





Seattle Design Commission Presentation: October 7, 2021

Ballard Pump Station

5425 Shilshole Avenue Northwest

SDCI Building Permit No. 6715316











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



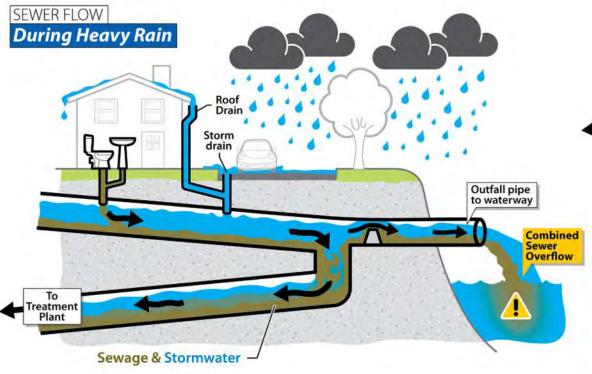


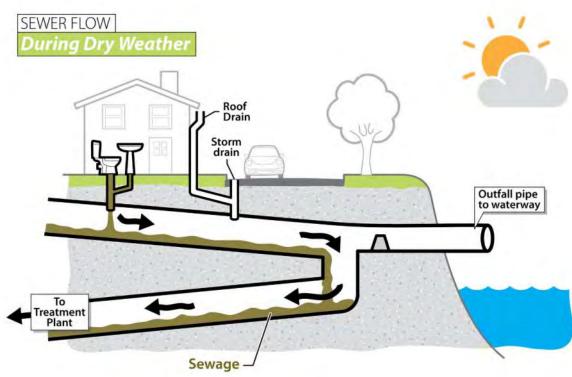


Agenda

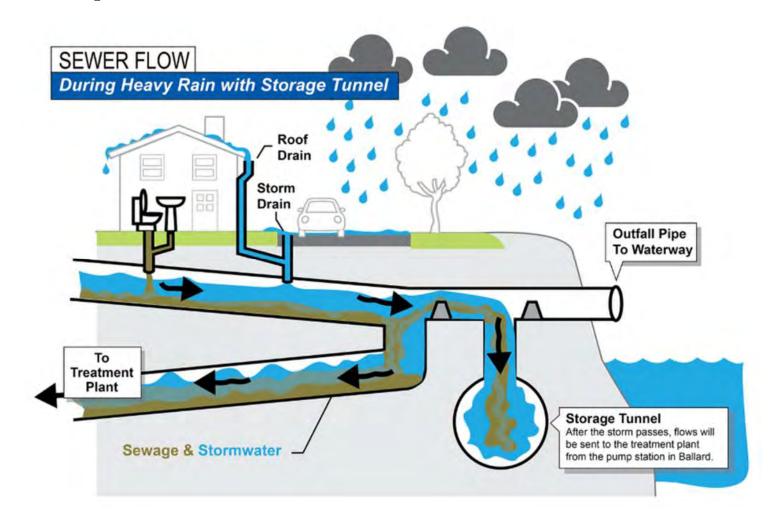
- Program overview
 - Project purpose and status
 - Engagement and equity
 - Sustainability
- Design presentation with schematic design recommendation responses

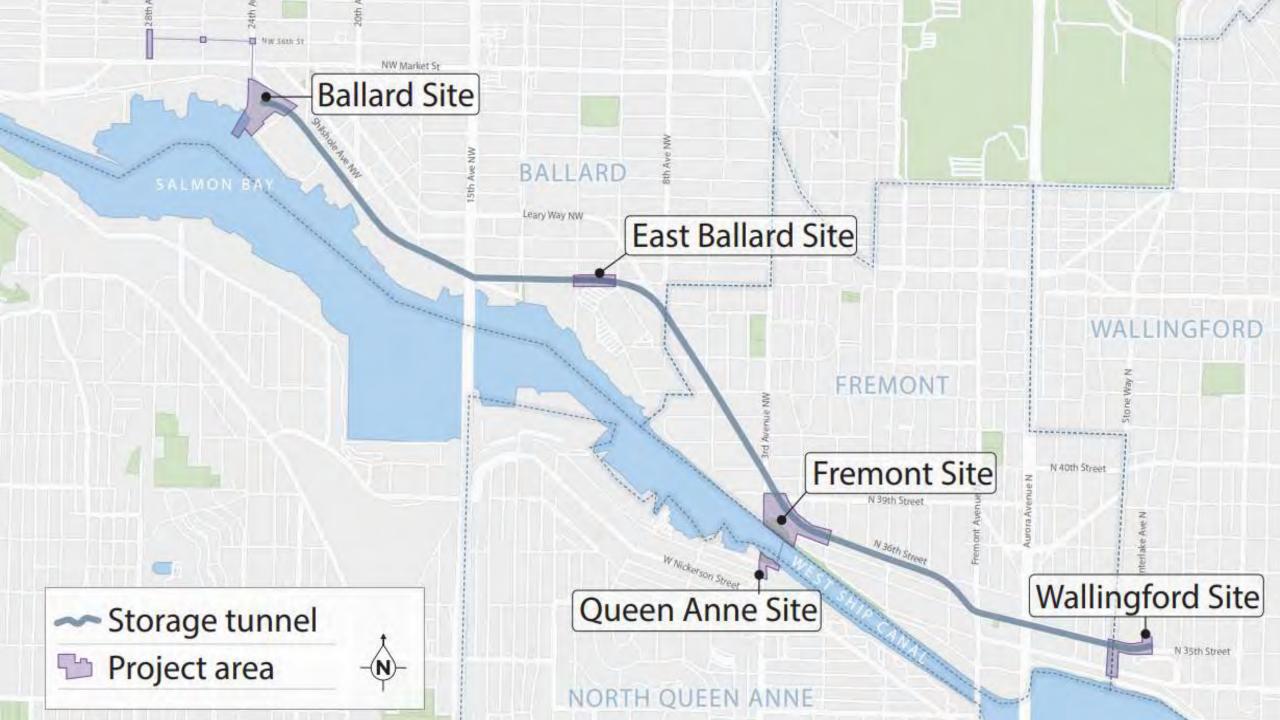
Combined Sewer Overflows

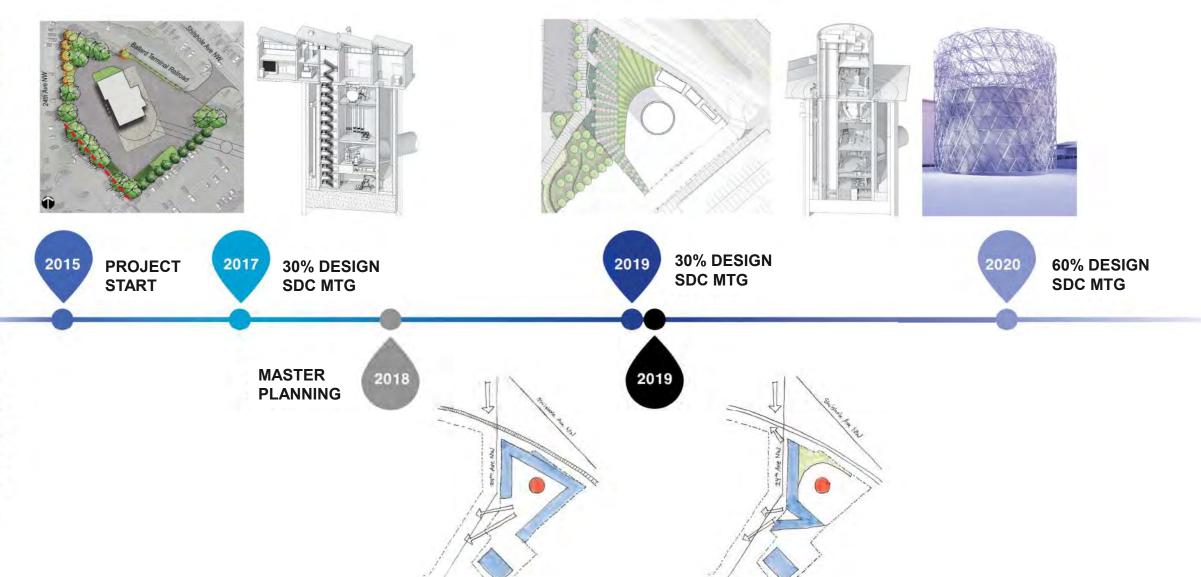




How a tunnel helps









90% DESIGN SDC MTG

2021

DESIGN COMPLETE





















POTENTIAL BALLARD SITE CONSTRUCTION

Outreach and Engagement

- Regional approach
 - MudHoney naming contest
 - Regular listserv and social media updates
 - Fairs and festivals
- Partner & Outreach
 - Ballard District Council
 - Maritime businesses
 - Friends of Street Ends
 - Groundswell NW
 - North Seattle Industrial Assoc.
 - Friends of Ballard Waterfront Park



