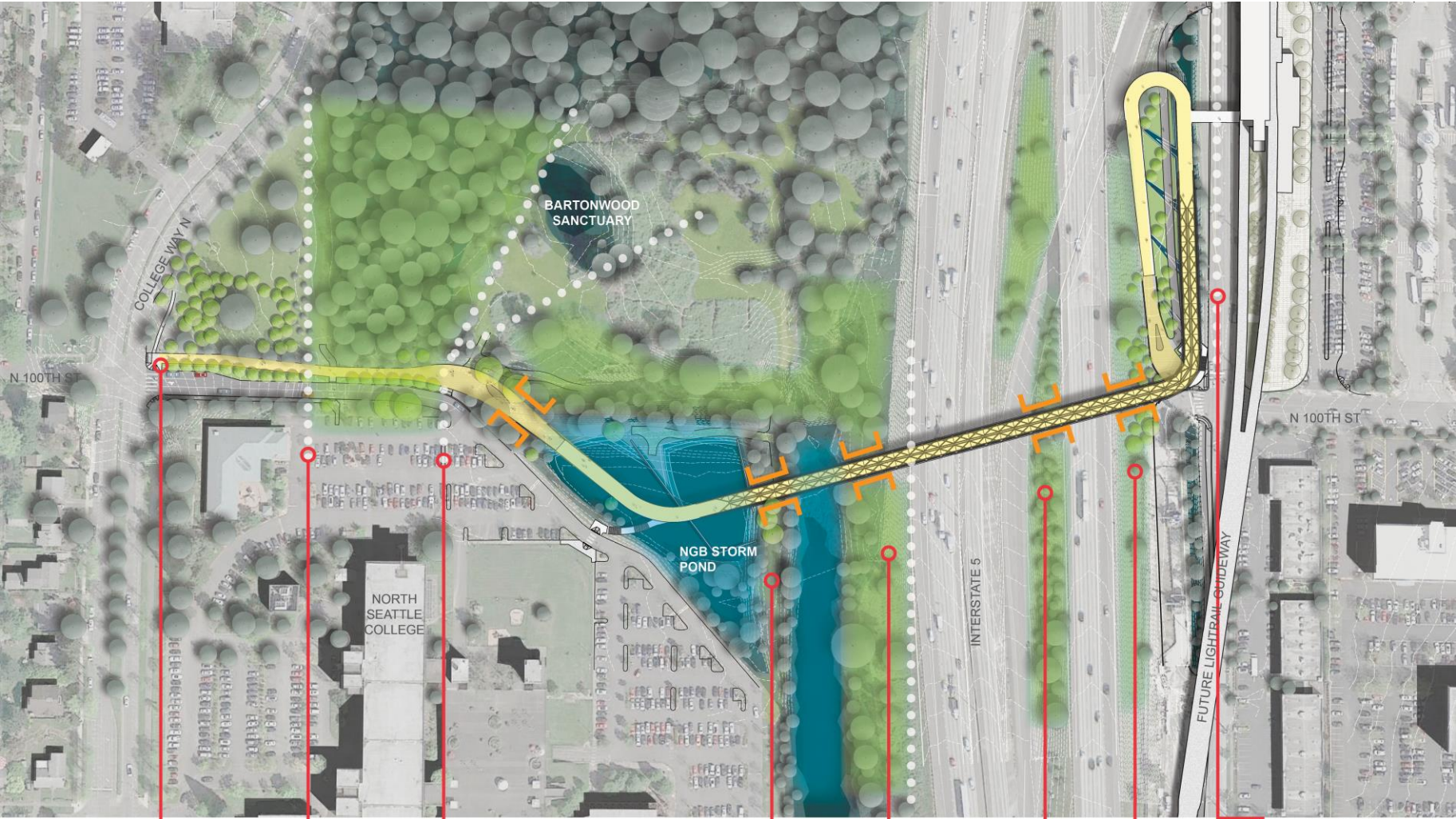
 WALK: 10.0 min

 RUN: 5.0 min

 WHEELCHAIR: 15 min

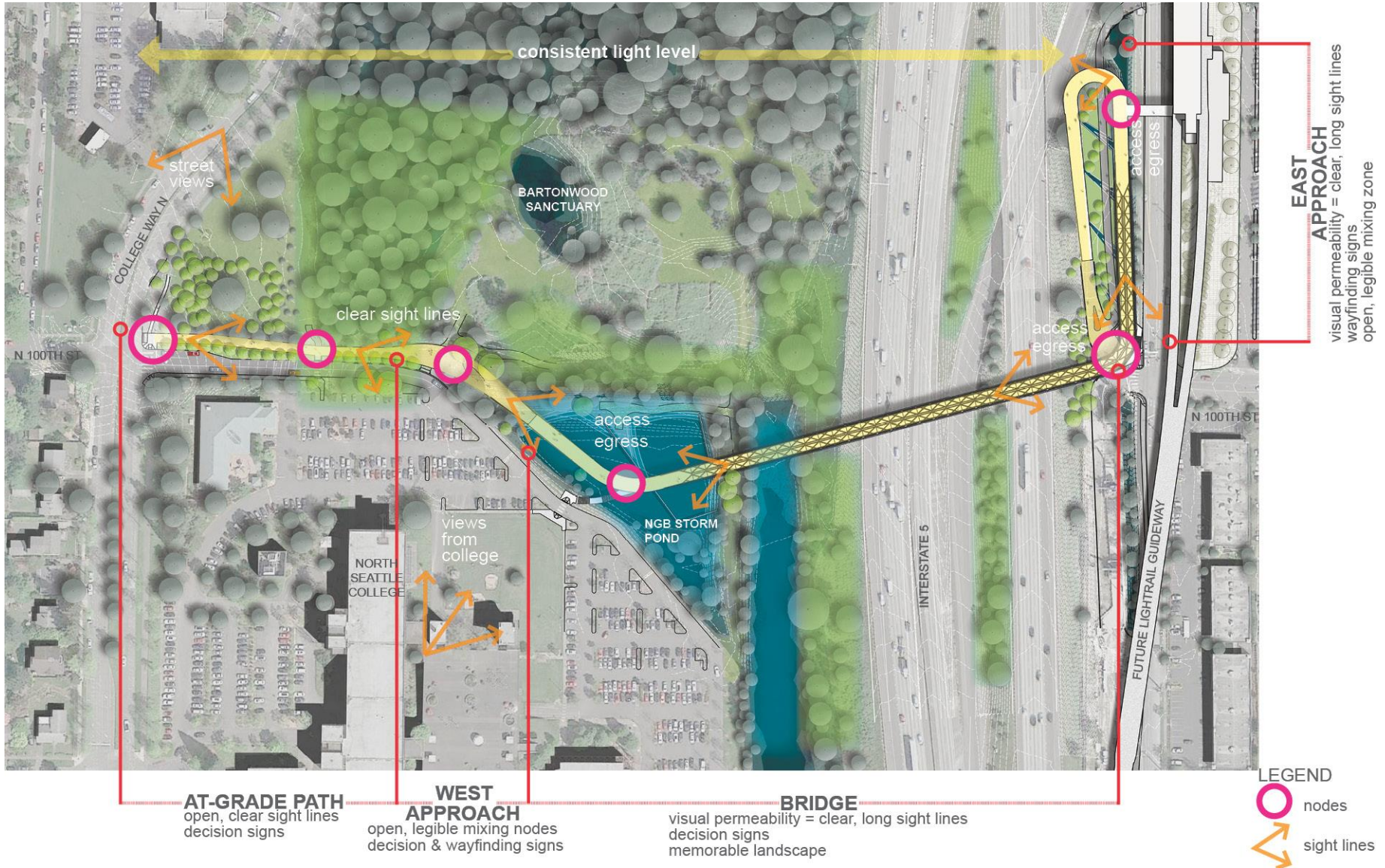
 SKATE/BIKE: 3.5 min

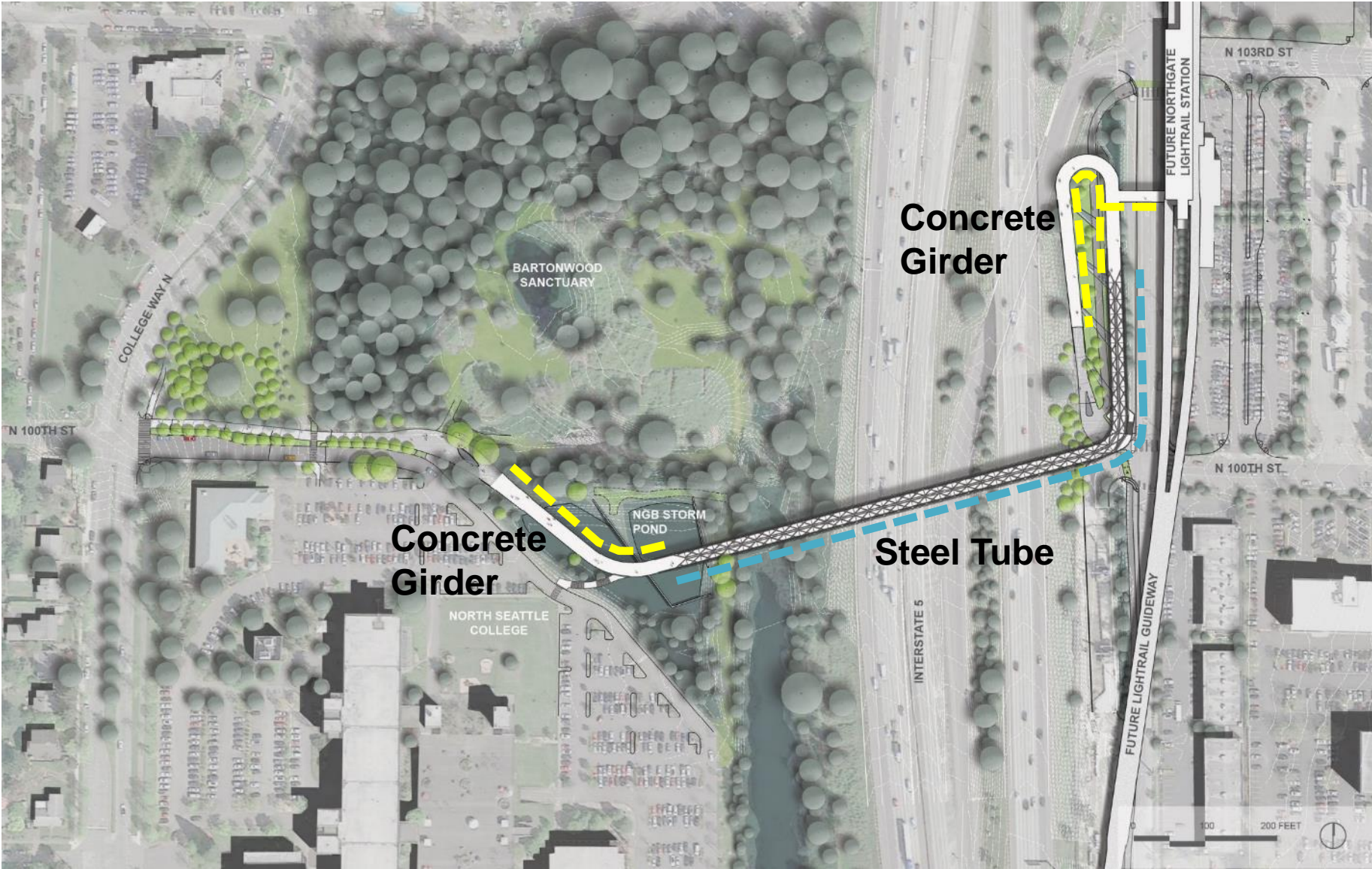




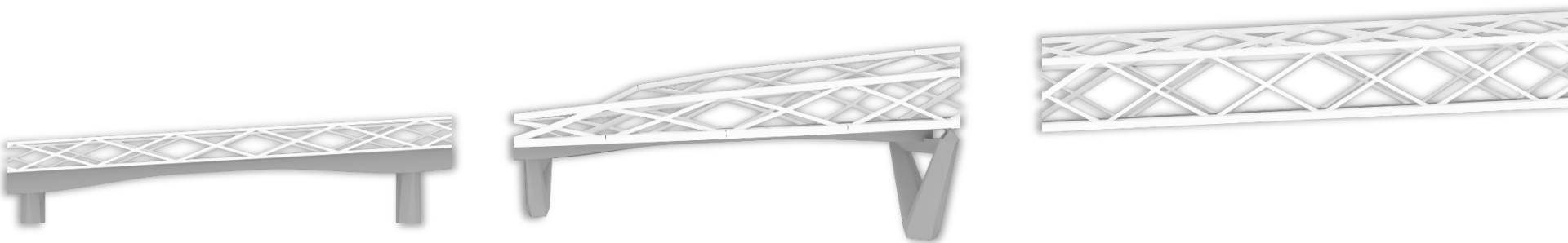
CORRIDOR	TRANSITION	BASIN	WATER	ELEVATED	HIGH POINT	ROTATION	LEGEND
city neighborhood everyday college	dense forest wet college	relic geologic ephemeral wild	mythic sacred primal	noise primal wild manmade		complex threaded compression	 gateway / threshold  threshold

PROJECT OVERVIEW | Experience









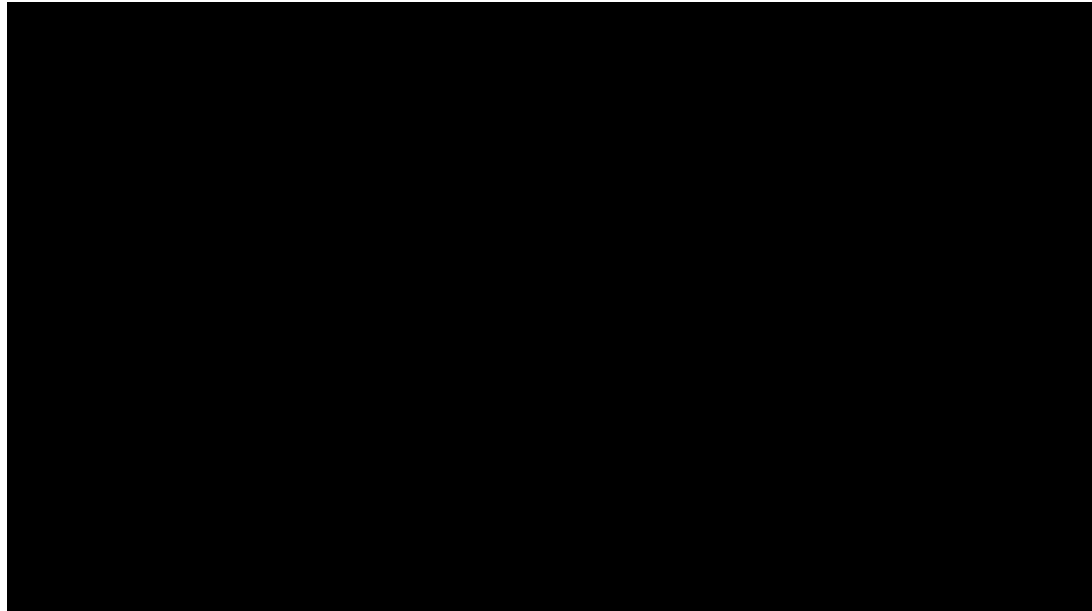
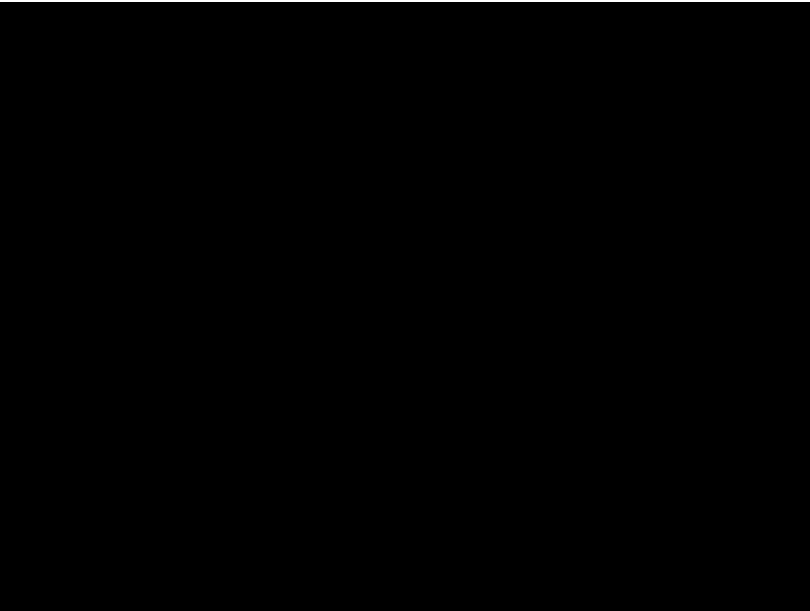
Concrete Girder



Transitional Truss



Structural Steel Tube



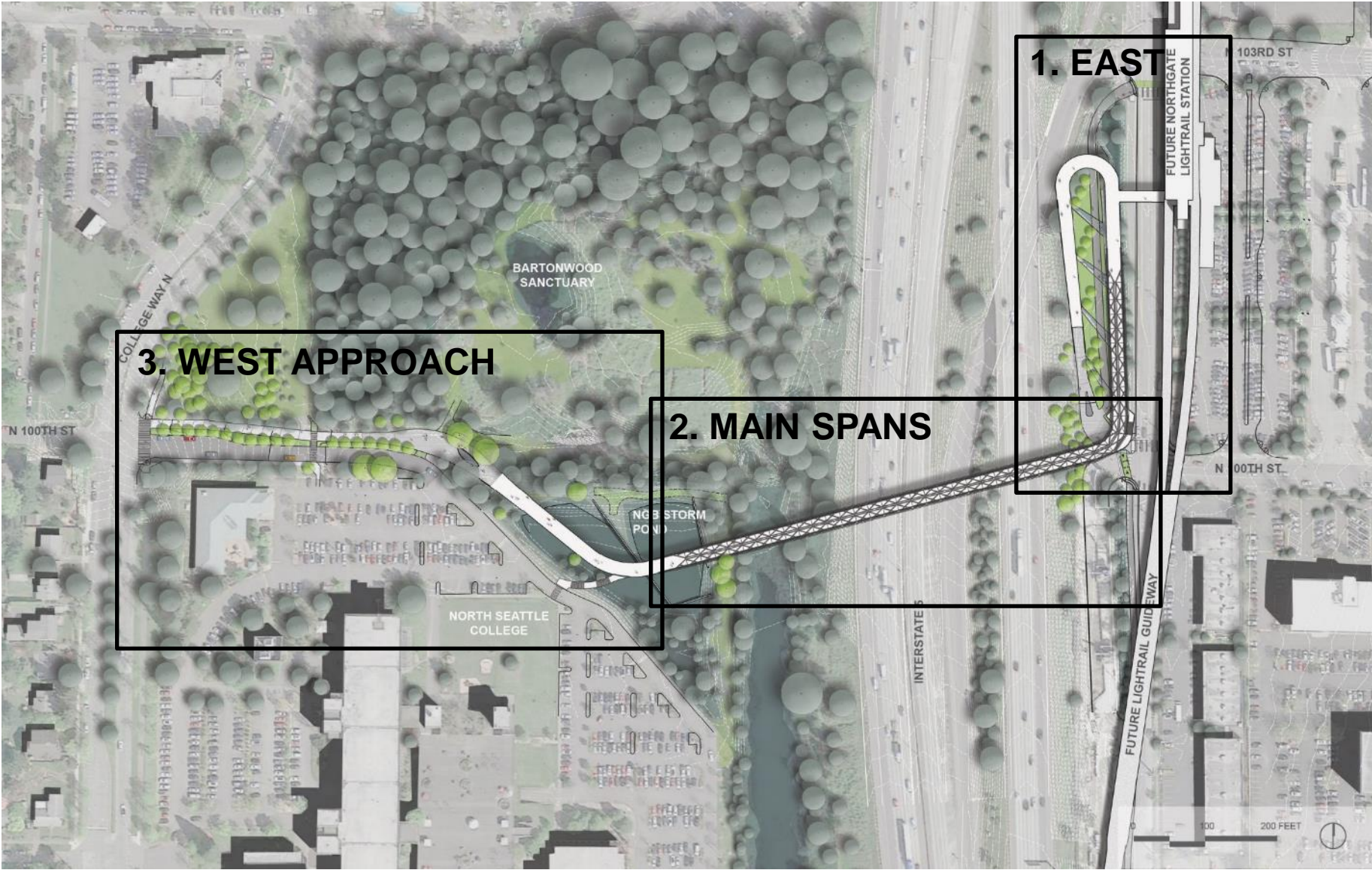
WAVE WALL: LIGO, Livingston, LA

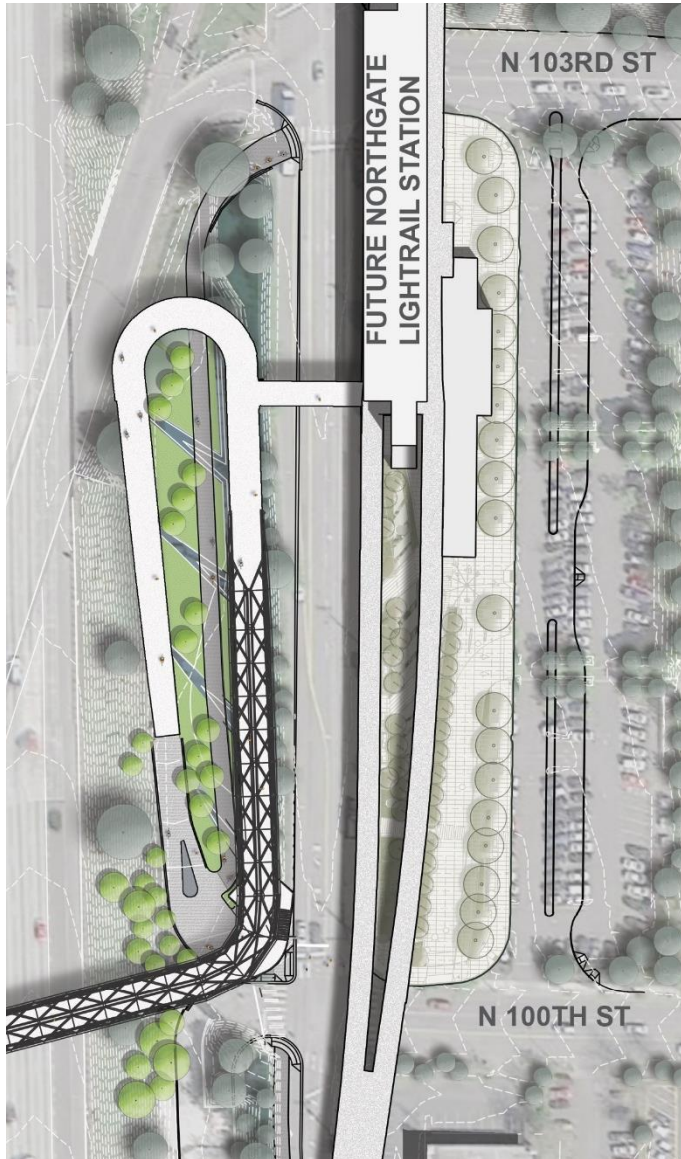
WINDSWEPT: Randall Museum,
San Francisco, CA



UNDERGROUND ESTUARY: Real-time graphing of sub-surface tidal fluctuations.

