West End Bridge **Access Structures**

Concept Report February 21, 2024







DEREK PORTER STUDIO ELDORADO

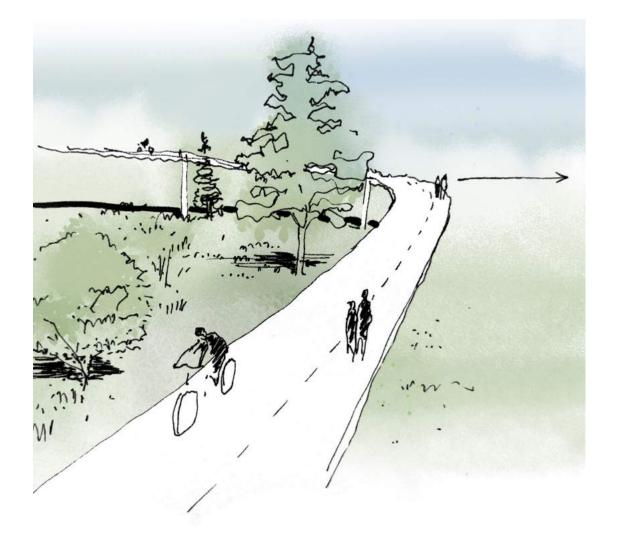


Thornton Tomasetti

Concept Description

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Overall Site Narrative



- pedestrian experience.
- Passive programming with scattered intimate gathering 2. spaces.
- 3. framing and emphasizing the natural landscape and ecosystems.

Efficient and safe biking and

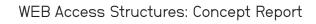
Meandering, gentle structures

Overall Site Narrative

- -- Neighborhood connector
- Three Rivers Heritage Trail
- Alcosan/PennDOT sites

Site A and B are the "Front Porch" to the West End neighborhood.

West End and Surrounding Neighborhoods





Site-C

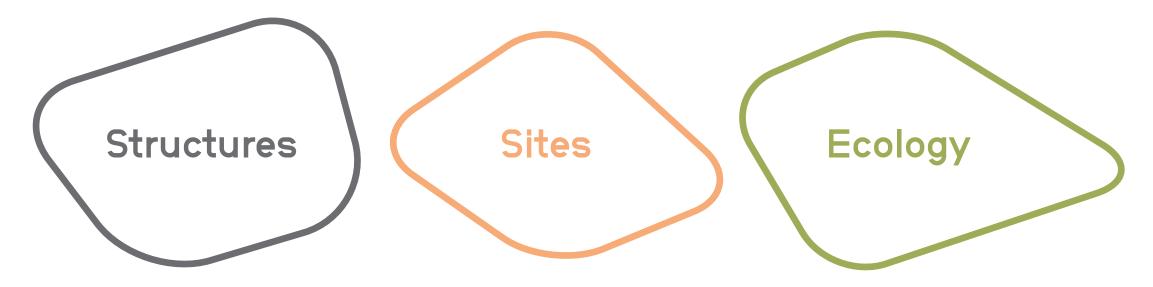
Site-B

Site-A

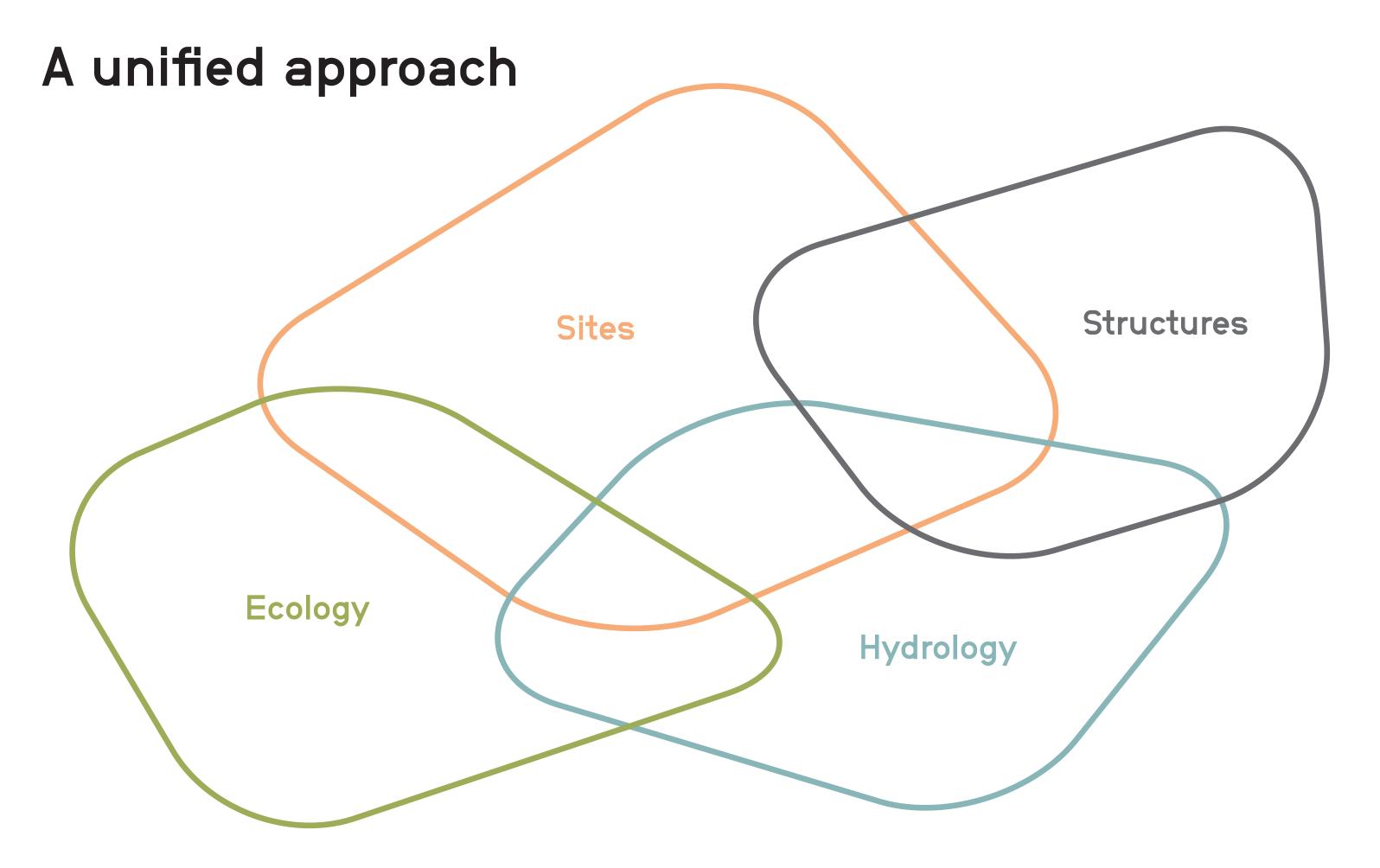
A unified approach

Landscape, architecture, structure, lighting, accessibility, art, connectivity, history...

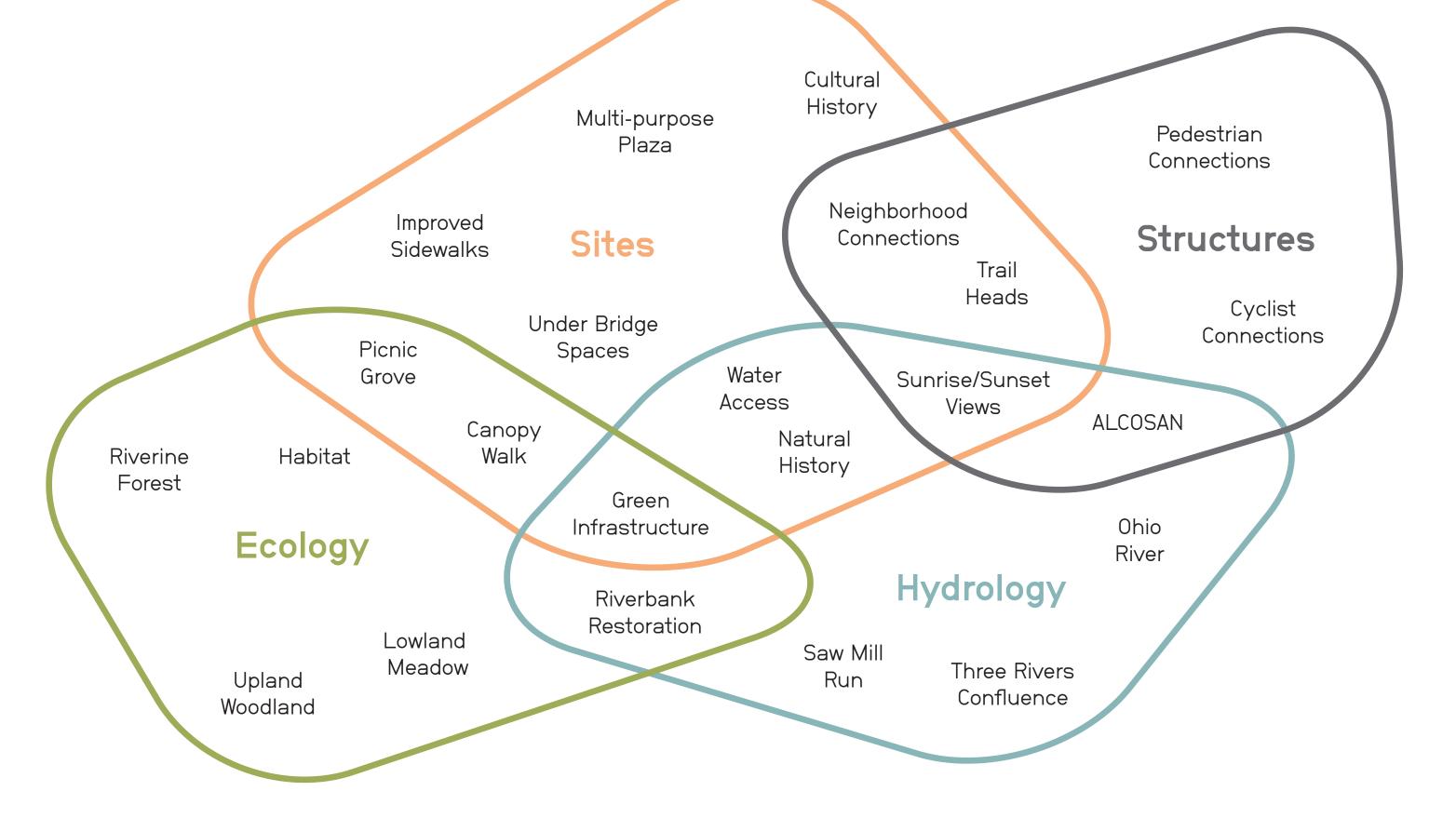
...The project brings together each of these elements into a singular approach that tells a story of Pittsburgh, it's people, it's history, and it's ecologies.



