

Design Advisory Group Meeting #6

Thursday, February 18, 2016 6:00 p.m. – 8:00 p.m.



Community Outreach

- Near neighbor outreach
 - 121 people at 111 businesses
 - 6 languages
- Martin Court
- Partnerships
 - Georgetown Community
 Council
 - Office of Sustainability and Environment
 - Maple Elementary
 - South Seattle College
- Equity and Social Justice Action Plan





- Reflect the **individual character** of the neighborhood; from whimsical to hard working, industrial to residential, and handmade to natural systems.
- Enhance air and water quality while making both natural and treatment processes visible.
- Enhance the **understanding of public wastewater infrastructure** through education and employment opportunities.
- Balance the **public and private spaces** to meet the needs of the utility and the community.
- Acknowledge the place, history, color palette, and transformations over time in Georgetown.
- Humanize the design by expressing craft, grit, and elegance at all scales, resulting in a place of neighborhood pride.
- Create a facility that is **environmentally and socially sustainable** through conservation, efficiency and stewardship.
- Reflect the value of and connection to the Duwamish River and its benefits for the region.

DESIGN GUIDELINES



PROPOSED HISTORIC MILE MARKER 3 EAST

HISTOR

1.00

RIVER OXBOW

P13

SR 509

E. MARGINAL WAY S.

4TH AVENUE S.

STRAITS

. MICHIGAN ST.

P13-L

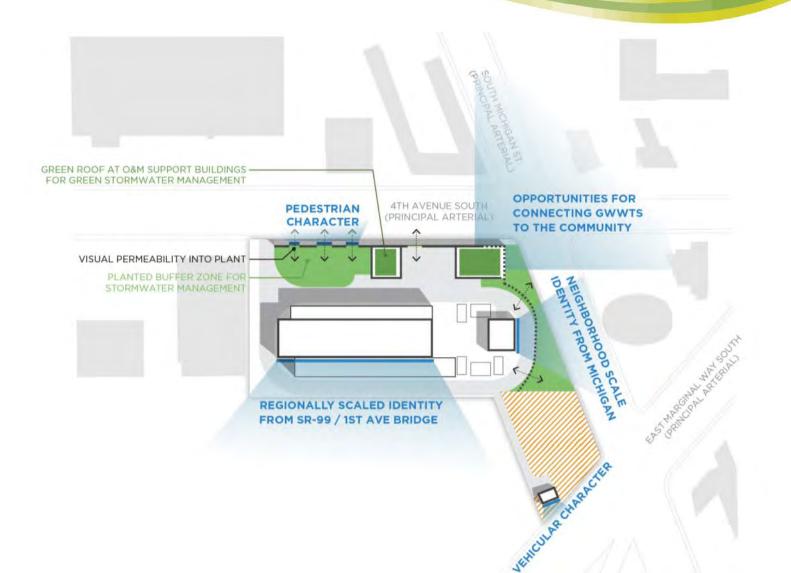
PROPOSED HISTORIC MILE MARKER 3 WEST

1ST AVENUE S.

SR 99

1ST AVE BRIDGE



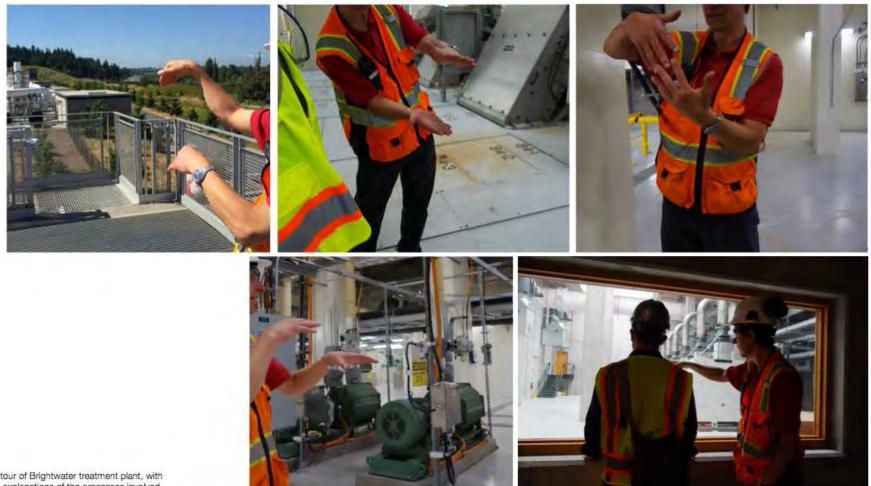


CSO ART MASTERPLAN

CALLY.

Development updates





The tour of Brightwater treatment plant, with thorough explanations of the processes involved.