BRIDGE AND LANDSCAPE DESIGN





1. Context
2. Access
3. Landscape Design
4. Sound Transit Connection
5. Stairs

EAST APPROACH | Vegetation

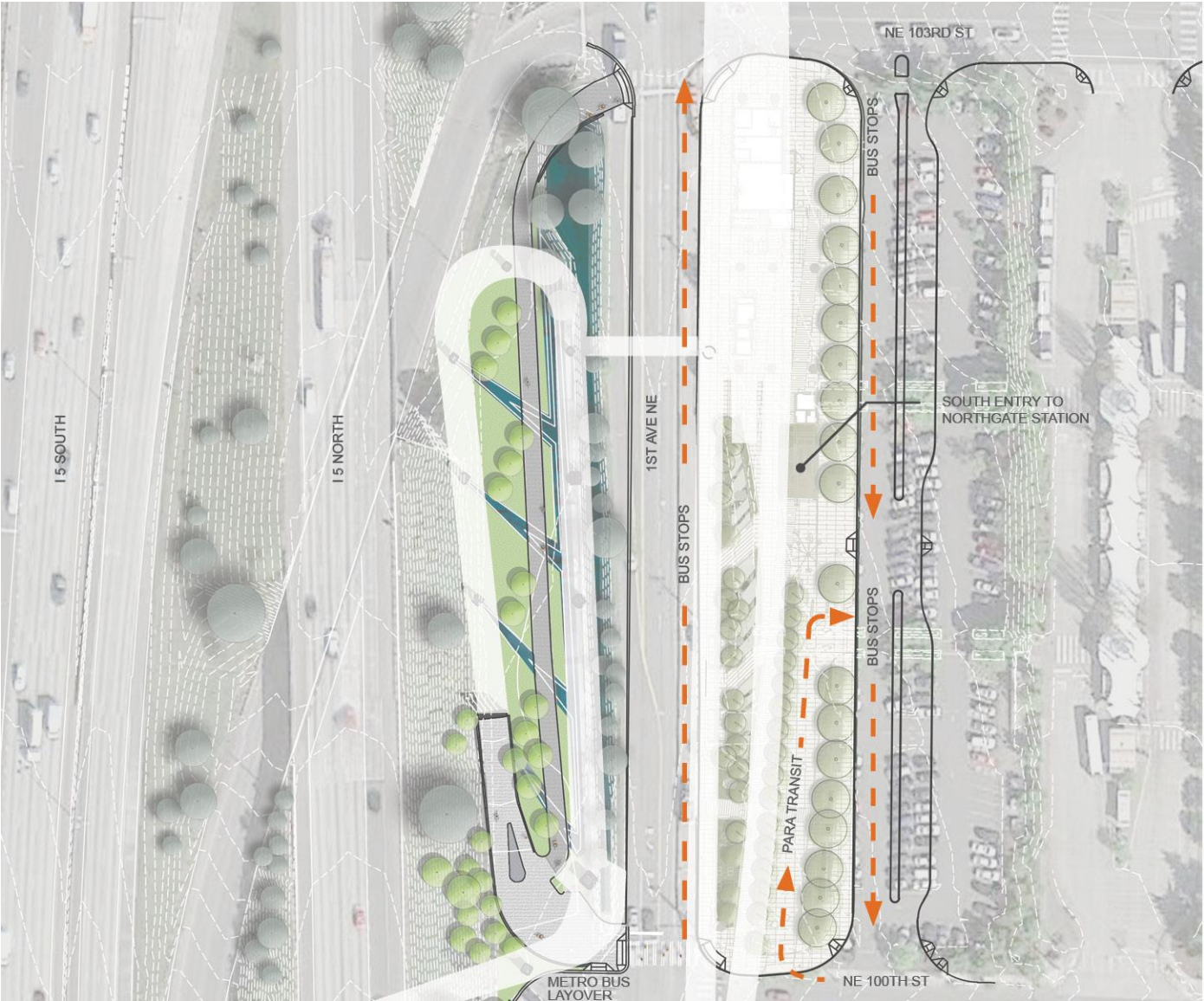


EAST APPROACH | Water + Topography

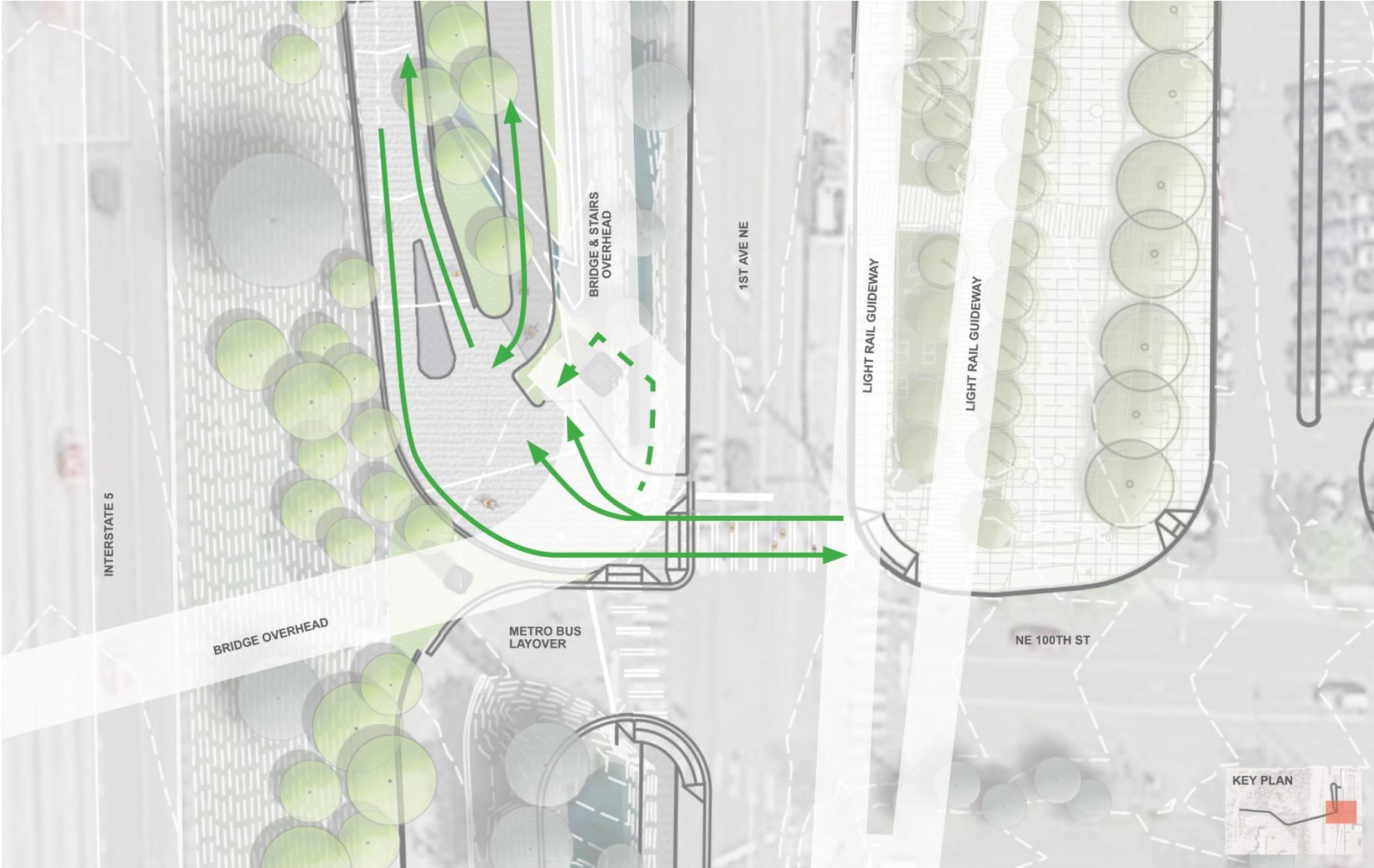


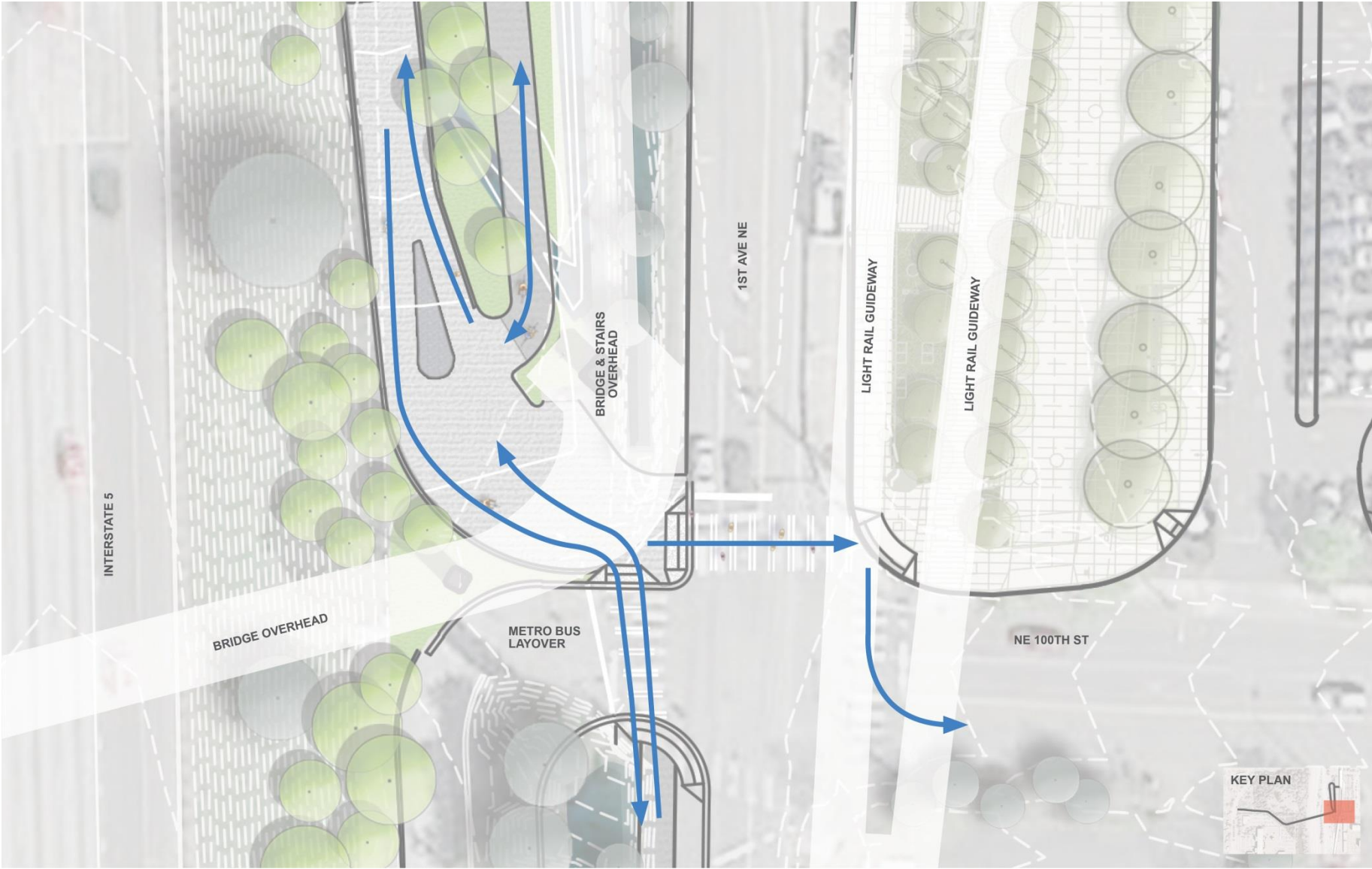
- Existing Water Flow
- Northgate Bridge Water

EAST APPROACH | Sound Transit Northgate Station

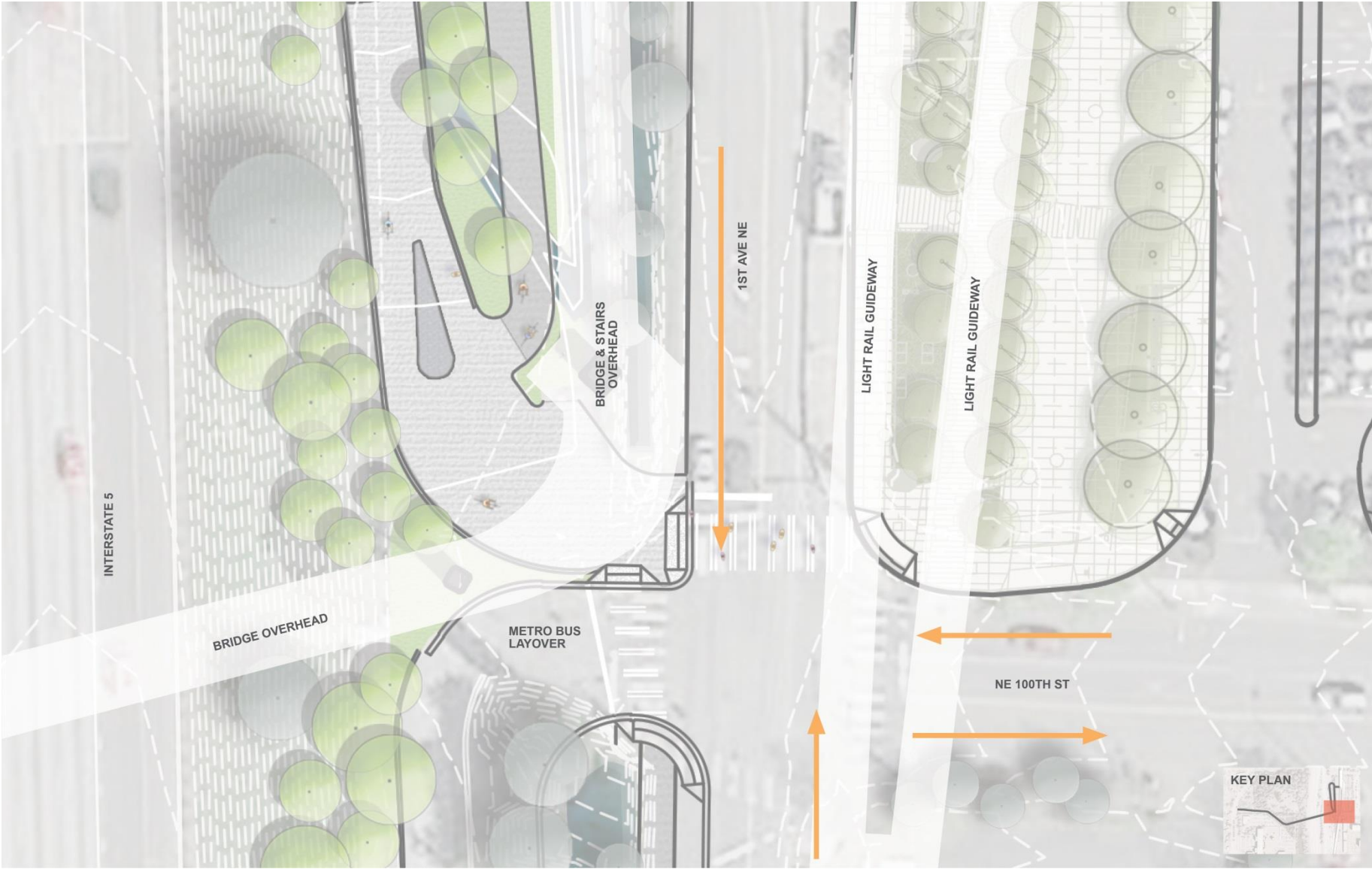


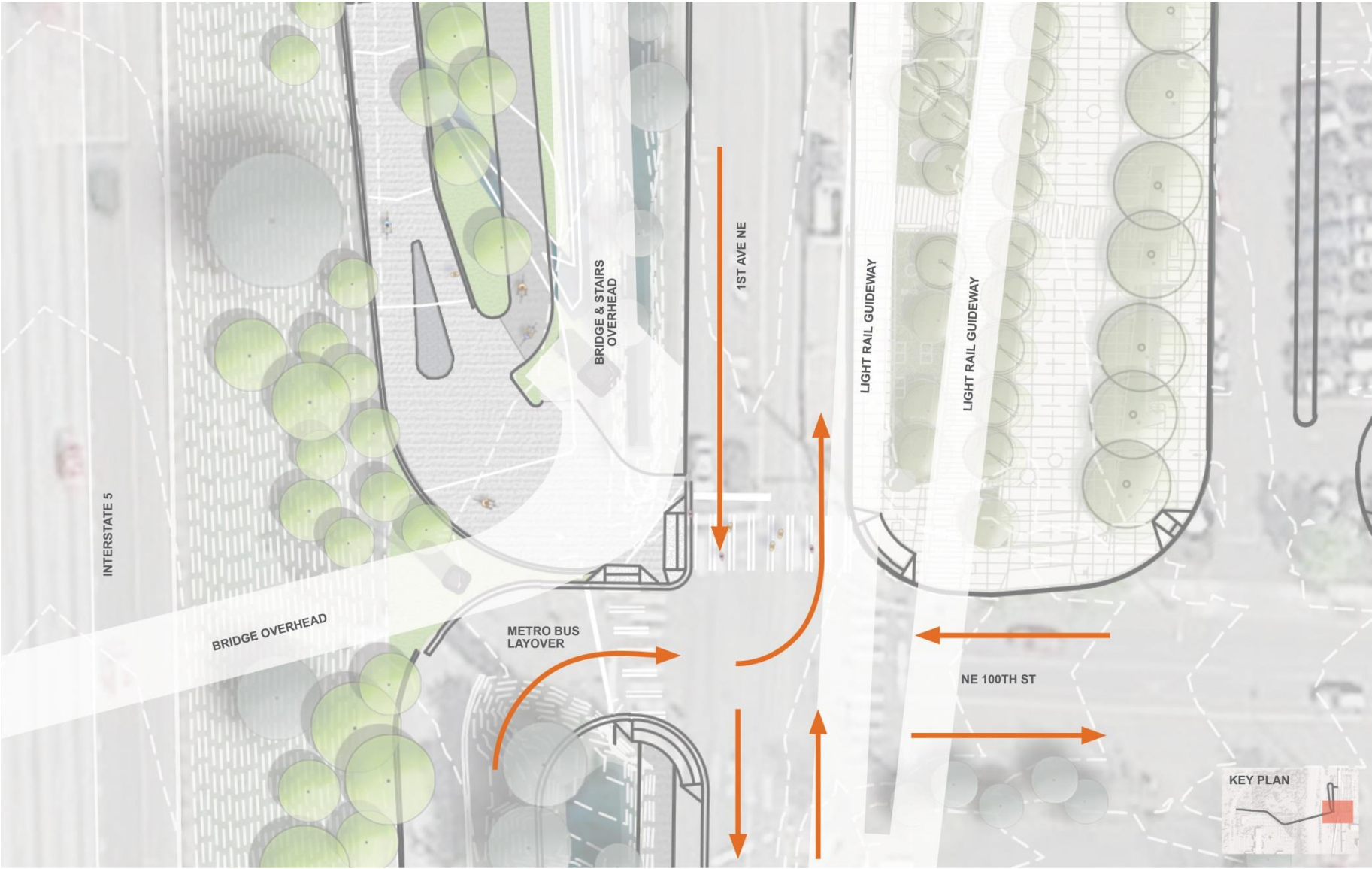




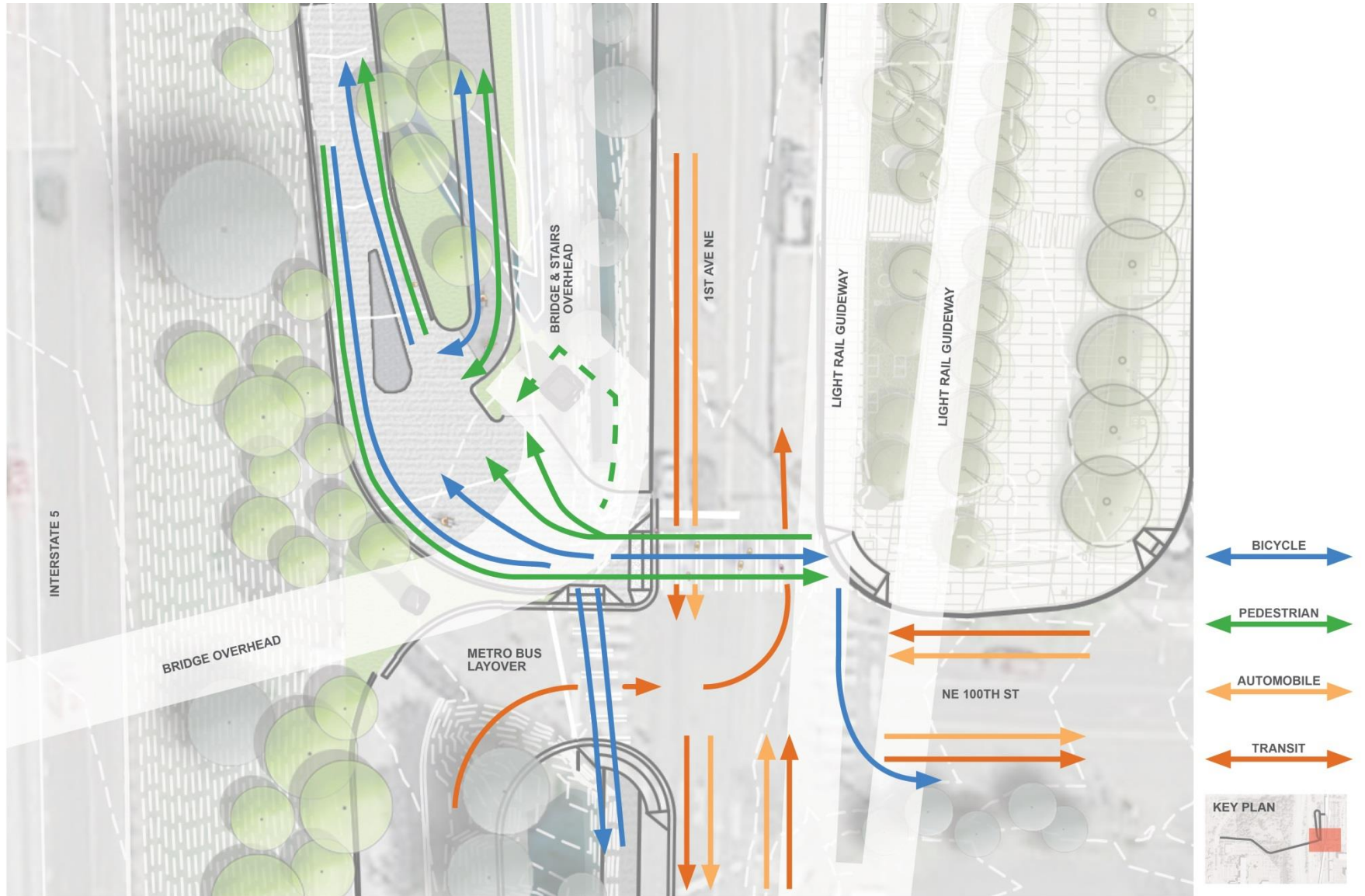


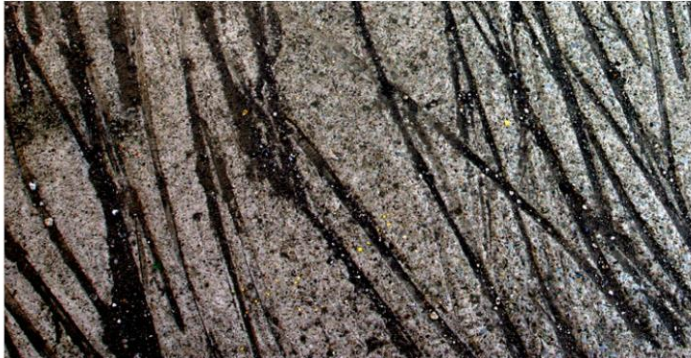
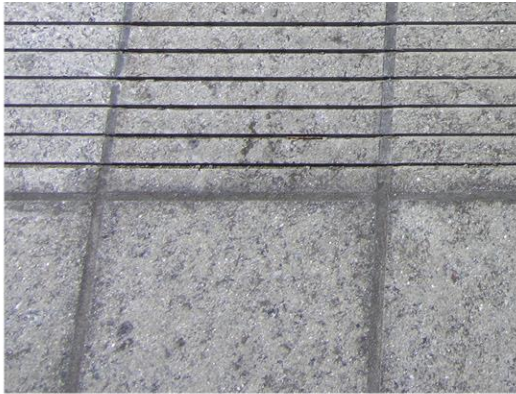
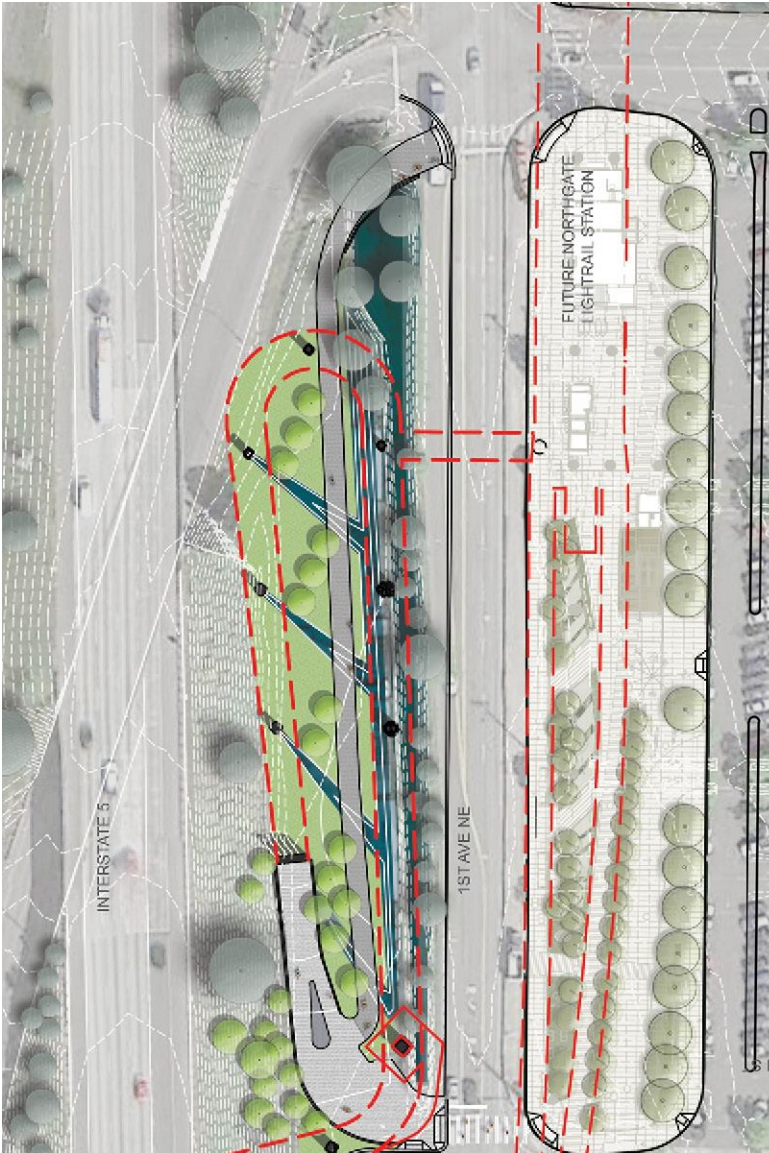
EAST APPROACH | Access: Adjacent Automobile Movement 46