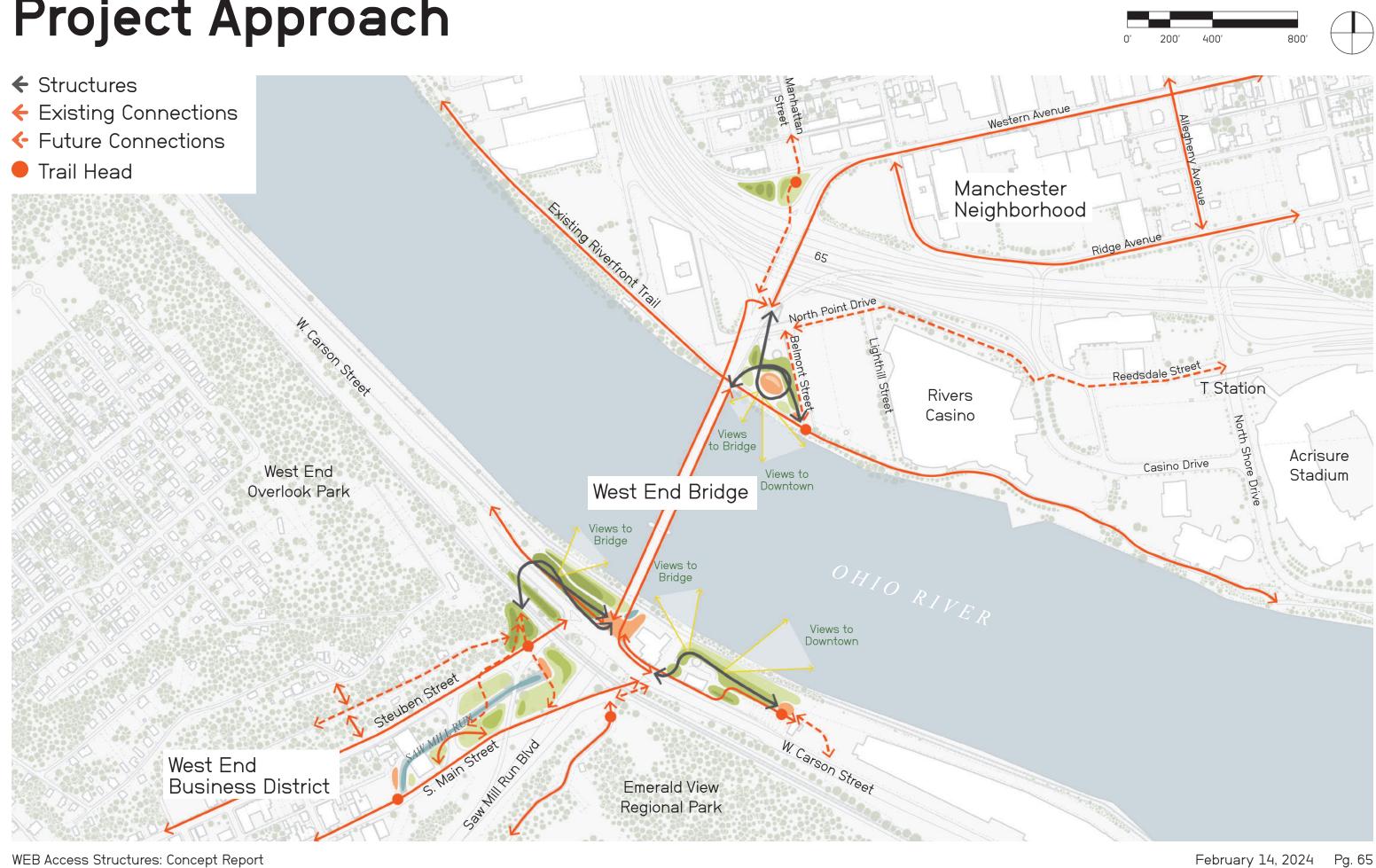




A unified approach

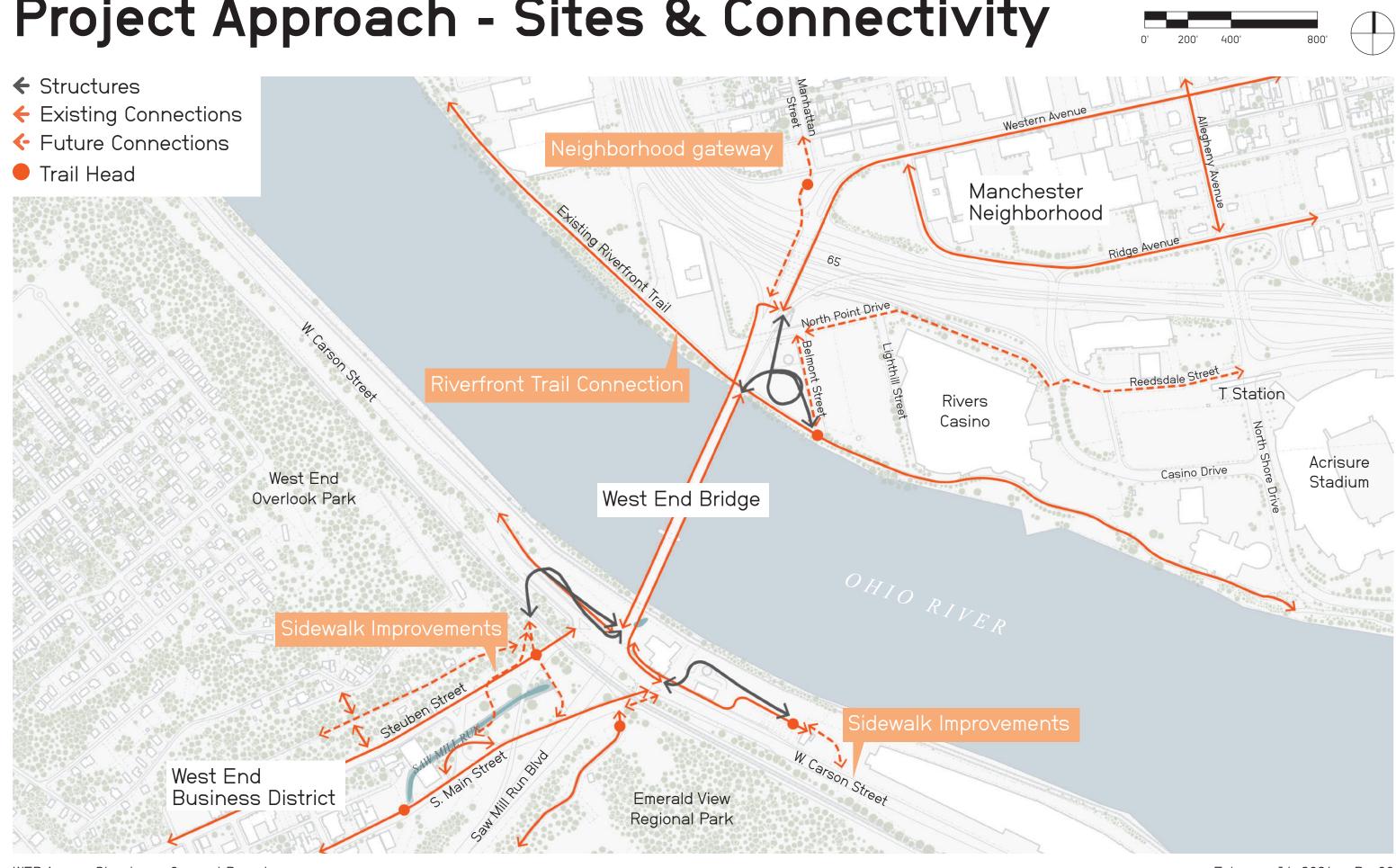


Project Approach



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Project Approach - Sites & Connectivity



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Project Approach - Site Offerings





