















- Seattle Design Commission Ballard Pump Station
- 5425 Shilshole Avenue Northwest
- SDCI Building Permit No. 6715316
- November 19, 2020

This project is funded in part by the Washington State Department of Ecology and Environmental Protection Agency through State Revolving Fund and Water Infrastructure Finance and Innovation Act loans



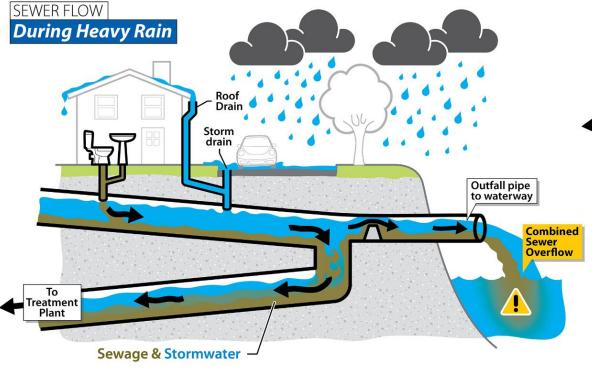


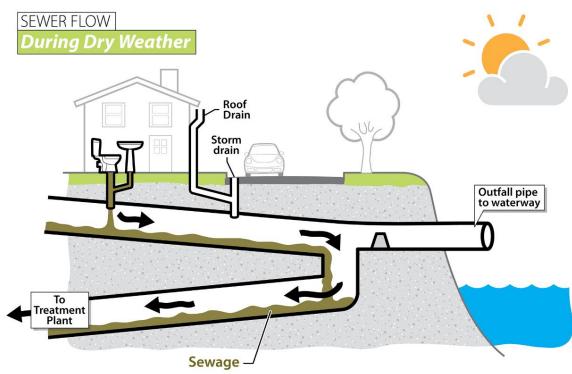


Agenda

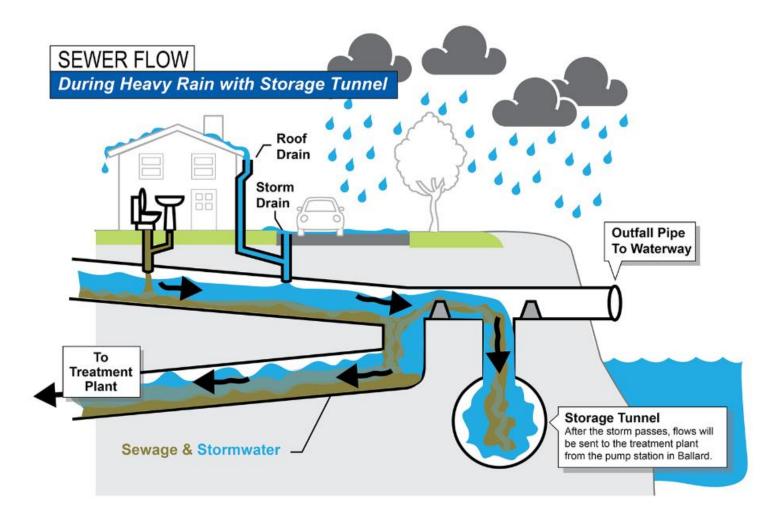
- Program overview
- Outreach and engagement
- Equity
- Site and Landscape design
- Public Art

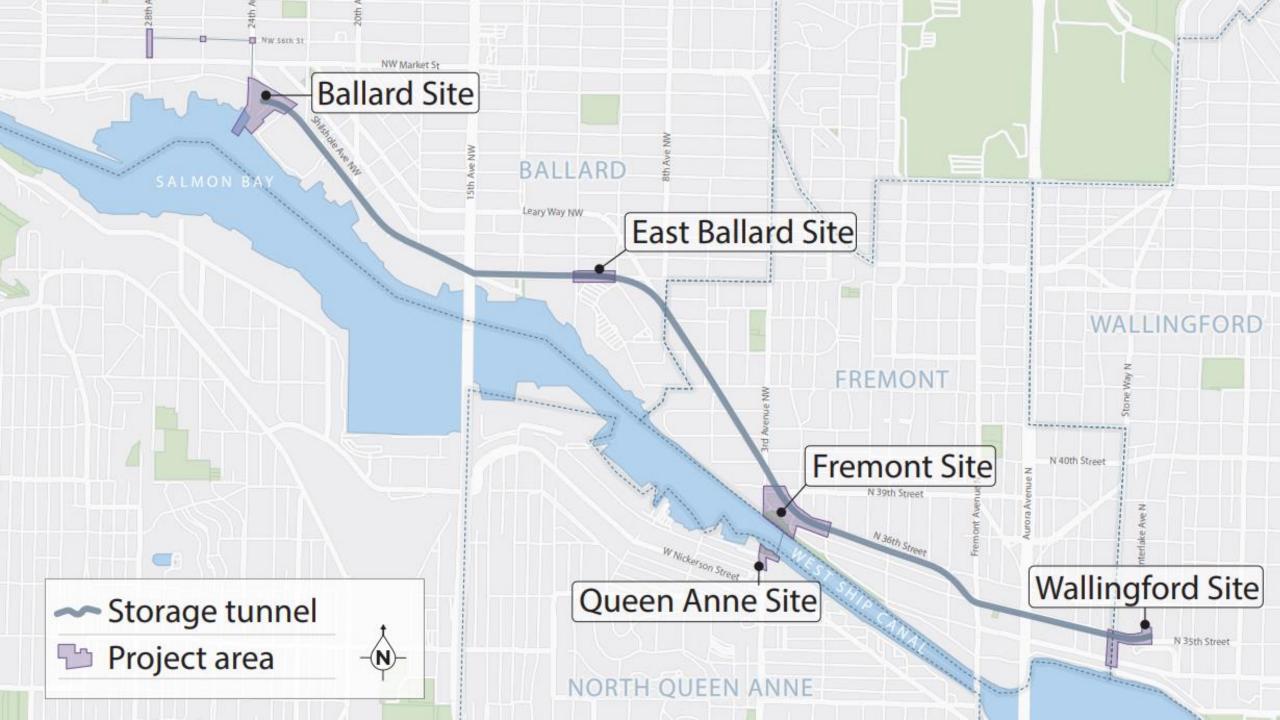
Combined Sewer Overflows

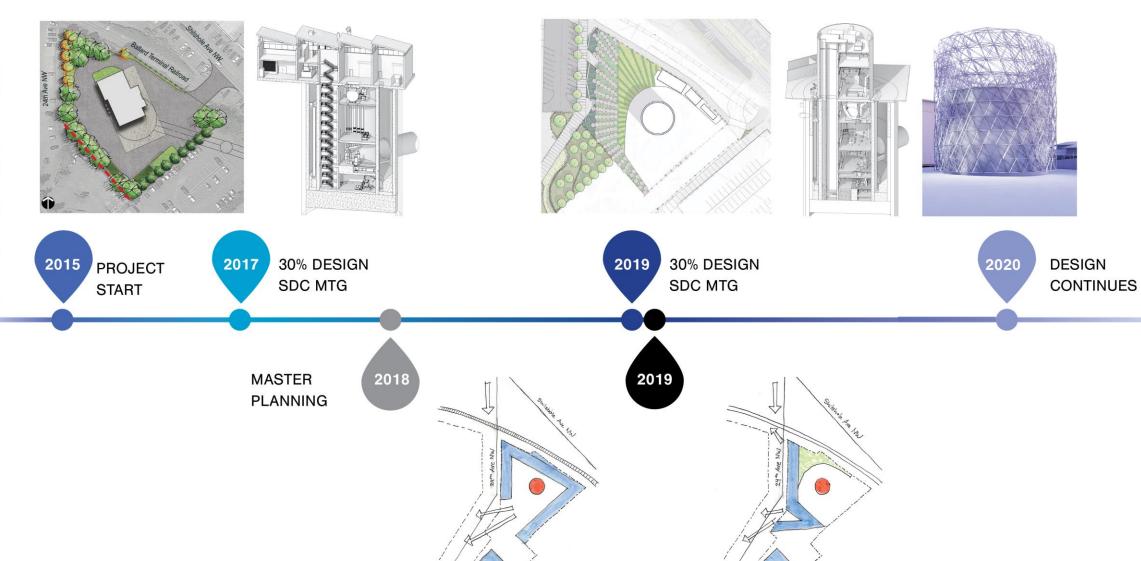




How a tunnel helps







DESIGN COMPLETE

CONSENT DECREE DEADLINE



CONSTRUCTION START





CONSTRUCTION COMPLETE

CONSENT DECREE DEADLINE





POTENTIAL OVERALL BALLARD SITE DESIGN



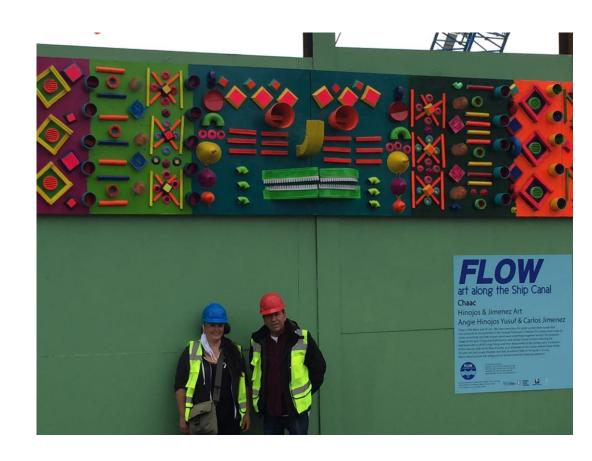
Outreach and Engagement

- 24th Avenue survey + drop in session
- Ballard District Council
- Maritime businesses
- Friends of Street Ends
- Groundswell NW
- Friends of Ballard Waterfront Park
- Future outreach
 - Street end
 - Interpretive elements
 - Lighting