Equity

- Interpretive services available as needed
- WMBE firms 29% average
- Homelessness support
- FLOW temporary art installation- Elevation of BIPOC artists
- Permanent art-
 - Coast Salish artwork honors Shilshole village
 - 4 installations on Ship Canal celebrate Native Americans place in Seattle









Sustainability

- Envision Platinum certification
- Sizing for resiliency
- Design elements
 - Heat: switched from natural gas-powered to electric
 - Green stormwater infrastructure
 - Shoreline restoration
 - Temporary elements: Phytoremediation, Urban tree farm





Schematic design recommendations: SPU responses

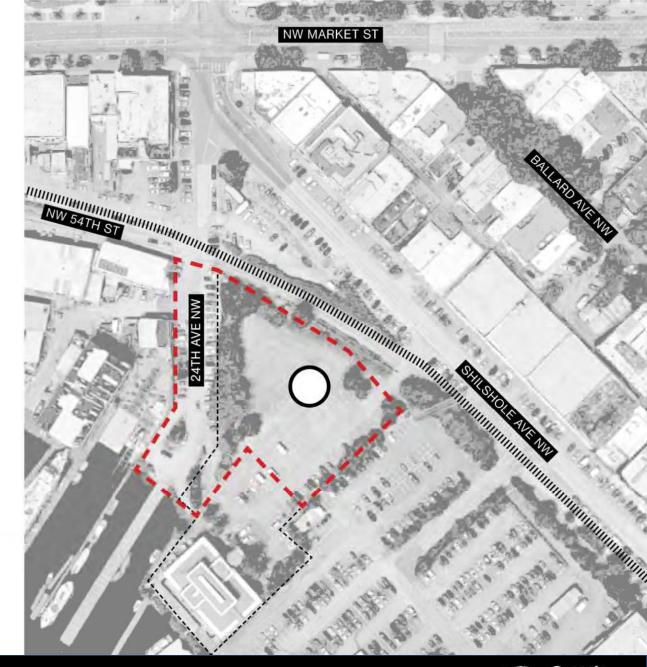
- Received nine recommendations
- Grouped recommendations for response

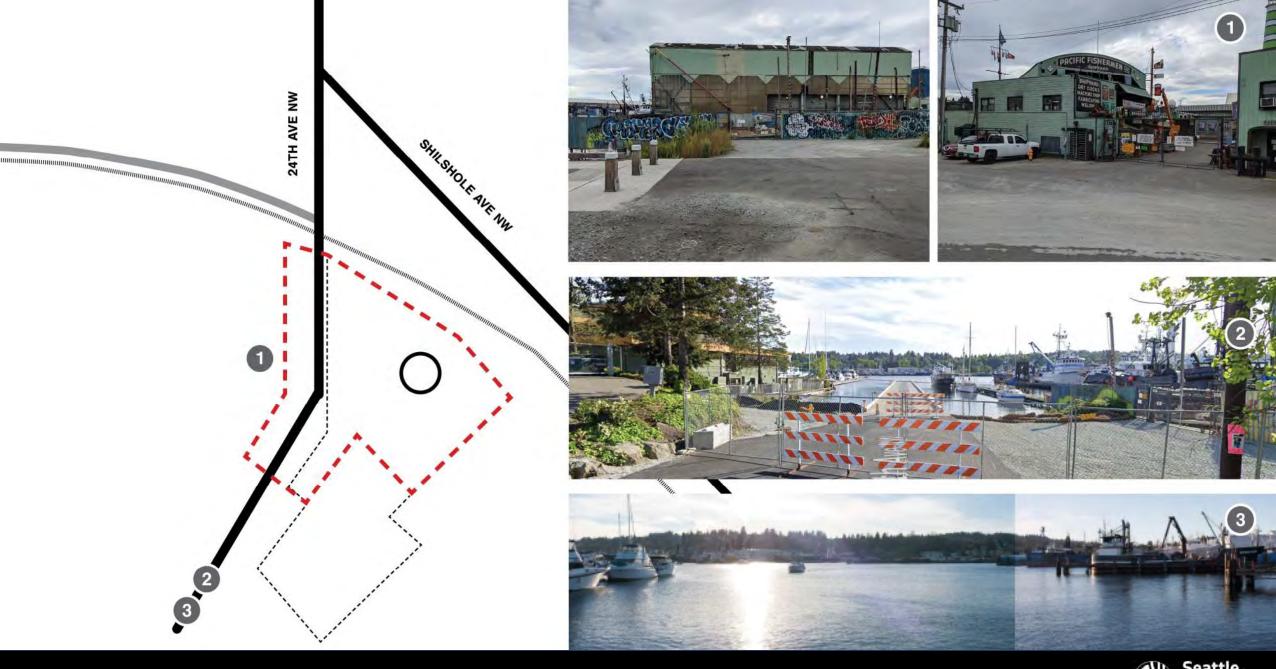
- 1. Provide more information about **schedule for development** of Yankee Diner site.
- **2. Update Master Plan**, integrate with design, continue to engage with public during plan development.
- **3. Maximize public access** to the water, especially for underserved communities, as soon as possible.
- 4. Consider **relocating the fence eastward** and/or **lowering it** to allow more public interaction (visible or physical) with the tree farm.
- 5. Thoroughly consider **parking needs** and maximize **pedestrian and recreational use** of the shoreline right of way. Provide for **temporary community programming.**
- 6. Consider providing more **amenities** that support full use of what will be a busy access point to the water, including bike parking, locking stations for kayaks / paddle boards, and sufficient trash and recycling areas.
- 7. Provide enough **seating with backs** and side rails to meet the needs of the older people in this community.
- 8. Consider **ambient light**, the multitiered and sided characteristic of the art, and the pedestrian perspective. Concern lighting might be **too bright for the surroundings** and could distract immensely from the art.
- 9. Consider a more **permeable**, **transparent material** for the fence.