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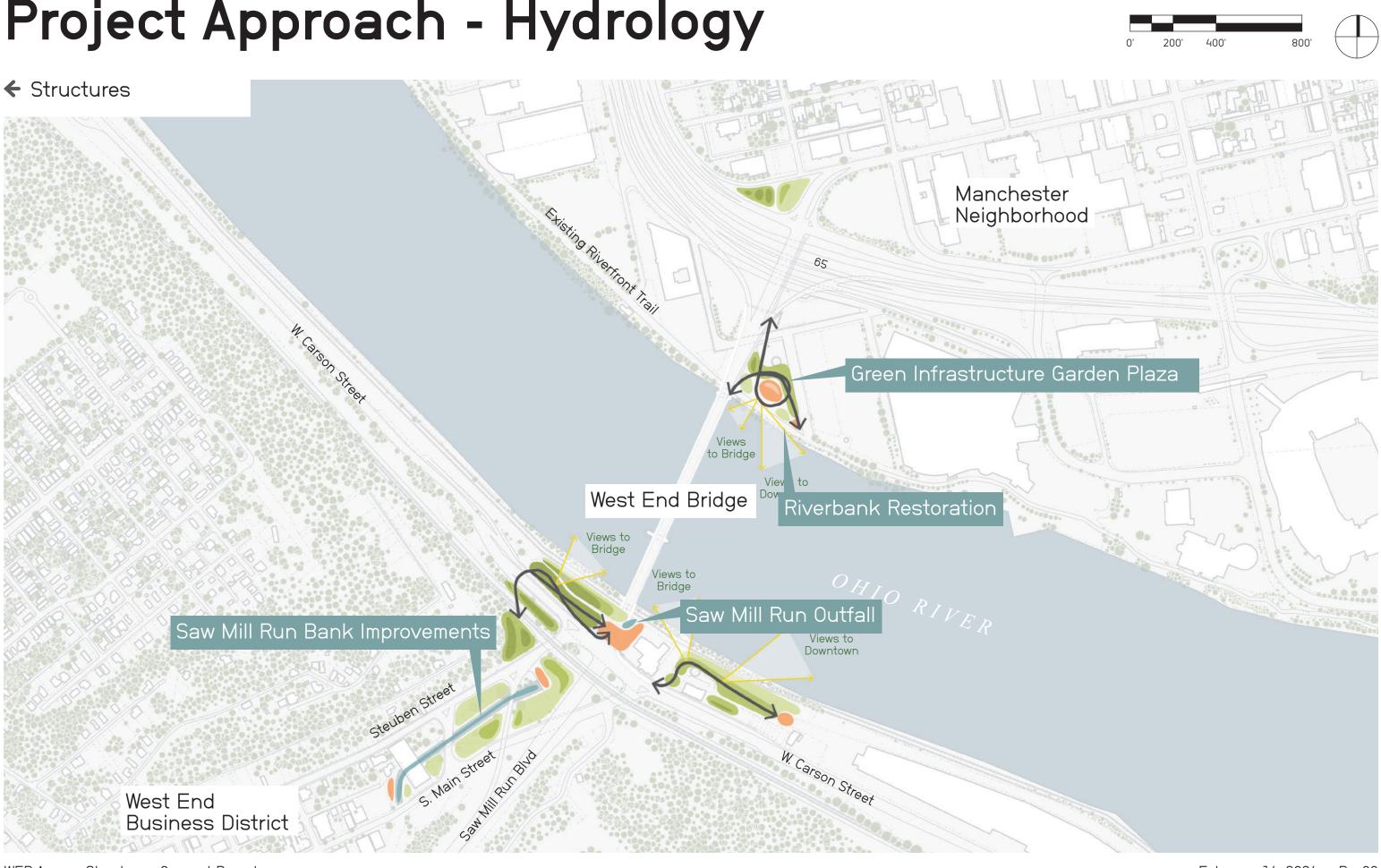
Project Approach - Ecology





Project Approach - Hydrology





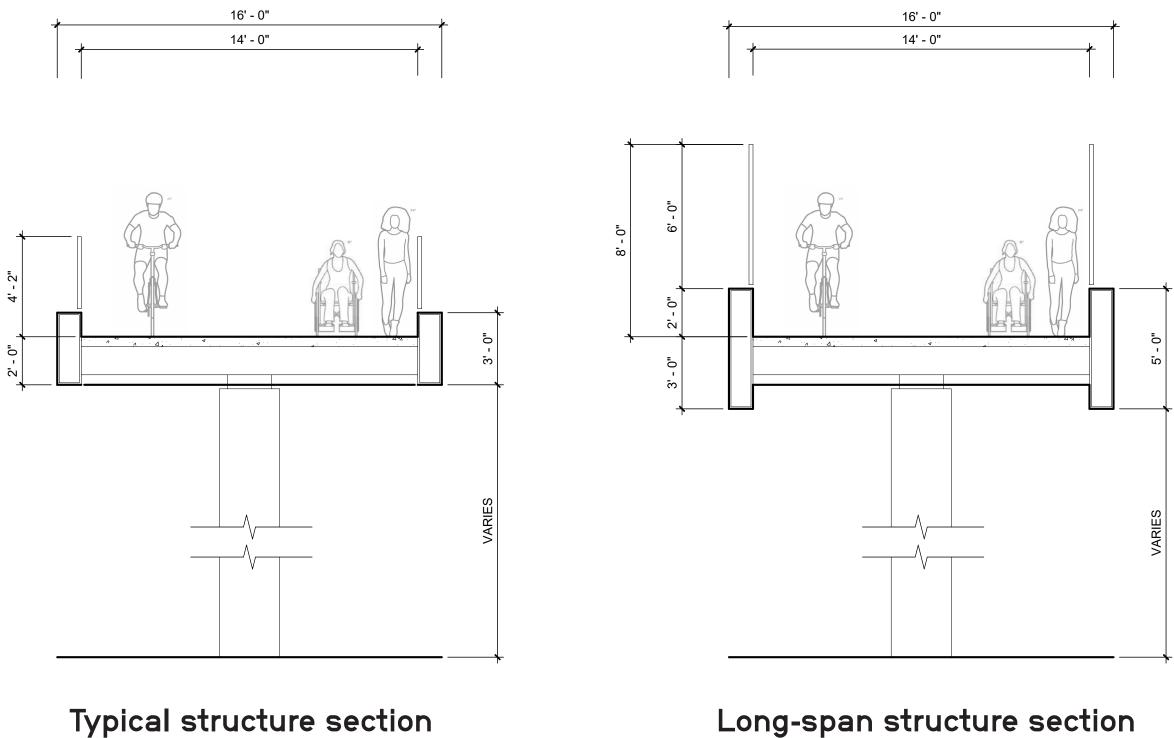
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Overall Site Plan