Equity

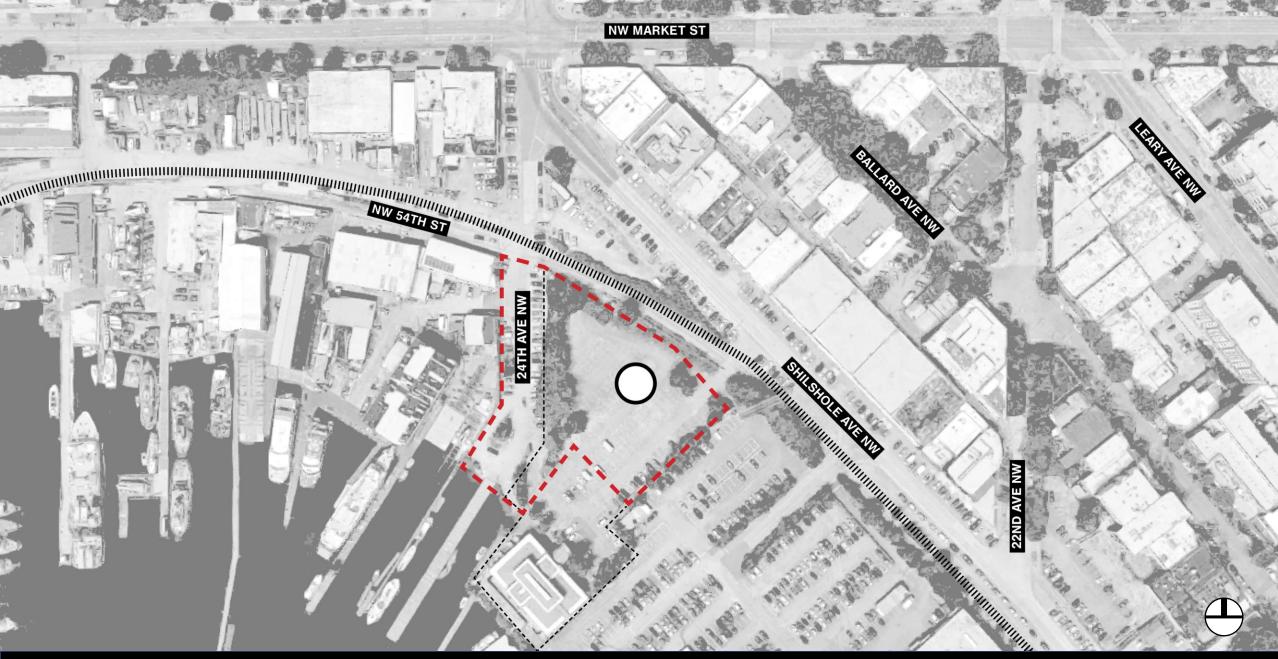
- Interpretive services available as needed
- WMBE firms 23.4%
- Localized construction outreach
 - Beyond single family residences
 - Community coordination with people experiencing homelessness
- SPU property hosted RV community prior to SCWQP
- Elevation of BIPOC artists through FLOW temporary art installation
- Coast Salish artwork honors Shilshole village and celebrates Native Americans place in Seattle
- Regional engagement (beyond project area) on public relations work



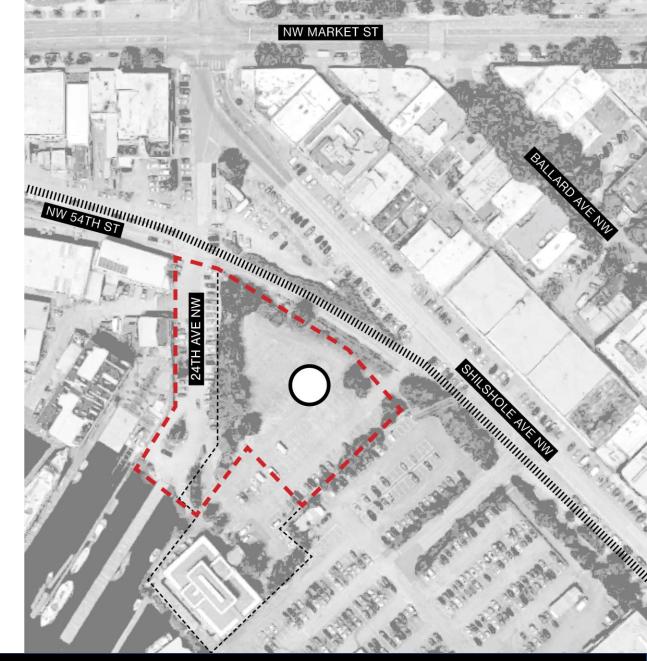
Sustainability

- Envision certification
- Sizing for resiliency
- Design elements
 - Switched from natural gas-powered to electric
 - Temporary elements
 - Urban tree farm
 - Phytoremediation
 - Green stormwater infrastructure