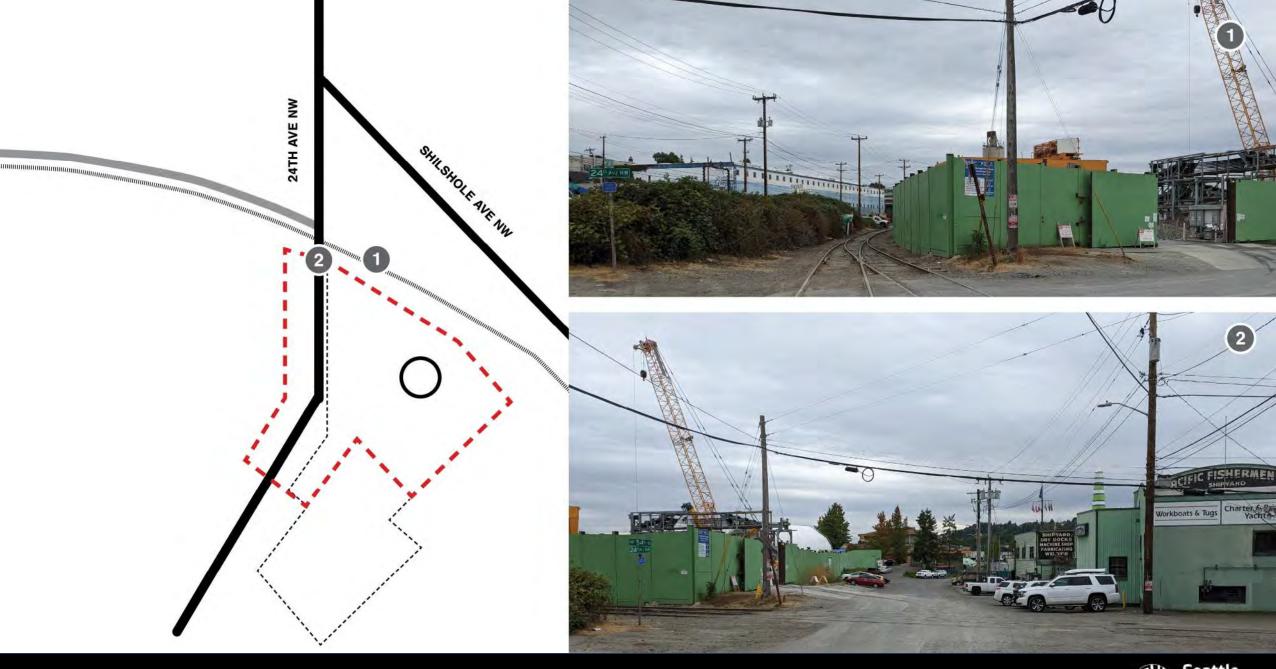
Schematic Design Recommendations

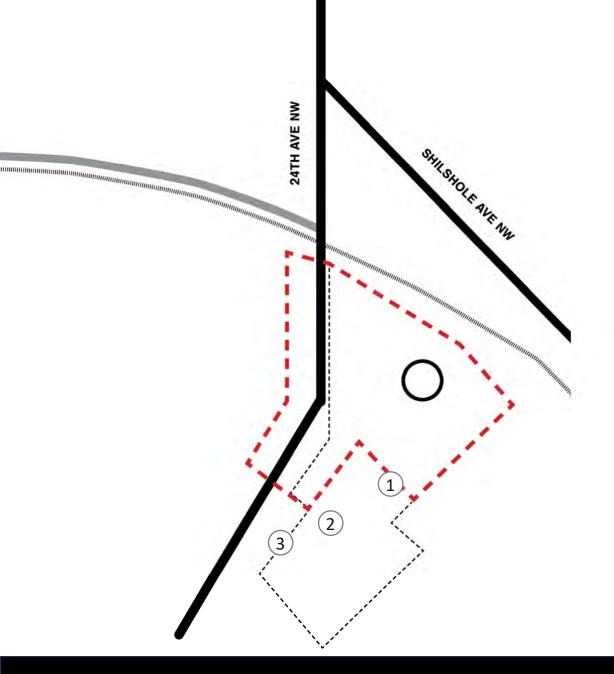
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- 1 Design for the whole site.
- **Express function** of the Ballard Pump Station locally and role of SPU citywide
- Define and **derive benefits** for the Seattle community and SPU
- Contribute to and **recognize the place** and role of the waterfront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