BRIGHTWATER



Lincoln Park Way, GSI on 34th Ave SW, Hanford 1



Bob Peterson

Tribal Liason, Duwamish Revealed, Riverside Memorial



RIVERSIDE MEMORIAL

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APPETITE

- > A program of art of global significance, presence, status, reputation
- > Fulfill (if not exceed) community expectation
- > Connect and involve folks outside CSO not to be in isolation
- > Increase knowledge and understanding of infrastructure and environment
- > Work of scale and impact Less little bits
- > Create and emotional connection to the CSO system for citizens

CITY-WIDE SYSTEM





STORAGE

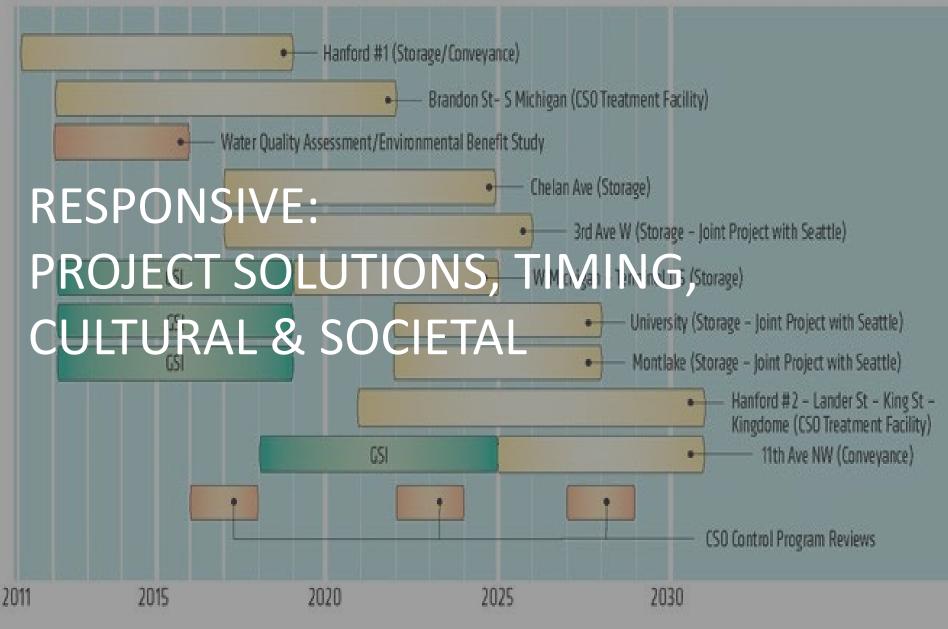
TREATMENT

CONVEYANCE

FUNCTIONS

GREEN STORMWATE

Schedule to Complete CSO Control Plan by 2030



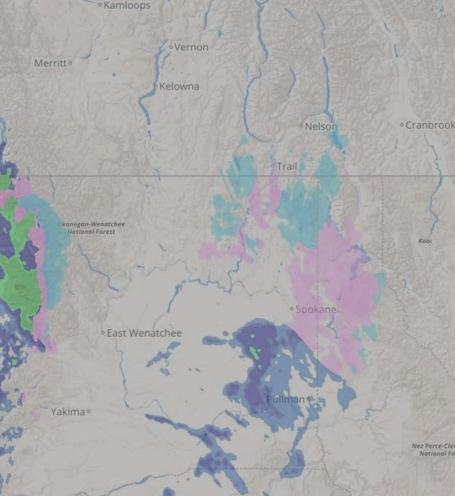
Note: All project timelines include planning, design, and construction pha

ISSUE BASED

1. WEATHER

Campbell River

Eugeneo



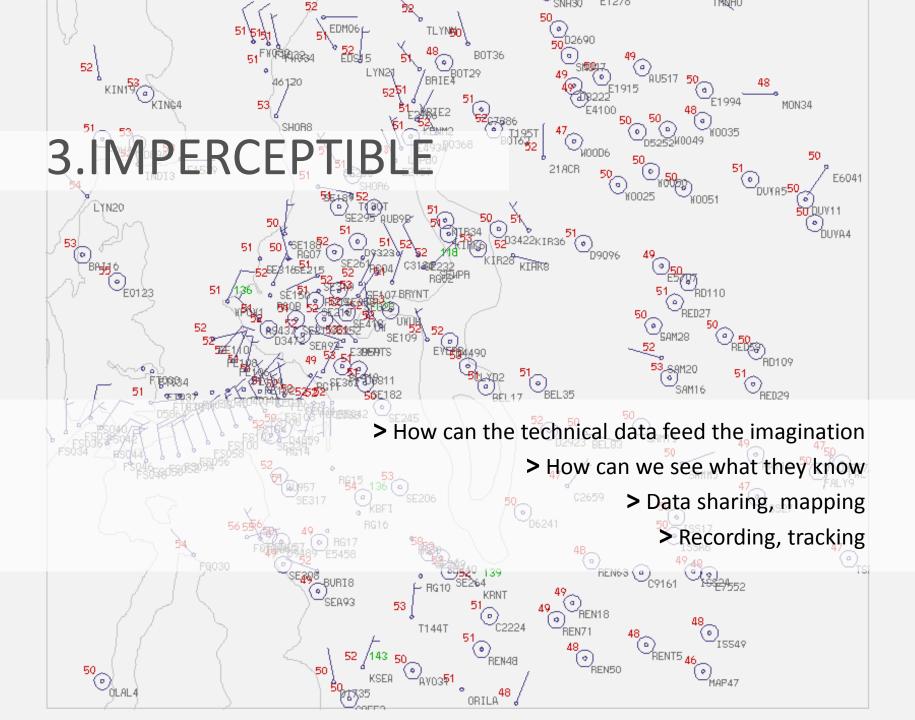
Malheur National

Connection between the weather over our heads and the system under our feet is imperceptible.
 CSO directly responds to wider environment & weather conditions
 Seattle rain, Anticipation/prediction