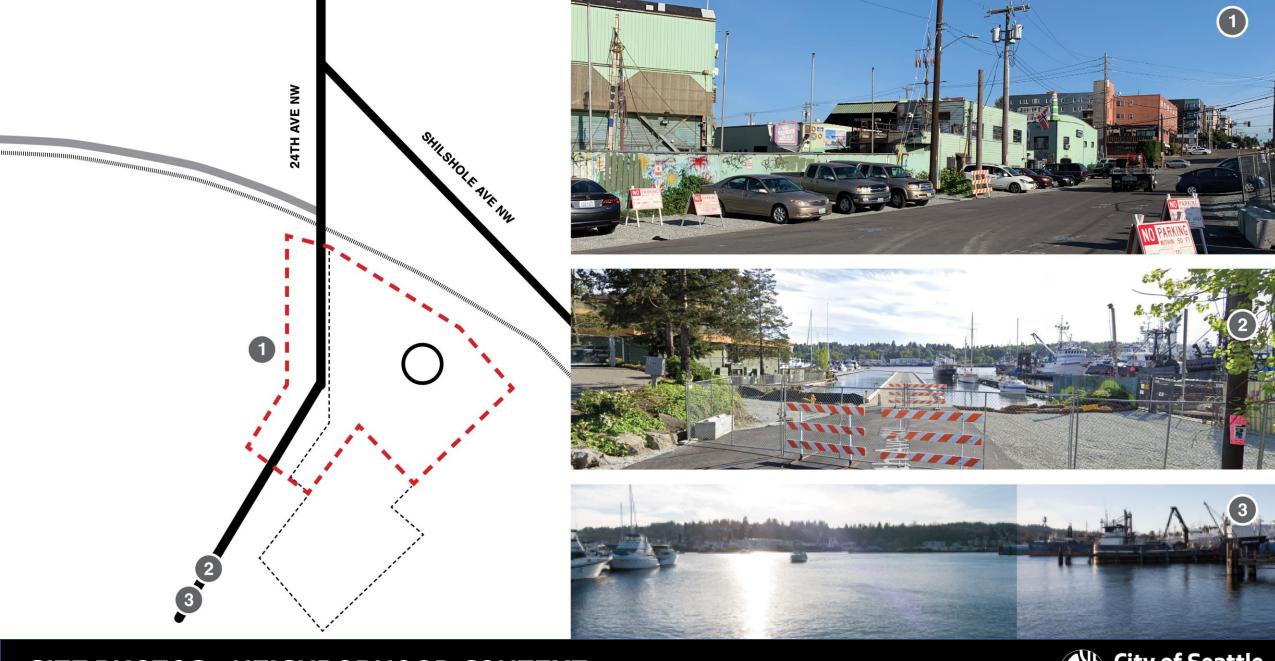


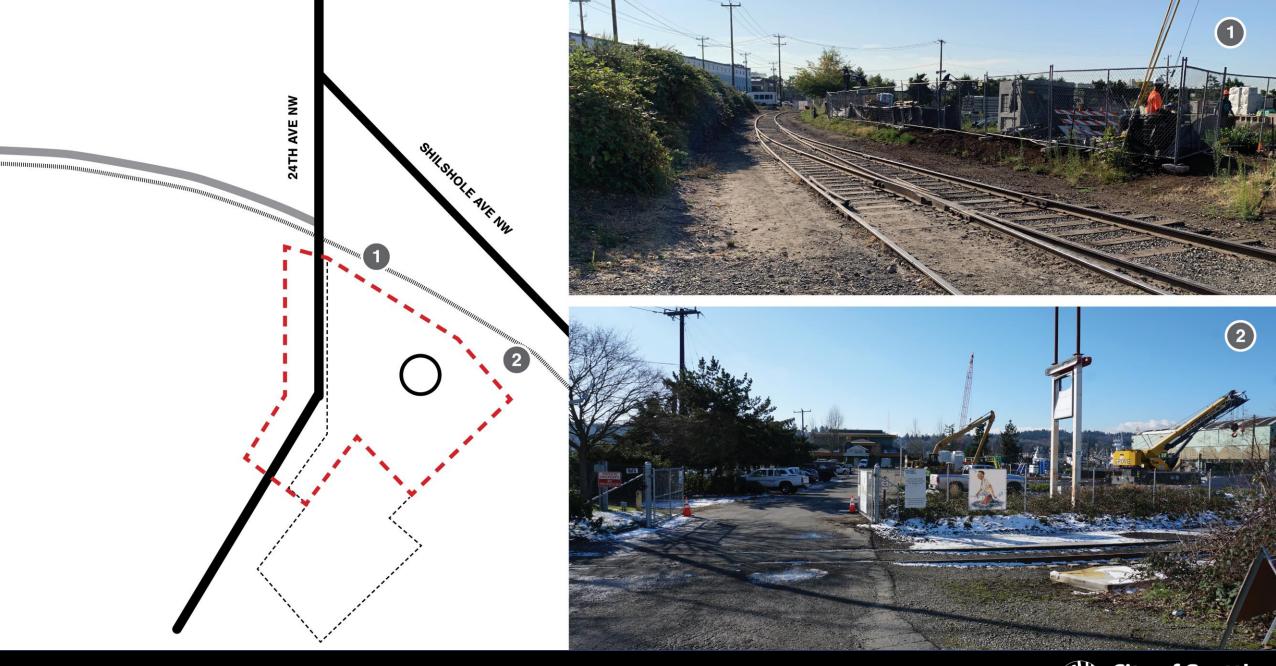


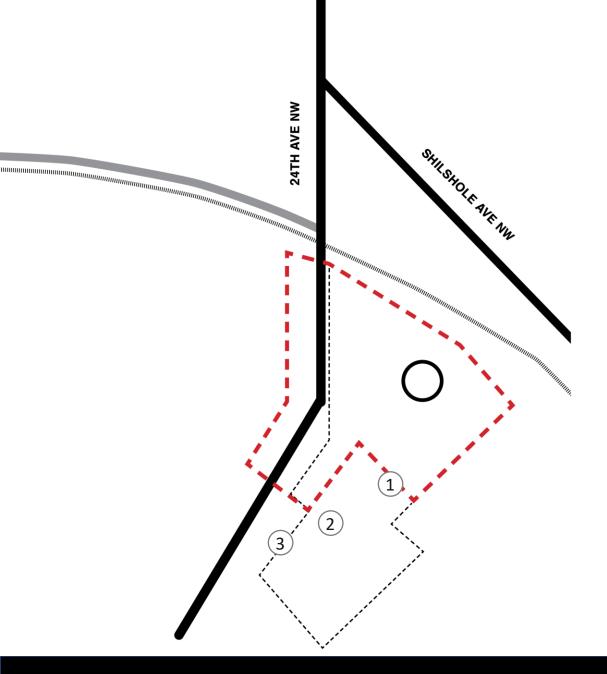
- Design for the whole site.
- **Express function** of the Ballard Pump Station locally and role of SPU citywide
- Define and **derive benefits** for the Seattle community and SPU
- Contribute to and **recognize the place** and role of the waterfront in Ballard
- Connect the neighborhood to the waterfront allowing the site to become part of Ballard and the city