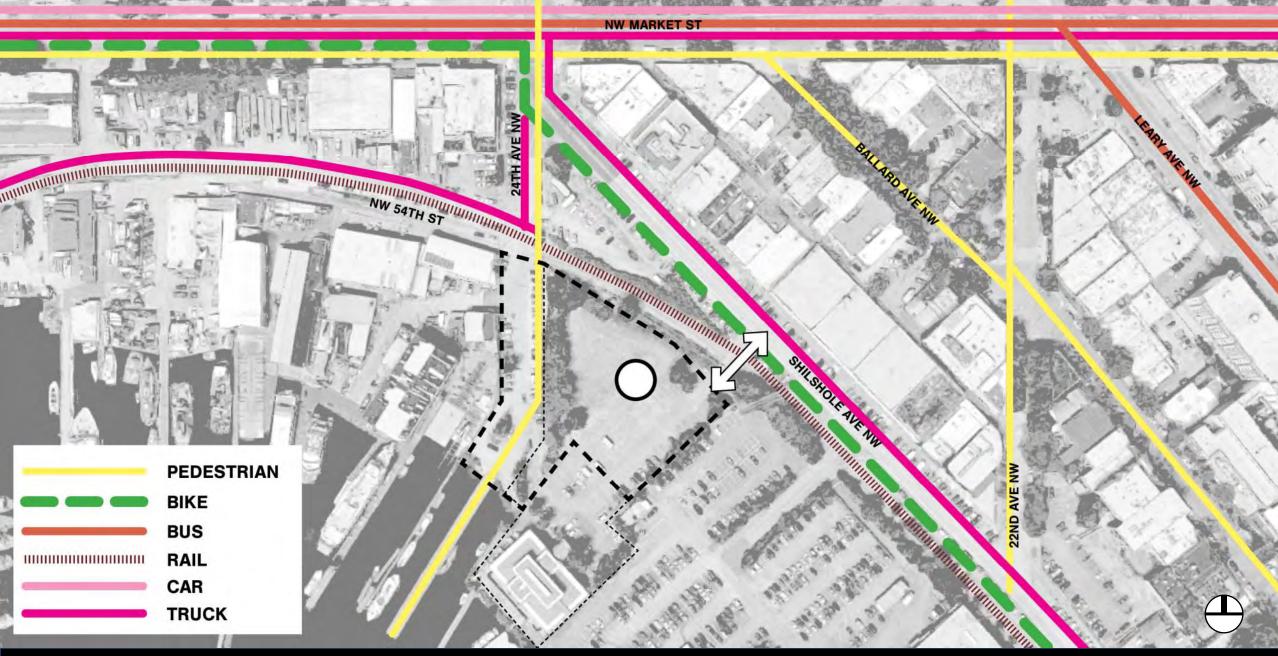




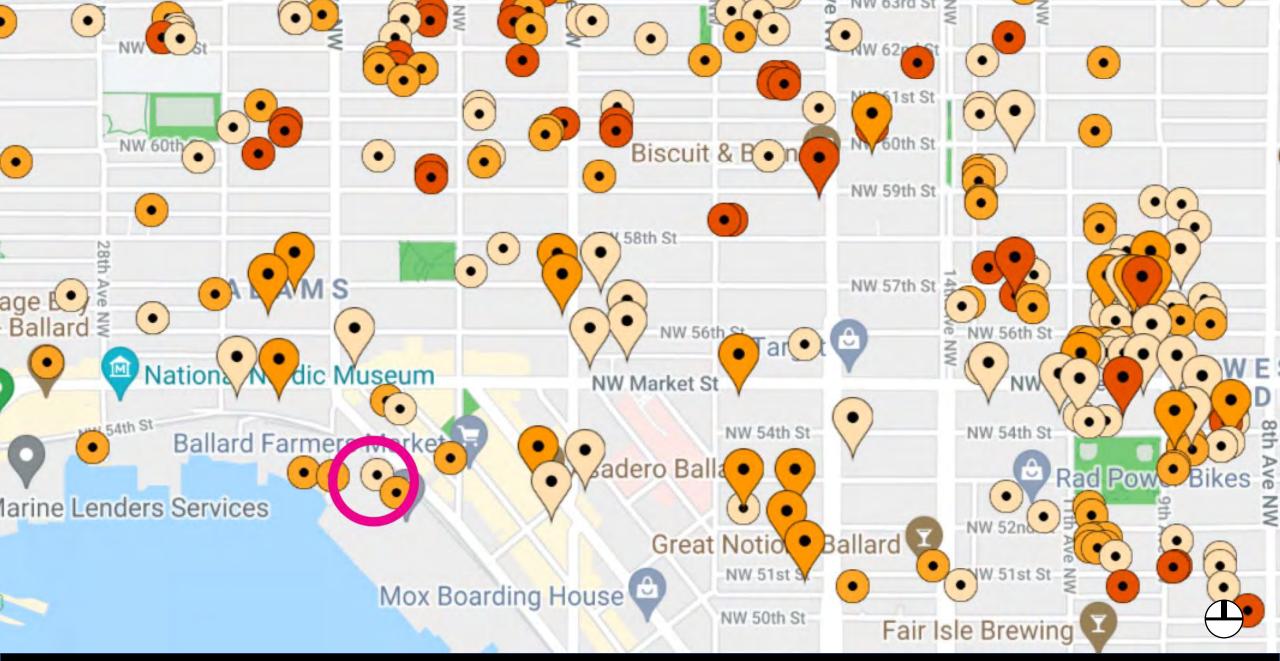


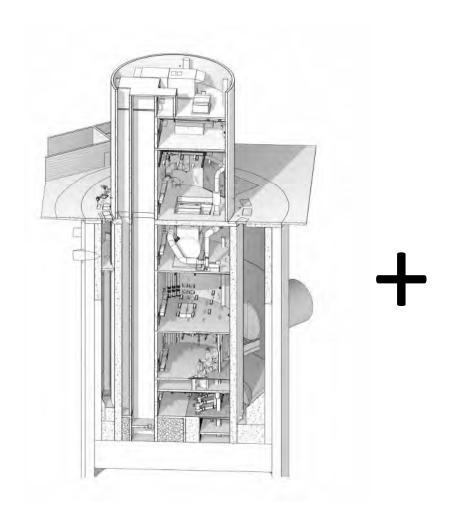


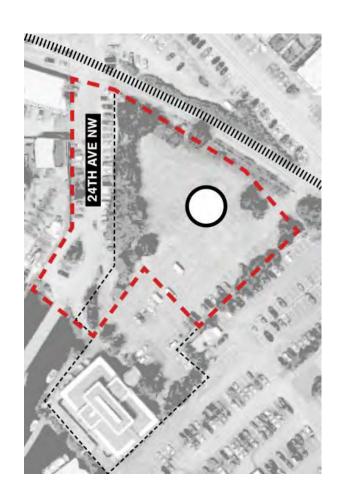


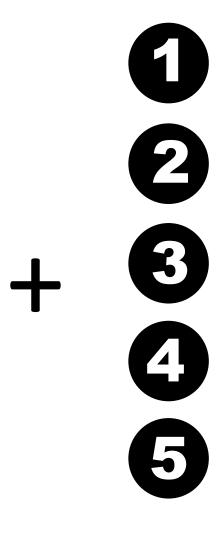












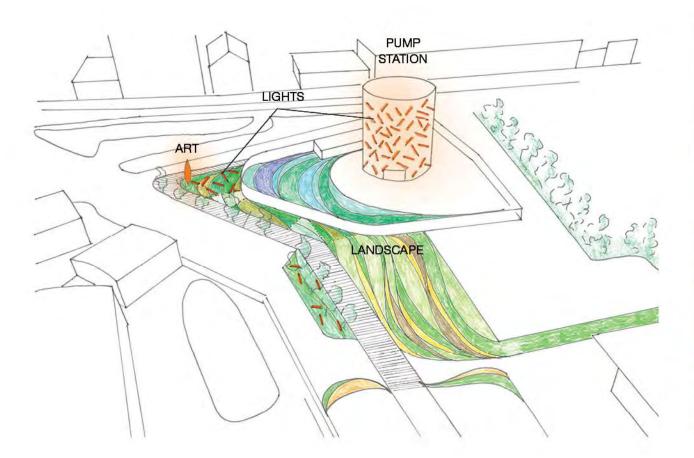




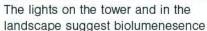
Fluid dynamics of water

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.











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

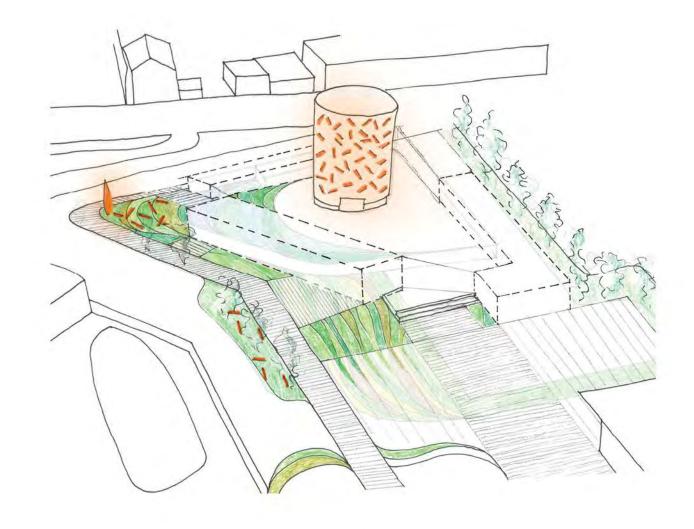
Octopus woman, a queen of the salish sea would go out each night and dance while gathering food for herself under the light of the Moon. Watching her graceful movements, a beautiful ballet of seduction, the Moon became smitten with Octopus Woman. Every night while he shown brightly, she would playfully dance around his reflection to show her love and gratitude for helping her hunt before she would return back to the murky depths of her home.

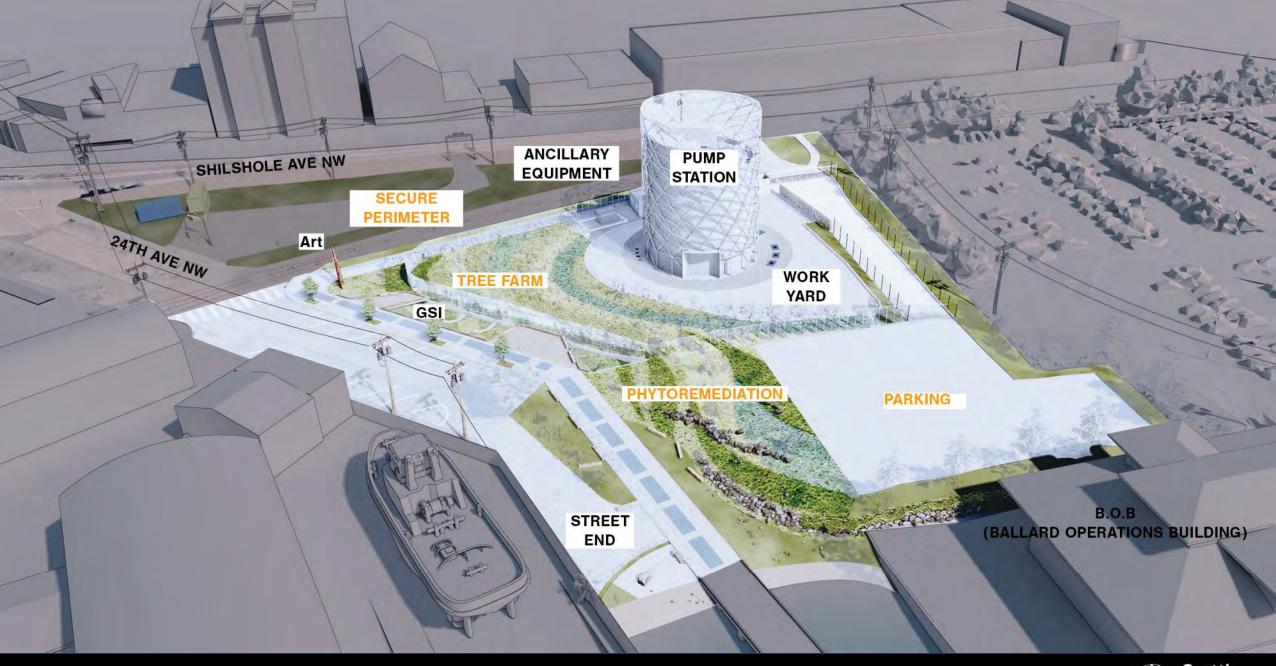


FUTURE DEVELOPMENT WILL:

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

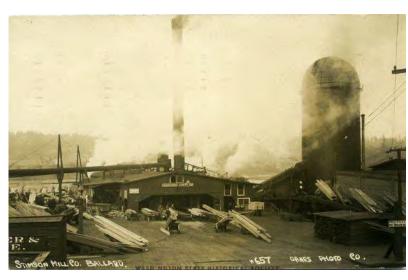








1905 Home of Hwehlchtid and Chilohleet'sa, south side of Salmon Bay (UW Digital Collections)



Stimson Mill



Existing Salmon Bay Marine Industries







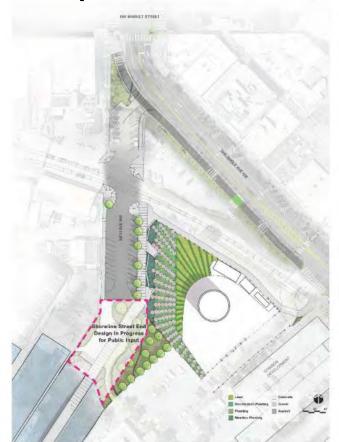


Stormwater Treatment



Phytoremediation

Concept Site Plan



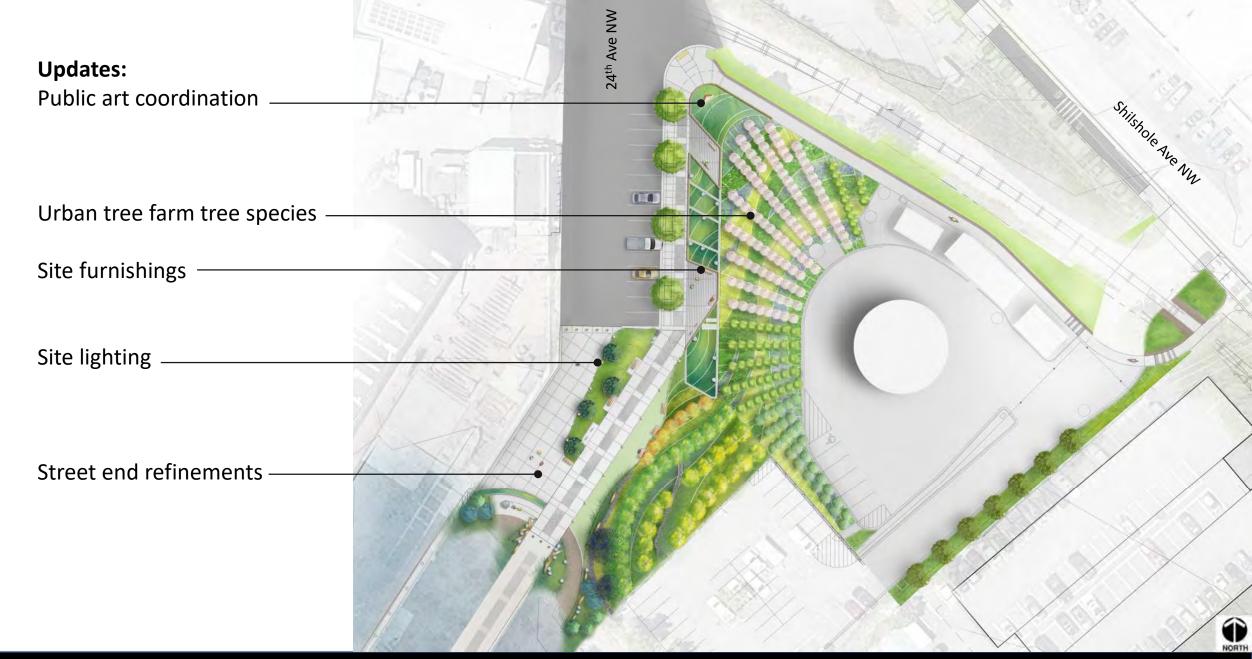
Schematic Site Plan

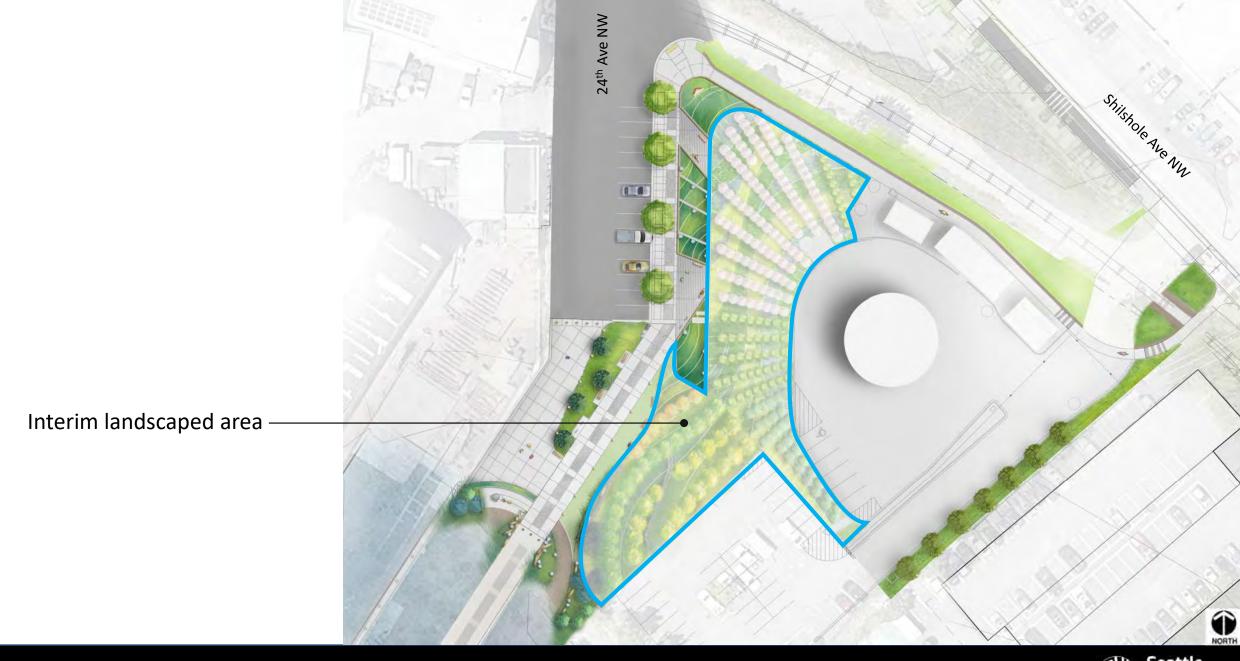


Design Development Plan









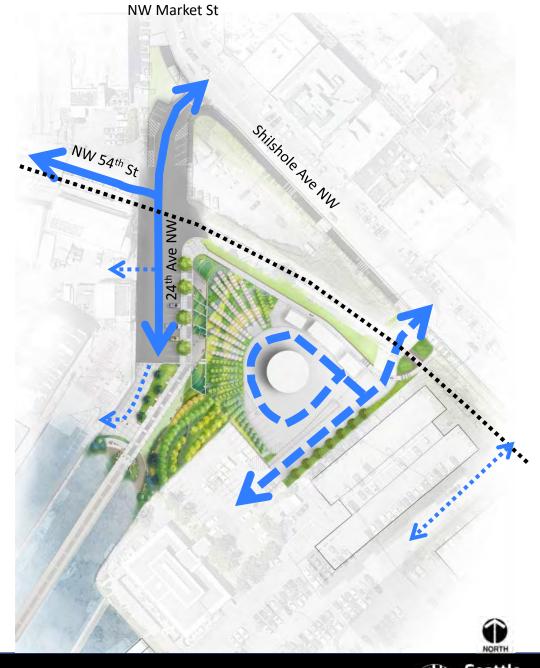
Vehicle Circulation

••••• Railroad



SPU vehicles

Other vehicular access





Vehicle Circulation

Railroad





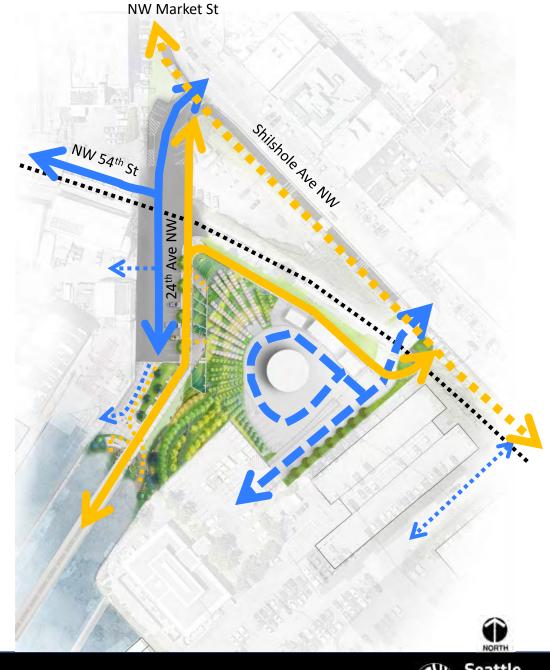


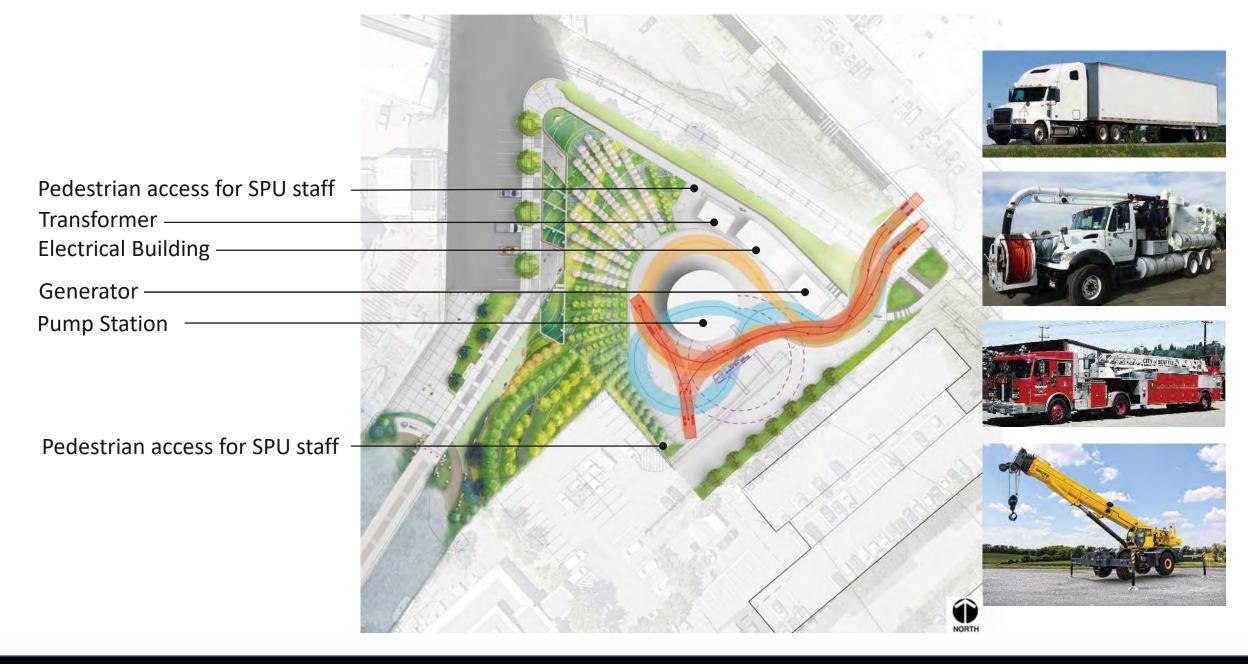
Pedestrian & Bike Circulation





Secondary access







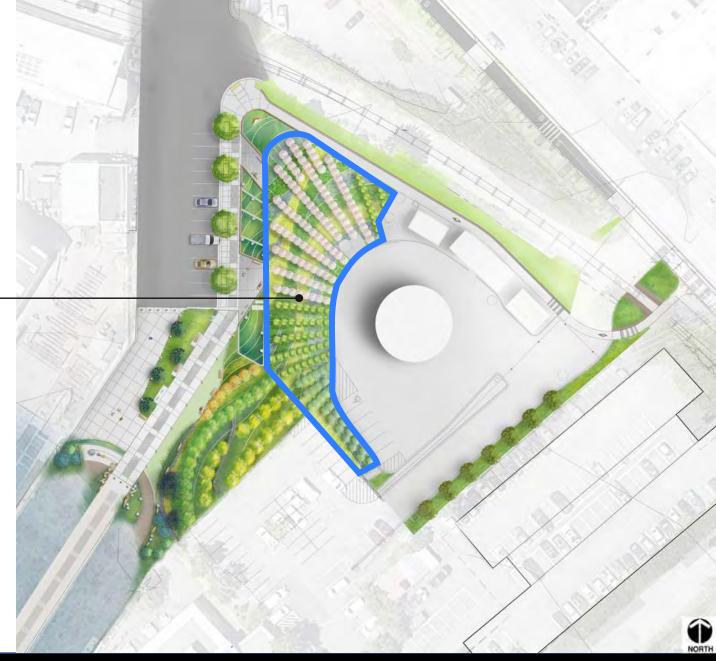
Urban Tree Farm

Updates:

- Coordinated with SDOT Urban Forestry on species