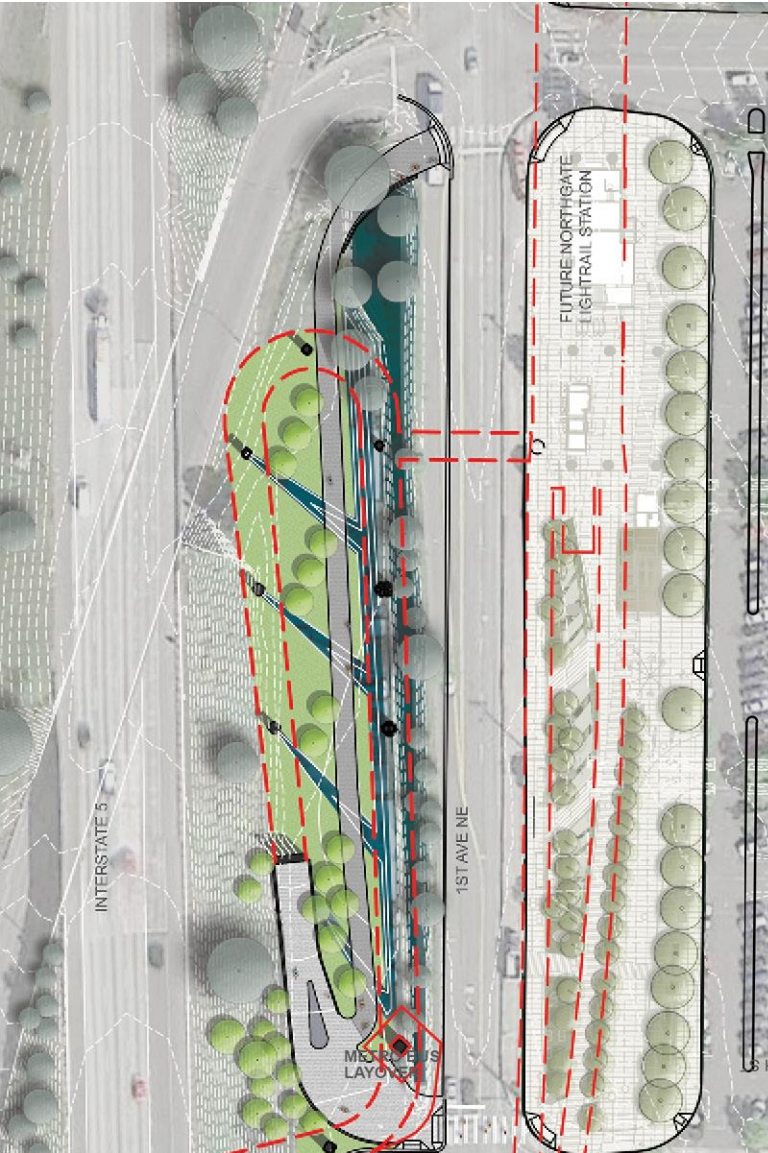


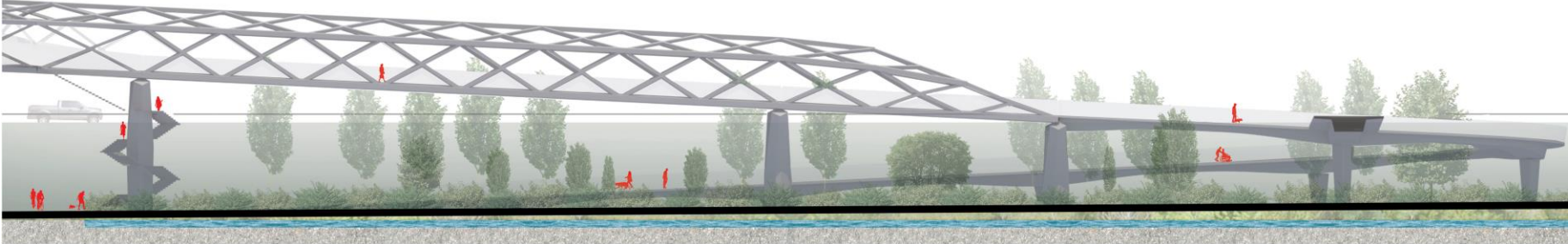


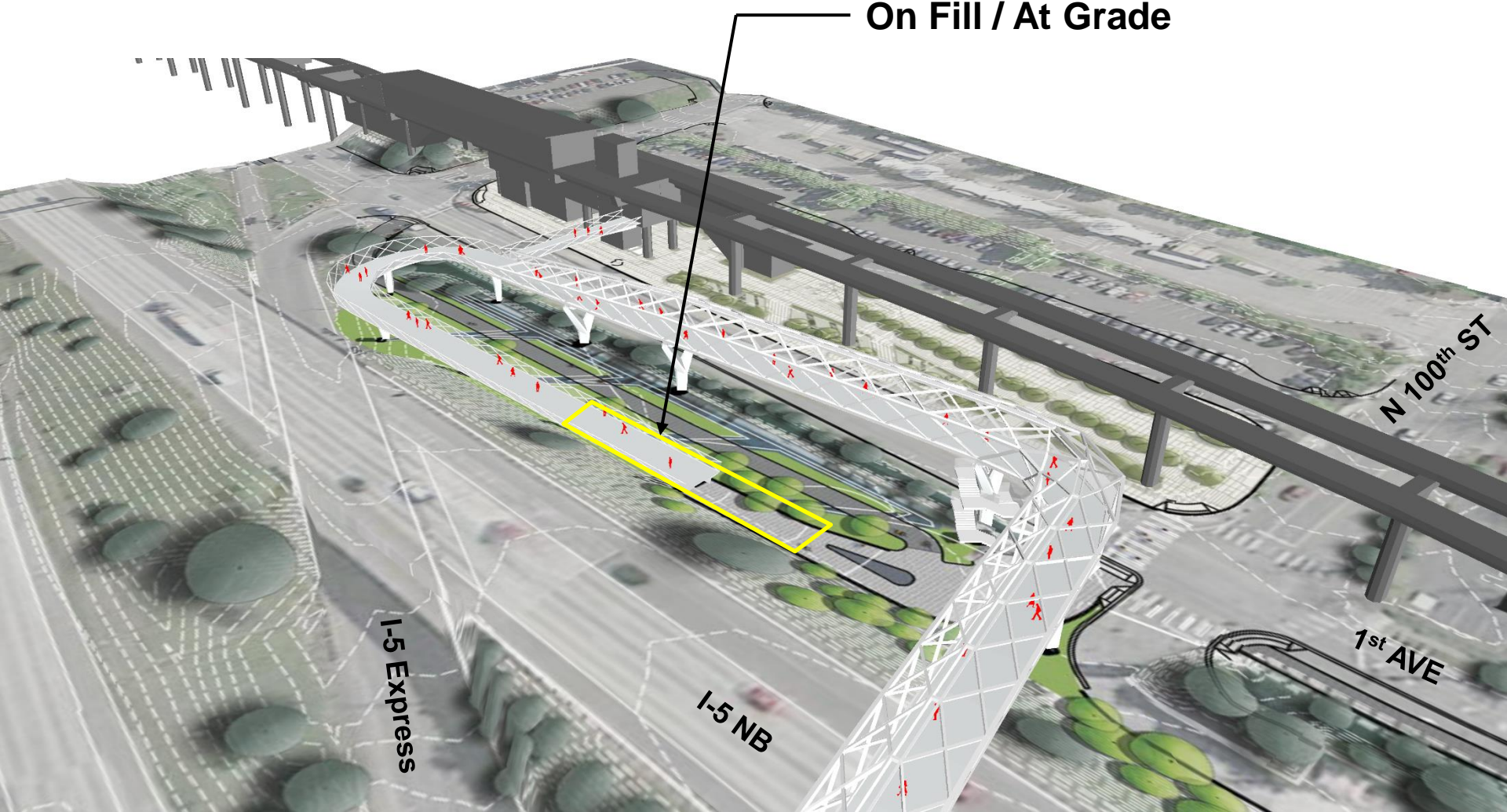
EAST APPROACH | Access: All Users

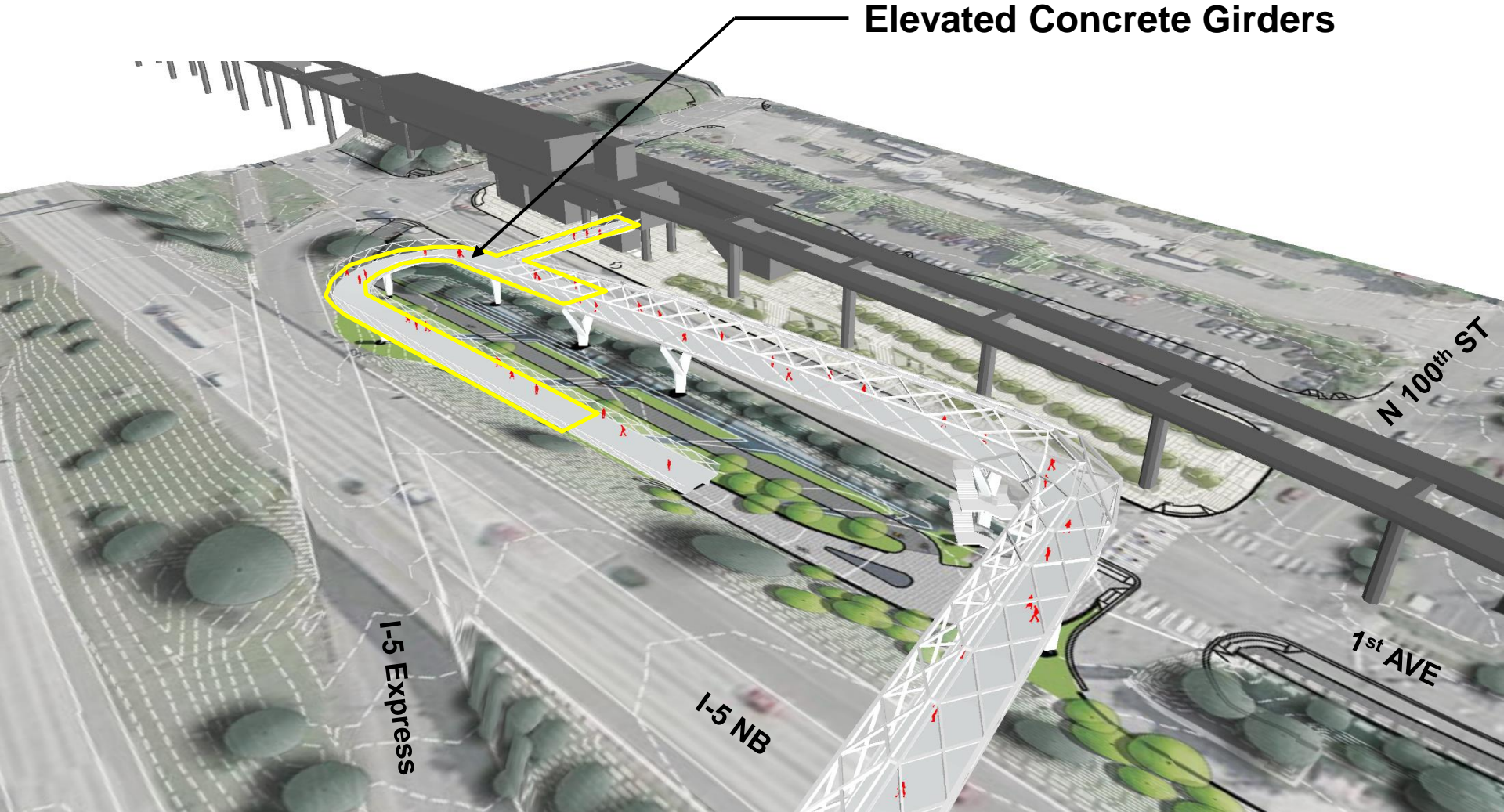


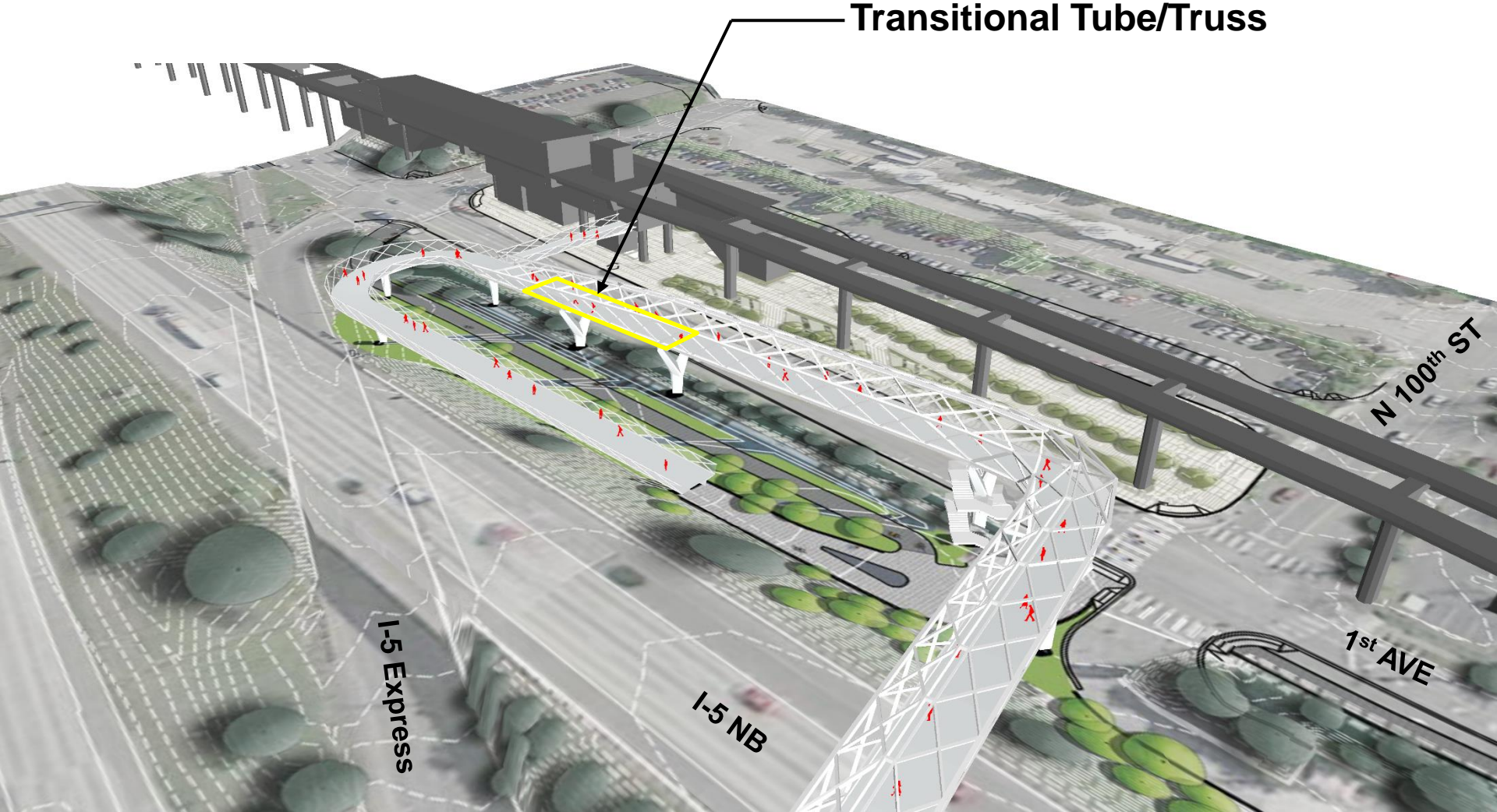


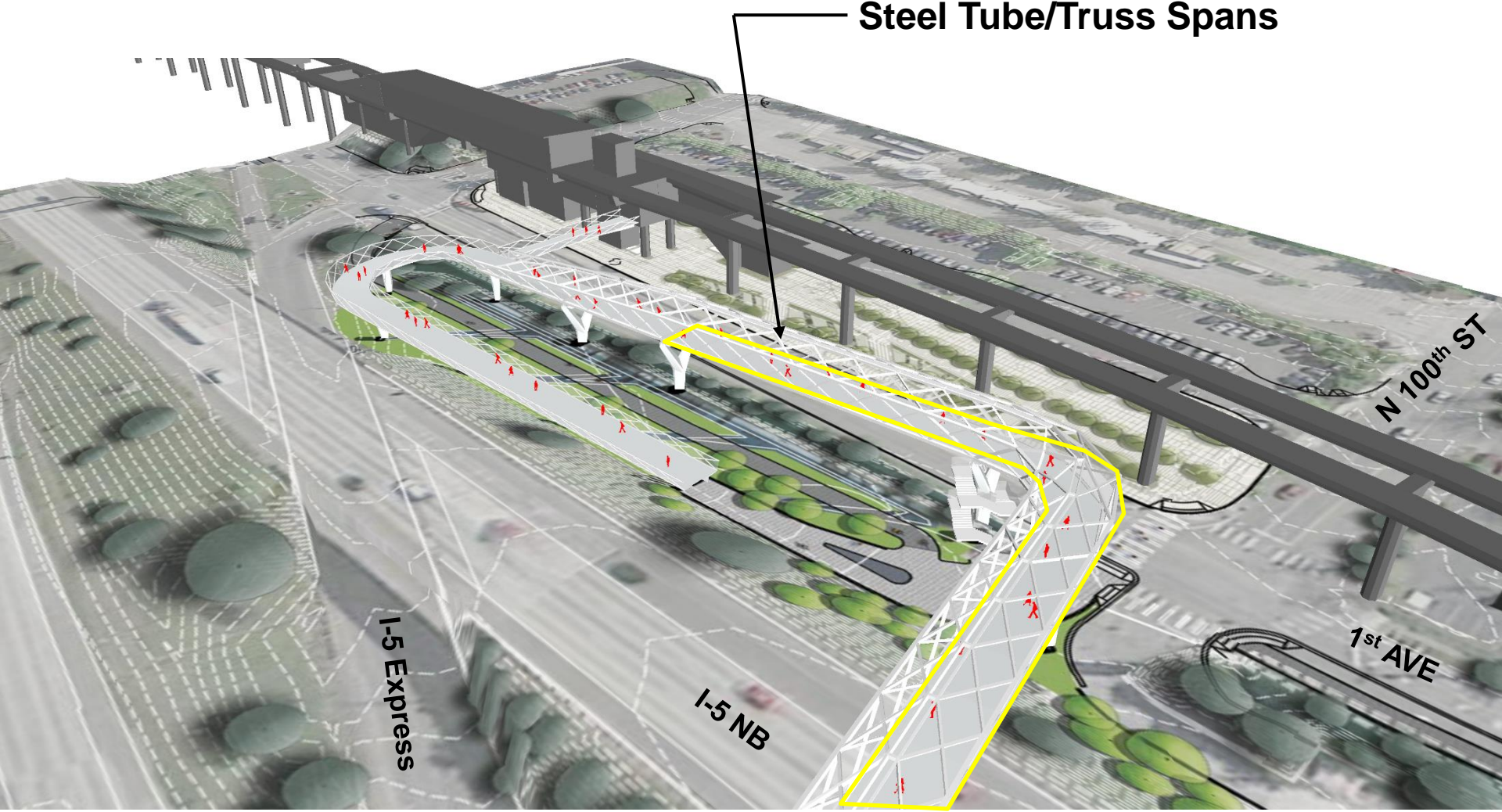


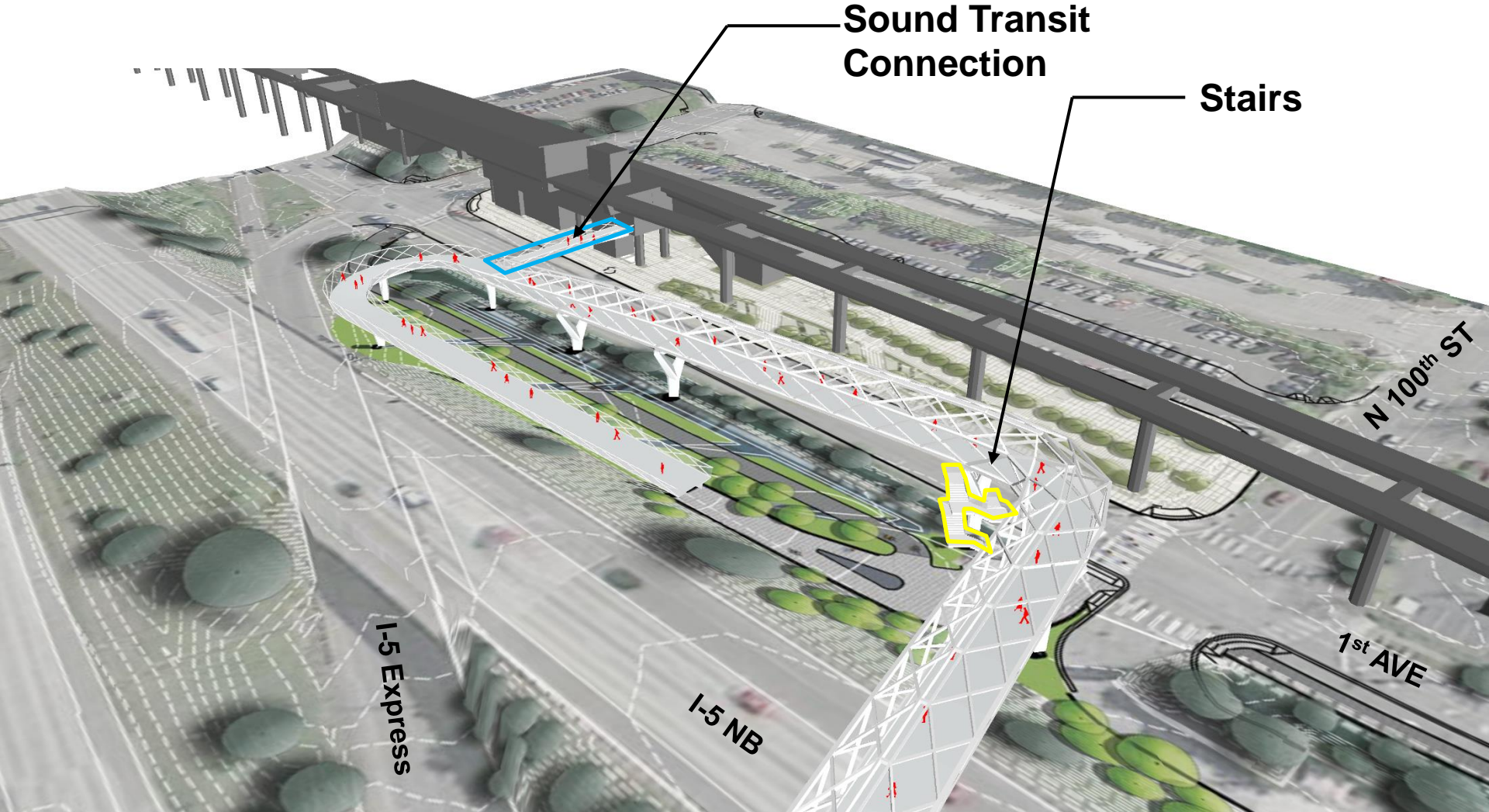




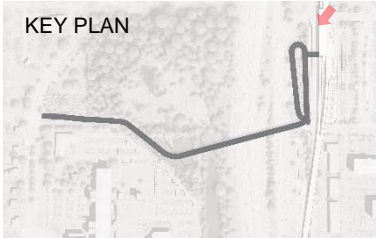