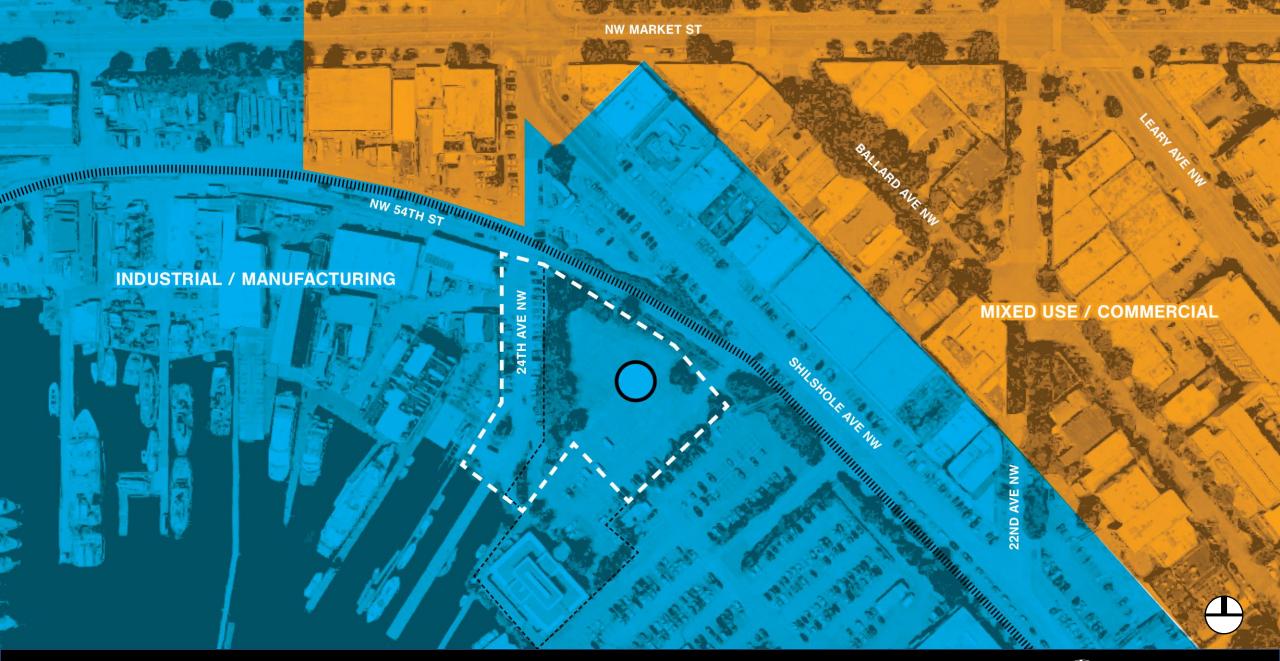


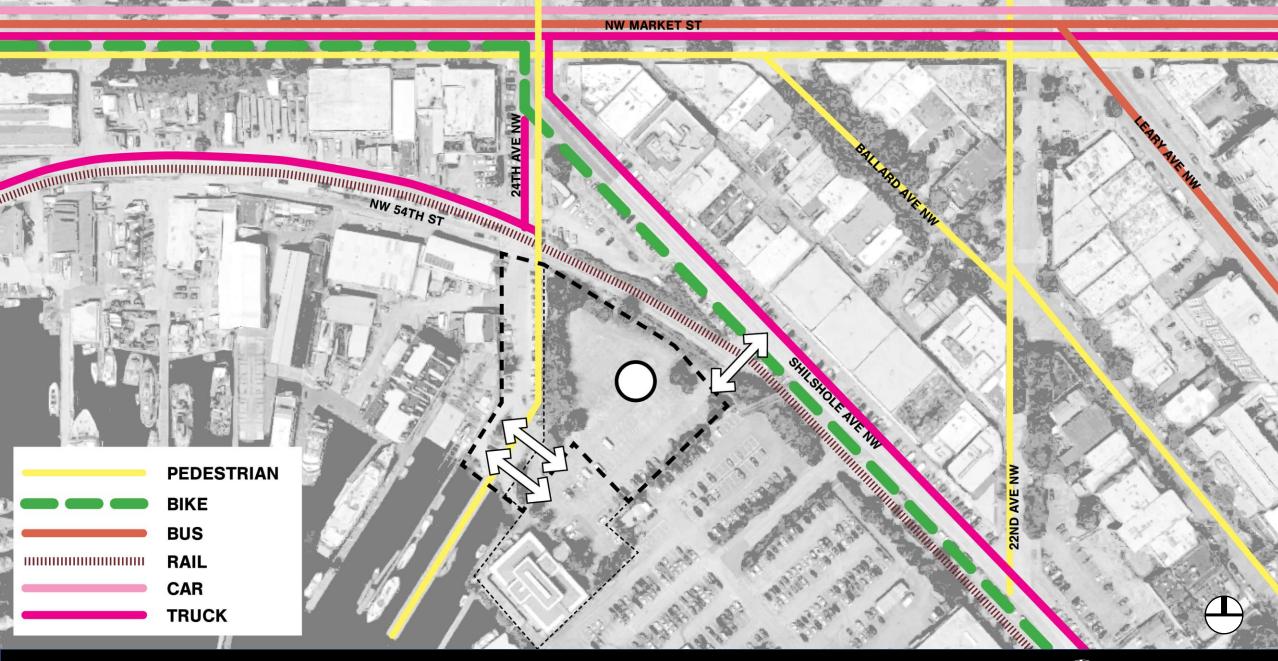


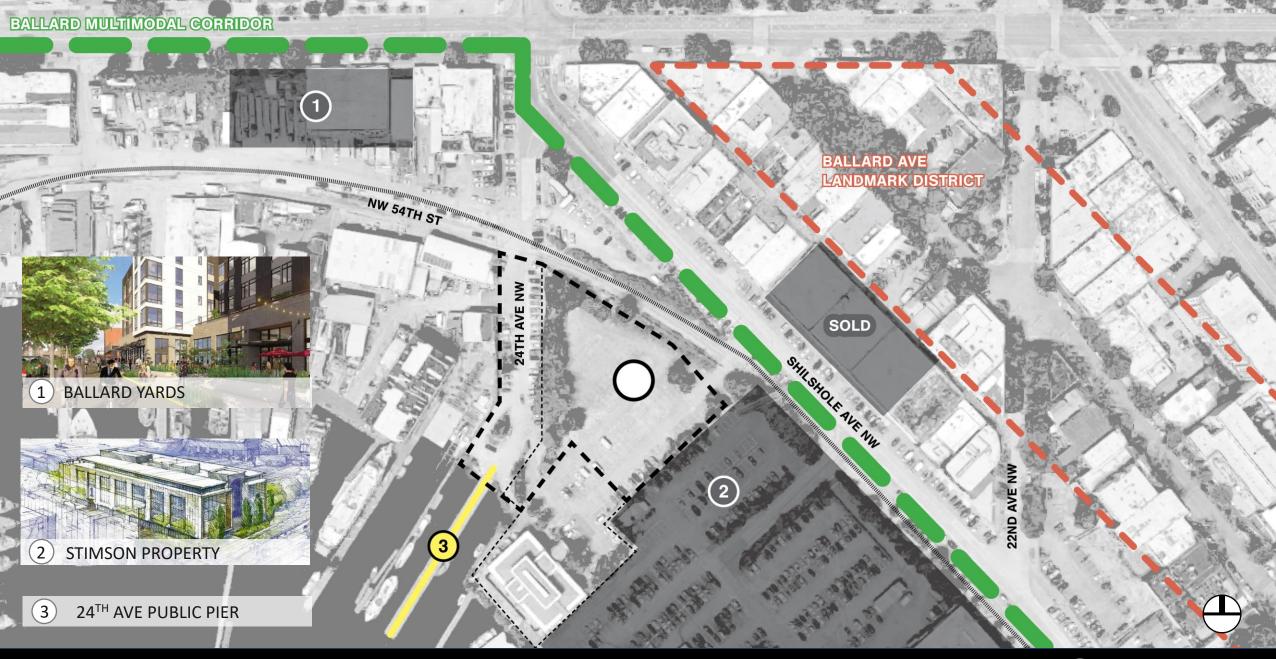


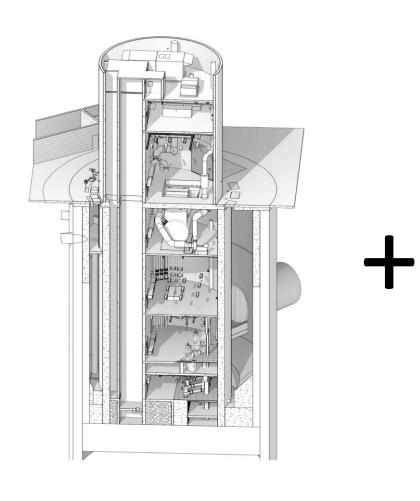


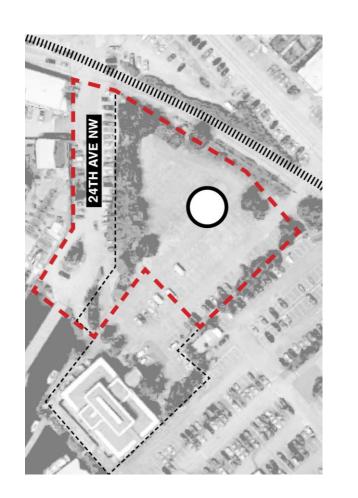


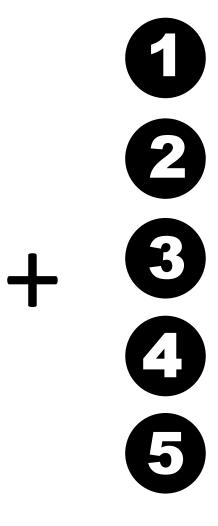














Design-Focused Feedback from 30% SDC Presentation:

- Better integrate the three components of the project: Pump Station, 24th Ave Shoreline Street End, Future
 Development Parcel.
- Provide clearer solutions for circulation to and through the site for the various phases of development.
- Provide a cohesive strategy for **storytelling and interpretive elements** across the entire project site
- Provide proposed materials options and a long term maintenance plan for the pump station structure
- Balance urban nature efforts in the interim condition as well as the long term development of the site
- Use **lighting** to bridge between contrasting design elements







Fluid dynamics of water

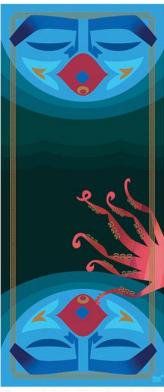
The Pump Station exerts a pull similar to that of a whirlpool on the landscape. The landscape is pulled toward and around the pump station on its way to the ship canal. The paved urban environment floats lightly on top of this seemingly fluid surface as a series of boardwalks and platforms.



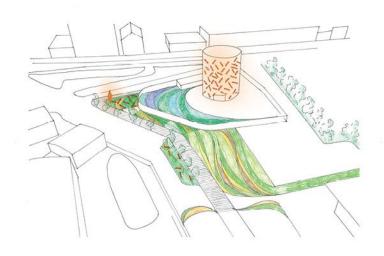




The lights on the tower and in the landscape suggest biolumenesence



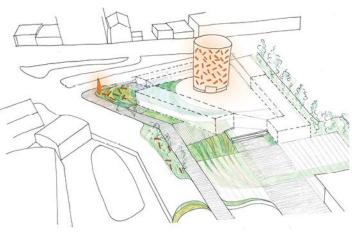
They relate to the story behind the Octopus Woman sculpture at the NW corner of the site