- Narrowed down to 7 tree species selected for diversity of size, urban tolerance, and aesthetics
- O&M manual developed for contractor use





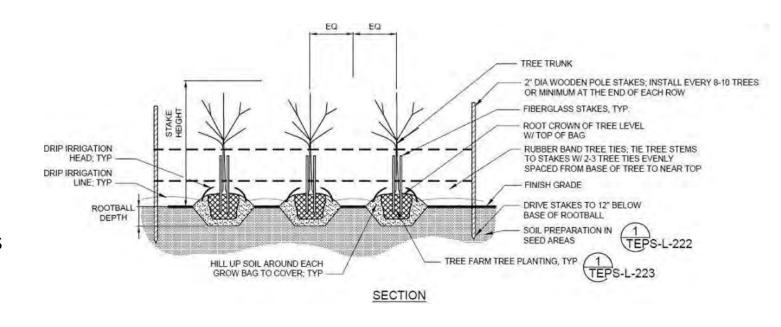




Urban Tree Farm

Details:

- Maintained by a contractor for 4-5 years
- Approximately 200 trees!
- 3'-4' height at planting, spacing varies between trees 4' to 5' on center
- Minimum 3'-6" room for riding lawn mowers or small 4-wheel vehicles for maintenance, increases in width to 12' wide











Urban Tree Farm





June Snow Giant Dogwood (Cornus controversa 'June Snow)



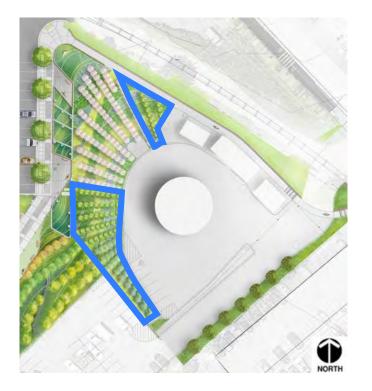
Muskogee Crape Myrtle (Lagerstoemia 'Muskogee'



Amur Maackia (Maackia amurensis)



Urban Tree Farm





Ruby Vase Parrotia (*Parrotia persica 'Ruby Vase'*)



Forest Green Oak (Quercus frainetto 'Schmidt')



Green Gables Nyssa (Nyssa sylvatica 'Green Gables')



Willow Oak (Quercus phellos)