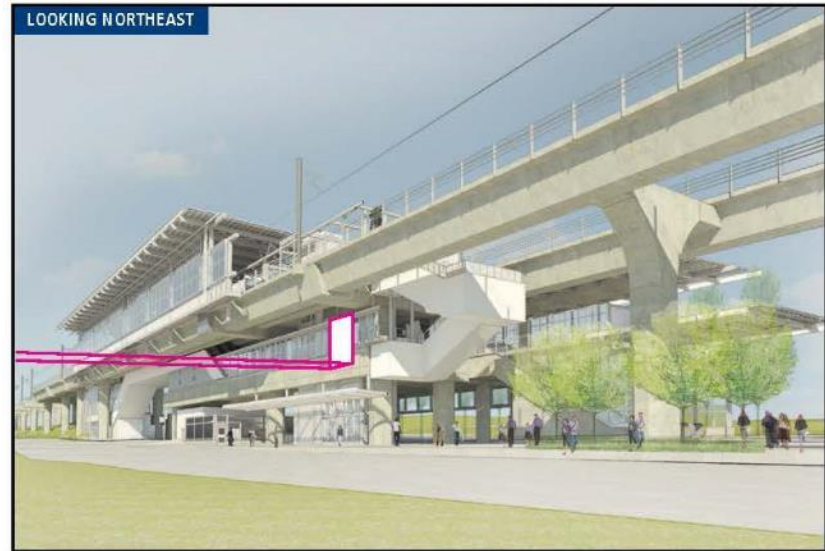






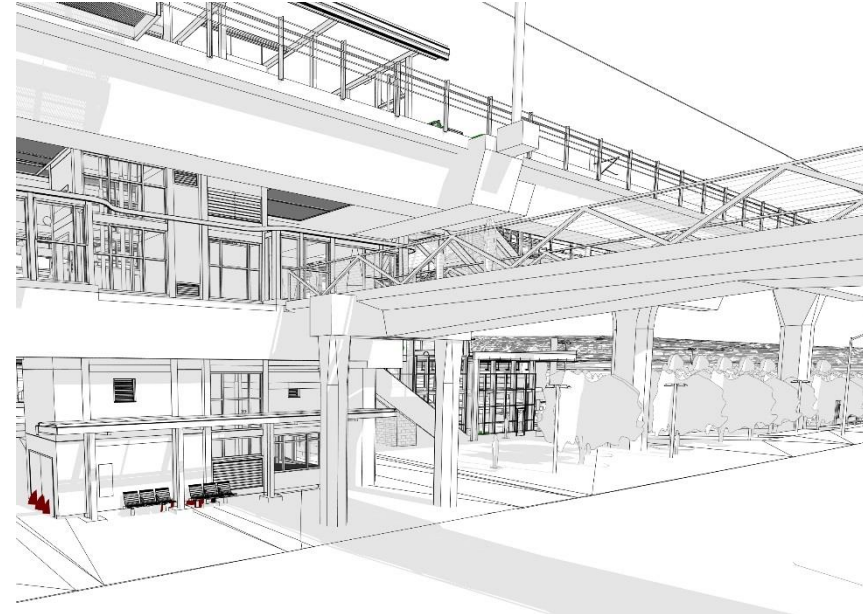
EAST APPROACH | Aerial View from North



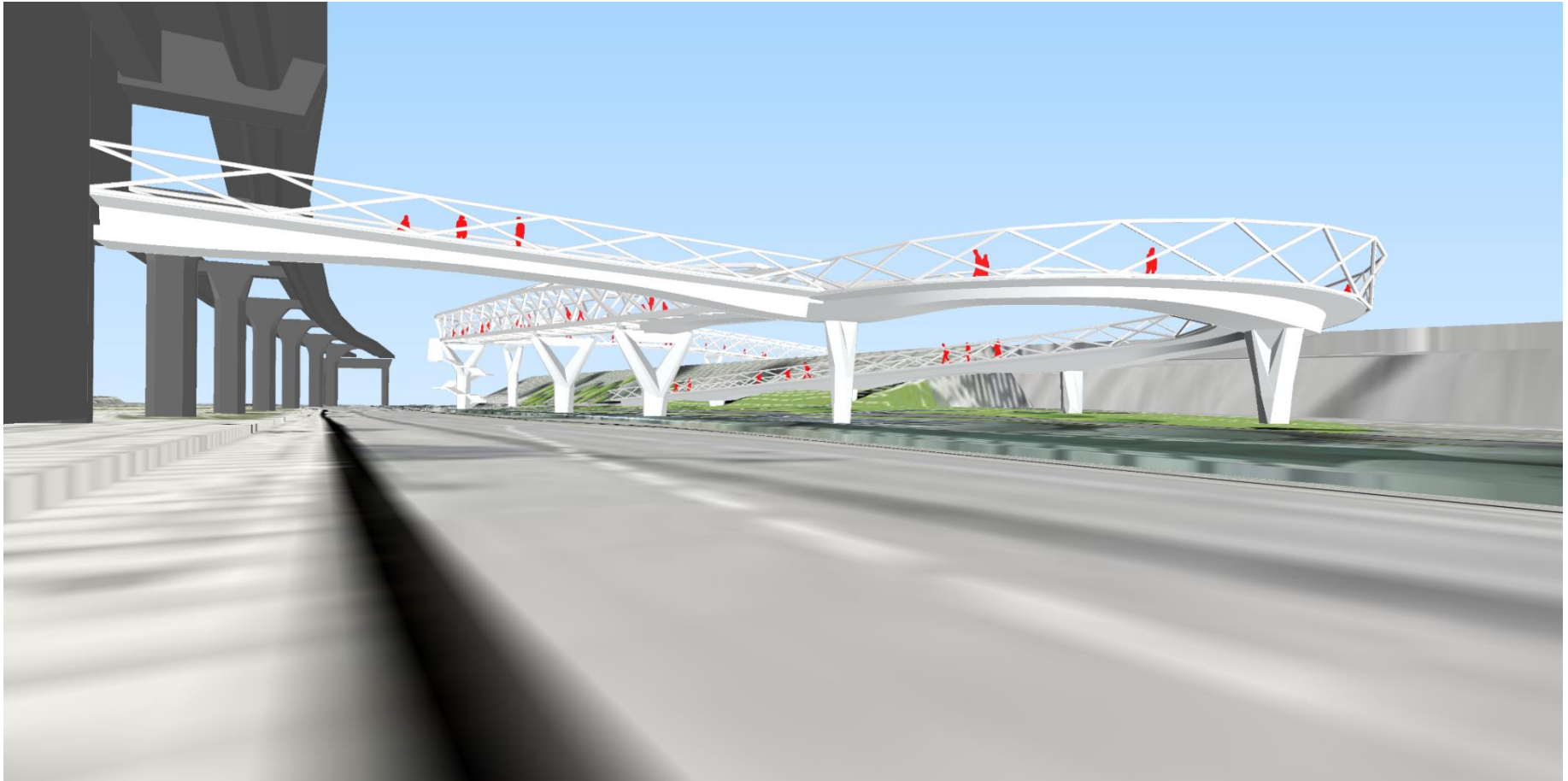




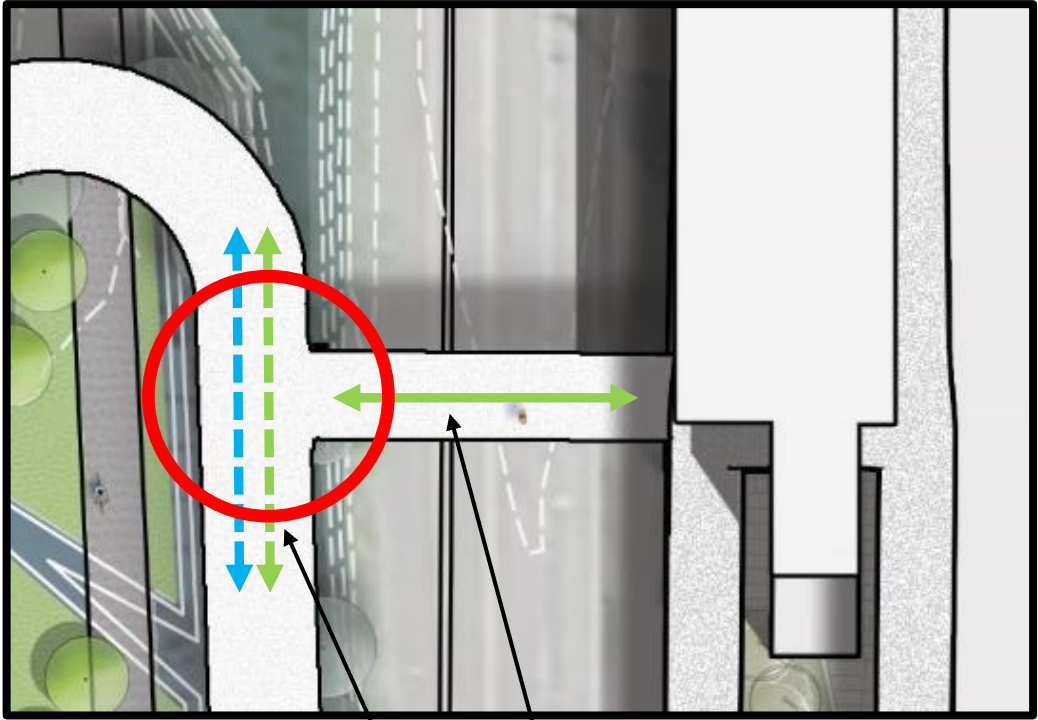
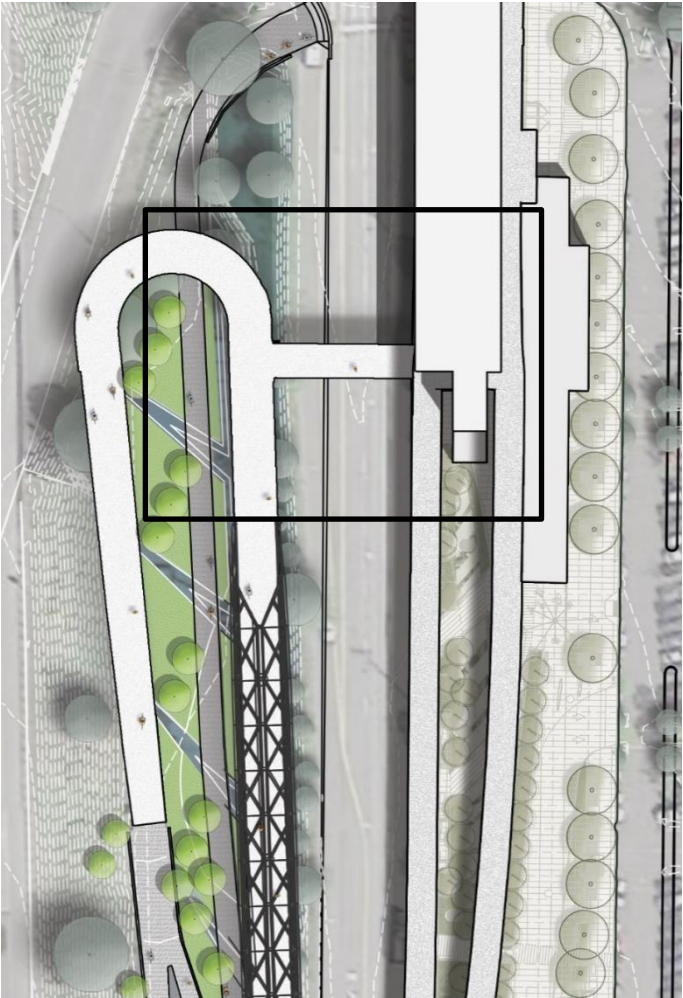
View from Station Mezzanine



View East from 1st Ave

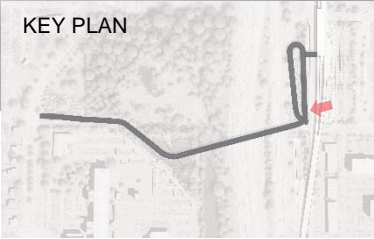
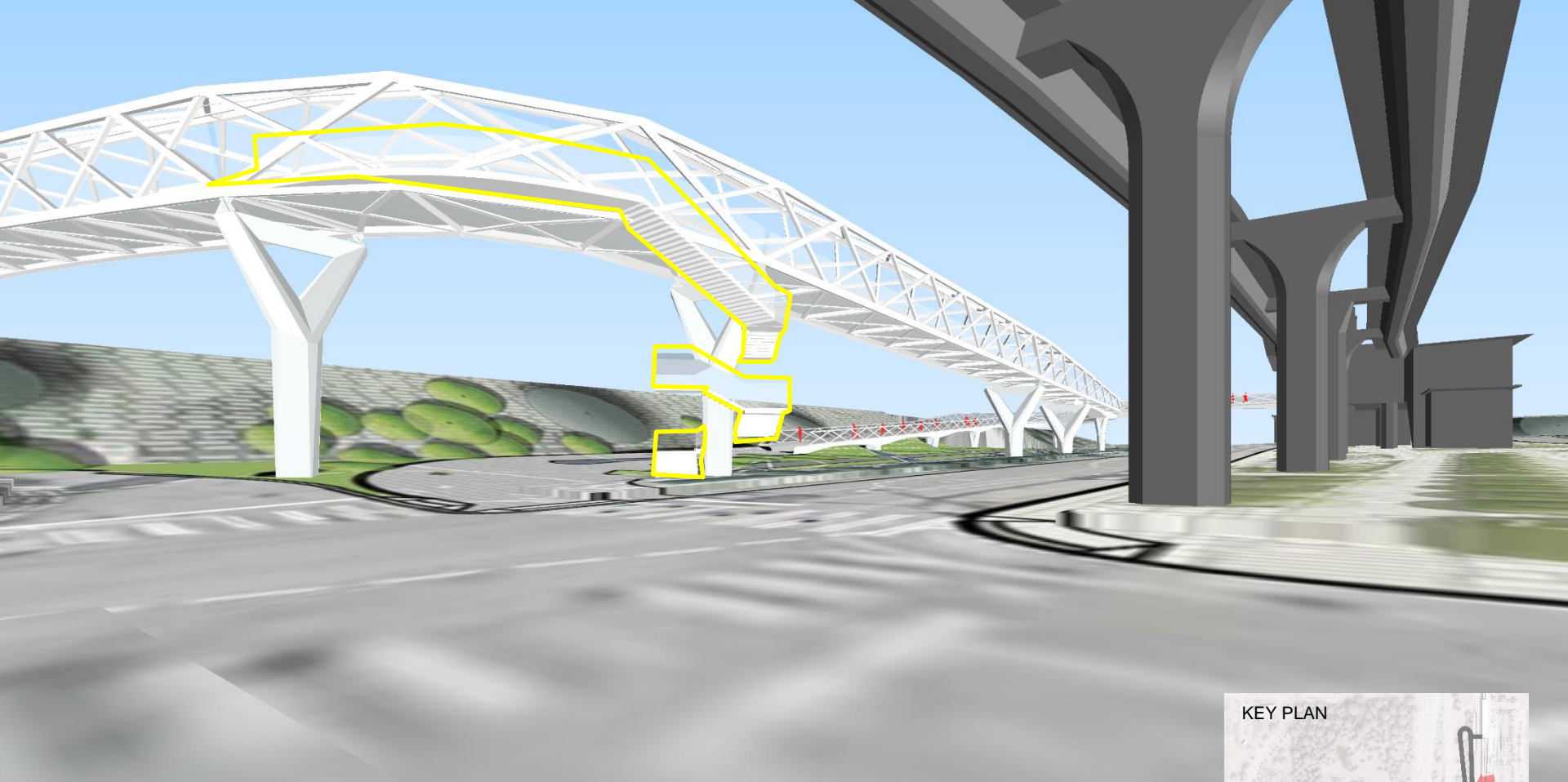