Bend o

2. HIDDEN RIVERS / INVISIBLE ARCHITECTURE

> Underneath the city, hundreds of miles of (water) pipes crisscross our neighbourhoods, some big enough to drive cars through them.
 > This whole built infrastructure allows the visible city above ground to operate but is rarely thought about.
 > where in the system does the work happen, cycle of visible/invisible, points of contact



4. THE MAGICIANS

The stories, the legends, the faces
 Ambassadors
 The weight of the work: the balance and critical nature of keeping the system going

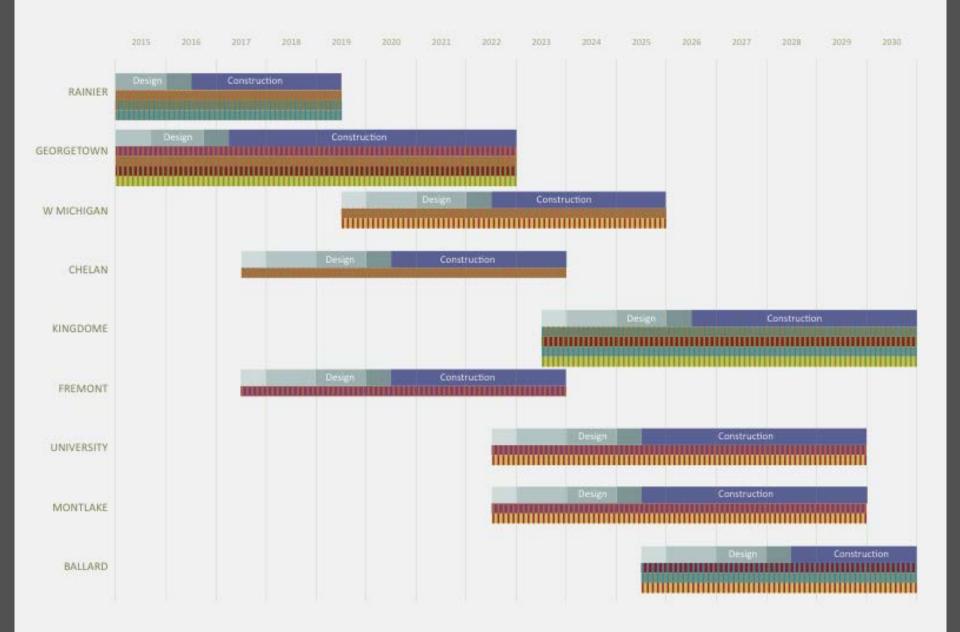
5. END OF THE LINE

Connecting the hills to the rivers
 Relationship to natural environment, recreational, cultural, historical
 Impact/result (time); All the effort in building the CSO system to avoid the end of line question / issue / problem

RELATIONSHIPS: INFORMED, IN-DEPTH, FOCUSED



VARIETY OF APPROACHES



COMMISSIONS

- > 8 areas of work
- > 14 commissions
- **>** 15 years
- > 9 sites



Concept Development

Water Systems

Materials & Visible Processes

Community Edges



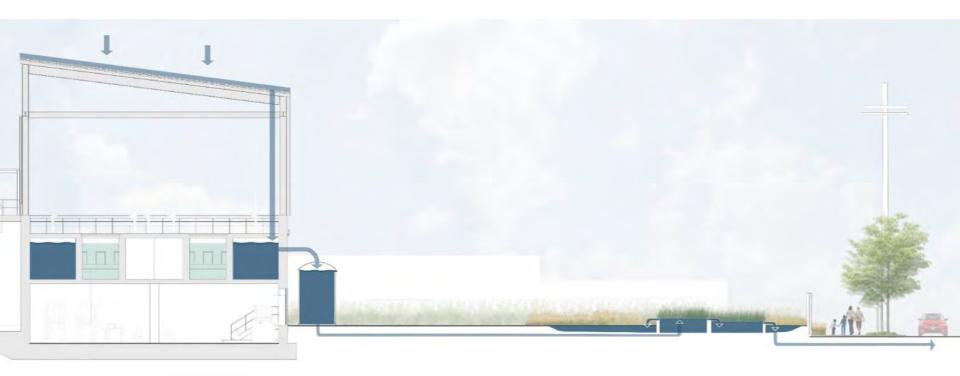
Surface Water Systems

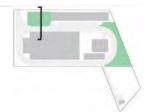
Enhance air & water quality while making processes visible Understanding of public wastewater infrastructure Environmentally & socially sustainable Connection to the Duwamish River