TEMPORARY CONDITION



AREA RESERVED FOR FUTURE DEVELOPMENT

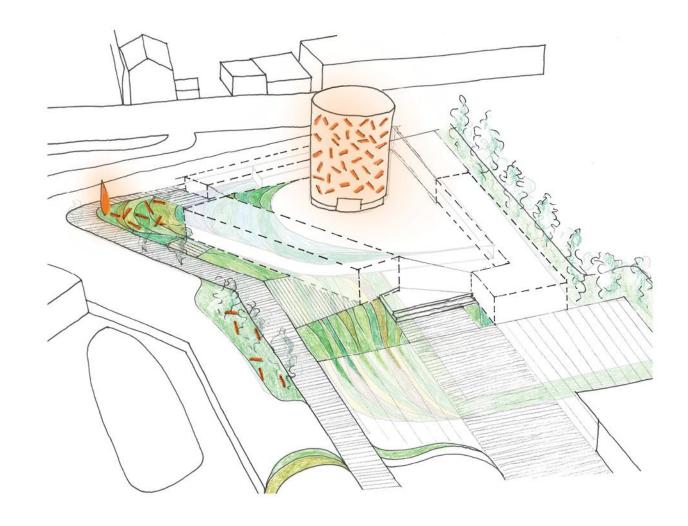


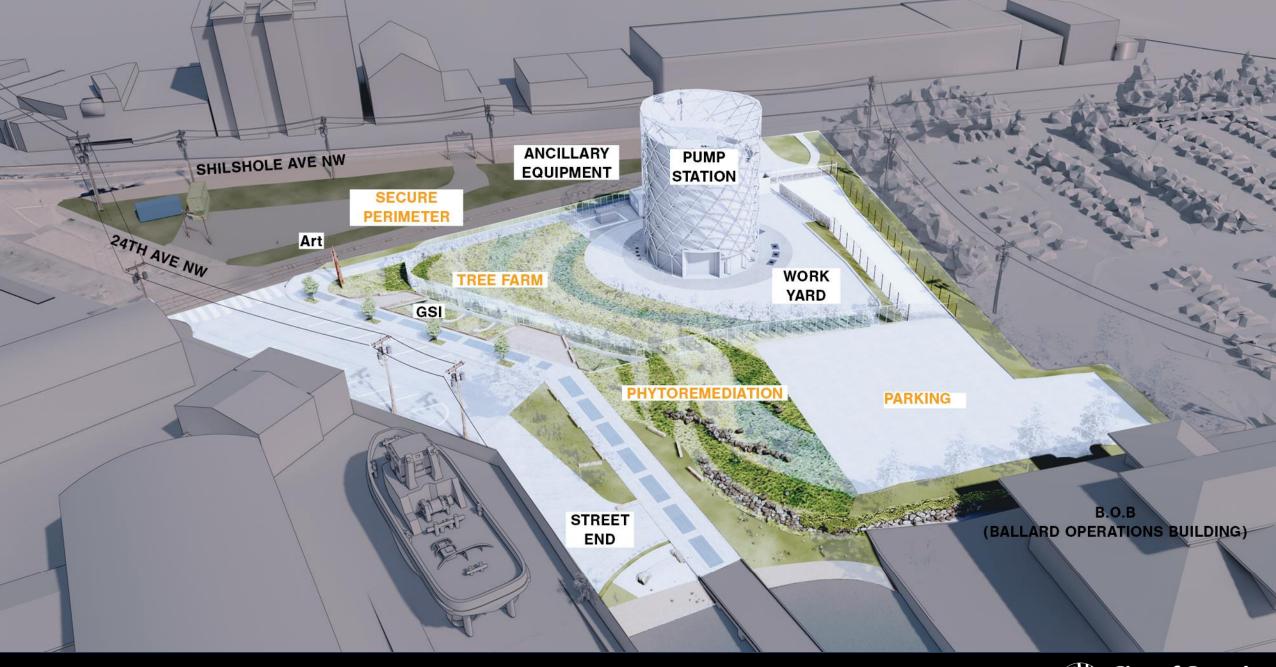
FUTURE DEVELOPMENT

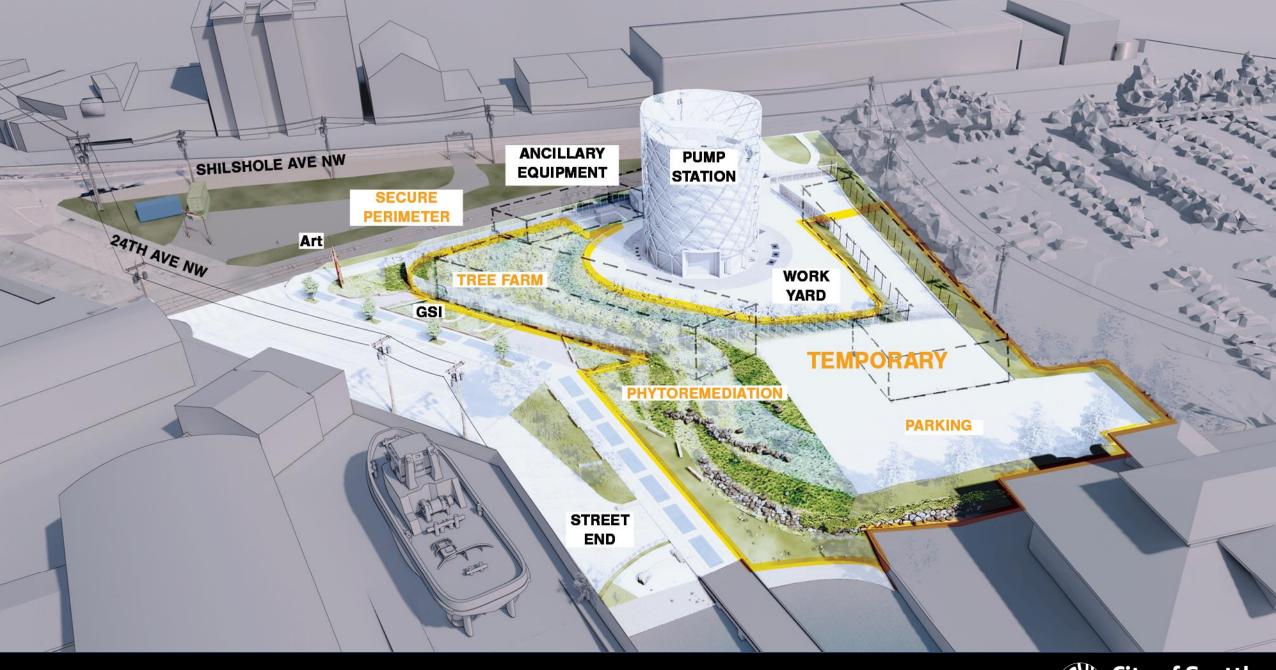
FUTURE DEVELOPMENT WILL:

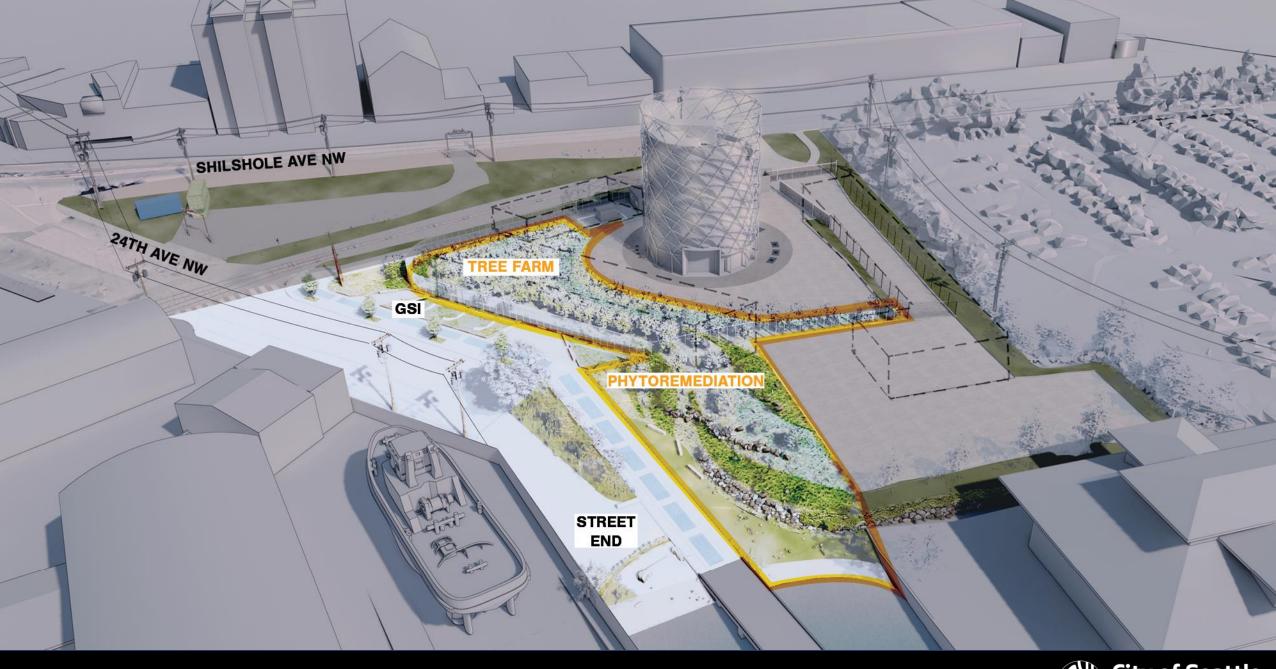
- WORK WITH THE SITE CONCEPT
- MAINTAIN A BALANCE BETWEEN LANDSCAPE AND BUILT AREA
- AND HIGHLIGHT ART/TOWER