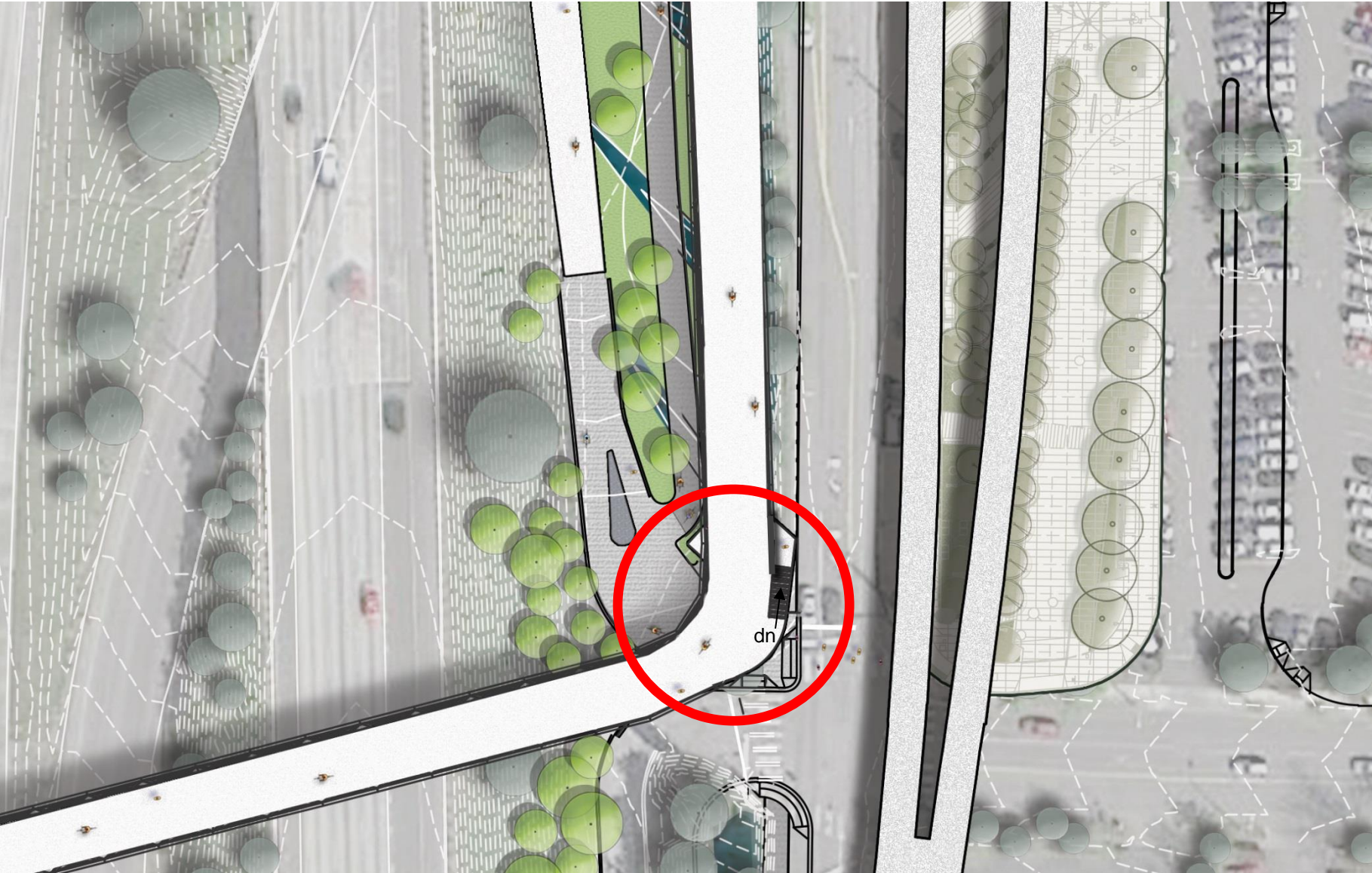
View South along 1st Ave

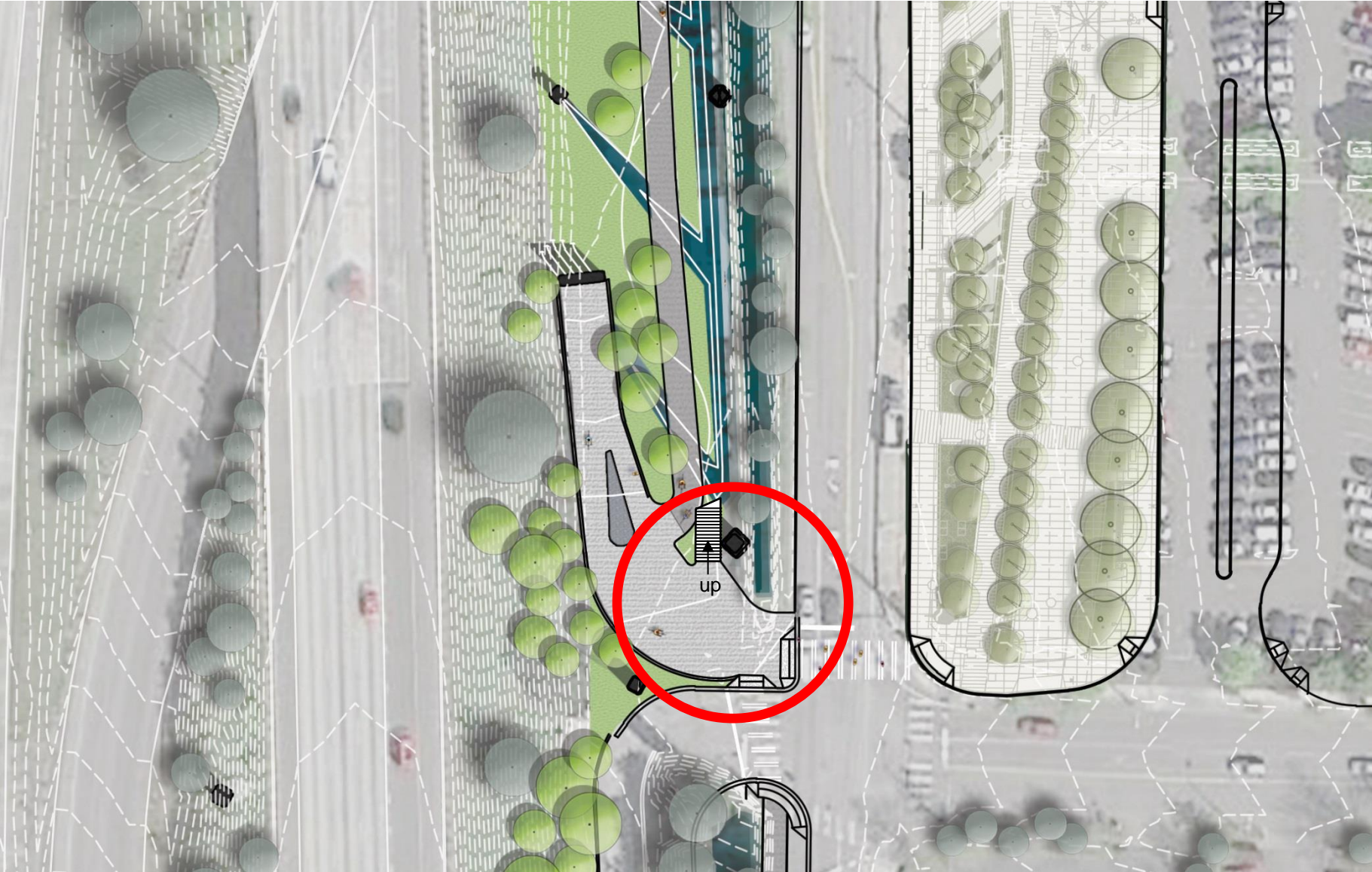


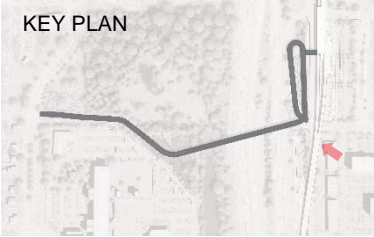
Walking Only

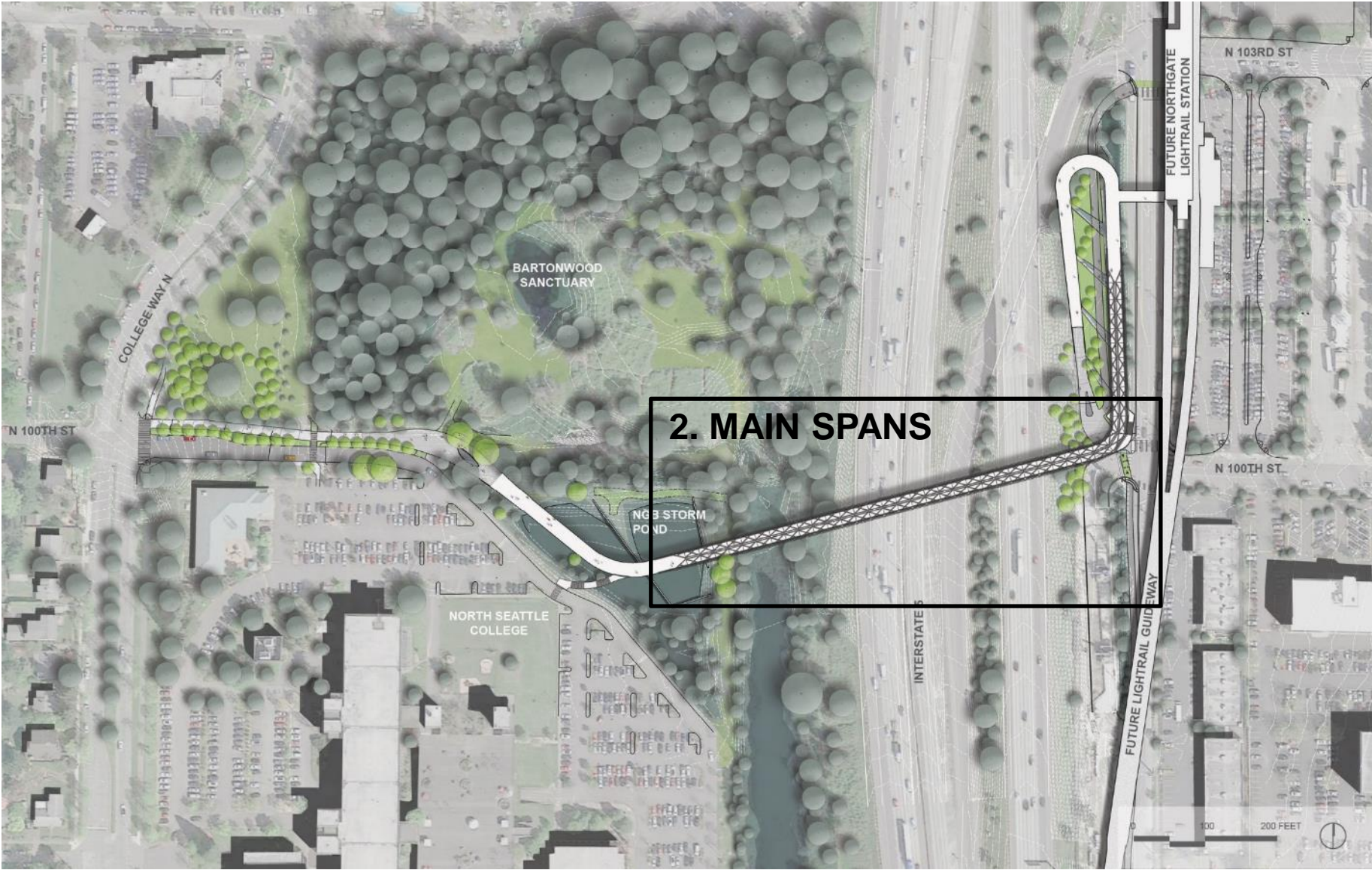
Mixing Zone



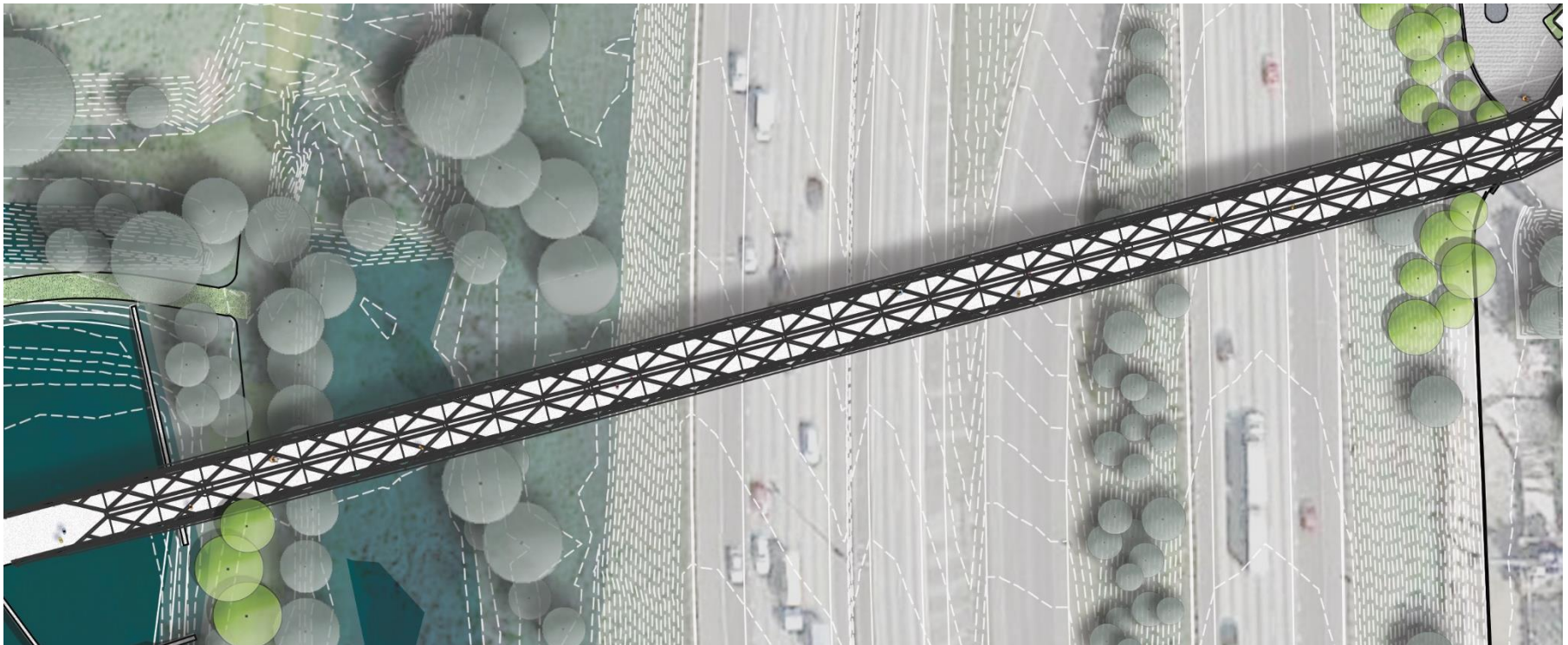


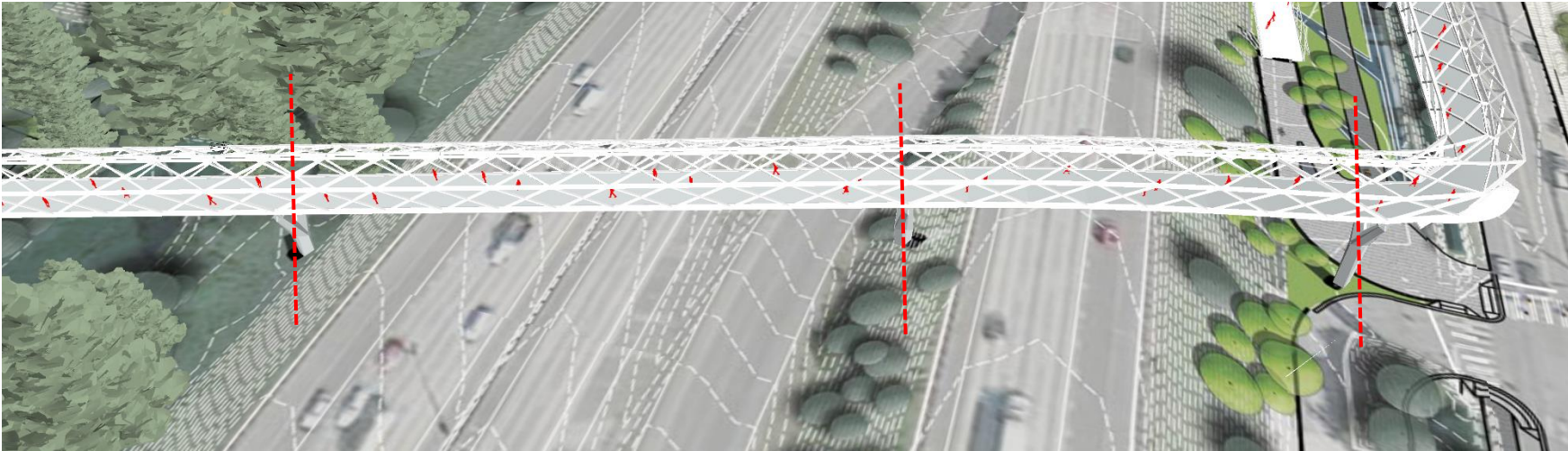
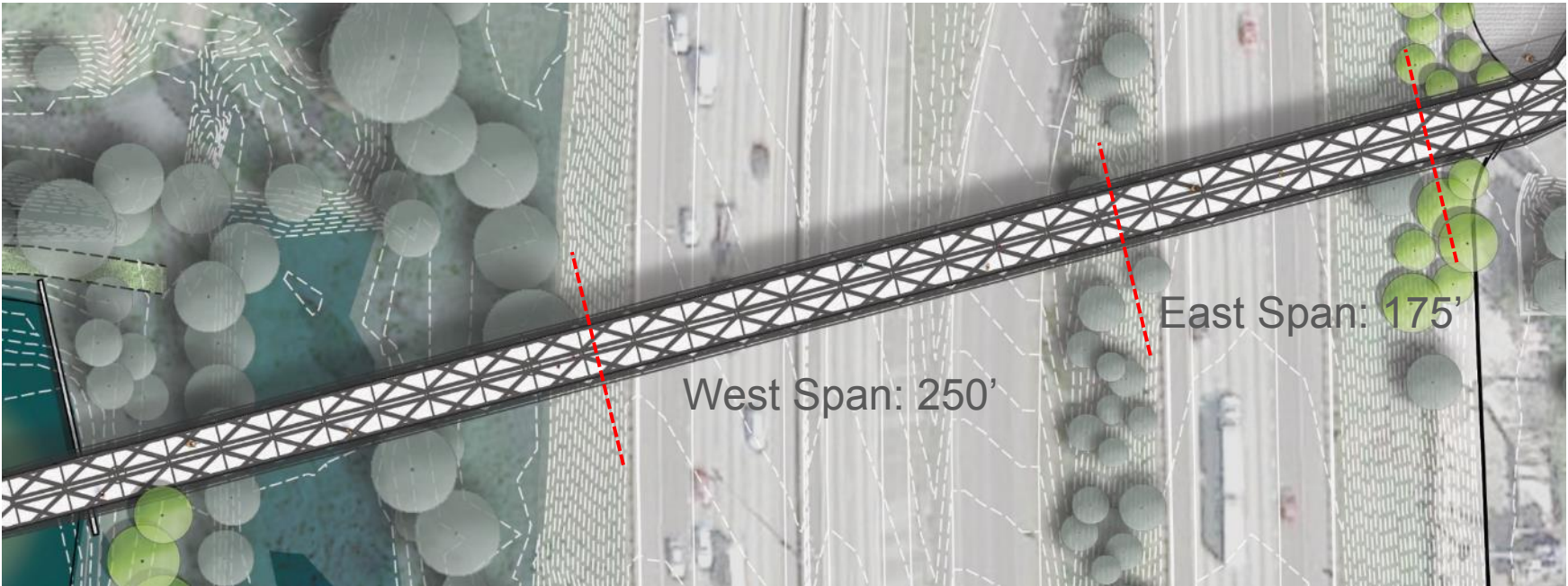


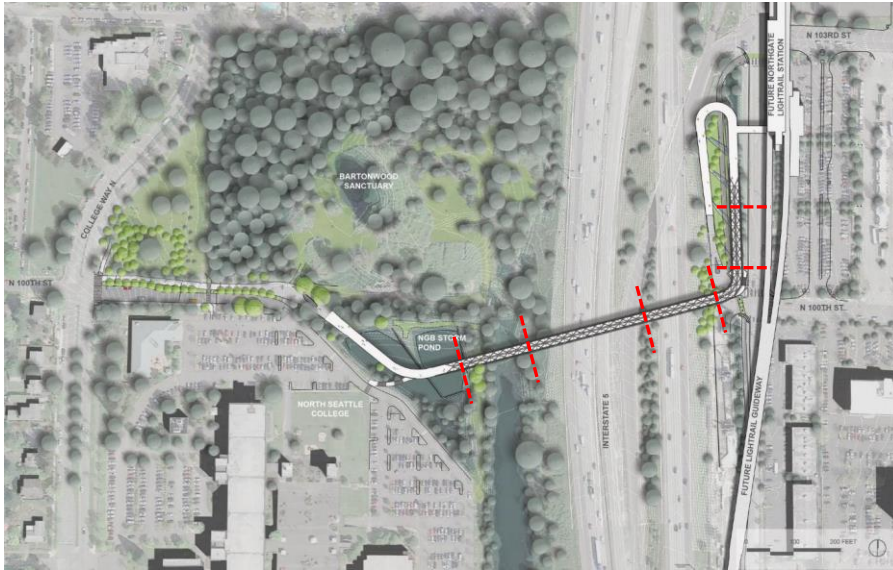




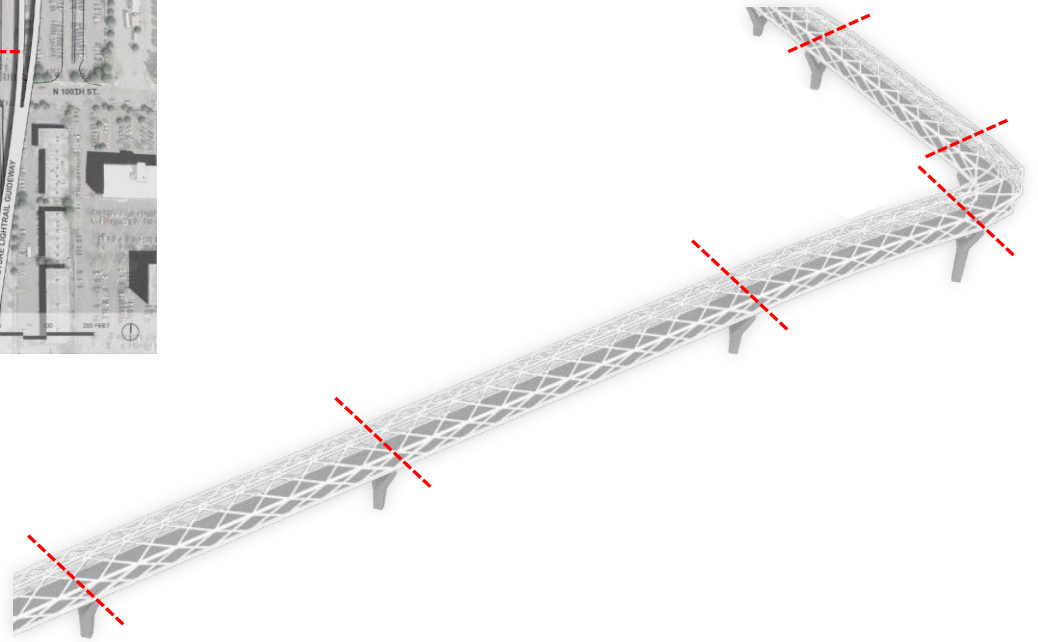
1. Spans
2. Structural Concept
3. Railings and Barrier
4. Lighting
5. Column Design
6. Transition Truss

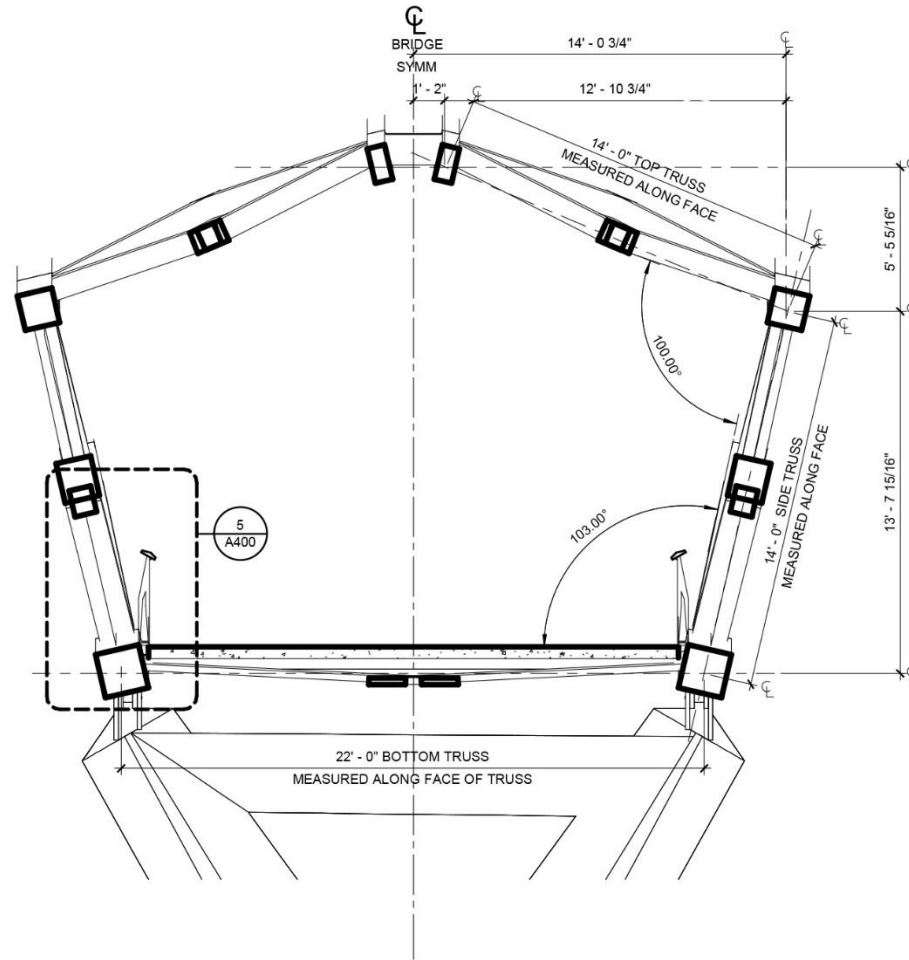






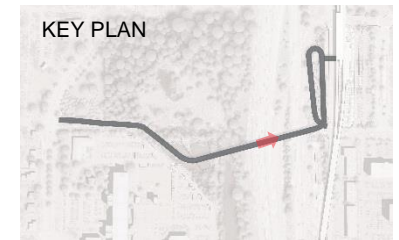
- Higher Quality Fabrication
- Minimizes costly on-site labor
- Minimized impact to i-5

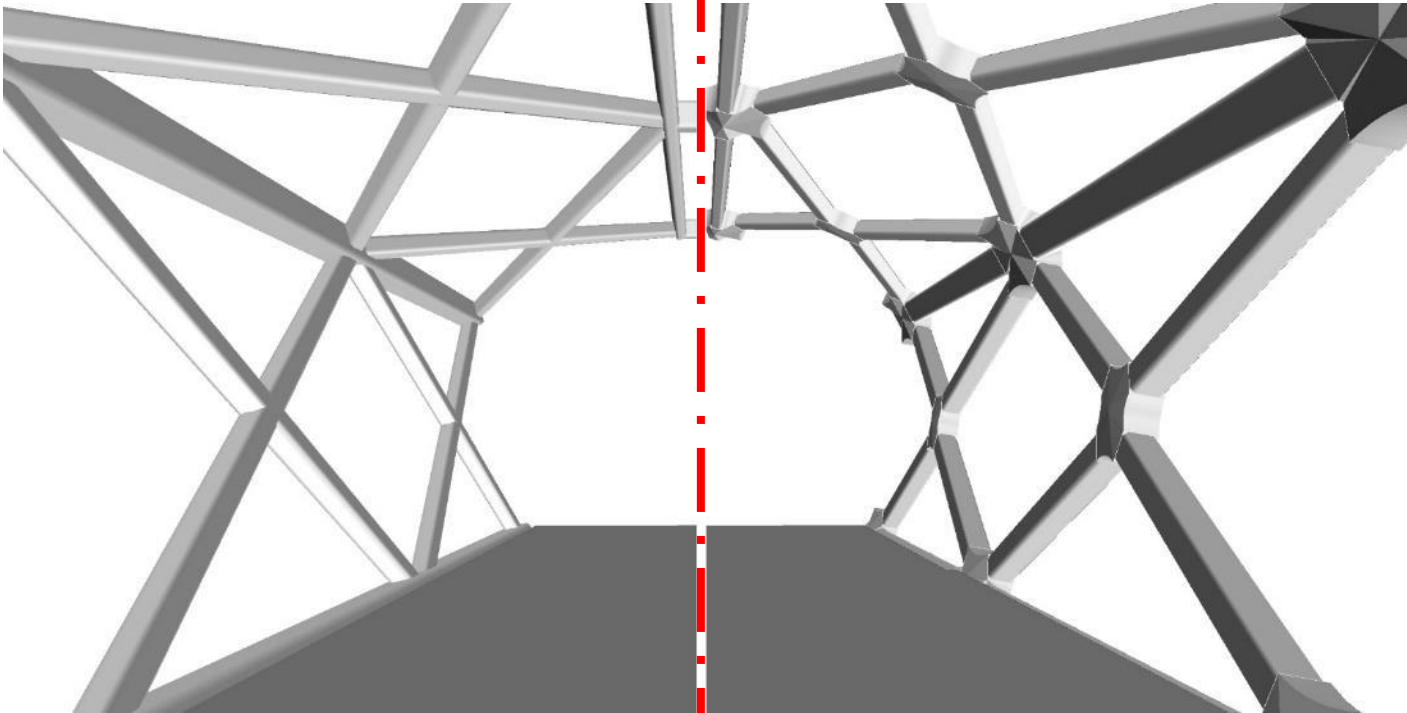




1 A400 ENLARGED TYPICAL TRUSS SECTION
1/4" = 1'-0"

MAIN SPANS | Looking East

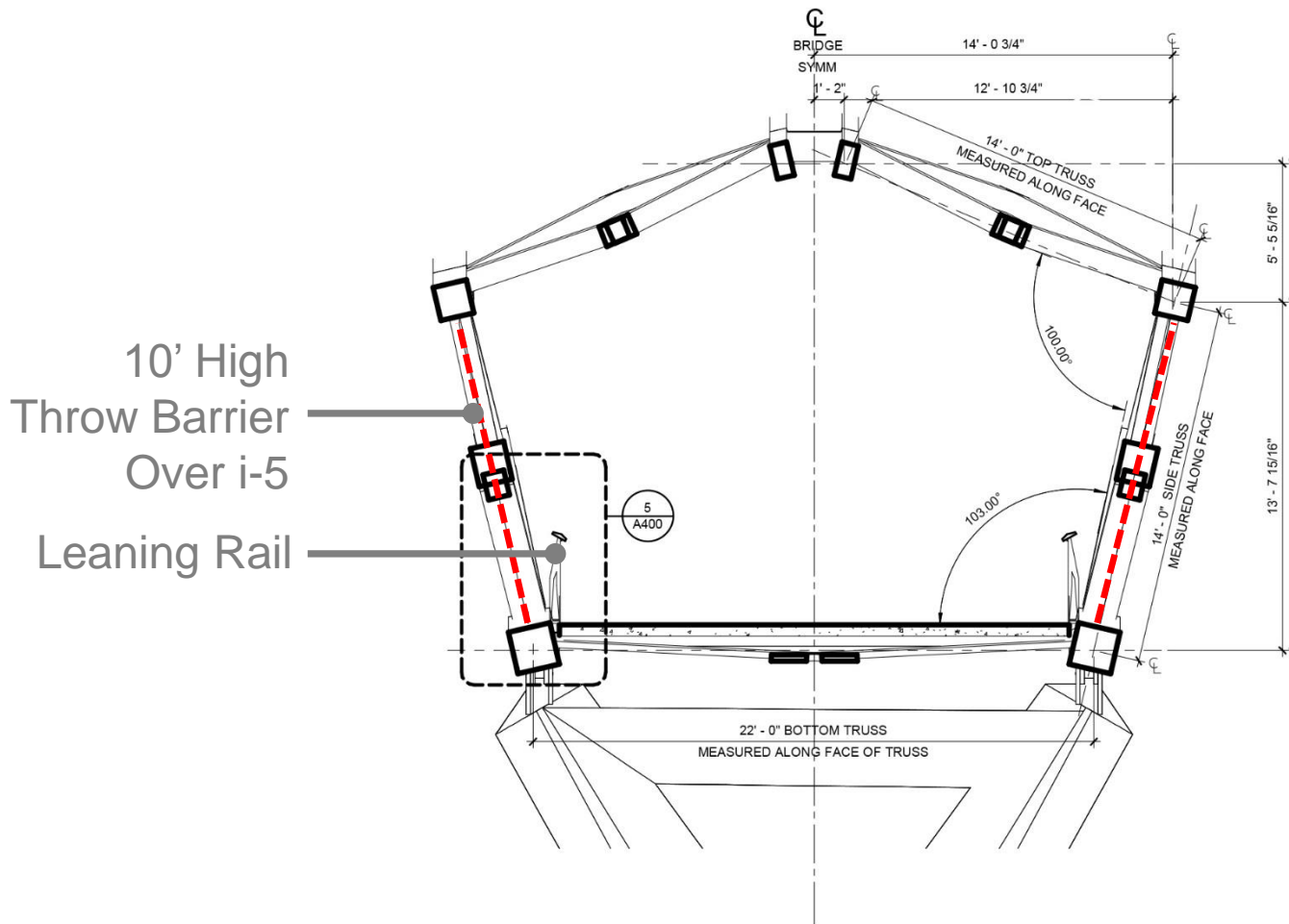




Direct Weld

Cast Steel Nodes





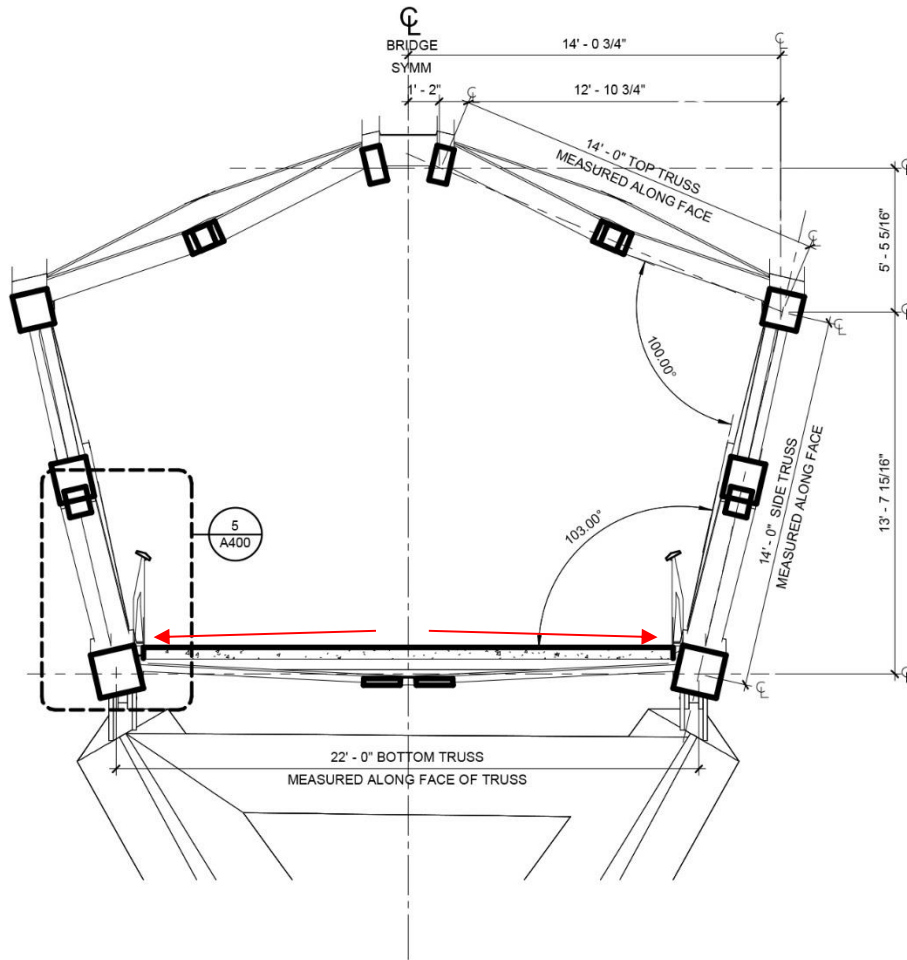
1
A400 ENLARGED TYPICAL TRUSS SECTION
1/4" = 1'-0"