Rainwater Capturing – 4th Avenue

35,000 gallon provides 35% of irrigation needs







Rainwater Capturing - Michigan

35,000 gallon provides 35% of irrigation needs





Vegetated Roof

Size: ~6,000 SF

Type: Pre-Grown Vegetated Mat Depth: 4" Lightweight Soil Media Edge: Vertical metal edge w rock ballast Irrigation: Pop-up spray irrigation

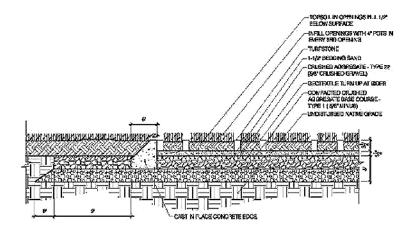






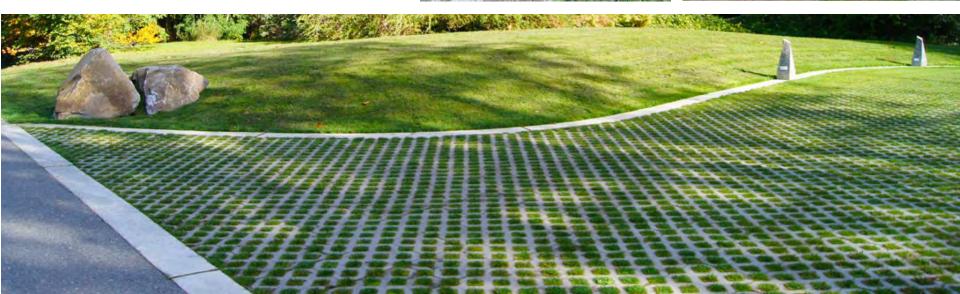


Reinforced Turf





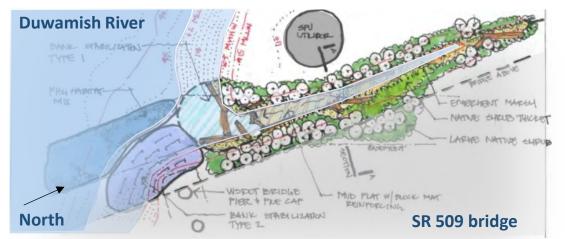


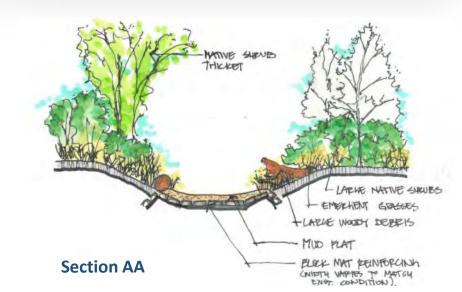


GEORGETOWN Wet Weather Treatment Station

King County Protecting Our Waters Doing our part on rainy days

Outfall





Plant schedule



EMERGENT MARSH: CAREX LYNGBYEI CAREX OBNUPTA JUNCUS ENSIFOLIUS SAGITTARIA LATIFOLIA SCIRPUS MICROCARPUS

LYNGBYE'S SEDGE SLOUGH SEDGE DAGGERLEAF RUSH WAPATO ARROWHEAD SMALL FLOWERED BULLRUSH



NATIVE SHRUB THICKET: CORNUS STOLONIFERA SALIX SCOULERIANA

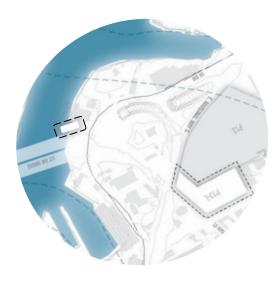
RED-OSIER DOGWOOD SCOULER'S WILLOW

LARGE NATIVE SHRUBS: AMELANCHIER ALNIFOLIA

HOLODISCUS DISCOLOR RUBUS PARVIFLORUS RUBUS SPECTABILIS RIBES SANGUINEUM

SYMPHORICARPOS ALBUS

SERVICEBERRY OCEANSPRAY THIMBLEBERRY SALMONBERRY RED FLOWERING CURRENT COMMON SNOWBERRY





Materials and Visible Processes

Making the Invisible Visible

Reflect the value of and connection to the Duwamish River and its benefits for the region Reflect individual character of neighborhood Enhance understanding of public wastewater infrastructure Acknowledge the place, history, color, & transformations Humanize design by expressing craft, grit, & elegance



Materials and Visible Processes

Refined, modern industrial front door to West Georgetown



Materials and Visible Processes Align Structures and Processes



Materials and Visible Processes Move large structures away from the corner



Materials and Visible Processes

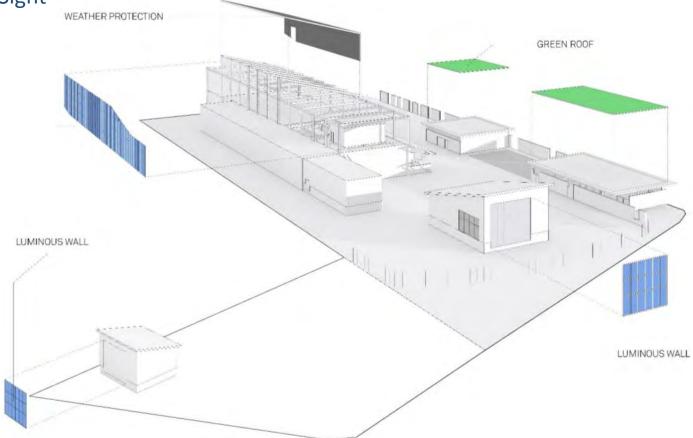
Locate smaller, occupied buildings along the property line