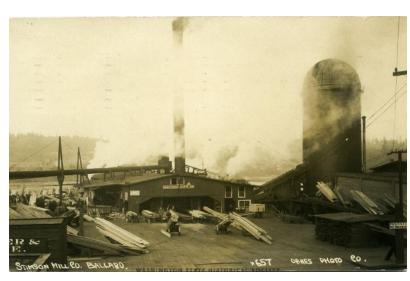








1905 Home of Hwehlchtid and Chilohleet'sa, south side of Salmon Bay (UW Digital Collections)



Stimson Mill



Existing Salmon Bay Marine Industries



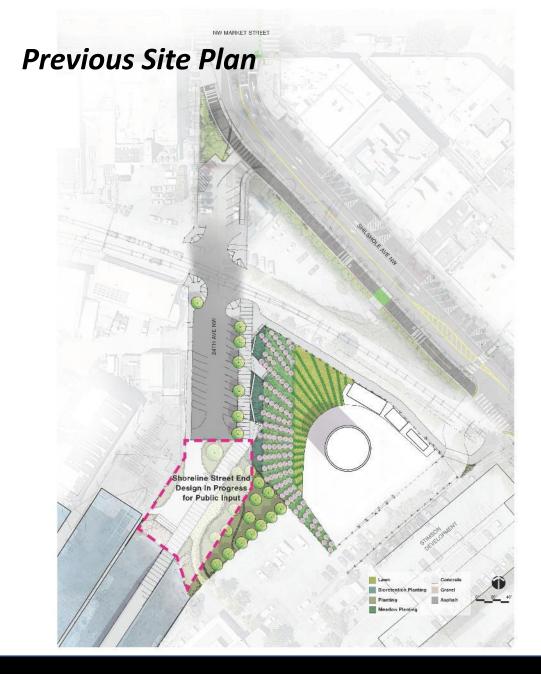


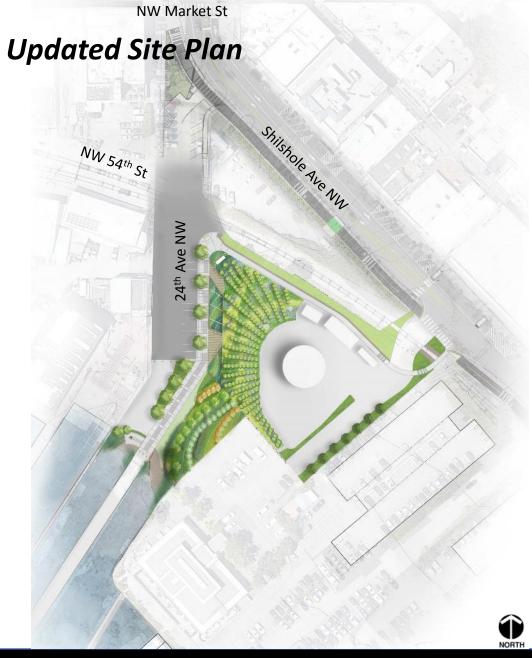


Stormwater Treatment

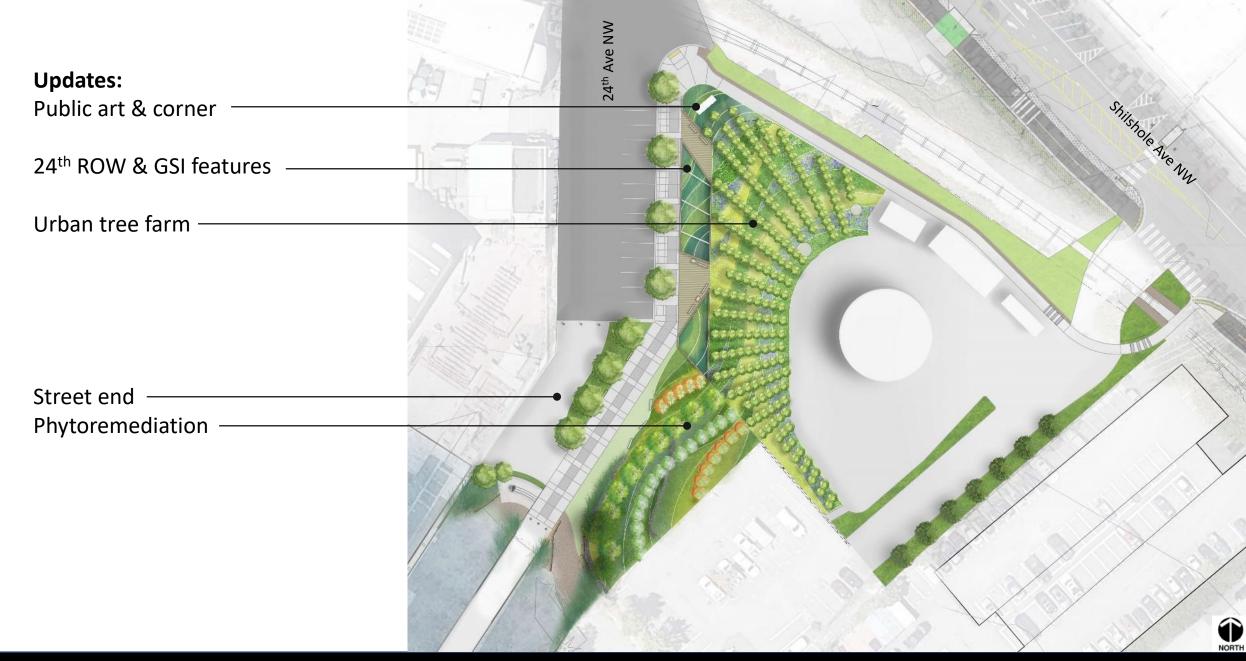


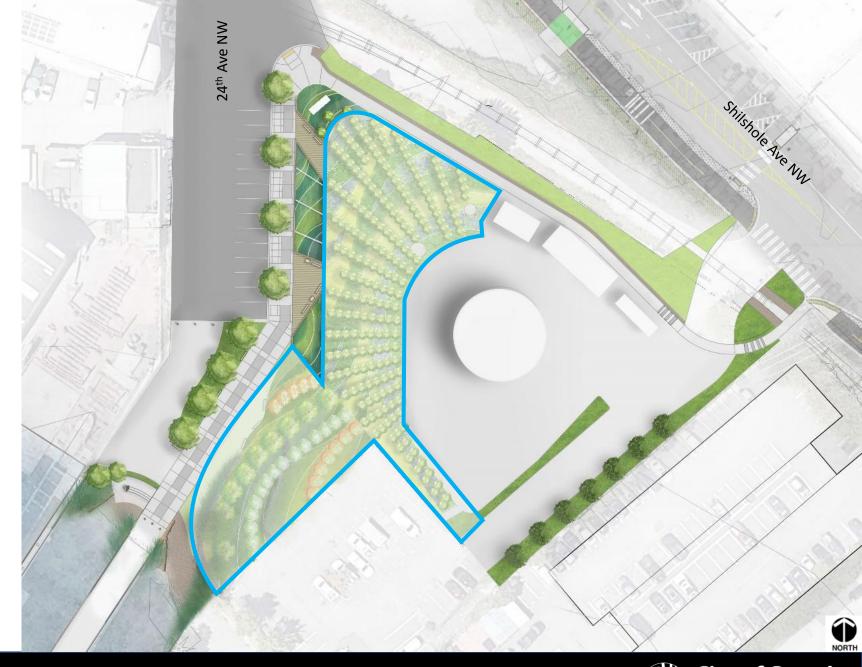
Phytoremediation











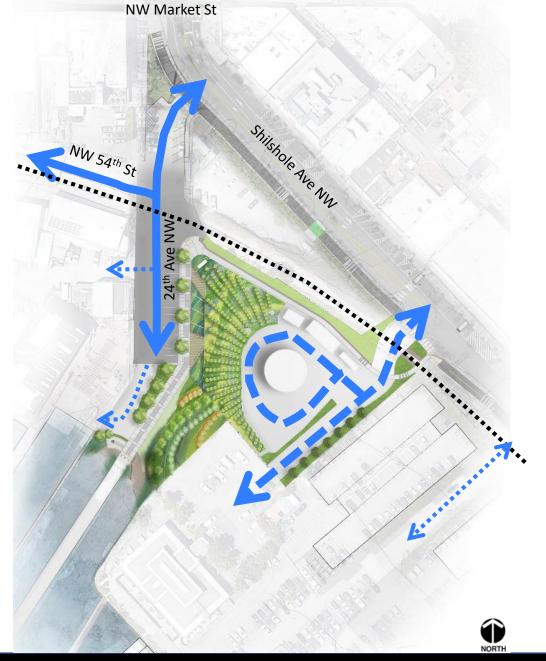
Vehicle Circulation

Railroad



SPU vehicles

≪ Other vehicular access





Vehicle Circulation

Railroad





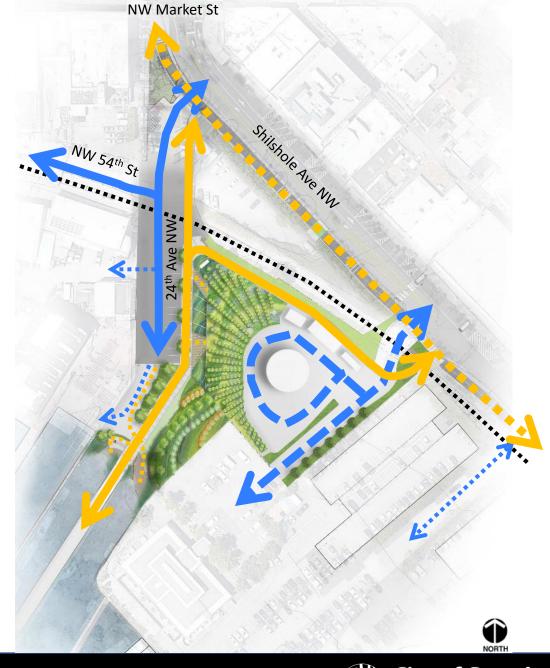


Pedestrian & Bike Circulation

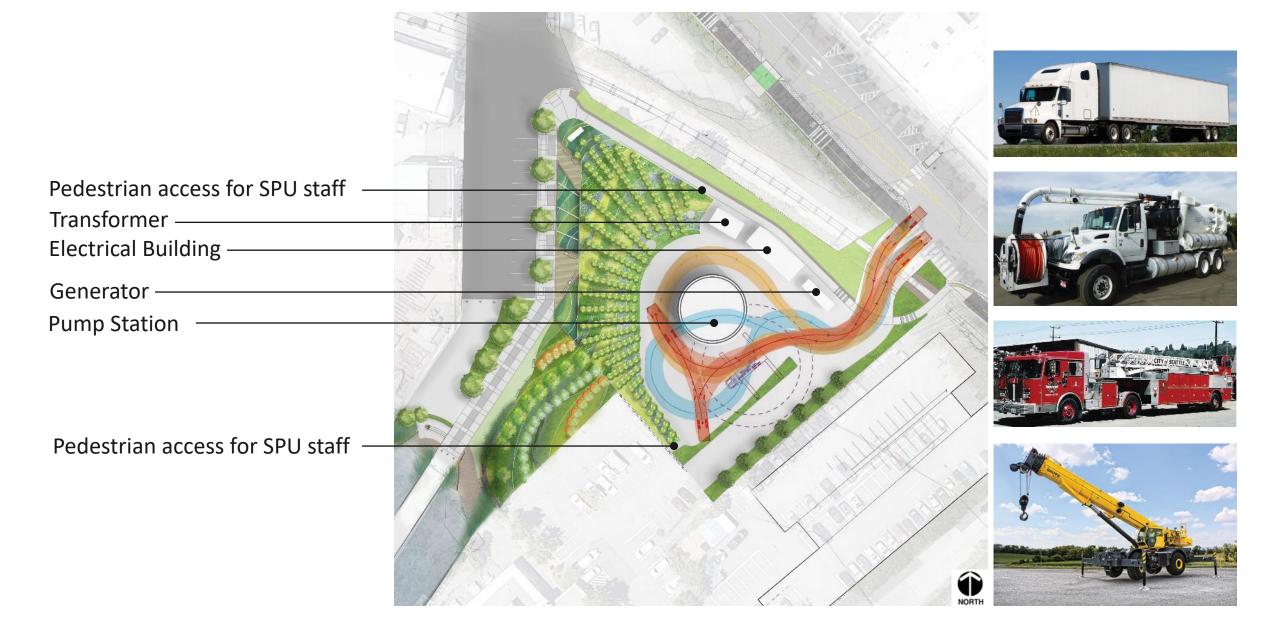




Secondary access







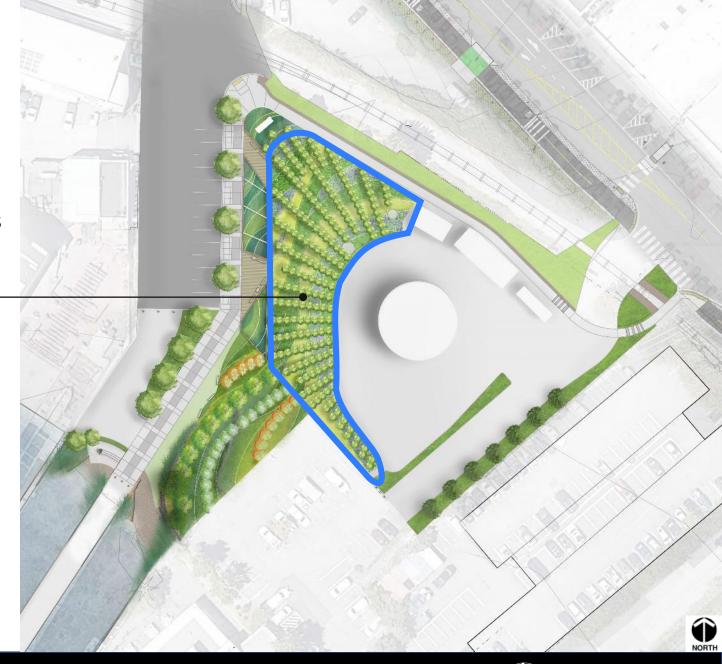
Urban Tree Farm

Updates:

- Replaced blueberries with additional trees
- Reinforcing water concept with flowing lines with groundcover and seed mixes
- O&M manual, and coordination with City agencies





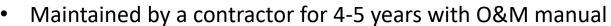




Urban Tree Farm

Possible City Partnerships:

- SPU restoration projects
- SDOT Urban Forestry
- Trees for Seattle
- Trees for Neighborhoods

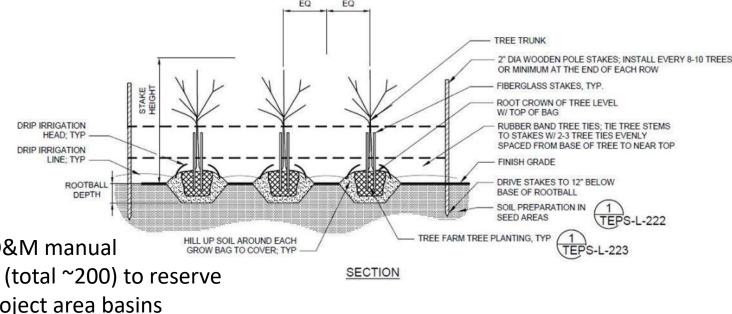


Coordinating tree type selection and quantities (total ~200) to reserve

Locate trees within Ship Canal Water Quality Project area basins











Urban Tree Farm (current selected species)

- 3'-4' height at planting
- 5' on center spacing
- Minimum 3'-6" room for riding lawn mowers or small 4-wheel vehicles for maintenance, increases in width to 12' wide



Snowcone Snowbell (Styrax japonica 'Snowcone')



Vanessa Parrotia (Parrotia persiana 'Vanessa')



Rising Fire American Hornbeam (Carpinus caroliniana 'Uxbridge')



Firestarter Tupelo (Nyssa sylvatica 'Firestarter')

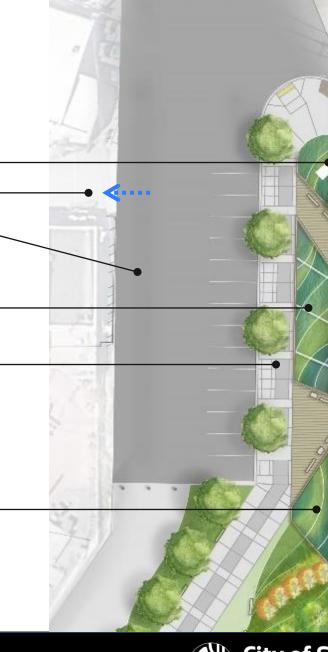