Schematic Design Recommendations

- 5. Thoroughly consider **parking needs** and maximize **pedestrian and recreational use** of the shoreline right of way. Provide for **temporary community programming.**
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24th ROW & GSI

Updates:

• Public Art coordination

Site furnishings _____

• Site lighting



24th ROW & GSI Design Details

Large wood timber benches————

(flexible to sit in all directions)



Bull rails with low lighting



Bike racks

Fence





24th ROW & GSI Stormwater Conveyance



Western Sword Fern (Polystichum munitum)



Slough Sedge (Carex obnupta)



Lilyturf (Liriope muscari 'Big Blue')



Birchleaf Spiraea (Spiraea betulifolia 'Tor')

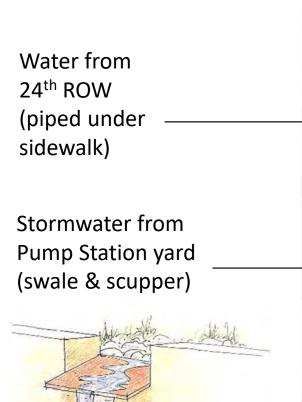


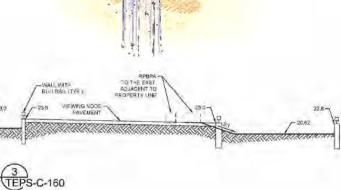
Common Rush (Juncus effusus)

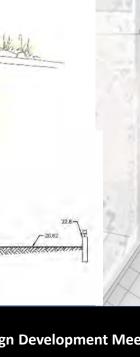


Miscanthus Little Bunny (Pennisetum alopecuroides 'Little Bunny')

BIORETENTION - GSI FACILITY









24th ROW & GSI Stormwater Conveyance

Weirs

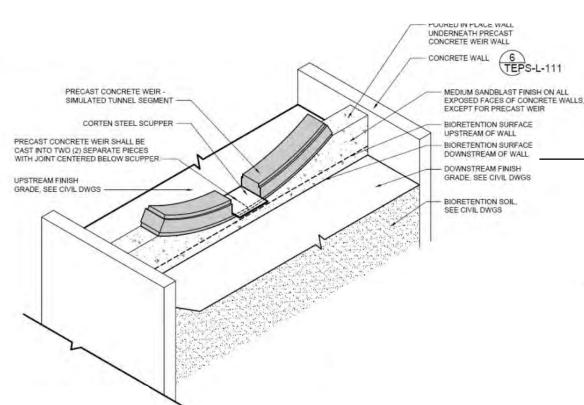
- Simulated tunnel segment
 - Inside diameter 18'-10", segments 11" thick, 5' wide, 10' long



Tunnel segment



Typical Section





Previous designs

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









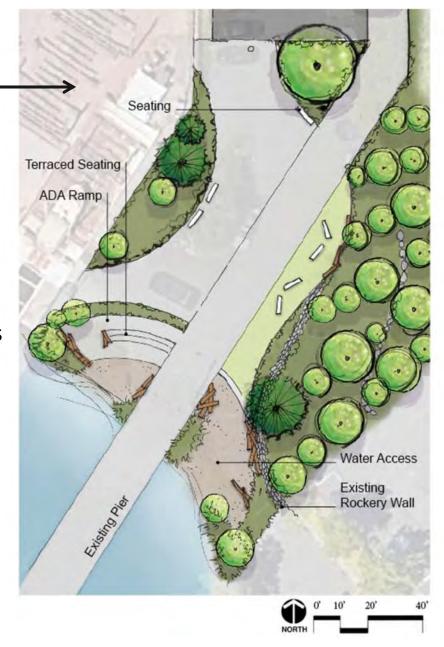
Outreach

- 4 concepts
- 490 online survey responses











- Site lighting
- Site furnishings
- Design refinements







Flexible scored concrete space with bollard lights for community programming

Exposed aggregate pattern — (matches existing pier pattern)







Trash, recycle, and — dog waste receptacles



Bike racks



Large wood timber benches (with backs)









Split rail wood fencing



Boulders & logs — mixed in with shoreline planting





ADA accessible beach with seating



Salvaged granite slabs — (separates beach & lawn)



Street End

Vehicle Circulation



Other vehicular access (controlled access)

Pedestrian & Bike Circulation



Secondary access



Bioswale -

ADA access

Existing removable - wood bollards

Hand carry boat launch





Phytoremediation

Updates:

- Refinements in plant species
- Site lighting
- Split rail wood fencing

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



Spiraea fristchiana Korean Spirea

Petroleum Tolerant



Cistus x purpureus Purple Rock Rose





Narratives	Direct Approach	Subtle Approach
Coast Salish	Updated to be a separate contract	Public ArtPlant materials
Timber Industry		 Wood benches, bull rail, logs
Maritime Industry (past & present)		Tower trellis
SPU Ship Canal Tunnel & Pump Station	Requires more time to develop with multiple stakeholders to review information	Tower & lightingWeir tunnel segments
Stormwater aboveground		Bioretention cellsConveyance swales & scuppers
Stormwater belowground	Spaces provided for creative solutions to interpret narratives	Tower lightingPaving inlays in sidewalk
Working Landscape		 Urban tree farm Phytoremediation GSI Tower



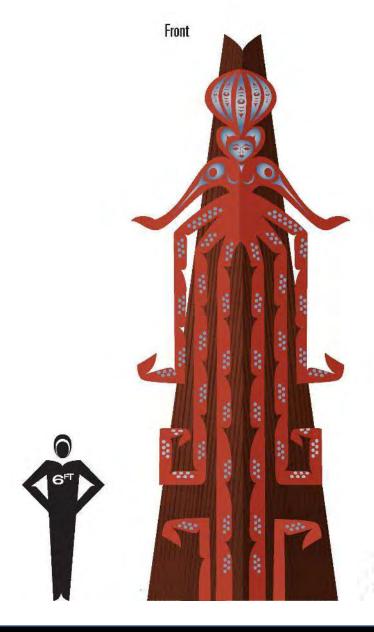


















Ballard Water Station Concept Round 4 Inspiration/story

A S'KLALLAM TALE: SEDUCTION OF THE MOON

Octopus woman, a queen of the Salish sea would go out each night and dance while gathering food for herself under the light of the Moon.

Every night while The Moon shown brightly, she would playfully dance around his reflection to show her love and gratitude for helping her hunt.

Her movements were a ballet that spoke to directly to the Moon's soul.

For hours she would perform under his light, until she had her fill and then she would sleepily return to her home

Watching her graceful movements, a beautiful seduction of motion, the Moon became smitten with Octopus Woman. He was so enraptured by her dance and beauty that he would blow her countless kisses that would land gently upon the skin of the emerald sea.

However being in love, he did not think of what his kisses might do and didn't realize that some of the sea creatures would absorb the light he sent from his heart, and as a result that is why certain fish and plankton glow at night and in the deep.













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.