Materials and Visible Processes Showcase the Machine and its operation



The Machine Hidden in Plain Sight





The Machine Hidden in Plain Sight WEATHER PROTECTION GREEN ROOF LUMINOUS WALL LUMINOUS WALL



The Machine Hidden in Plain Sight WEATHER PROTECTION GREEN ROOF LUMINOUS WALL LUMINOUS WALL



GREEN ROOF

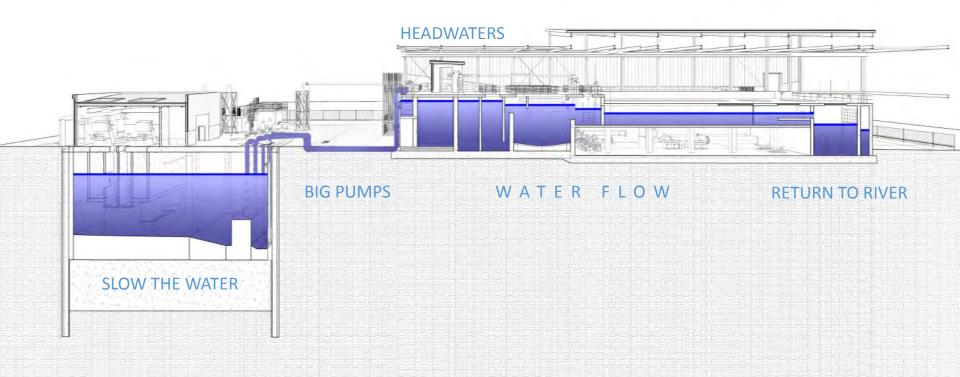
The Machine Hidden in Plain Sight WEATHER PROTECTION LUMINOUS WALL