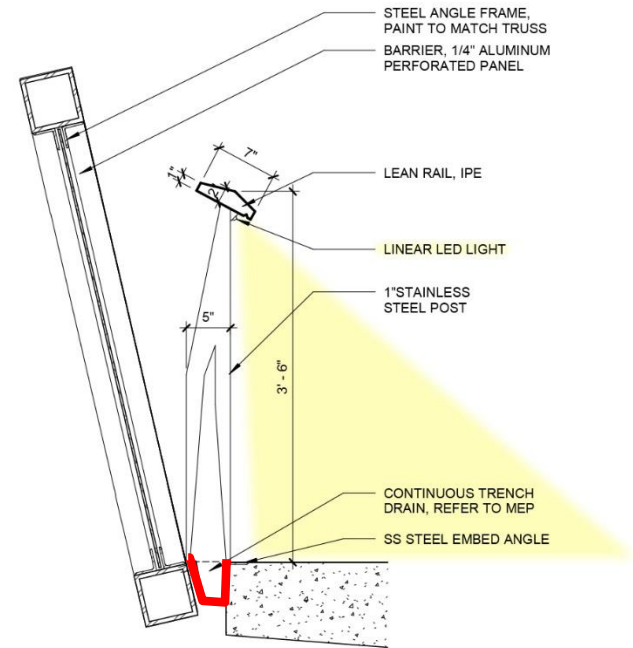
Throw Barrier / Guardrail:
Stainless Steel Cable Mesh

Railing:
Black Locust

Support Structure:
Stainless Steel

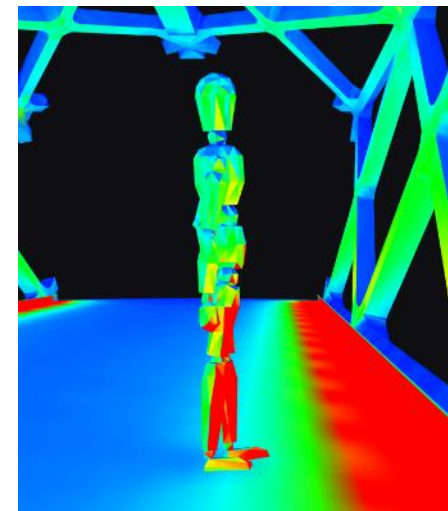
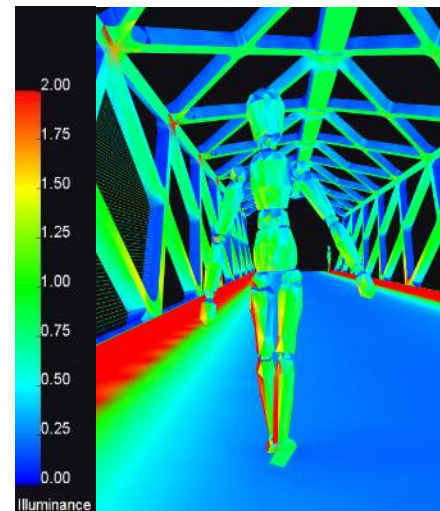
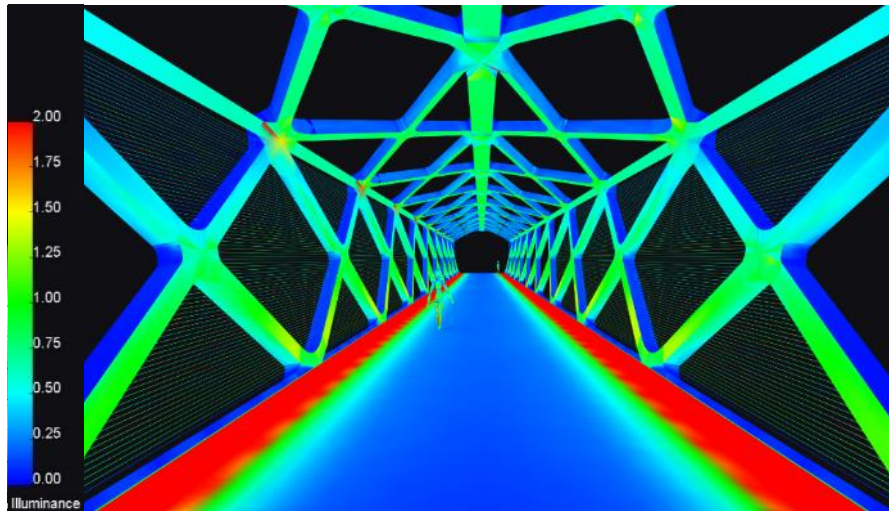


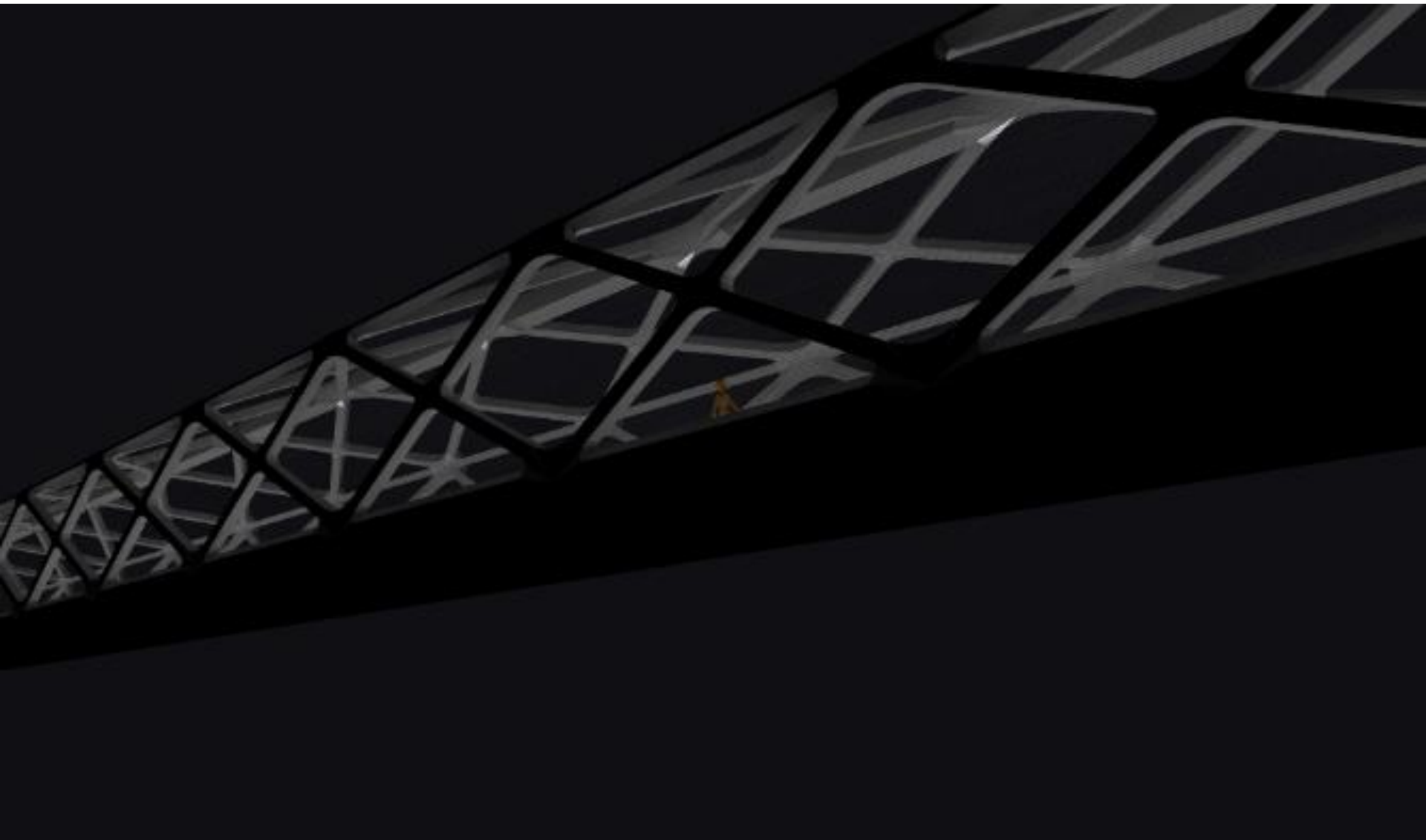
1 ENLARGED TYPICAL TRUSS SECTION
1/4" = 1'-0"

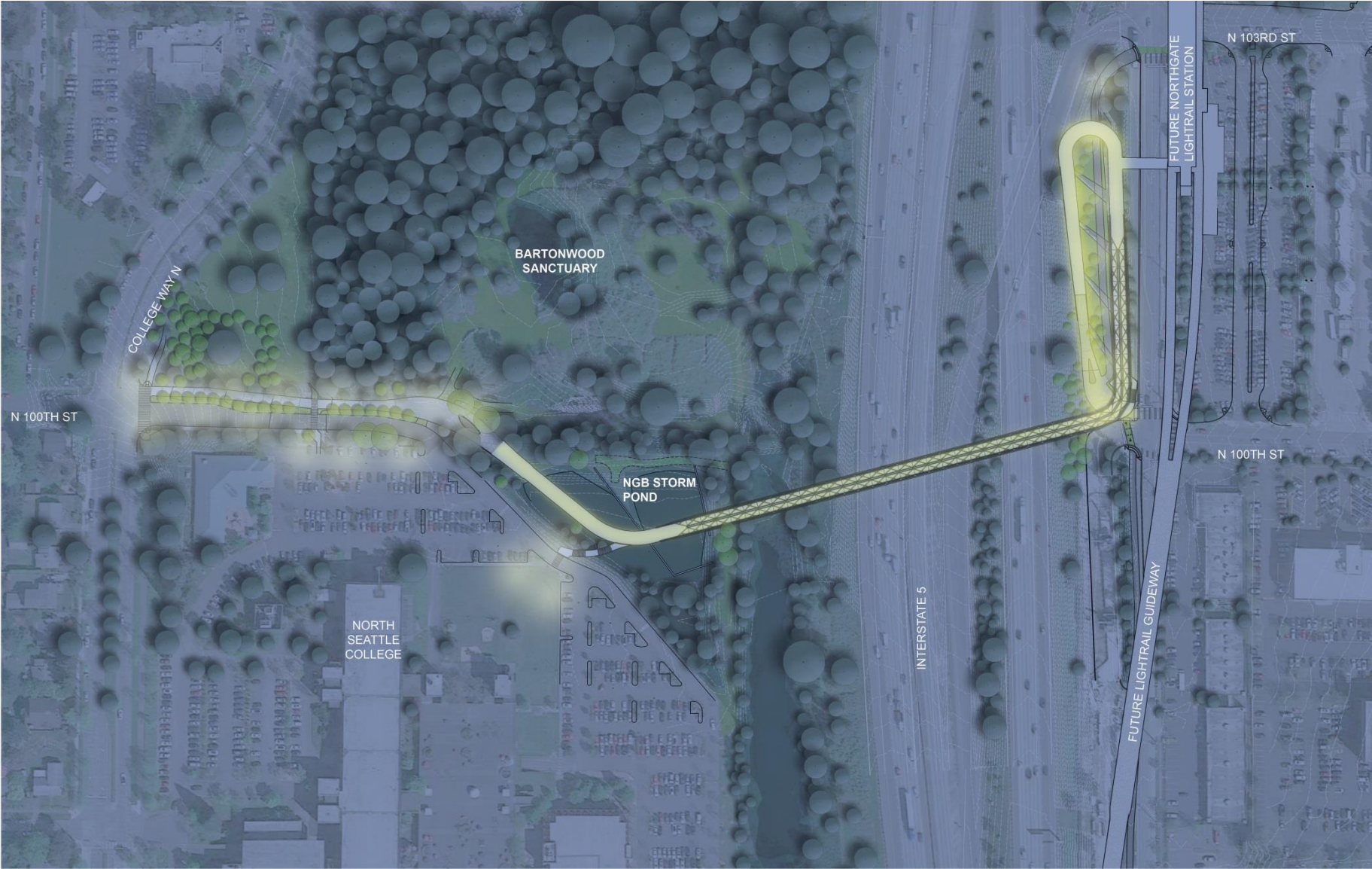


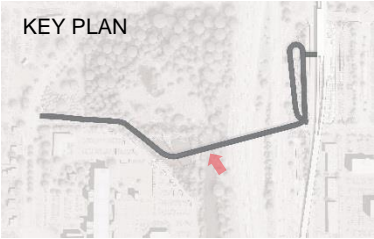
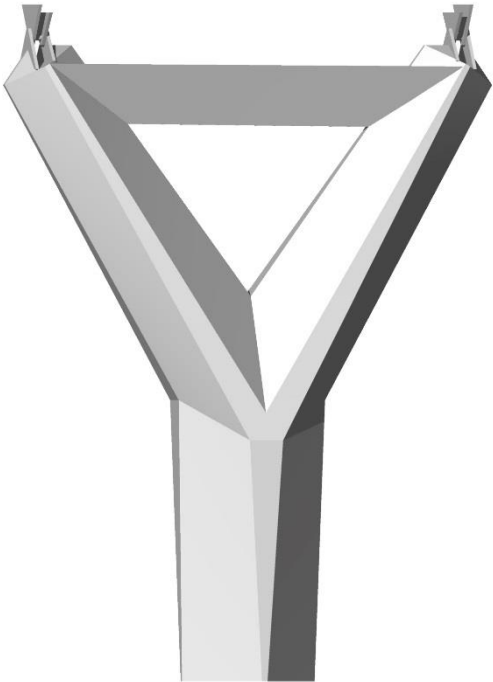
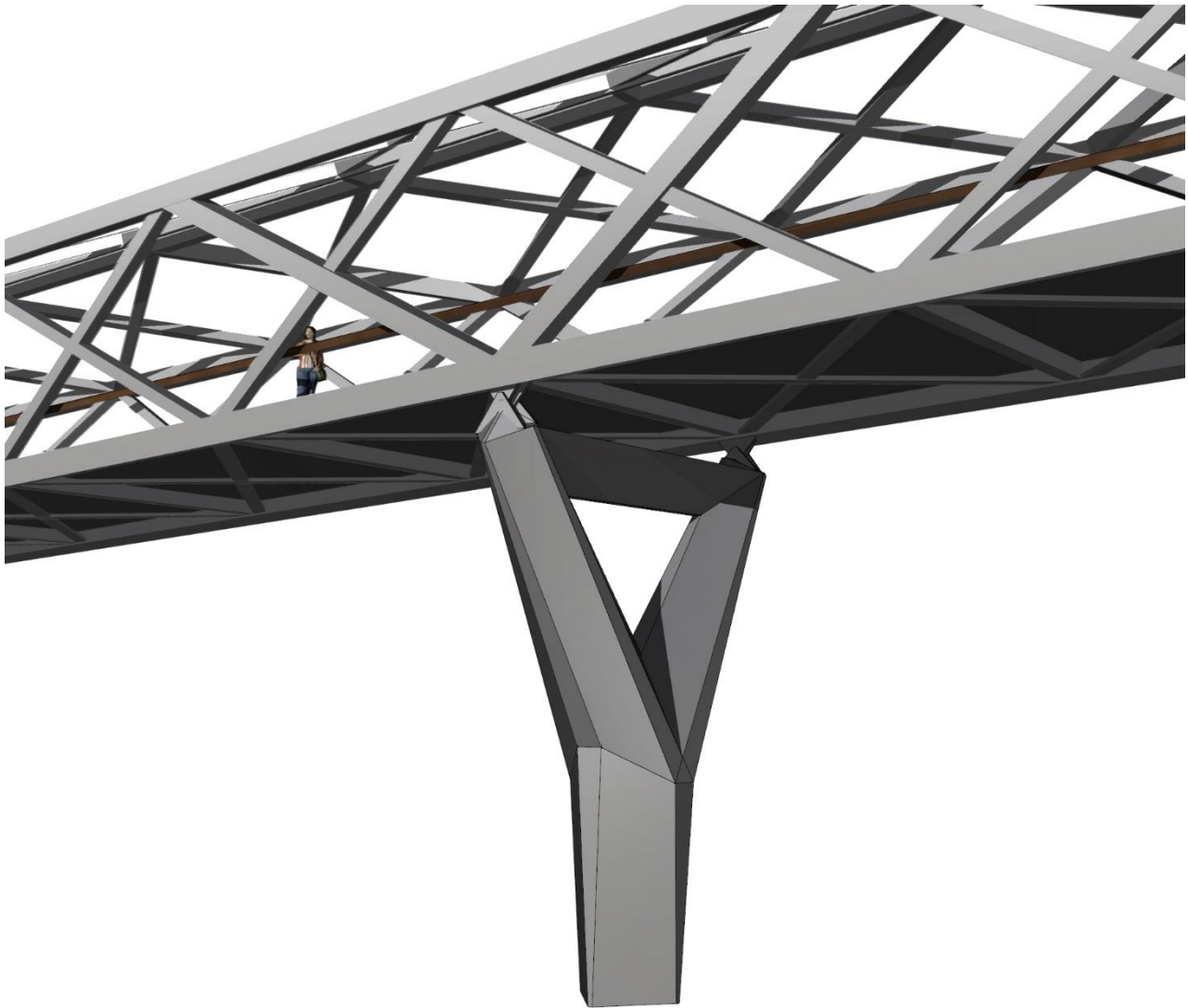
4 DETAIL @ GUARDRAIL
1" = 1'-0"

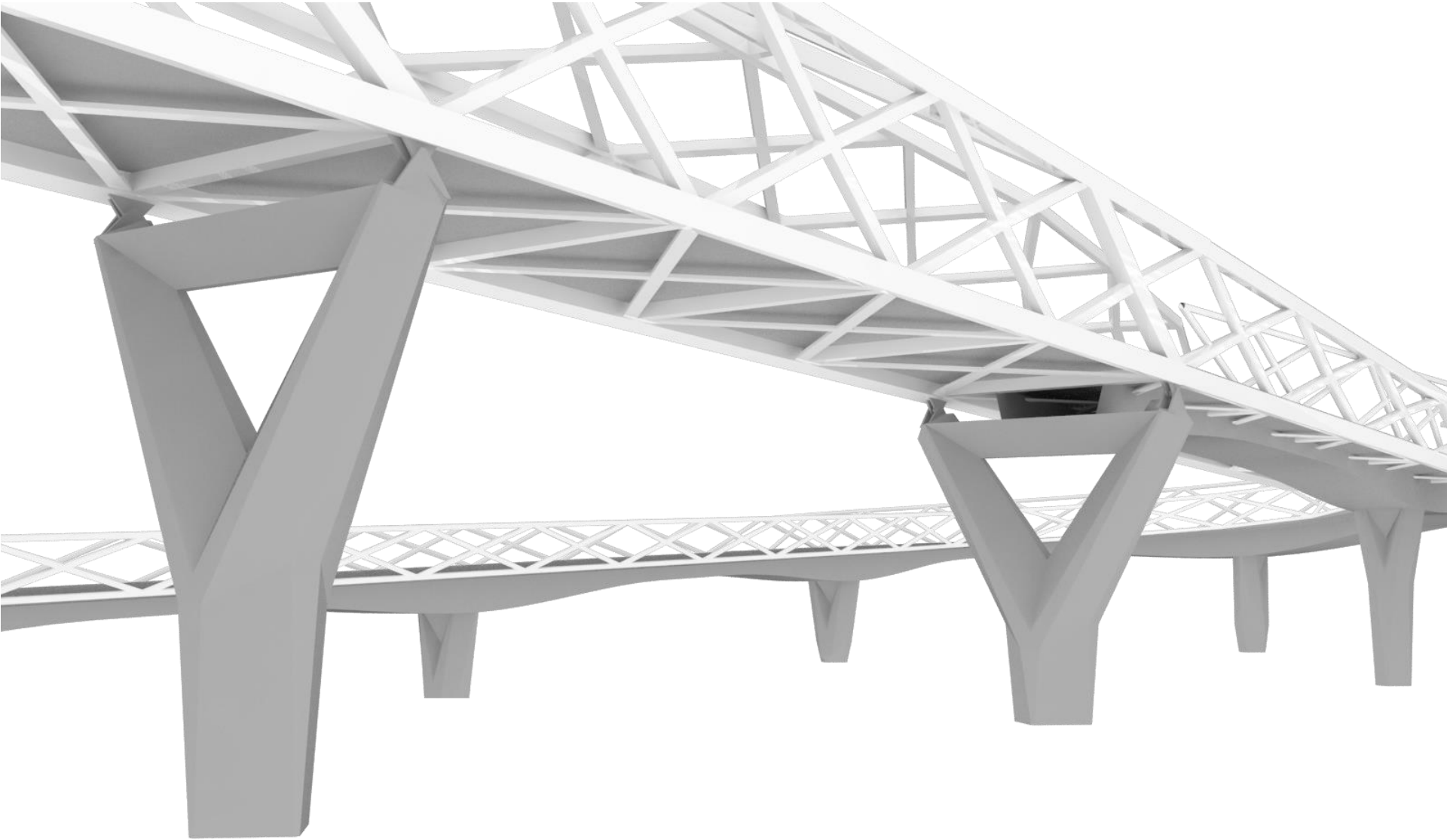


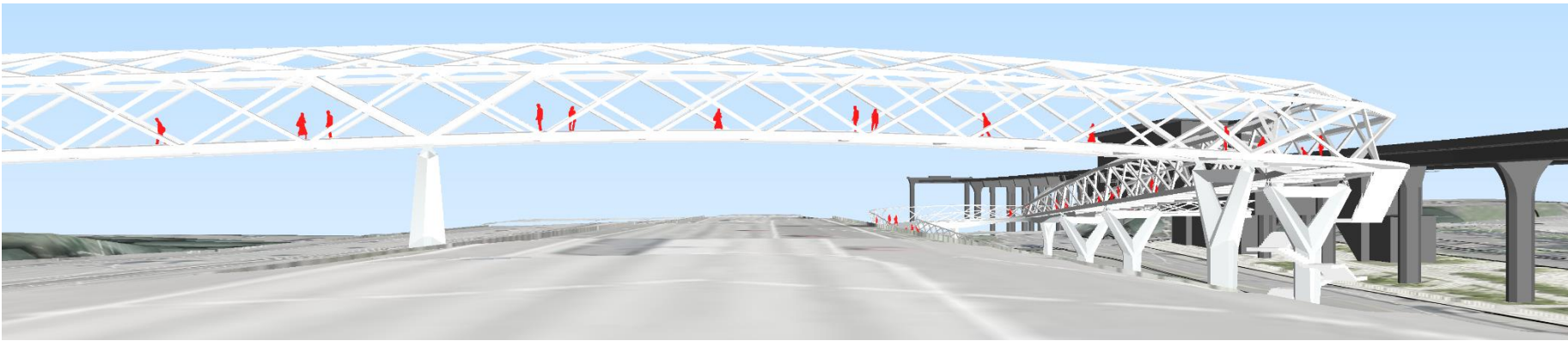




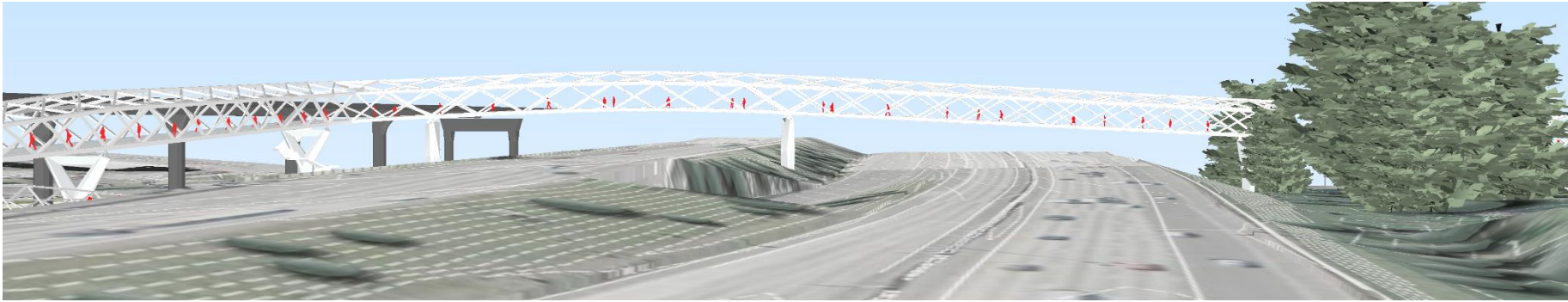
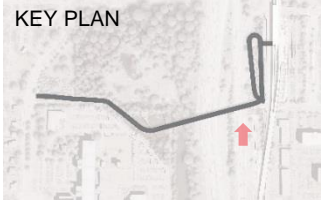