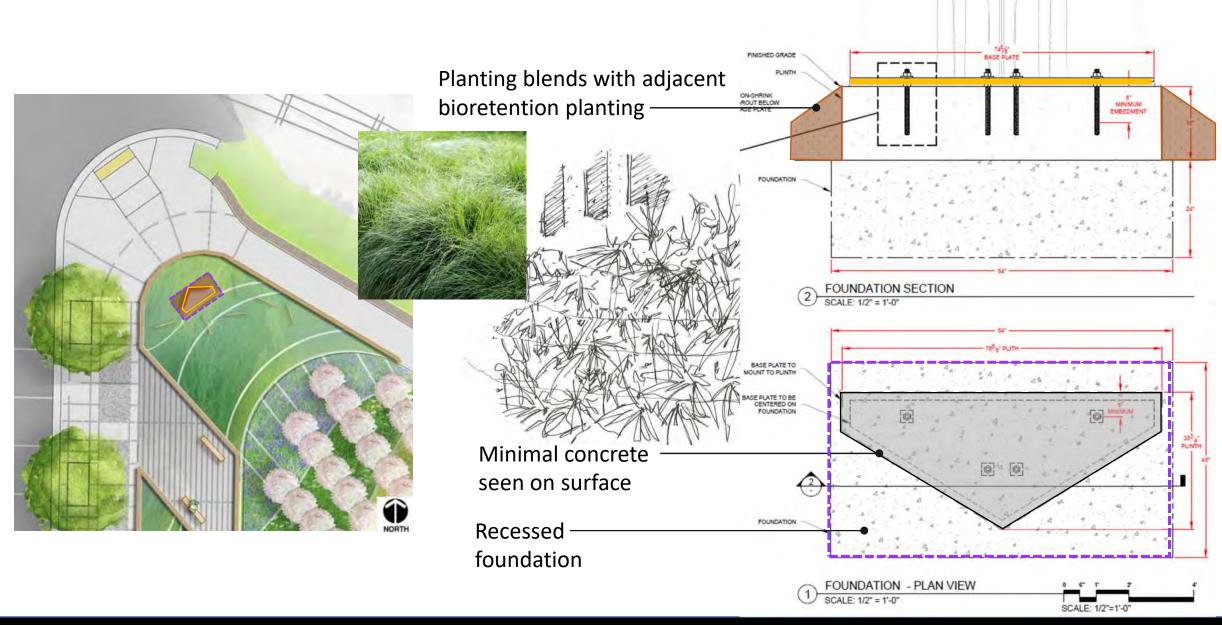








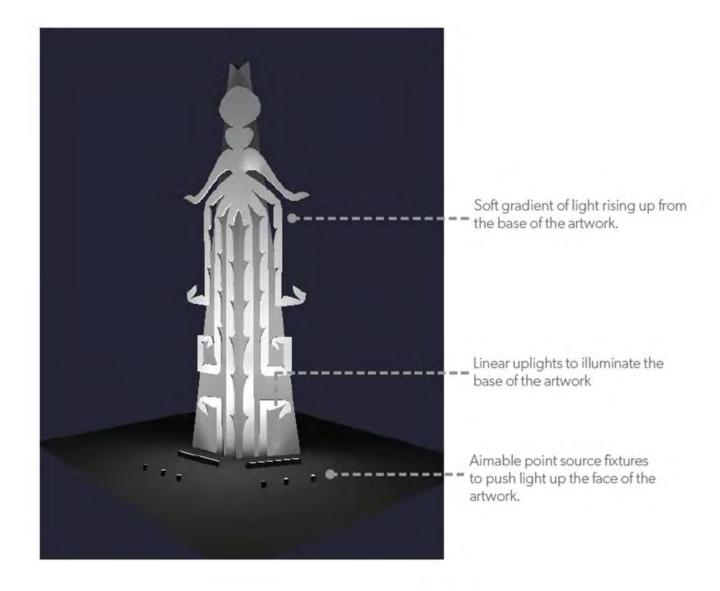




Schematic Design Recommendation

8. Consider **ambient light**, the multitiered and sided characteristic of the art, and the pedestrian perspective. Concern lighting might be **too bright for the surroundings** and could distract immensely from the art.









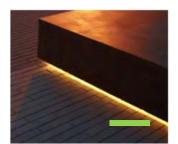
Pedestrian Fixture, 14' PoleUrbanScape LED



Bollard Hess Linea S 900



UplightBK Lighting
HP



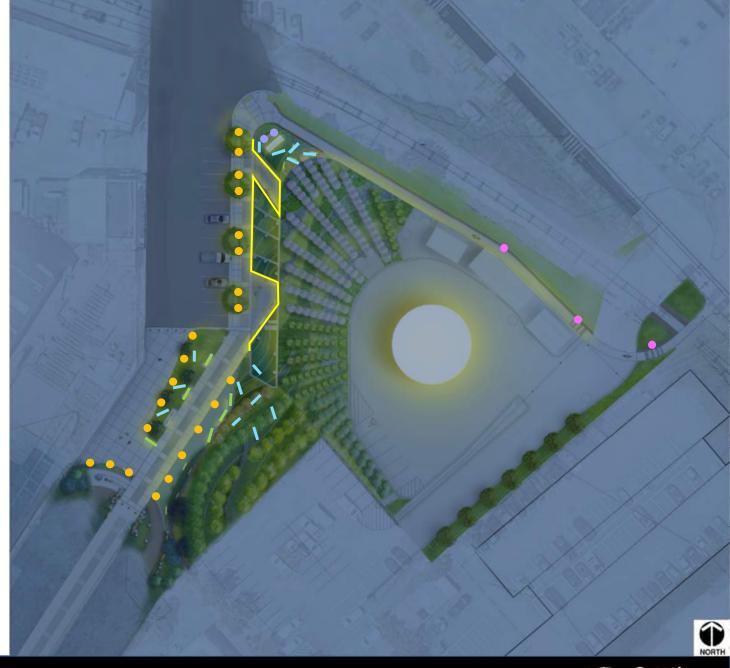
Bench Light Q-Tran



Linear Light Q-Tran



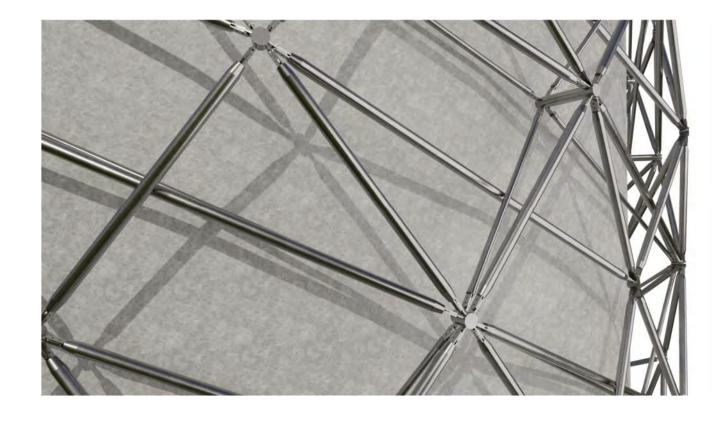
"Firefly" Light Q-Tran











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





Schematic Design Recommendation

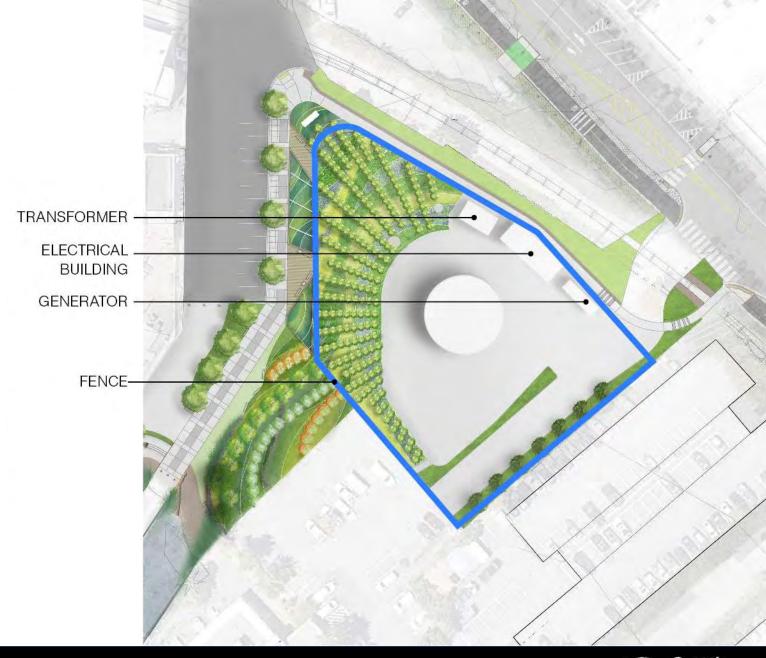
9. Consider a more **permeable, transparent material** for the fence.

FENCE AND ANCILLARY EQUIPMENT



















Contact:

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Program Manager, Ship Canal Water Quality Project alan.lord@seattle.gov