LUMINOUS WALL



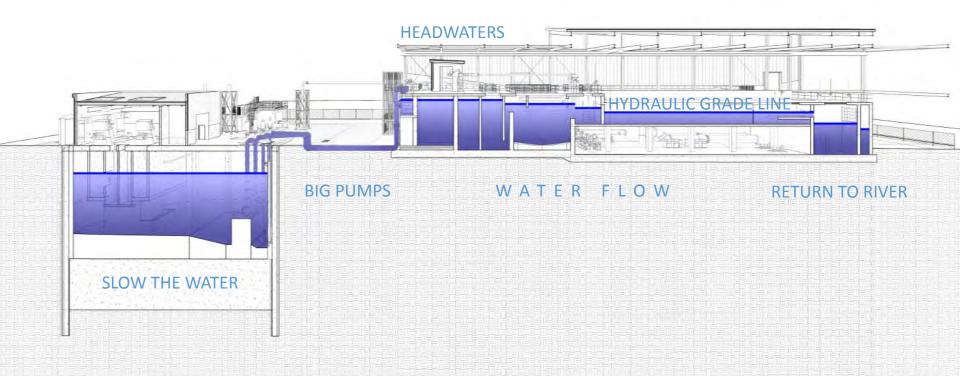


The Machine Making the Invisible Visible



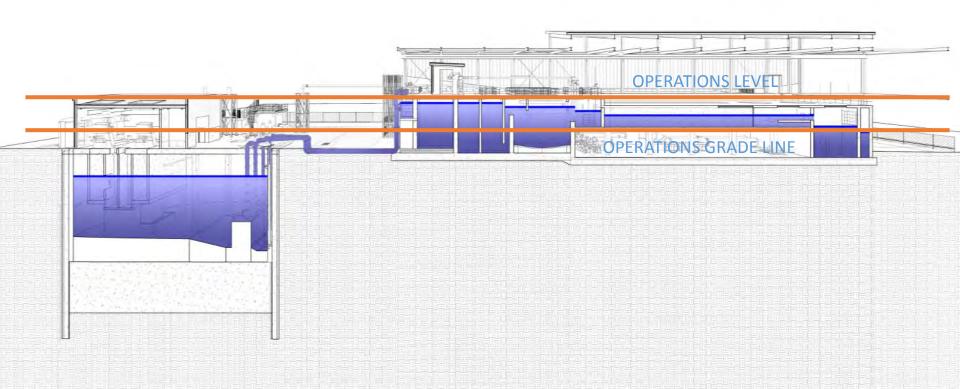


The Machine Making the Invisible Visible





The Machine Making the Invisible Visible







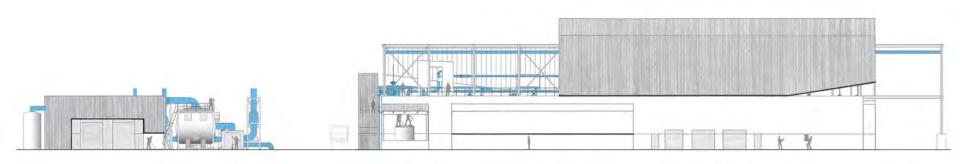








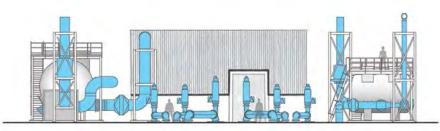




EAST ELEVATION - INTERIOR



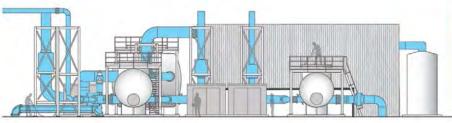




NORTH ELEVATION



SOUTH ELEVATION







WEST ELEVATION



Corrugated Siding Types



VEE

NU WAVE





WIDE CHANNEL



Community Edges

Reflect individual character of neighborhood Enhance air and water quality while making both natural and treatment processes visible. Enhance understanding of public wastewater infrastructure Acknowledge the place, history, color, & transformations Humanize design by expressing craft, grit, & elegance