24th ROW & GSI

Updates:

- Refined NW corner around Public Art -
- Minimal improvements on west side of 24th in coordination with SDOT and adjacent businesses
- Removed elevated metal runnel & added weirs –
- Replaced trench grates with pipes and paving treatments

Planting layout



24th ROW & GSI Design Details

Public art

Benches



Fence

Bull rails with low lighting





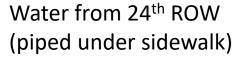
24th ROW & GSI Stormwater Conveyance



Bowels Golden Sedge (Carex elata aurea)



Elk Blue Rush (Juncus patens elk blue)



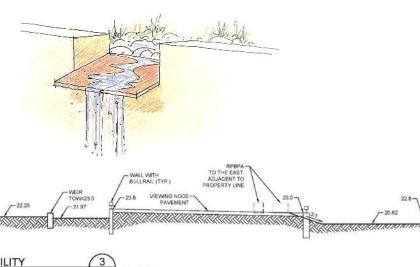
(swale & scupper)



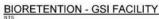
Douglas Iris (Iris douglasiana)



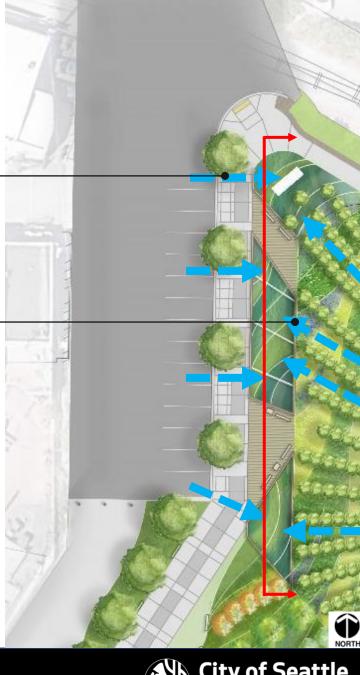
Common Rush (Juncus effusus)



Stormwater from Pump Station yard









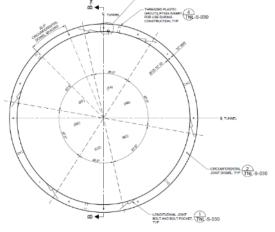
Weirs

- Simulated tunnel segment
 - Inside diameter 18'-10"
 - Segments 11" thick
 - 5' wide, 10' long





Typical Section



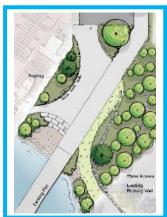






What we heard (SDC Subcommittee meeting on 02/20/2020):

- Design for variety of users
- How does design accommodate future development
- Want to better understand interpretive elements
- Evaluate seating locations, orientation, and views









Outreach

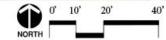
- 4 concepts
- 490 online survey responses













Updates:

- Revised vehicular access in coordination with adjacent property owner to existing gate
- Added additional planting and seating
- Refined design elements



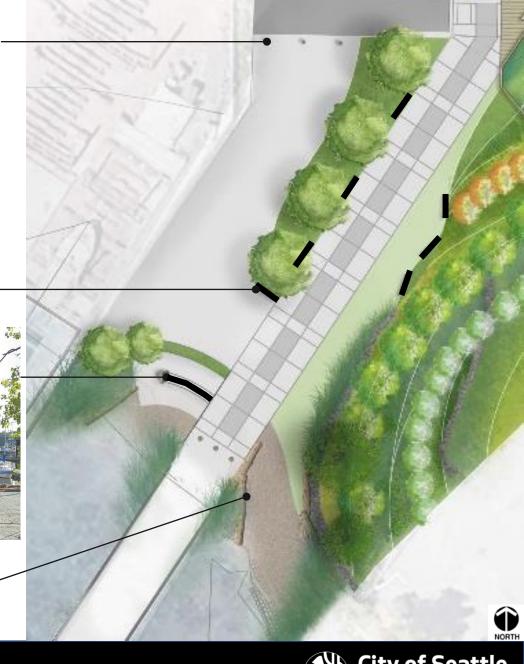
Benches



Removable bollards

View looking to water & pier

Boulders & logs



Vehicle Circulation



Other vehicular access

Pedestrian & Bike Circulation



Secondary access





Phytoremediation

Updates:

Layout refinements in more fluid forms

Petroleum Hydrocarbon Degraders



Cercis canadensis
Eastern Redbud



Gleditsia triacanthos var inermis Thornless Honey Locust



Festuca rubra Red Fescue



Bouteloua dactyloides Buffalo Grass



Pascopyrum smithii Western Wheatgrass

Organic Compound Degraders



Lolium perenne Ryegrass

Metal Accumulators



Populus tremuloides
Quaking Aspen



Helianthus annuus Common Sunflower

Petroleum Tolerant



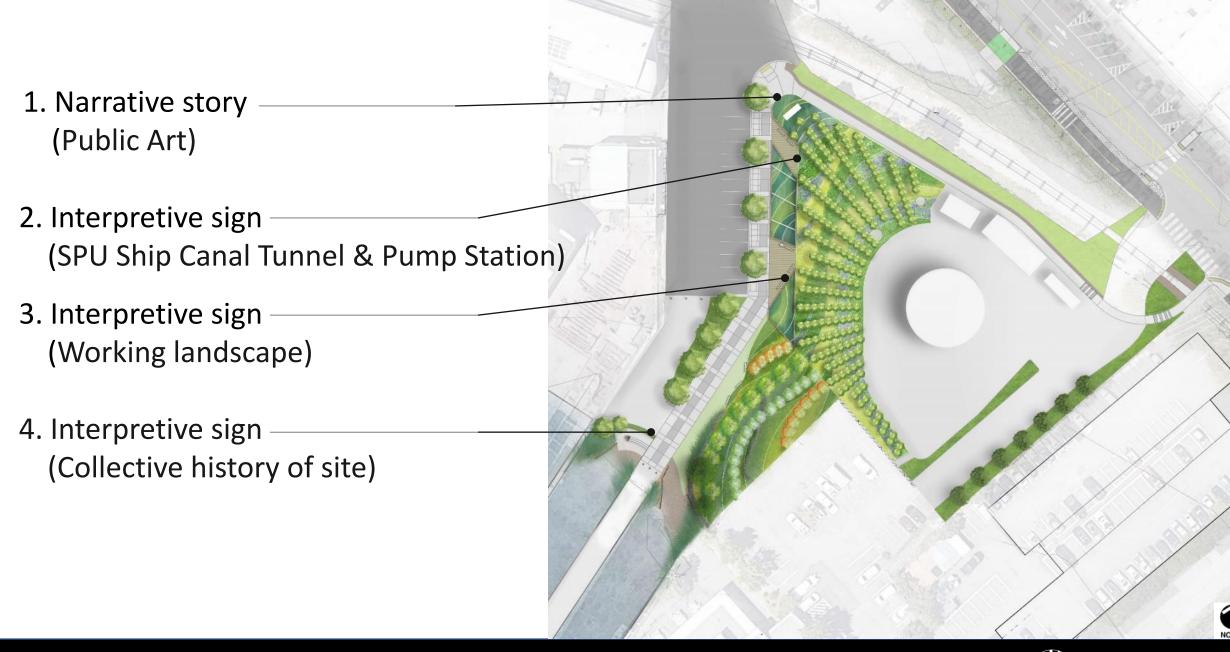
Cistus x purpureus Purple Rock Rose





Narratives	Direct Approach	Subtle Approach
Coast Salish	Narrative story	Public ArtPlant materials
		 Wood benches, bull rail, logs
— Maritime Industry (past & present)		Tower trellis
SPU Ship Canal Tunnel & Pump Station	 Interpretive sign 	Tower & lightingWeir tunnel segments
Stormwater aboveground		Bioretention cellsConveyance swales & scuppers
Stormwater belowground		Tower lightingPaving inlays in sidewalk
Working Landscape	Interpretive sign	 Urban tree farm Phytoremediation GSI Tower
> Collective history of site	 Interpretive sign 	



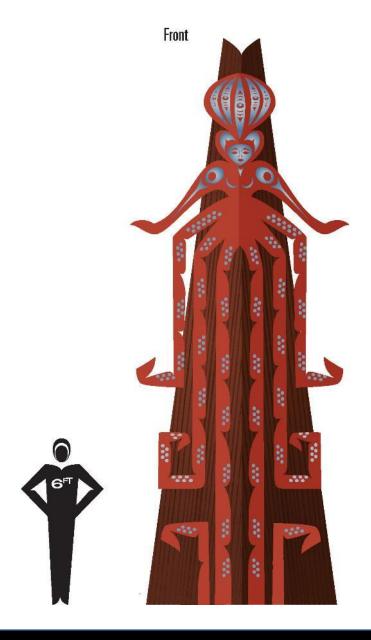


















Ballard Water Station Concept Round 4

The fourth concept is a based off the first design concepts after taking in both the committee's and construction budget comments. It is a more streamlined version that honors the idea and spirit of the original while having more depth and identity that establishes it as a strong Salish voice in the community.







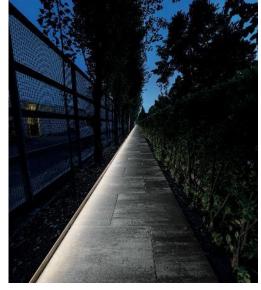
























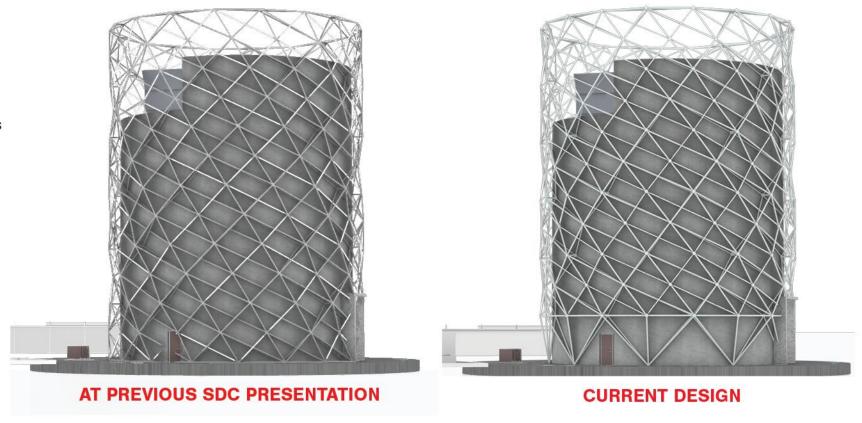




TOWER EVOLUTION

WHAT HAS CHANGED:

- Overall height
- Connections
- Tube sizes
- Staineless steel grade at nodes



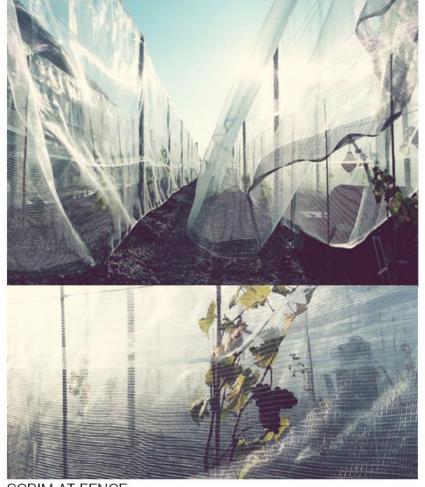
TOWER ANIMATION STUDIES: https://imgur.com/a/YovWVhu



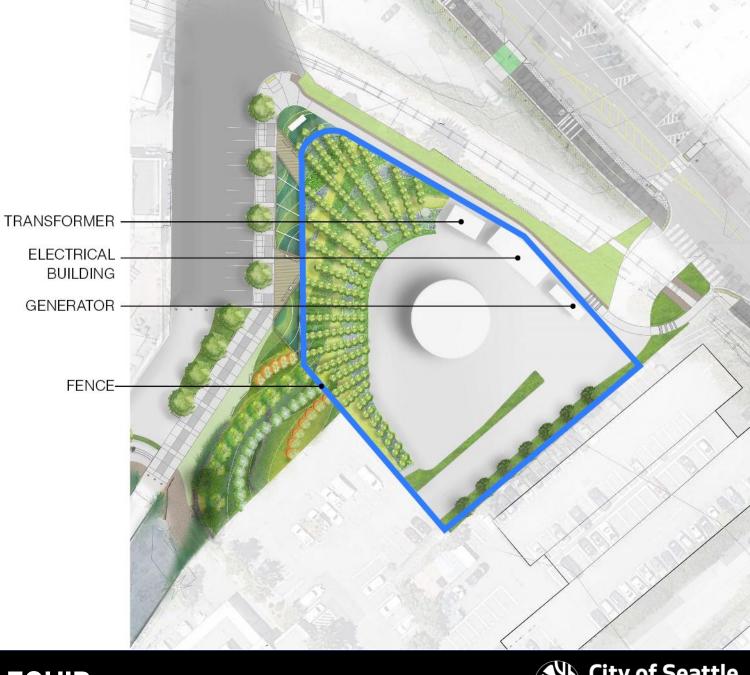




FENCE AND ANCILLARY EQUIPMENT



SCRIM AT FENCE

















Contact Kelsey Hinsperger <u>Kelsey.Hinsperger@seattle.gov</u>