From NB I-5



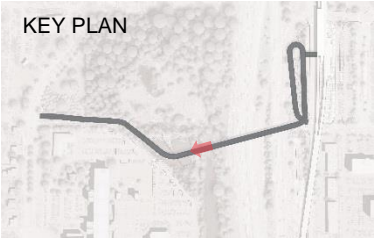
From SB I-5



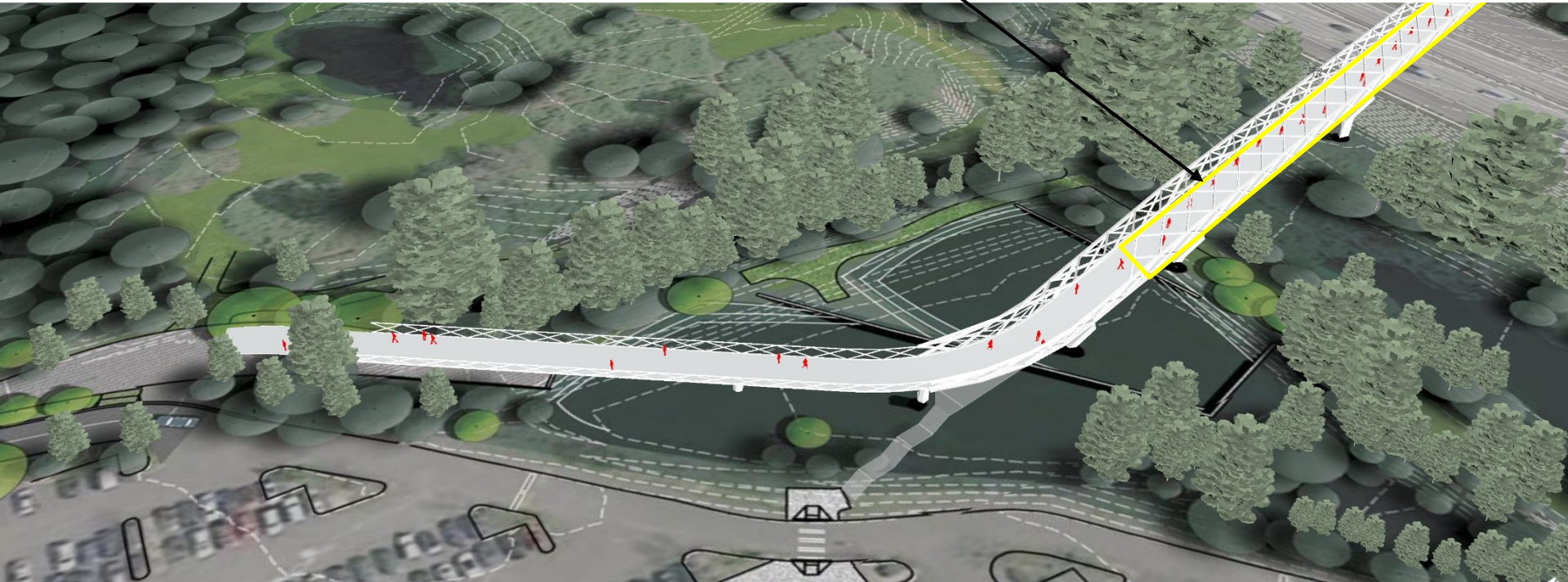




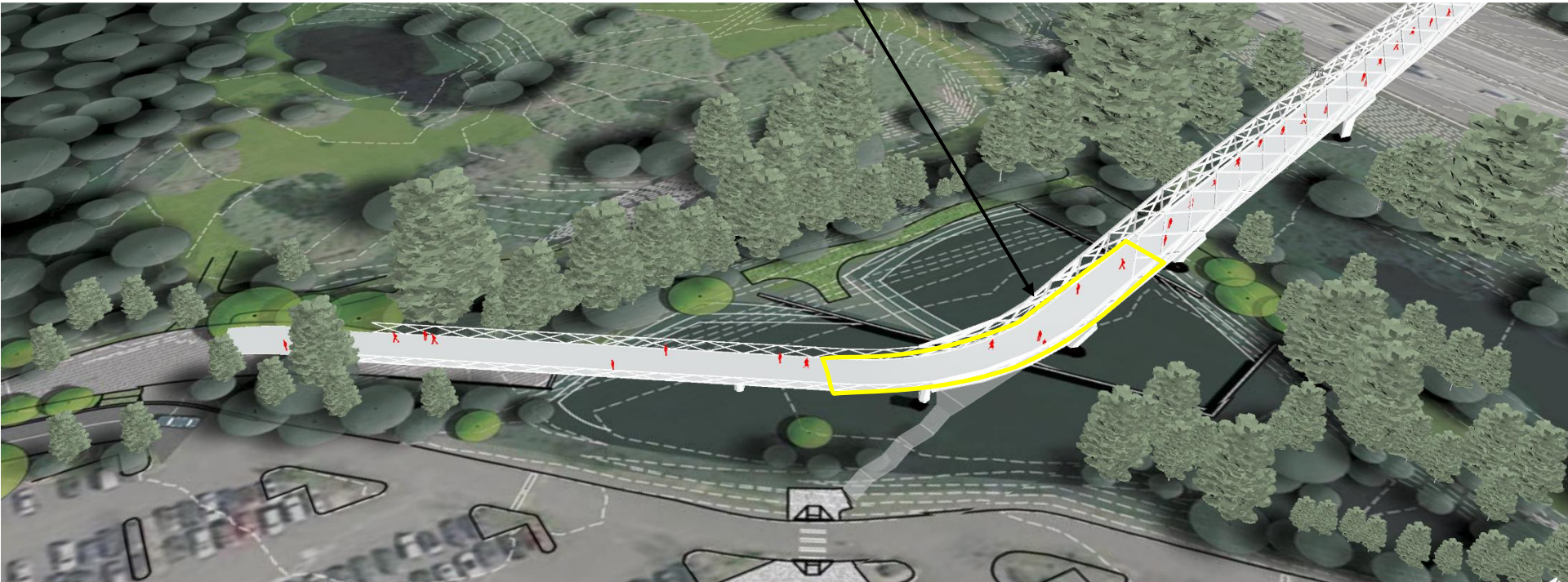
1. Components
2. Stairs
3. Vegetation
4. Water
5. Connections



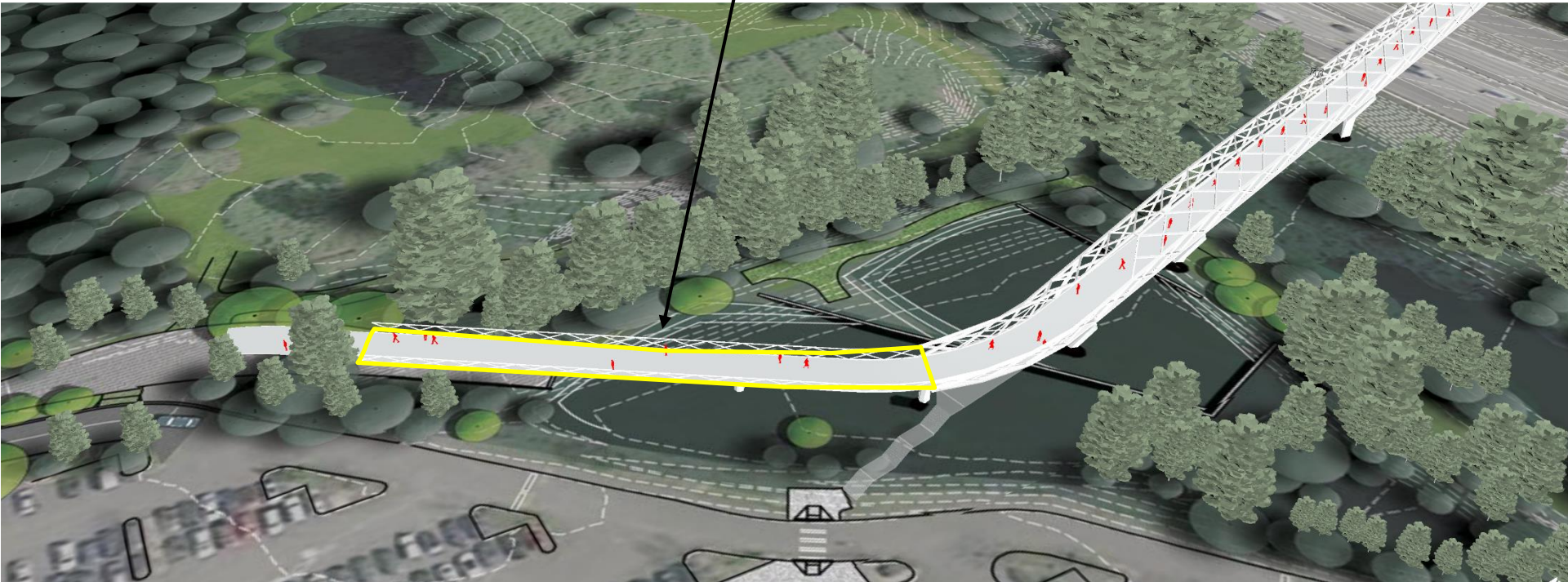
Steel Tube/Truss Spans



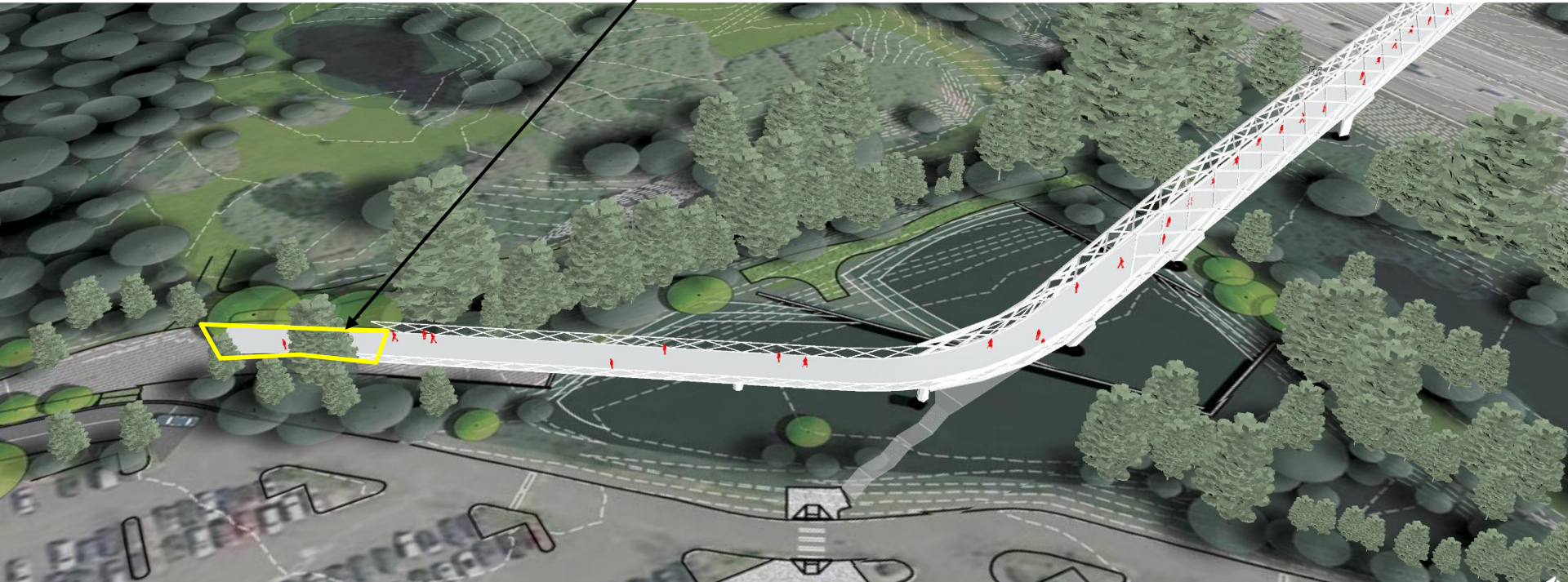
Transitional Tube/Truss

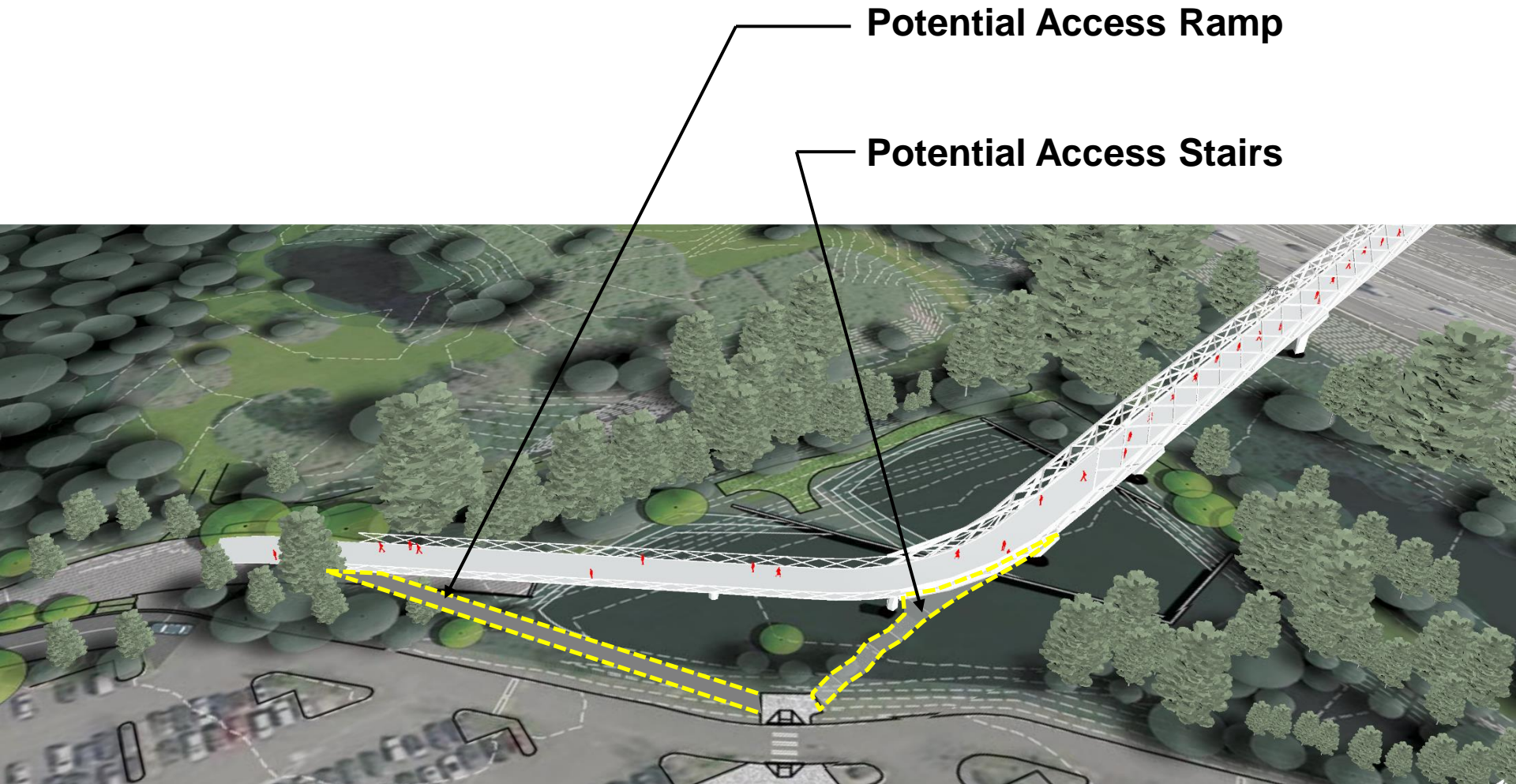


Elevated Concrete Girders

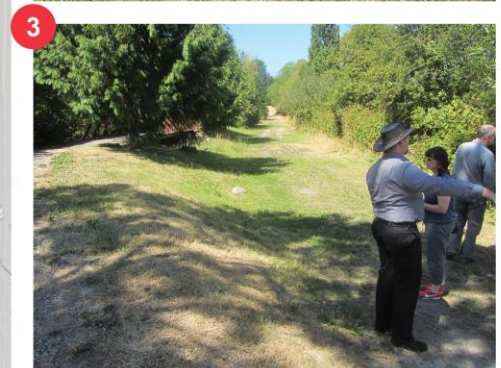
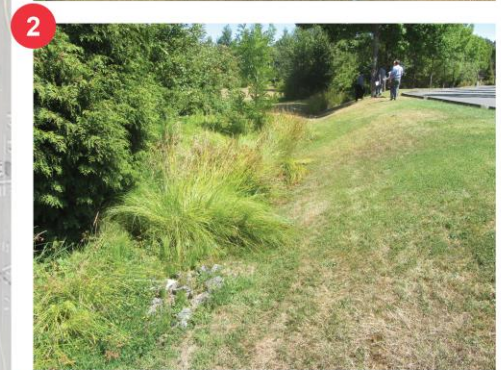