4TH Avenue South



OPERATIONS AND MAINTENANCE BUILDING VIEW WINDOWS THROUGH PERIMETER ENCLOSURE PROCESS BUILDING BEYOND







SCREENINGS BUILDING (PROCESS BUILDING BEYOND) O+M BUILDING TRAINING ROOM













Neighborhood Connection

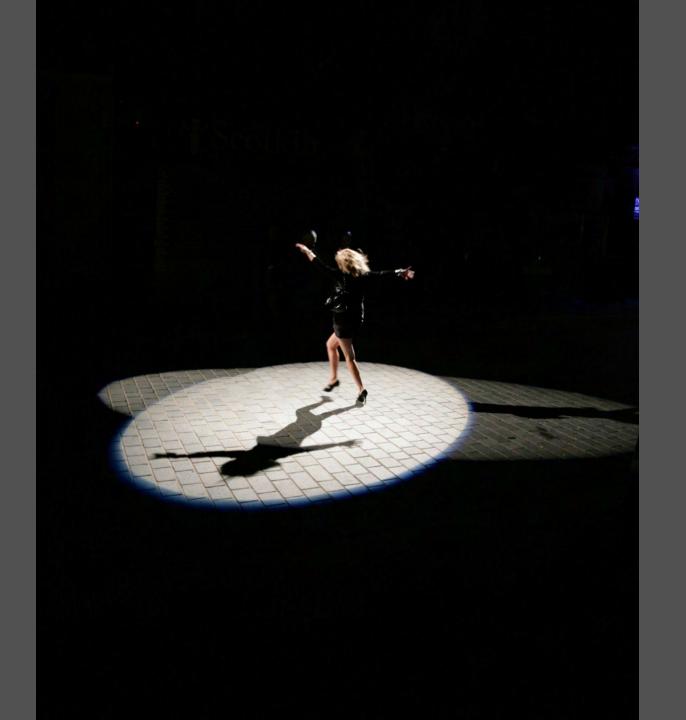








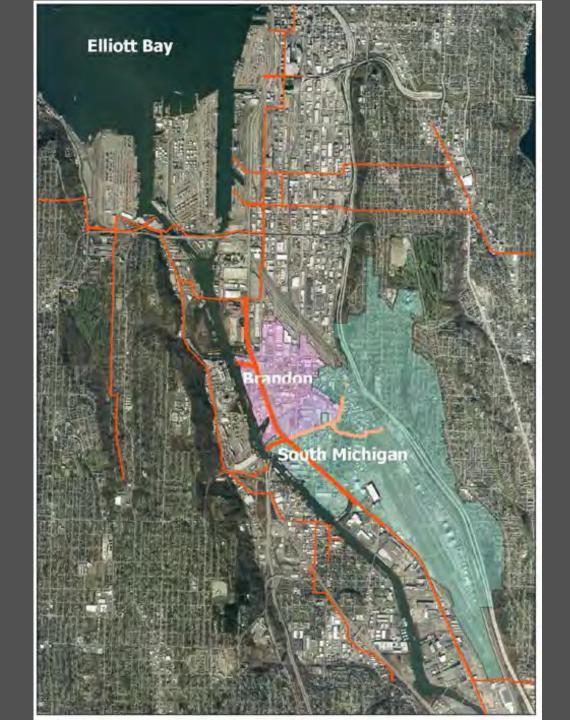


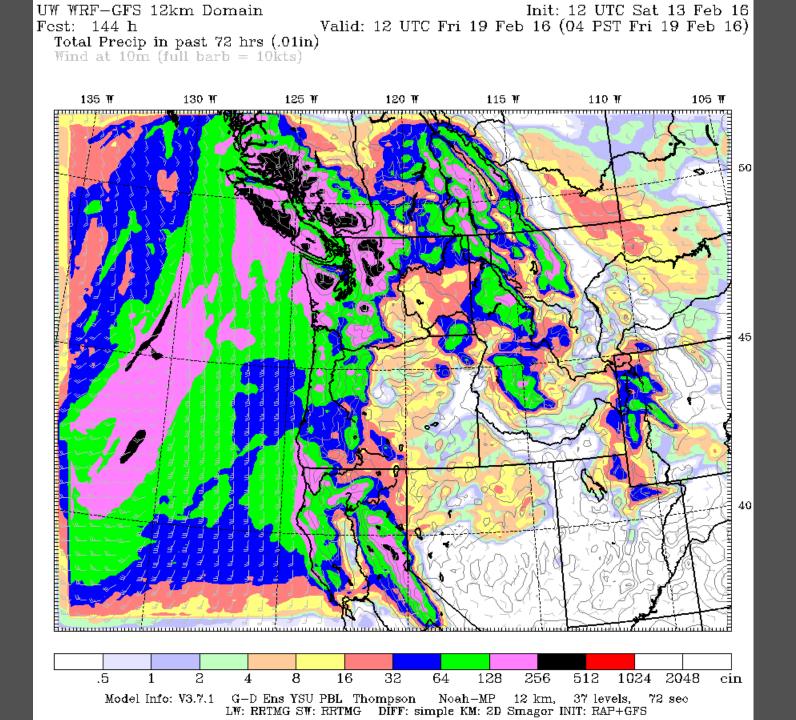


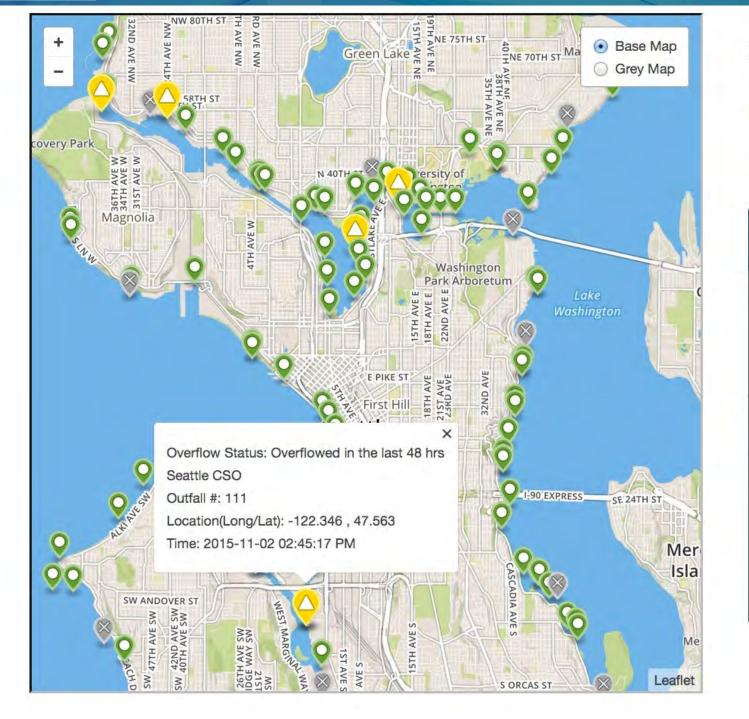












Legend

Overflowing now Overflowed in the last 48 hrs No recent overflow

Data not available

Health Questions?

Public Health Seattle & King County answers questions about CSOs

206-205-1151

Frequently asked questions about public health and CSOs



SEATTLE, WASH., THURSDAY, OCT. 24, 1918.

OFFICE, 1405 HOGE BUILDING. TELEPHONE, MAIN 363.

FORECAST TILL & P. M FRIDAY.

For Seattle and Vicinity: To-night and Friday, rain; gentle southwesterly winds.

- For Washington: To-night and Friday, rain.
 - WIND FORECAST

For Sounds and Strait: Gentle southwesterly winds. For Coast: Gentle southwesterly winds.

SUMMARY OF WEATHER CONDITIONS.

Barometric pressure is high in Oregon and over the northern Rocky Mountain Slope, and relatively low in the northwestern Canadian provinces. The change in temperature has been slight, except in the Atlantic States, where it has increased several degrees.

Heavy frost occurred at Yakima last night. Light rain has occurred within the last 24 hours in western and southeastern Washington and a flurry of snow was reported at Kalispell, Mont., this morning. Scattered showers have occurred in Minnesota, South Dakota, and Wyoming.

In the last 12 hours the pressure has decreased in Washington, and the indications are for rain in the Puget Sound country to-night and Friday with moderate southwest winds.

A trough of low pressure extends throughout the Mississippi Valley, with two centers of disturbance: one in northern Missouri, the other, more energetic, in Louisiana. Heavy rain has fallen throughout much of the valley from New Orleans to St. Louis, and on as far as Chicago, where over an inch of rainfall has occurred in the last 12 hours.

G. N. SALISBURY.

SHIPPERS FORECAST.

Minimum temperatures during the next 36 hours: northward to Blaine, 44°; eastward to Spokane, 44°; southeast to Walla Walla, 46°; south to Portland, 48°: at Seattle about 50°.