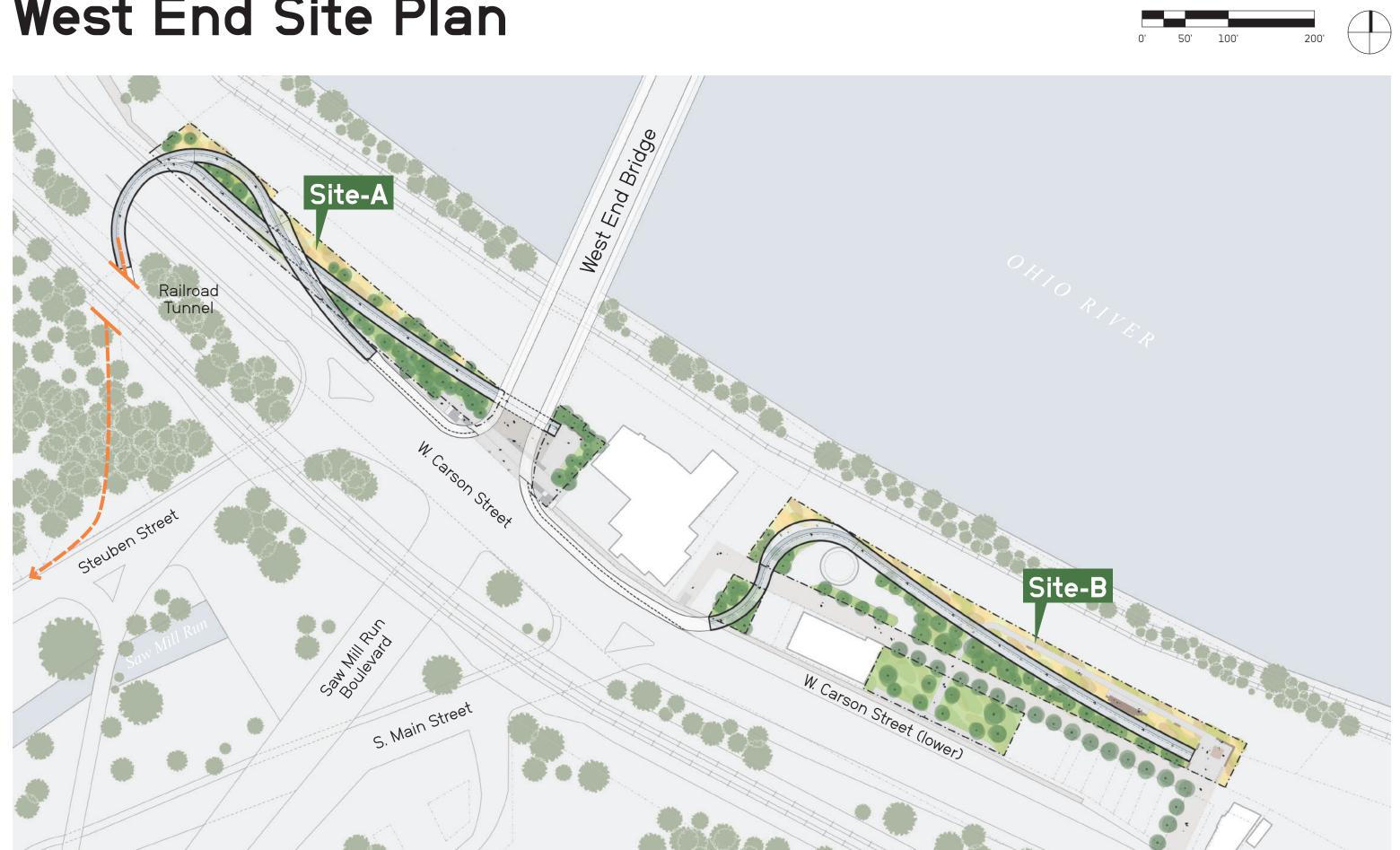


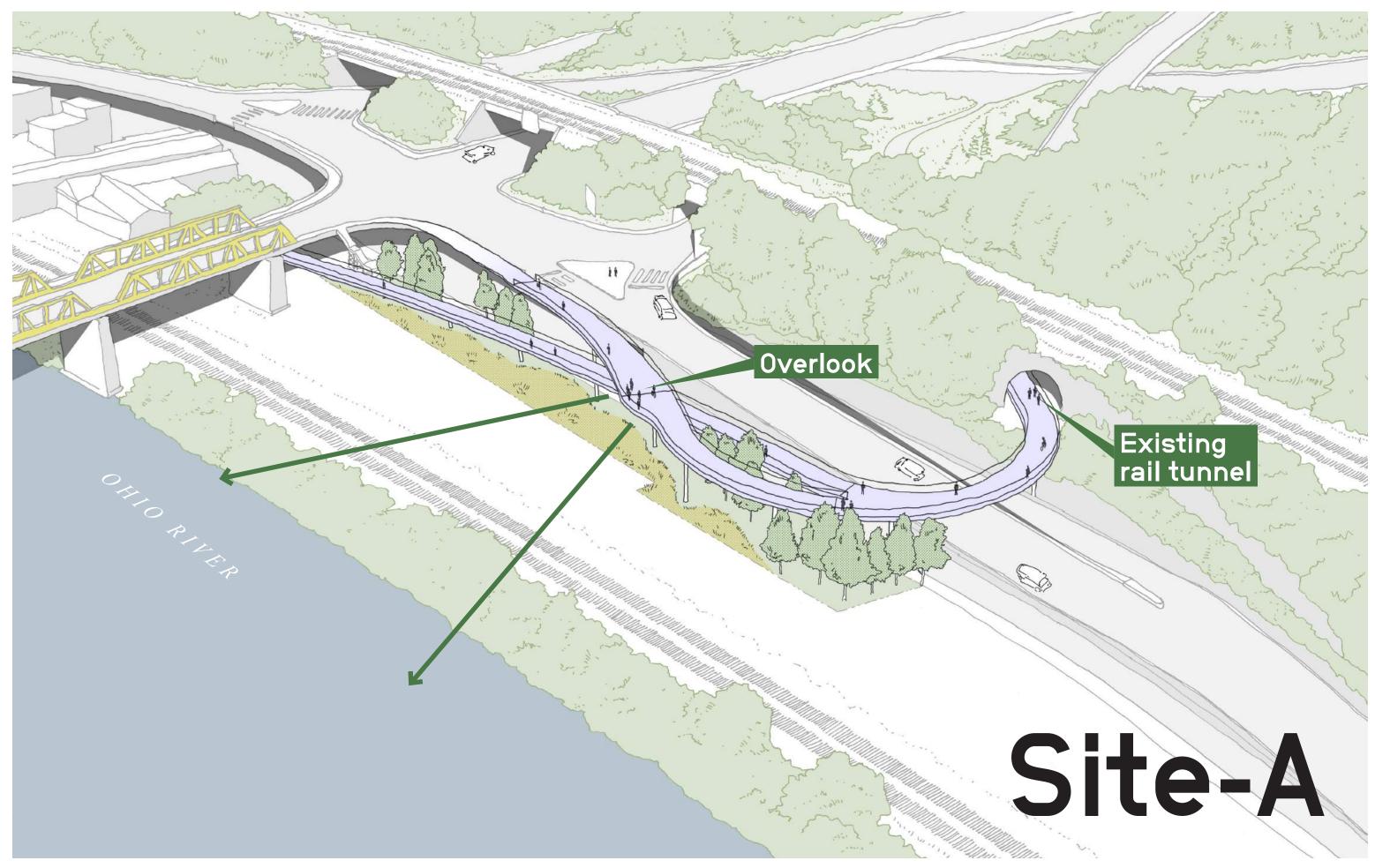
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A Shared Use Path



West End Site Plan



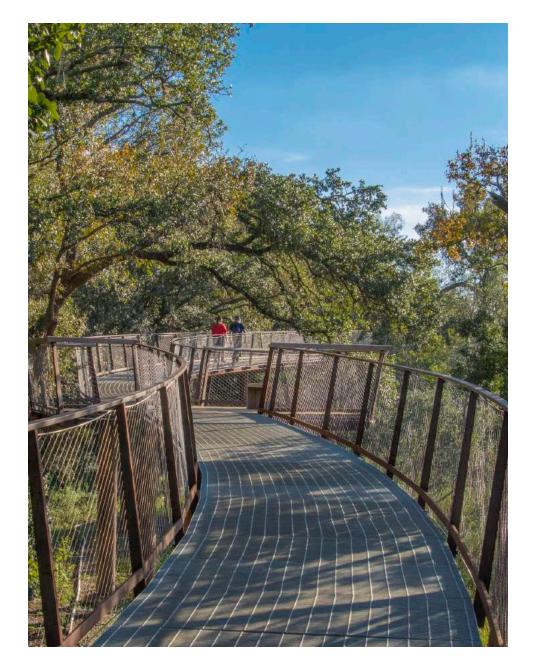


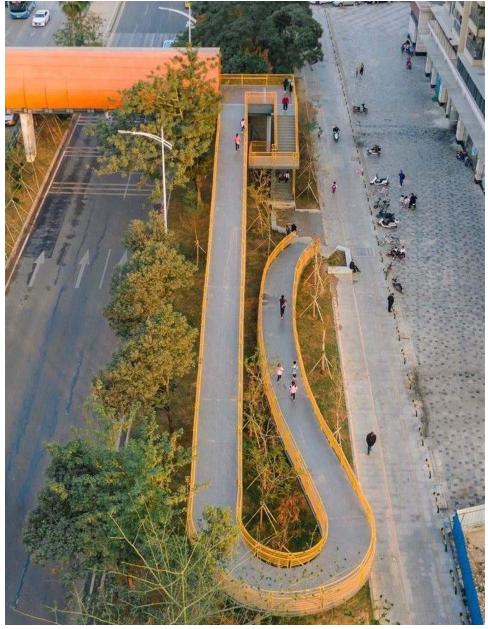
Site-A Plan



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References - Woodland Canopy

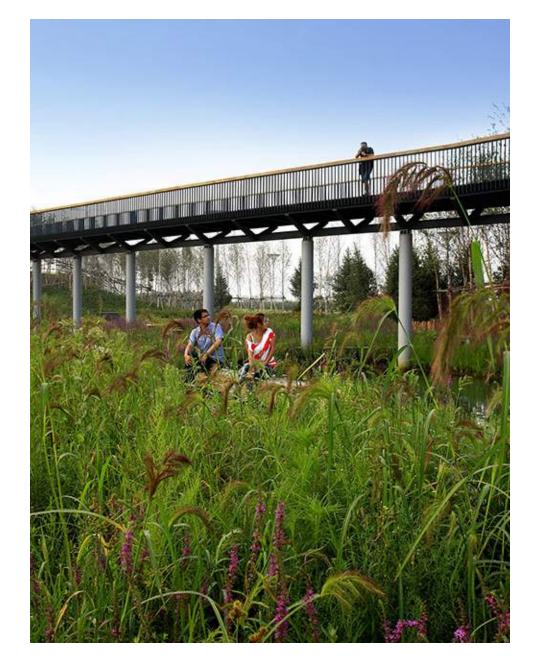




The path weaves through a canopy of woodland trees. Dense groves of trees are planted near the top of the structure to create the sense of moving through the canopy. Fewer tress along the riverfront edge allow for open views to the West End Bridge and the Point.



References - Lowland Meadow

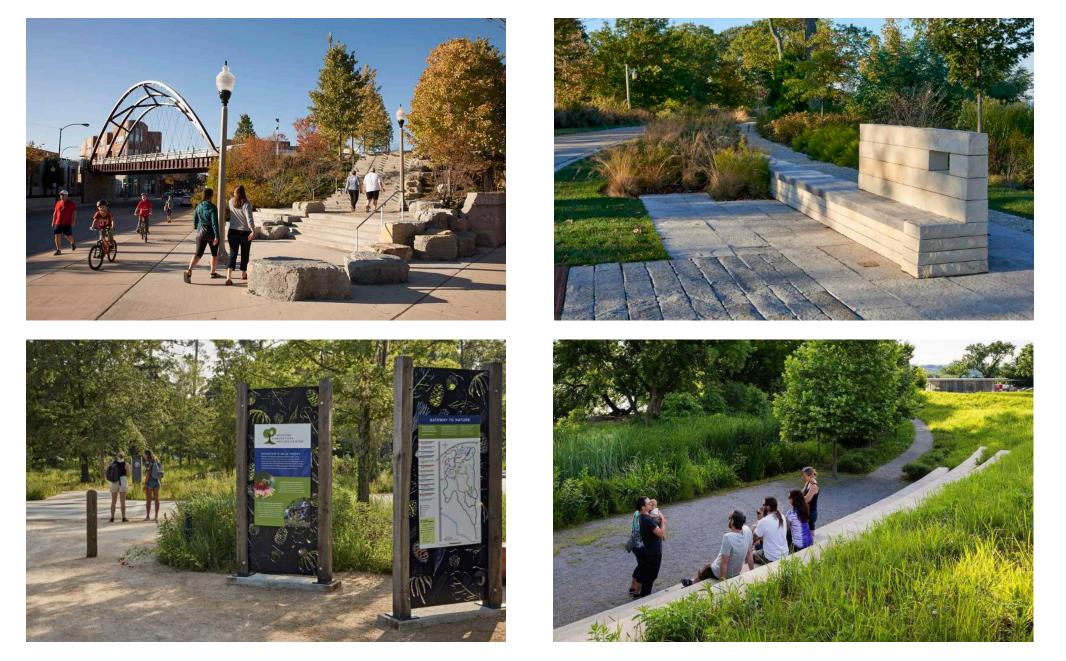




Lowland meadow planting is established on the riverfront side of the structures. The path slices through the meadow. Low planting height keeps views open toward the West End Bridge and the City.



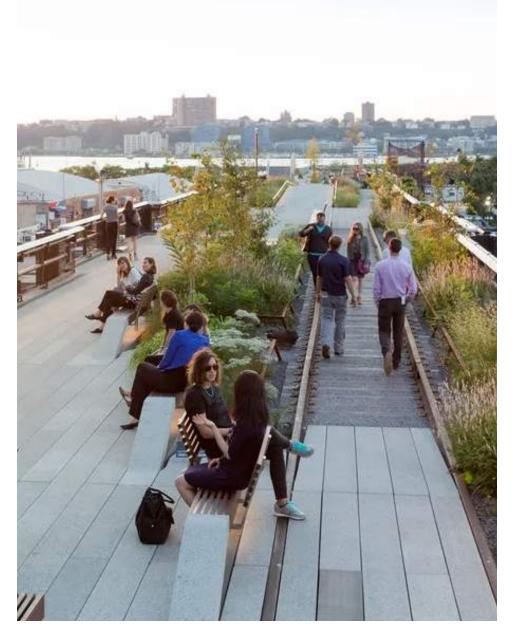
References - Trailhead Landings



Trailhead landings are the gateways to the structures. These areas provide typical trail amenities including seating, signage, litter receptacles, and bike racks.