On-fill / At Grade



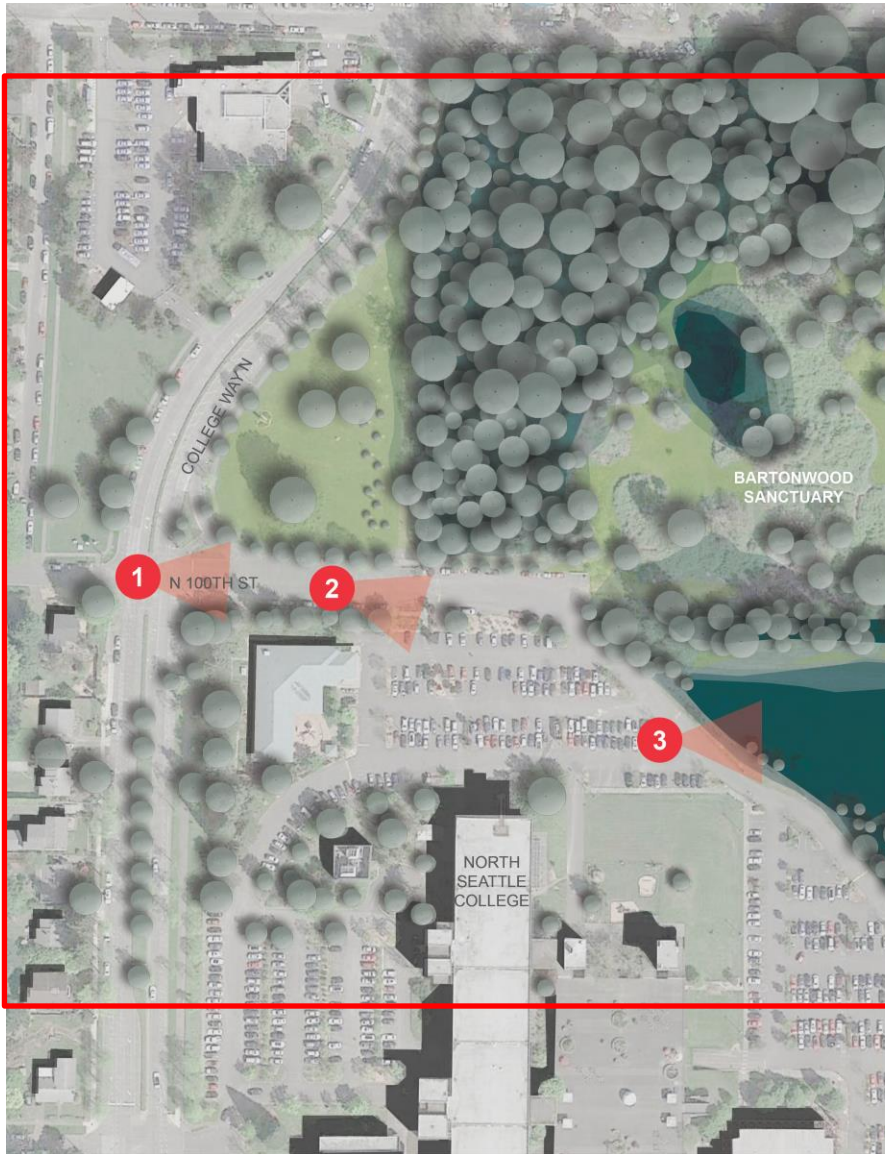




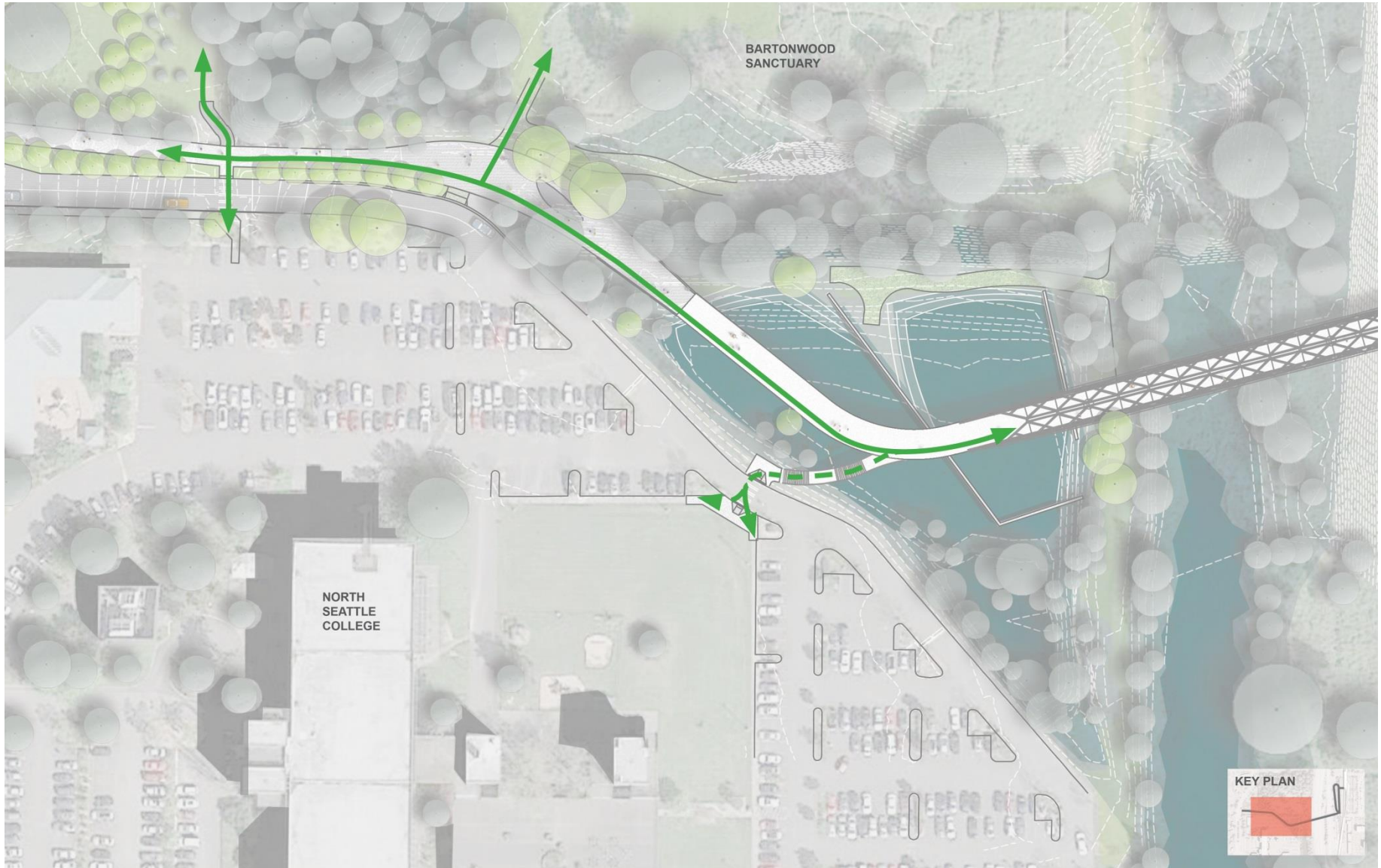


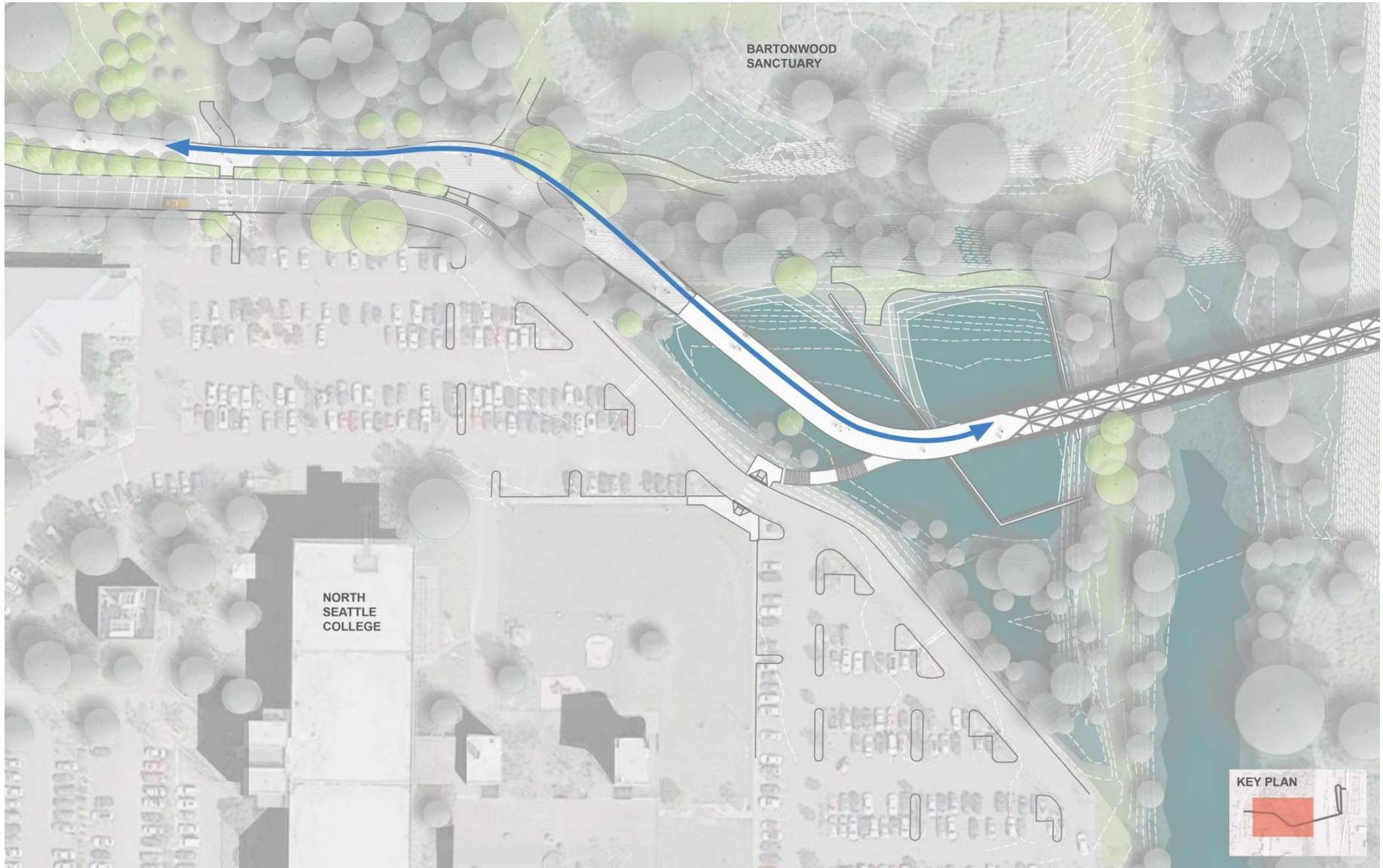


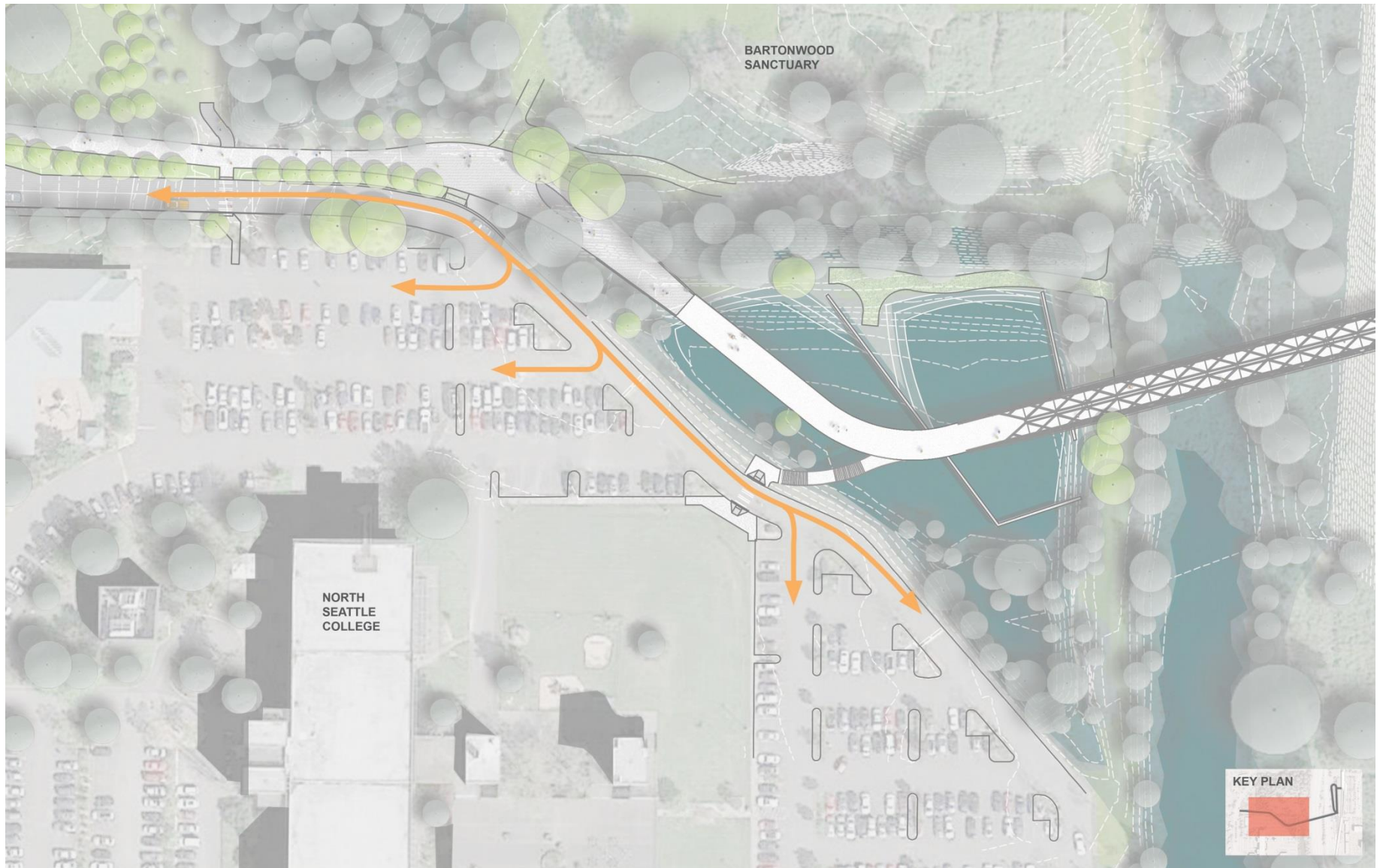
WEST APPROACH | Existing Conditions

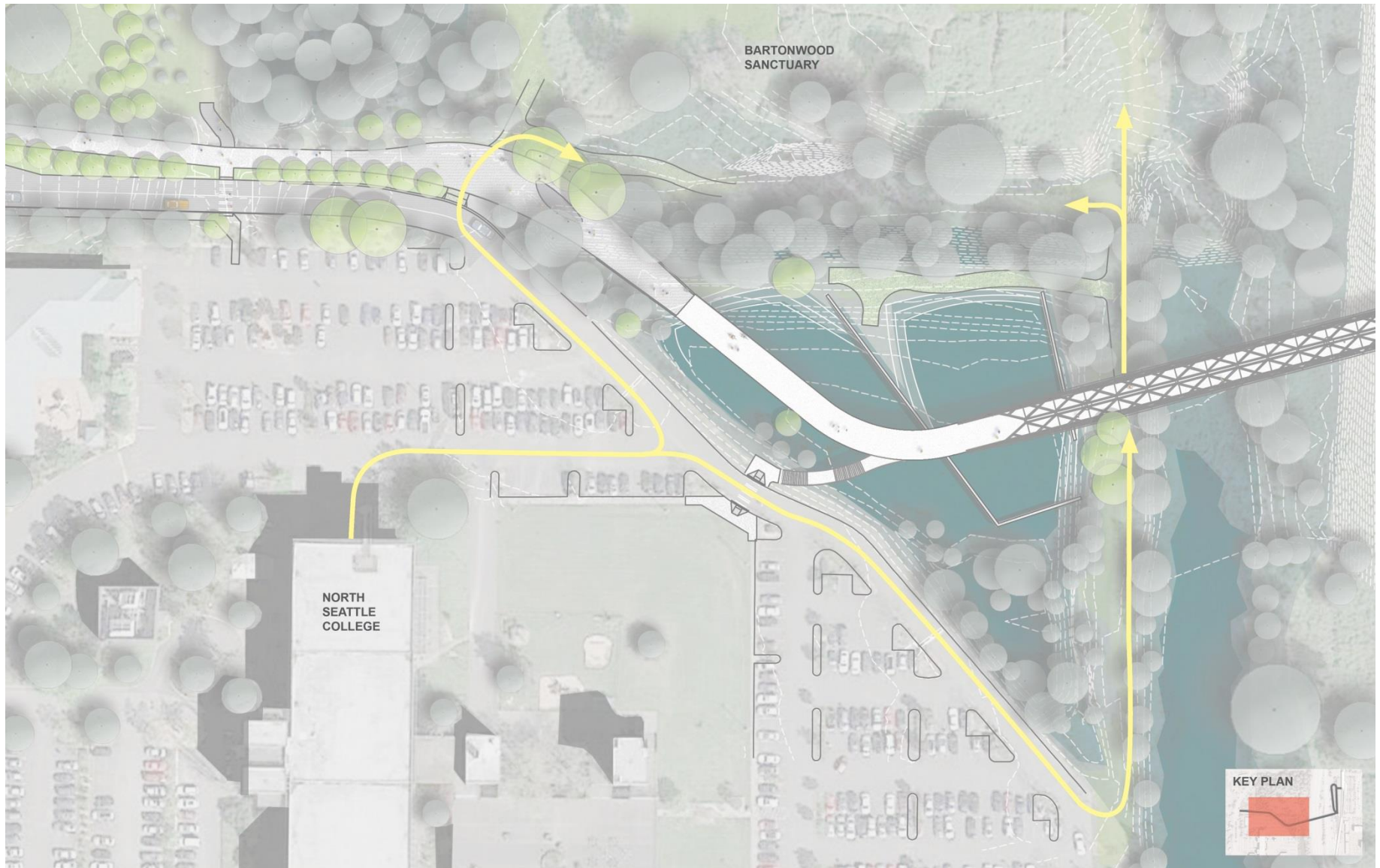




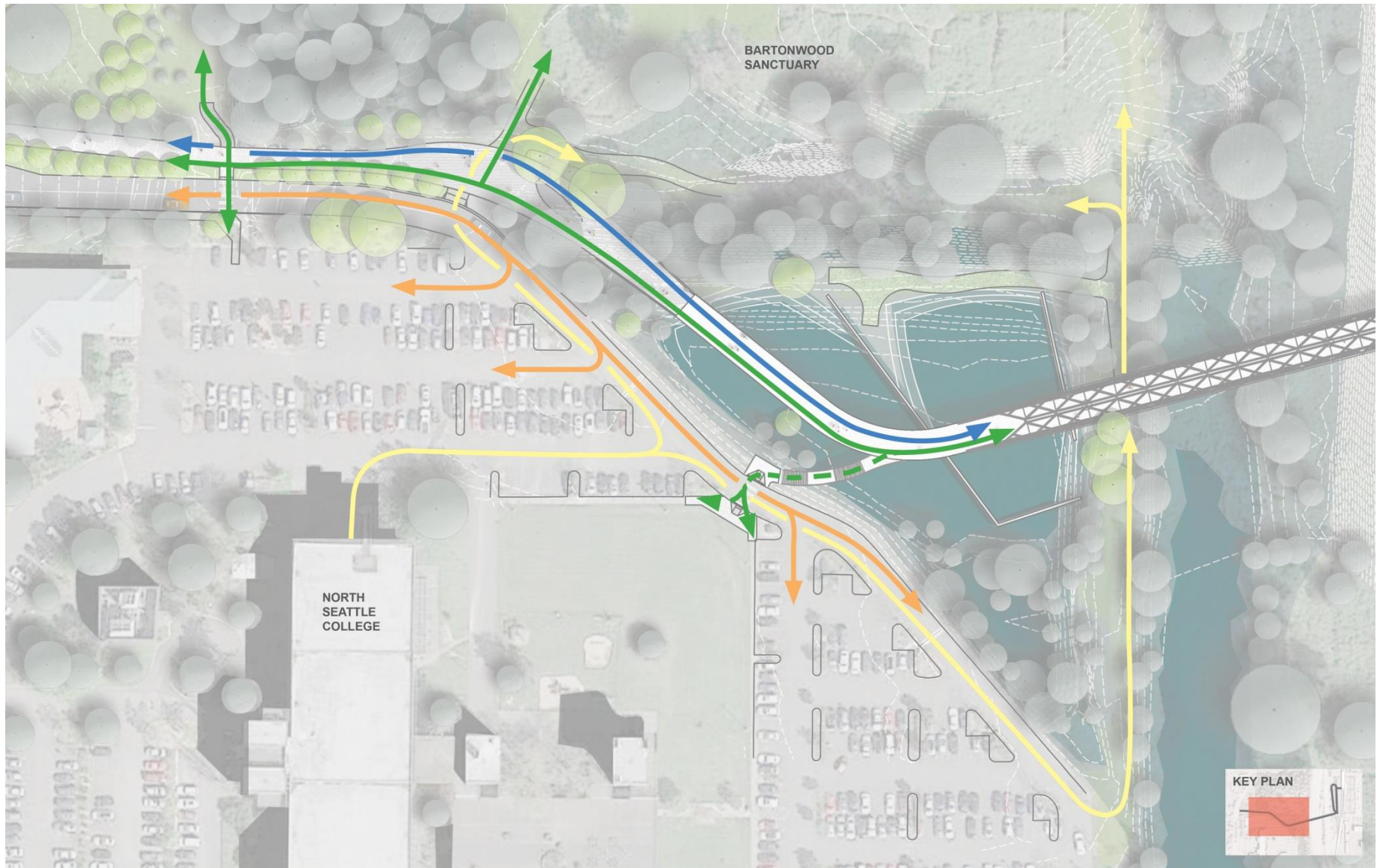




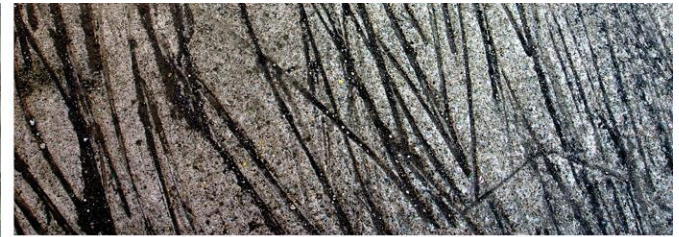
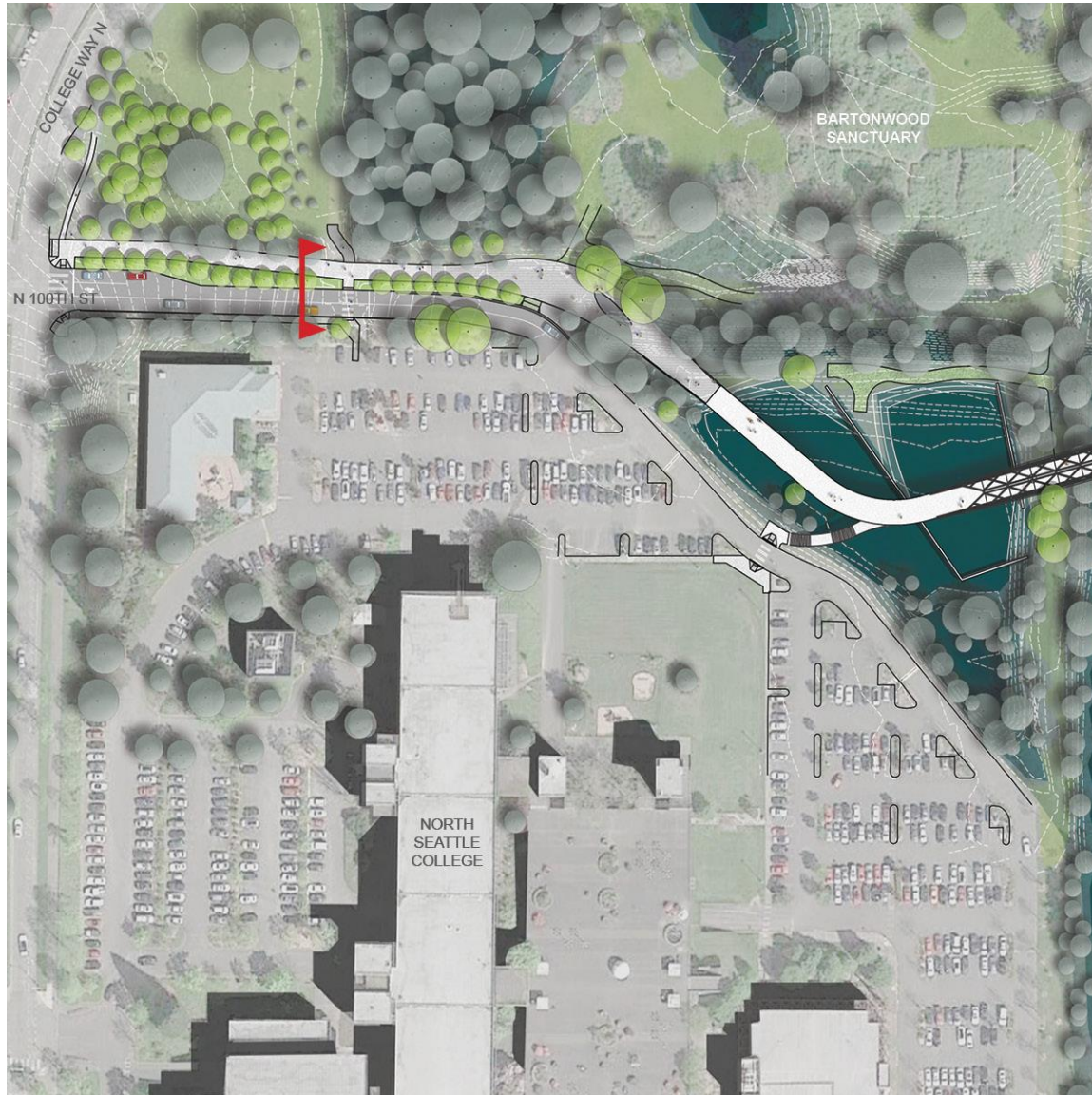


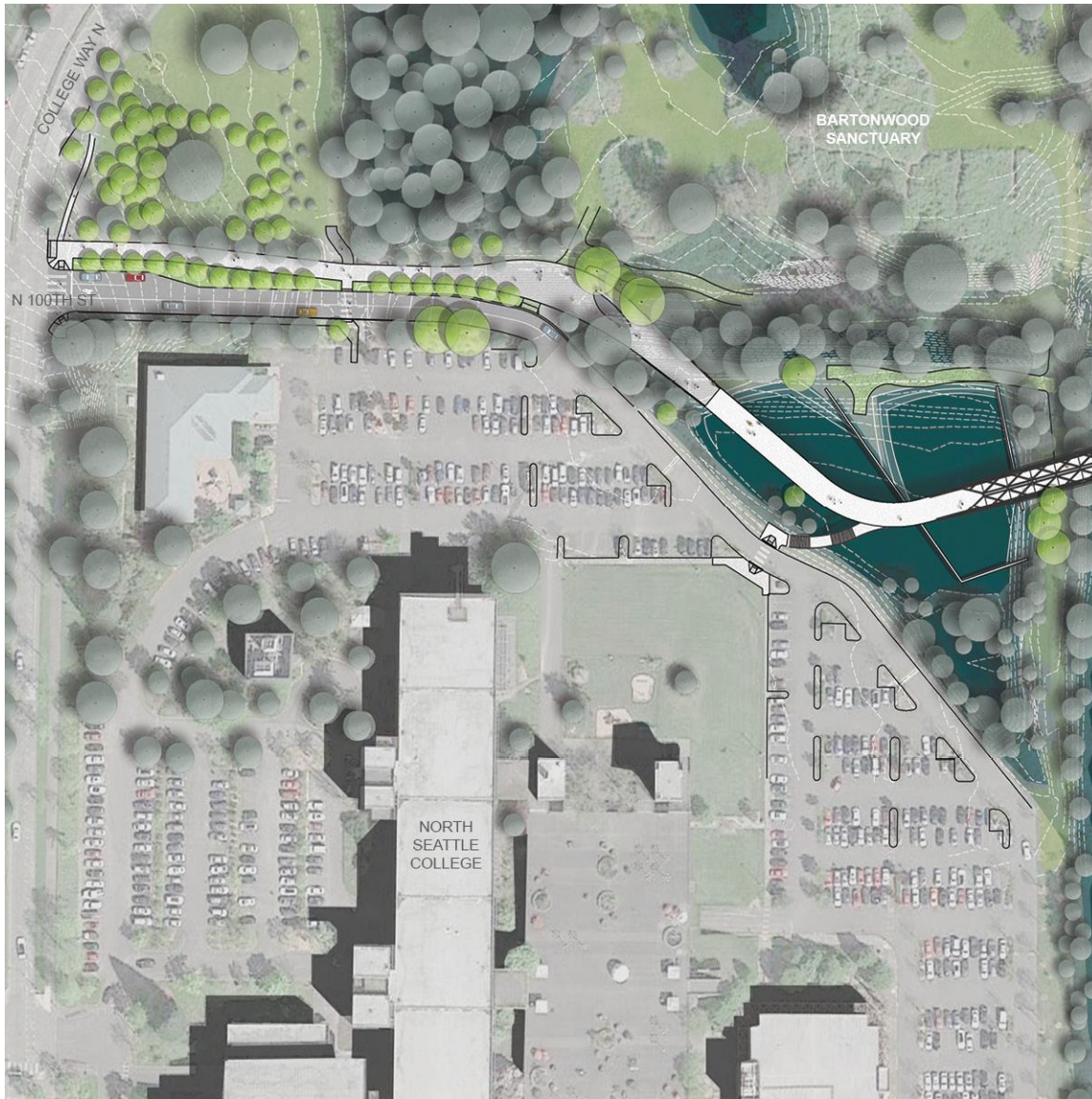


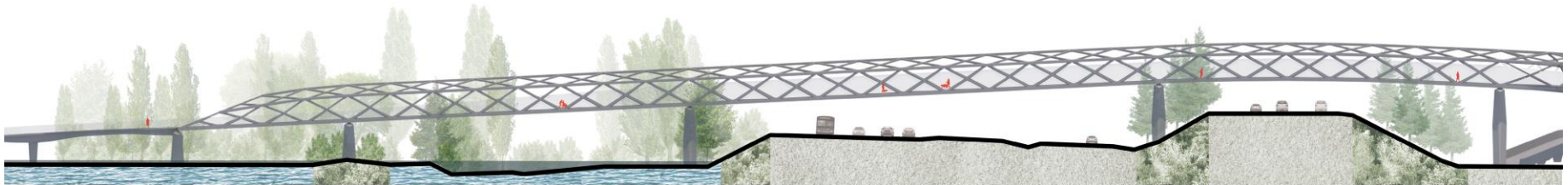
WEST APPROACH | Access: All Users



WEST APPROACH | Materials







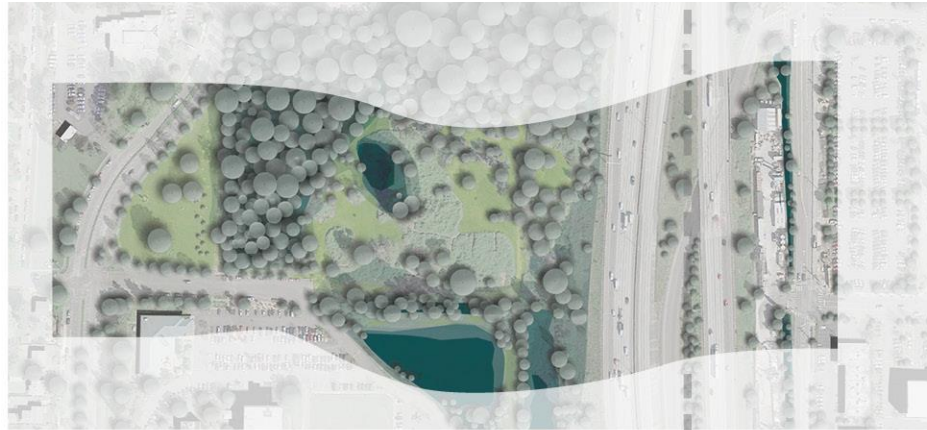
EXISTING

WATER
29%

VEGETATION
59%

IMPERVIOUS
37%

PERVIOUS
63%



EXISTING

WATER
9%

VEGETATION
30%

IMPERVIOUS
61%

PERVIOUS
39%

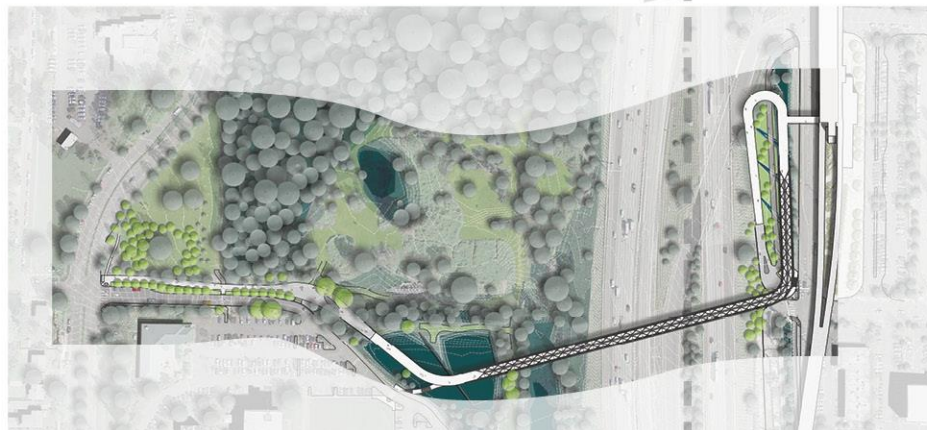
PROPOSED

WATER
31% +2%

VEGETATION
63% +4%

IMPERVIOUS
39% +2%

PERVIOUS
61% -2%



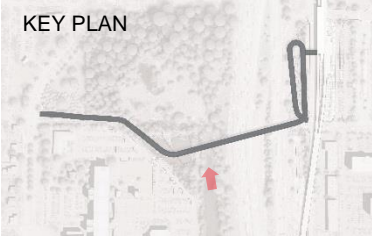
PROPOSED

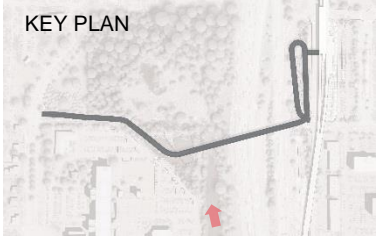
+3% WATER
12%

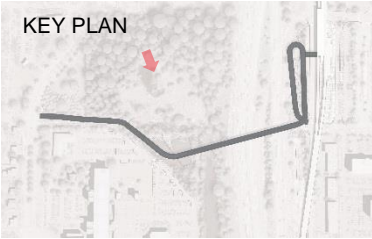
+9% VEGETATION
39%

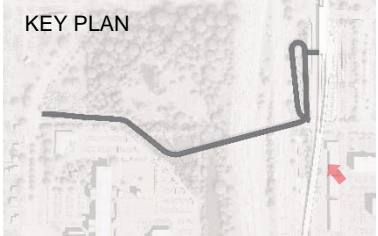
-5% IMPERVIOUS
56%

+5% PERVIOUS
44%









DISCUSSION



END