Pedestrian Amenities



Areas of Rest

Areas for rest, featuring comfortable seating and ample shade to provide a tranquil space for relaxation and conversation, can enhance the pedestrian experience and encourage social interaction along the bridge.



Pedestrian-only paths

Pedestrian-only pathsin crease afety for walkers and joggers by eliminating conflicts with cyclists or motor vehicles. They provide a tranquil environment conducive to relaxation and recreation, promoting healthier lifestyles.



Shared Paths

Shared bike and pedestrian paths into the bridge ramp structure project promotes multimodal transportation, fostering interaction, connectivity and accessibility for both cyclists and pedestrians.

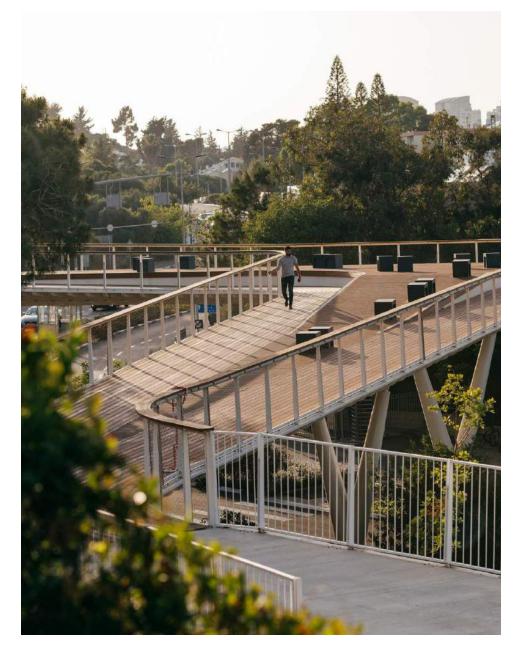
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Pedestrian Amenities



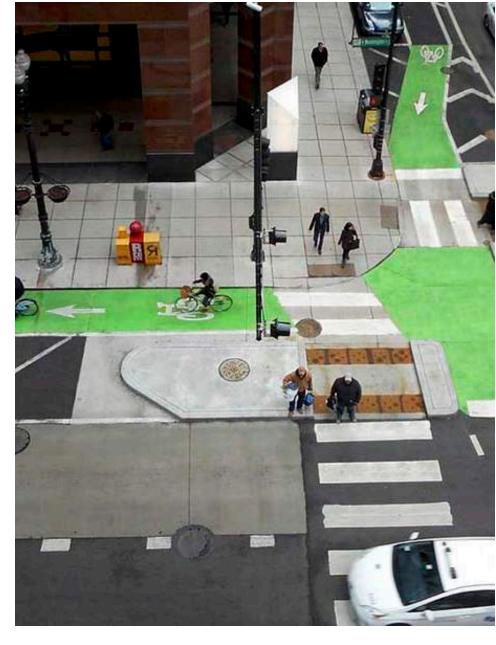
Spiral Ramps

Spiral ramp structures provide a gradual incline, making them more accessible for users with mobility challenges. Their aesthetic appeal and unique design calso creates a visually striking element in the urban landscape.



Linear Paths/Stairs

Linear paths/stairs offer straightforward navigation and efficient use of space, providing clear directional guidance for pedestrians and cyclists, enhancing safety and accessibility.



Pedestrian crossings provide direct and safe routes across busy roadways or intersections. Their designated pathways enhance pedestrian safety and accessibility, reducing the risk of accidents and improving traffic flow.

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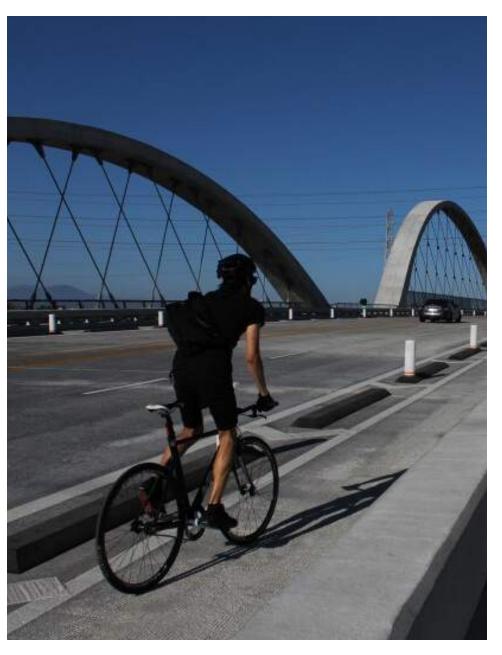
Pedestrian Crossings

Cycling Amenities



Shared Bike/Ped Paths

Shared paths can improve safety by increasing awareness and visibility among different users. They also promote social interaction and can foster a sense of community.



Dedicated bikeways

Dedicated bikeways offer enhanced safety and efficiency for cyclists, reducing conflicts with pedestrians and accommodating higher speeds. They encourage more people to choose cycling as a mode of transportation.





Spiral bike ramps provide smoother transitions and easier navigation for cyclists compared to linear ramps with harsh angles. They enhance accessibility, and contribute to a safer and more enjoyable biking experience overall.

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Bike Ramp

Cycling Amenities



Bike Parking

Bike parking facilities are a critical element to support cycling. Parking facilities encourage increased use of bike usage and supporting healthier and more active lifestyles.



Bike Share Station

Bike sharing stations offer easy access to bikes for short-term use, providing an affordable and flexible transportation option for local residents and visitors. When part of a larger network of bike sharing, these stations connect disconnected areas of the city.



network.

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Bike & Ped Crossings

Bike and pedestrian-only intersections prioritize the safety and convenience of cyclists and pedestrians by providing designated crossing points, designating who has the right in a bike and pedestrian

Toolkit

Visual Calming

Ped Symbols



Speed Calming

Bollards





Flexible Delinator

Bike Symbol



Tactile Pavers

Yield Markings

Cobbled Pavers

Zebra Crossing

Textured Pavers





Management

Plant Trimming



Trail User Count



Bike Signals



Consolidated Crossings



Visual Narrowing



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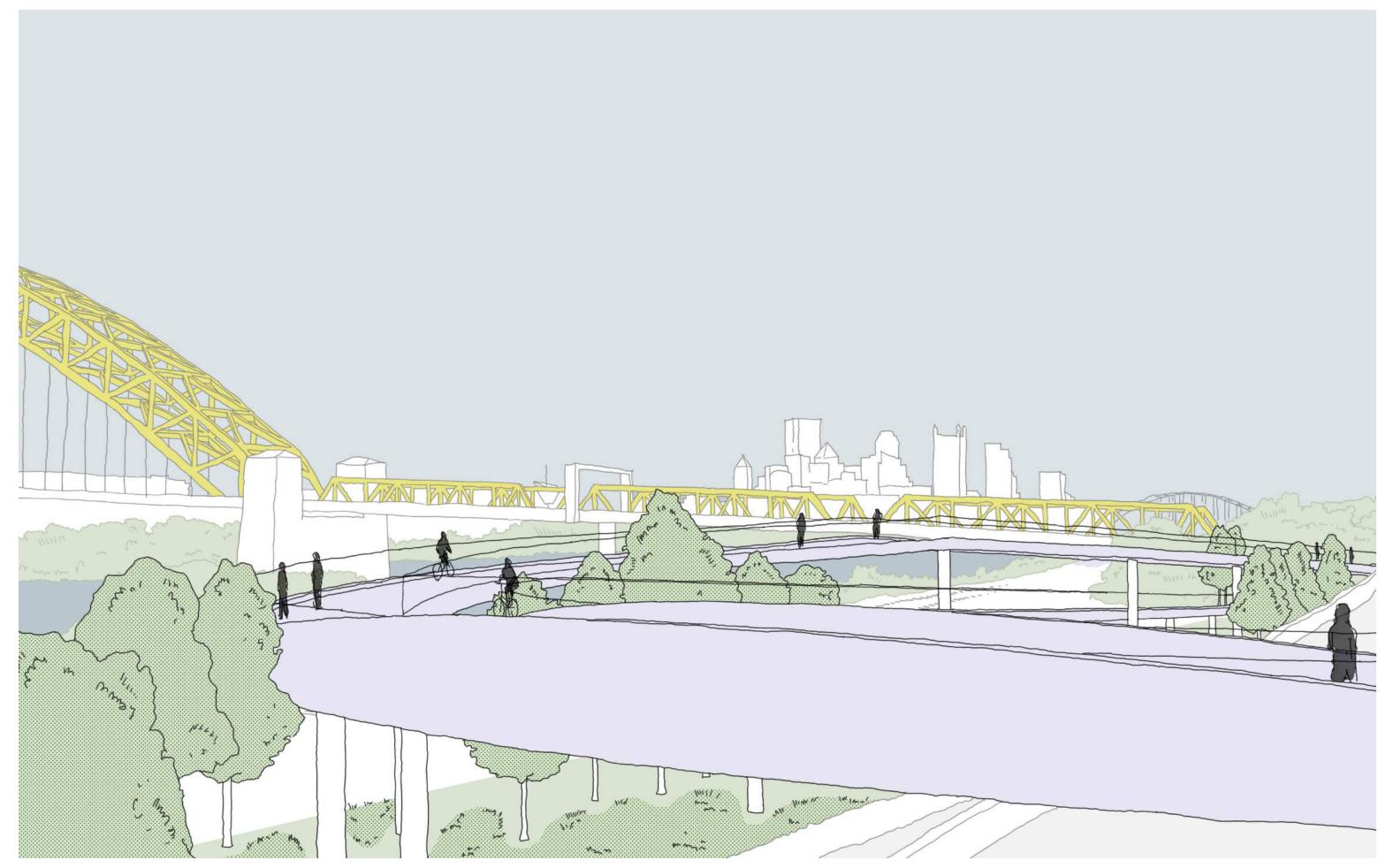


Diamond Markings

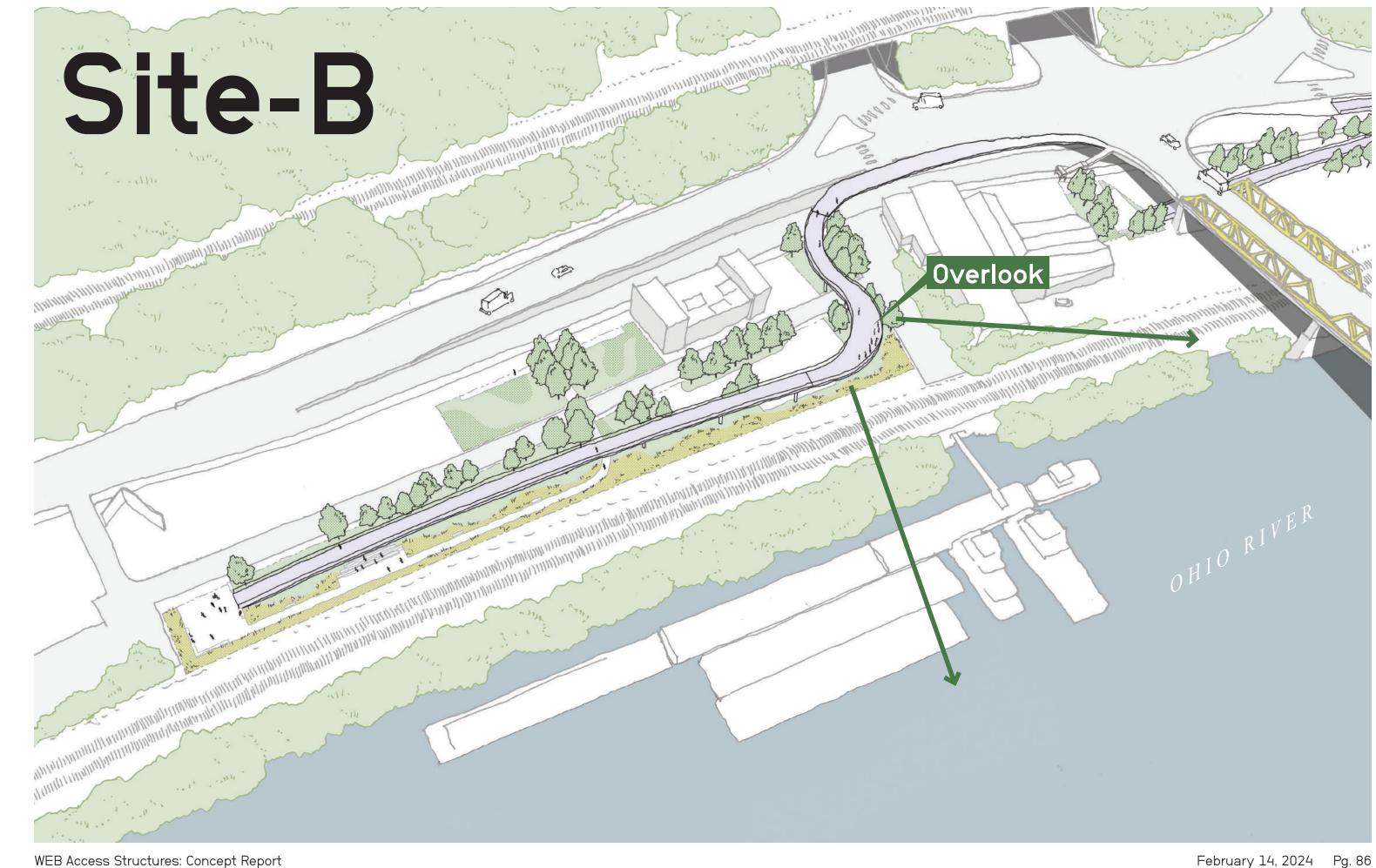


Textured green paint



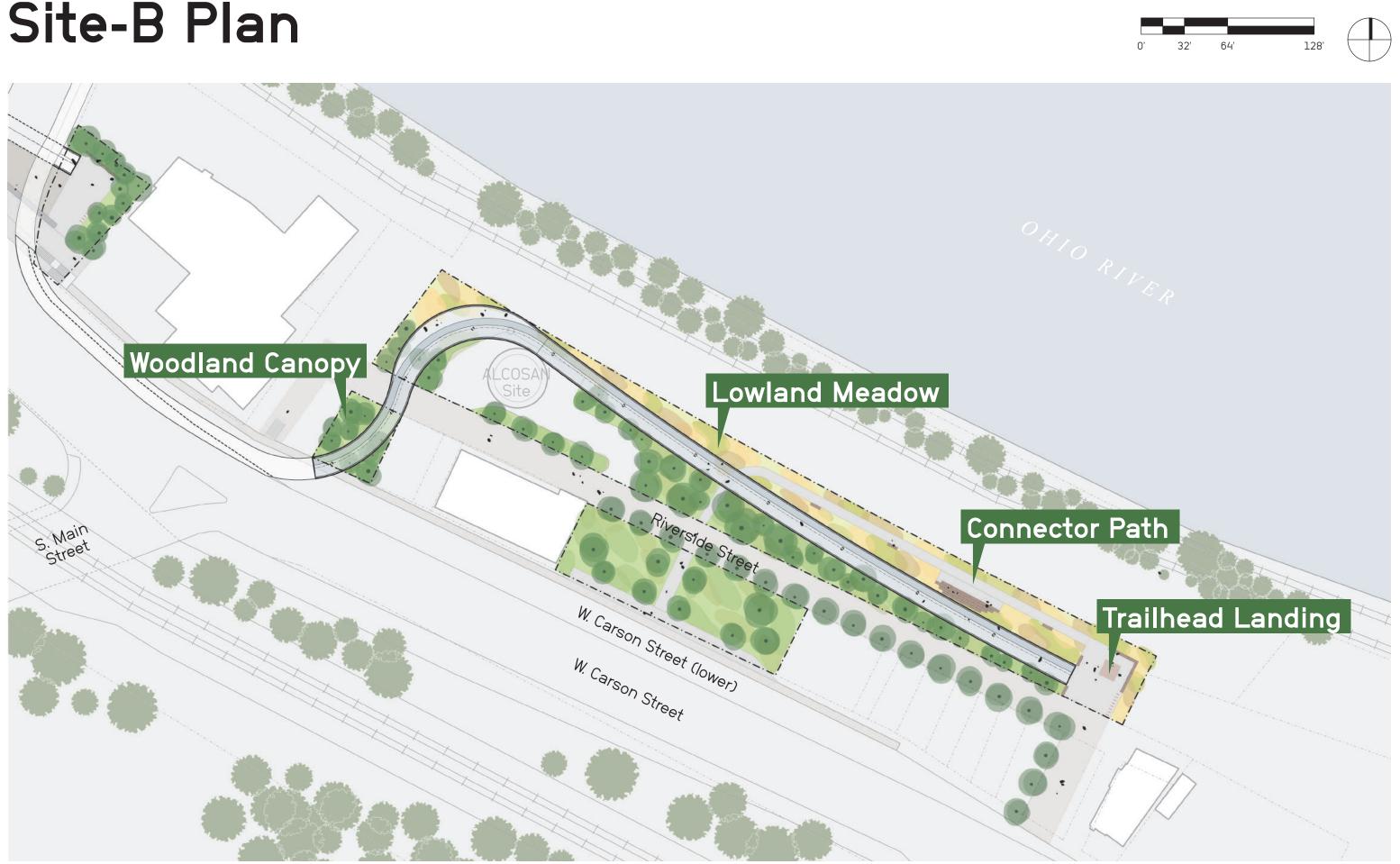


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Site-B Plan

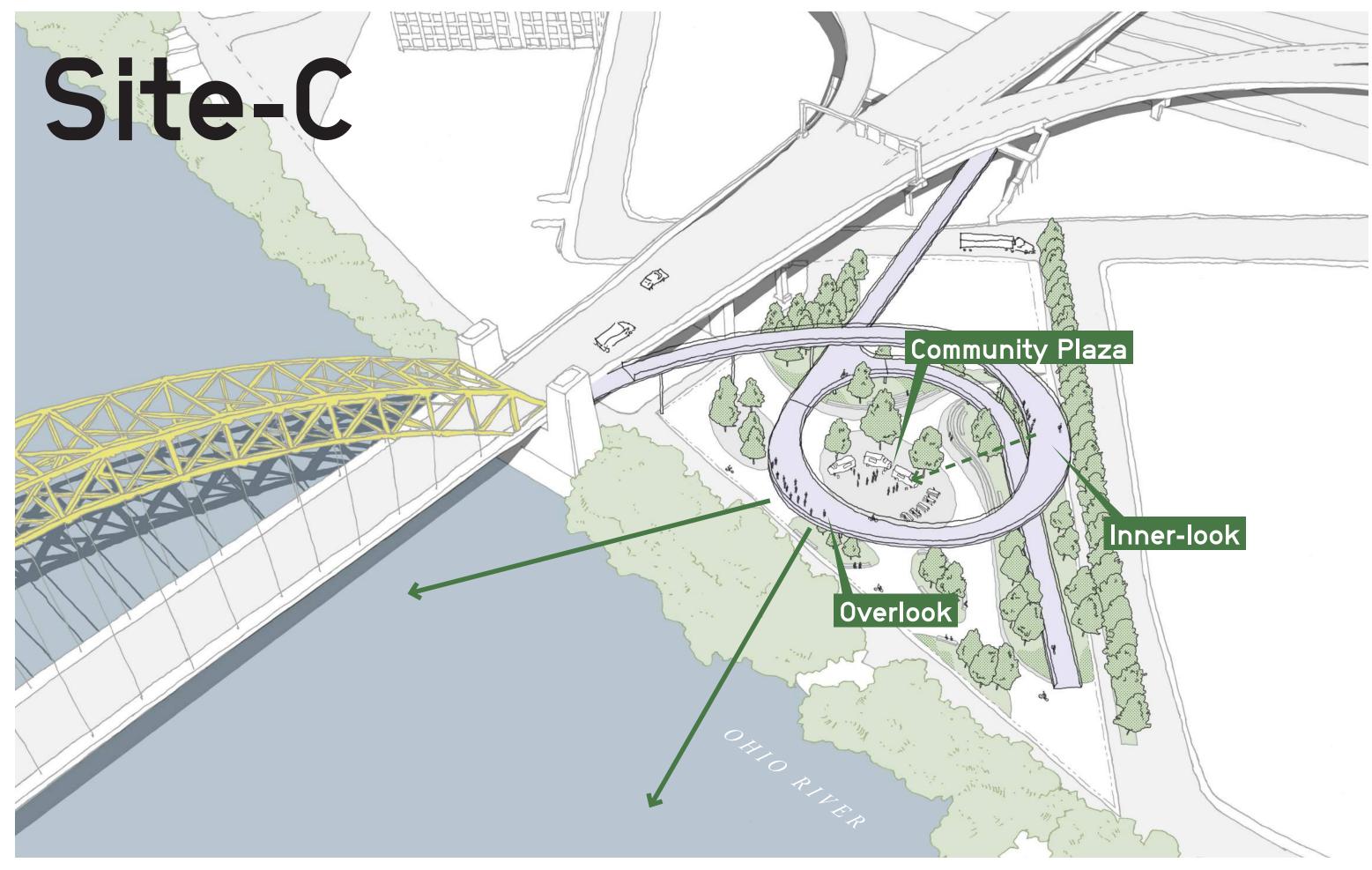




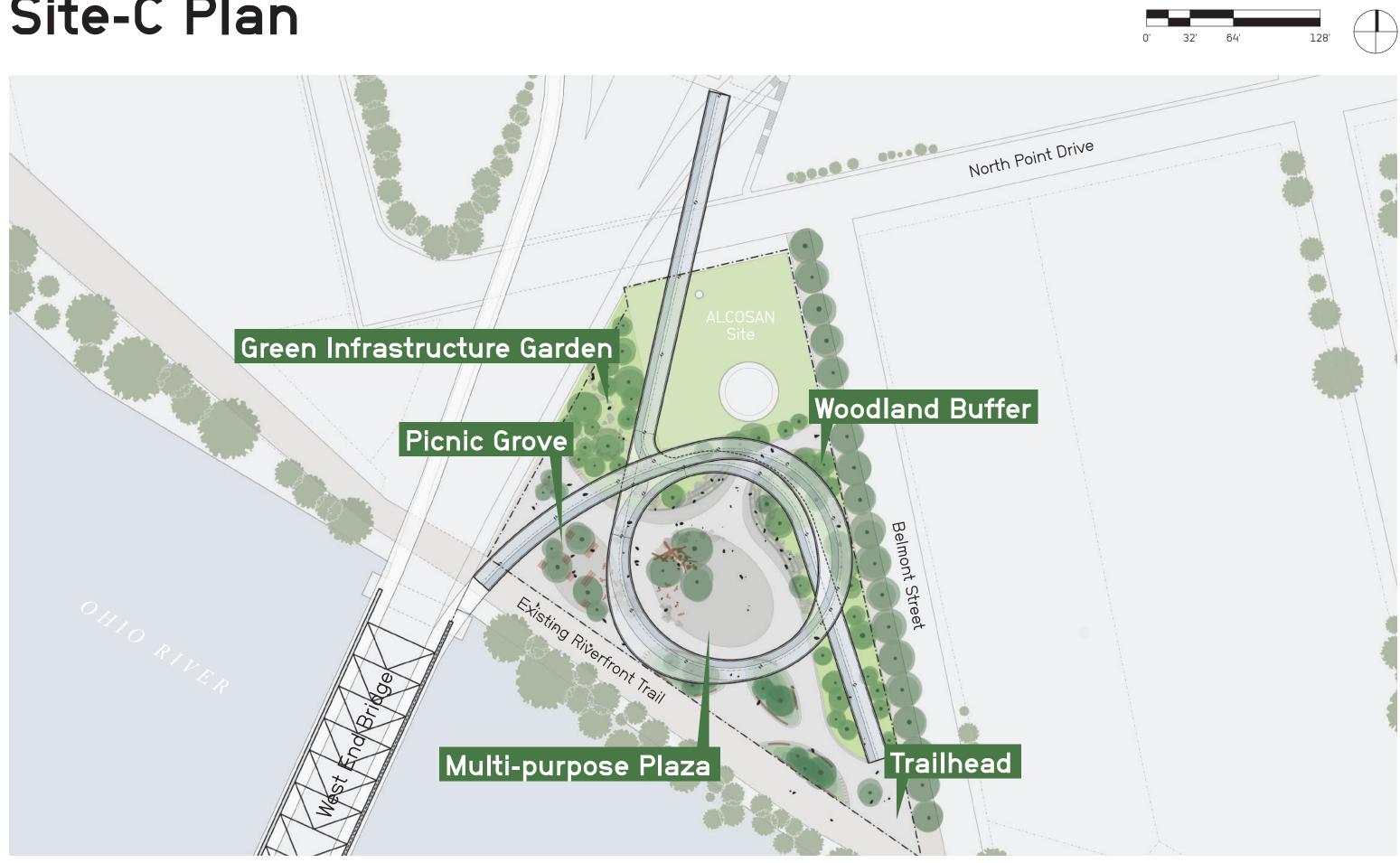
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Manchester Site Plan



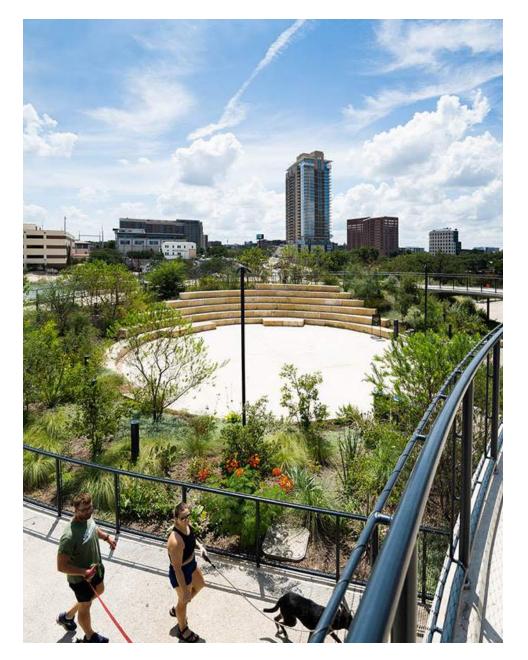


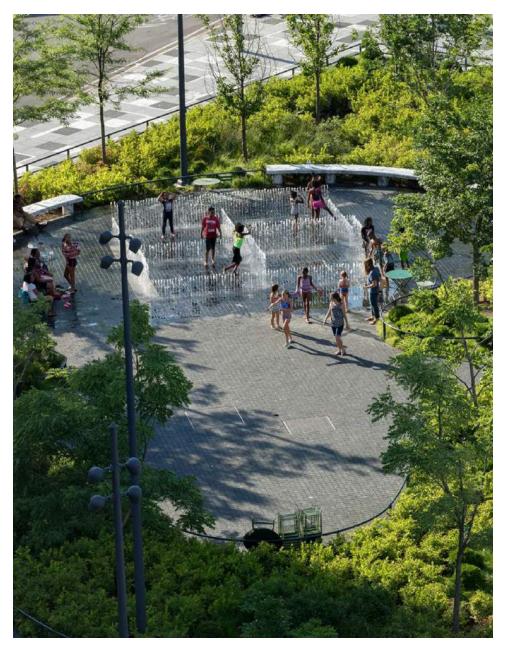
Site-C Plan



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Multi-purpose Plaza

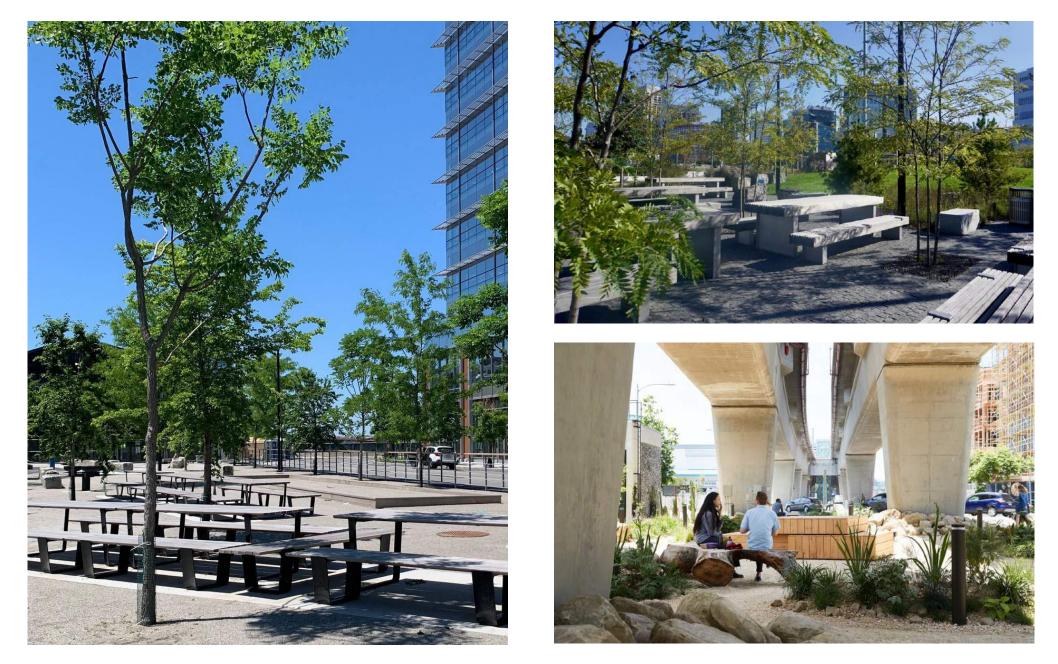




A multi-purpose plaza is designed as the communal gathering space along the riverfront. Open, flexible space allows for a diversity of community-based activities. Stepped seating integrated into the topography creates elevated views of the riverfront, the structures, and the plaza.



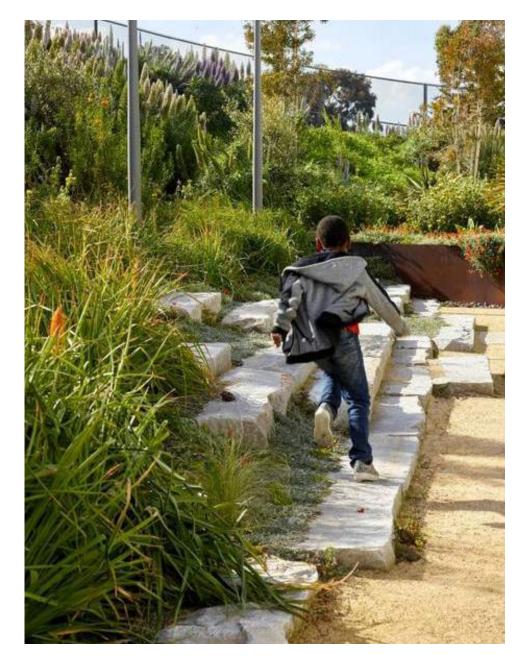
Picnic Grove



An smaller-scaled gathering grove is designed as an alternative space to the larger multi-purpose plaza. The grove includes group seating under the shade of native vegetation. The space is located near parking under the West End Bridge for easy access and potential for food truck hook ups.



Woodland Buffer



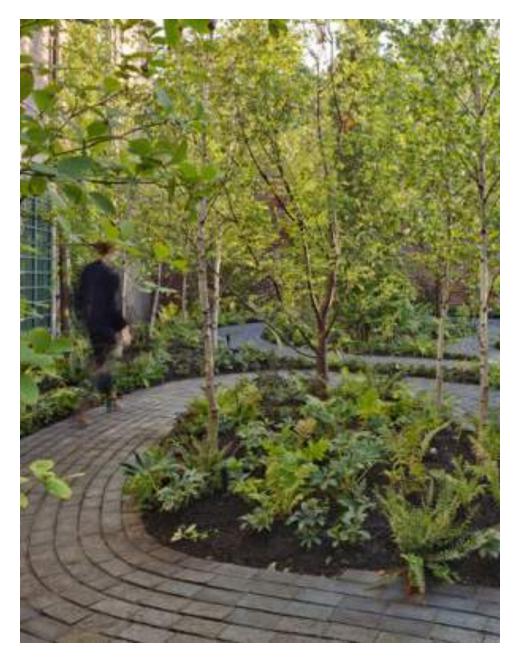


The woodland buffer provides a backdrop to the multi-purpose plaza with slightly elevated topography, native plantings, and stepped seating.



Green Infrastructure Garden

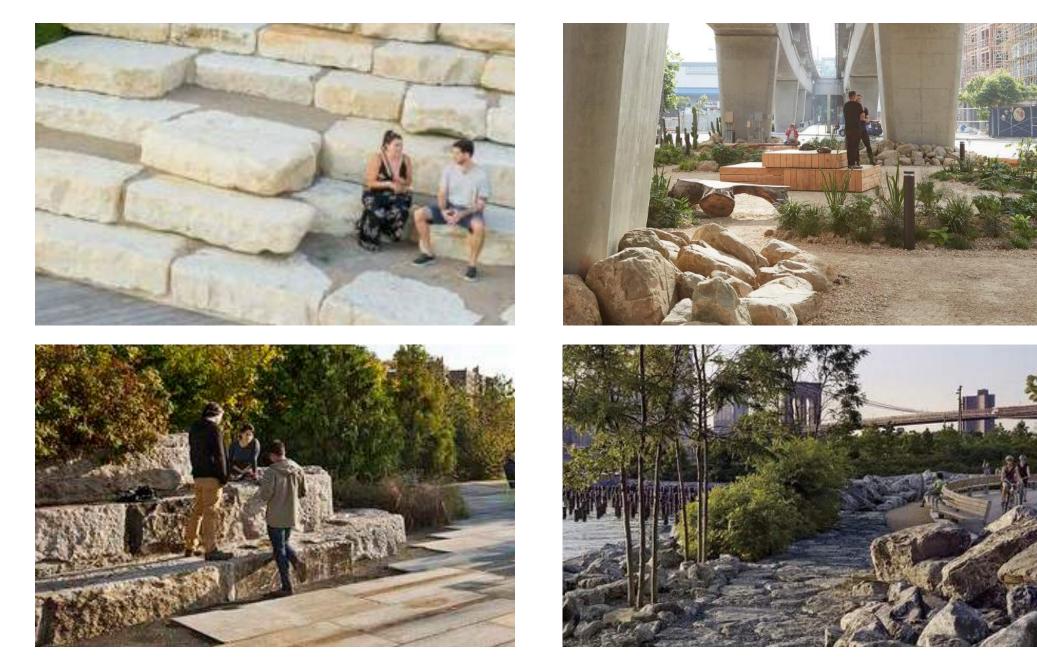




The green infrastructure garden creates space for visible stormwater management. Smaller-scaled paths, educational signage, and native planting are designed to tell the story of stormwater management and riverine flows on site.



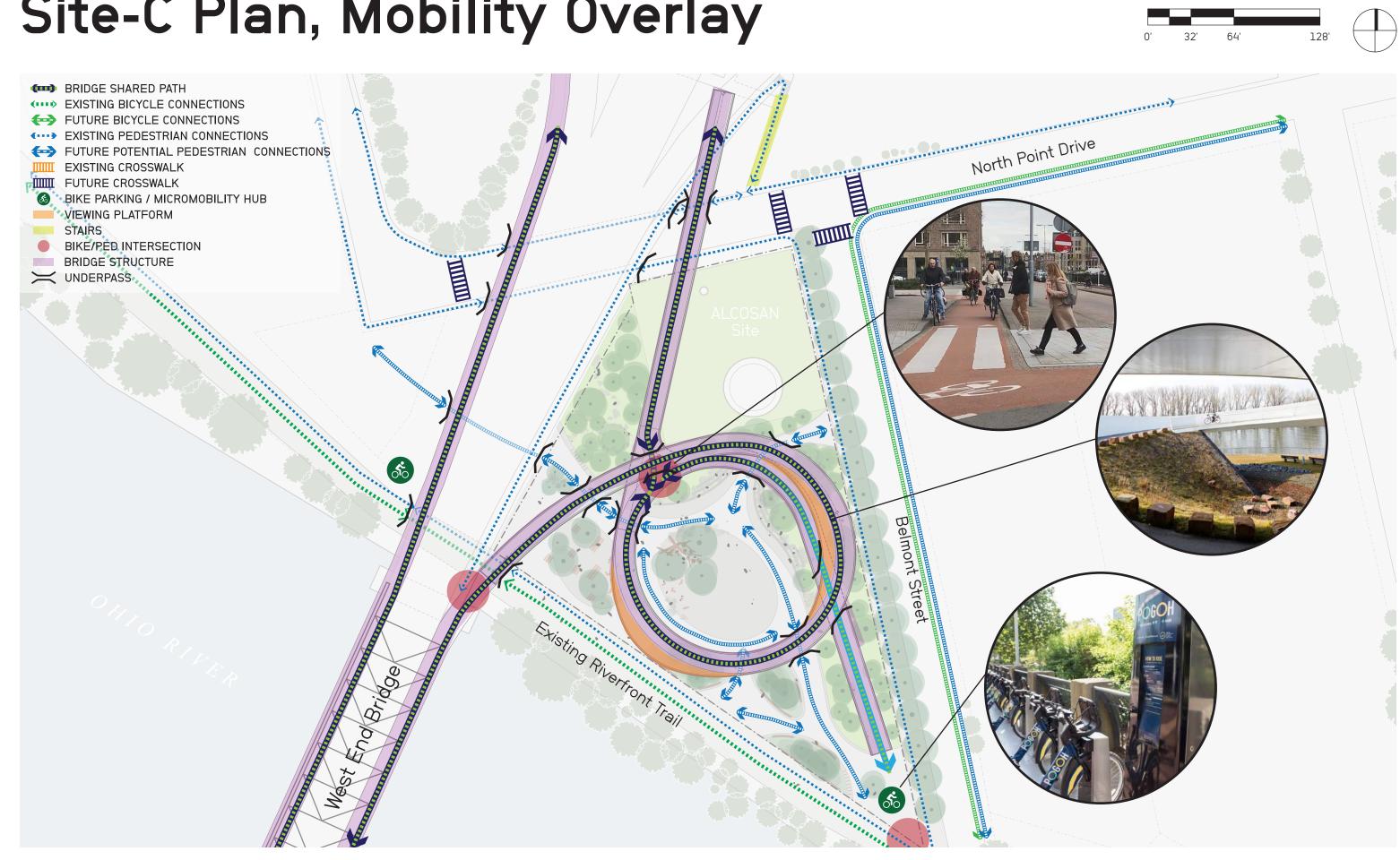
Materials



Inspired by Pittsburgh's riverbanks, water flow, sediment deposits, and local stone, the material palette incorporates large stone blocks, boulders, exposed aggregate paving, stone dust, and logs.



Site-C Plan, Mobility Overlay





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February 14, 2024 Pg. 99

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