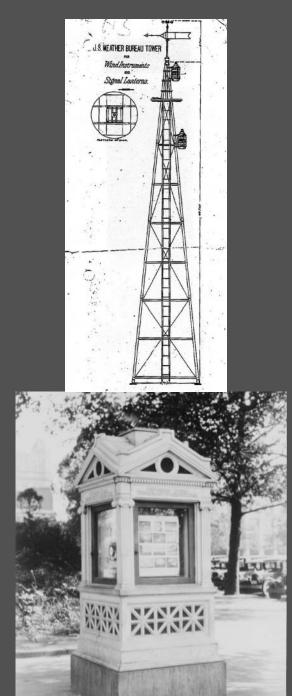
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STATIONS.	As 8 a. m. 75th meridian time.	Change in 24 hours.	Highest yesterday.	Lowest inst night	Wind velocity 8a.m 75th meridiantime.	Precipitation in last 24 hours.	STATIONS	At 8 a. m. 75th moridian time.	Change in 24 hours.	Highest	Lowest inst night.	Wind velocity 8 75th meridian ti	Unsuit of Italian
Abilene, Texas Baker, Oregons Billings, Mont Bolse, Idabo Boston, Mass Buffalo, N. Y. Calgary, Alberta. Chicago, Illinois Denver, Colorado. Des Moines, Ia Edmonton, Alta	54 34 28 36 44	1+1++++++1	66 44 52 48 60 62 42 58 68 68 68 68 68	54 34 28 36 42 46 20 56 40 60 10		0 0 0 1.16 0 0	Phoenix, Arizona Pittsburg Pa Portland, Oregon Prince Albert, Sask Red Blurf, Calif Roseburg, Oregon. Rosewell, N. M Sacramento, Calif St. Louis, Mo St. Paul, Minn	58 50 38 50 58 38 60 46	+2 + 4 + 4 + 6 + 2 + 2 + 4 + 2 + 4 + 2 + 4 + 2 + 4 + 2 + 4 + 6 + 2 + 2 + 4 + 6 + 2 + 4 + 6 + 2 + 4 + 6 + 2 + 6 + 2 + 6 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2	78 68 48 52 38 74 58 66 76 62	56 48 34 44 58 38 46 58 46		0 0 0 1.18
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THE FOLLOWING OBSERVATIONS TAKEN YESTERDAY.

Dutch Harbor Als Fagle, Alaska Honolulu.H. Is Juneau, Alaska Nome, Alaska	28 8 76 12	++	4 50 4 8 2 82 5 20	42 - 8 		0 0 0	Prince Rupert, B.C. Sitka, Alaska, Tanana, Alaska, Triangle Island, BC Valdez, Alaska	36 42 4 46 32	-++++	86224	36 44 10 46 34	- 2	20 10	.5 0 .7
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LOCAL PRECIPITATION DATA.

YRARLY AVERAG	ER 24.	OM JANUARY 1 TO OCTOR	FROM JAN				
	AVERAGE.	LAST YEAR.	THIS YEAR,				
34.03	22.11	16.89	19.33				

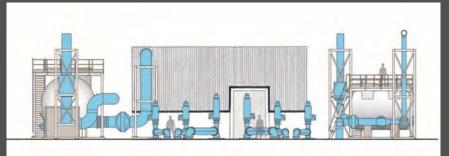


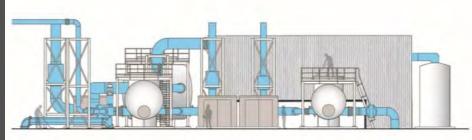










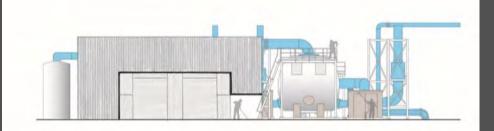


NORTH ELEVATION

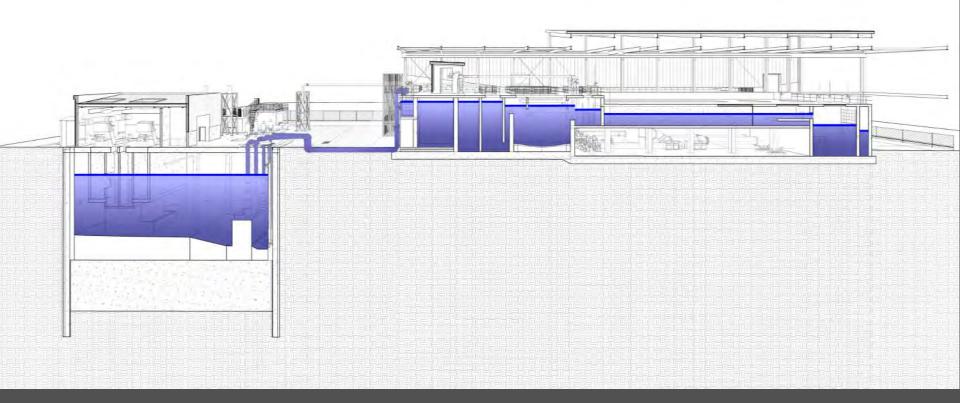
WEST ELEVATION

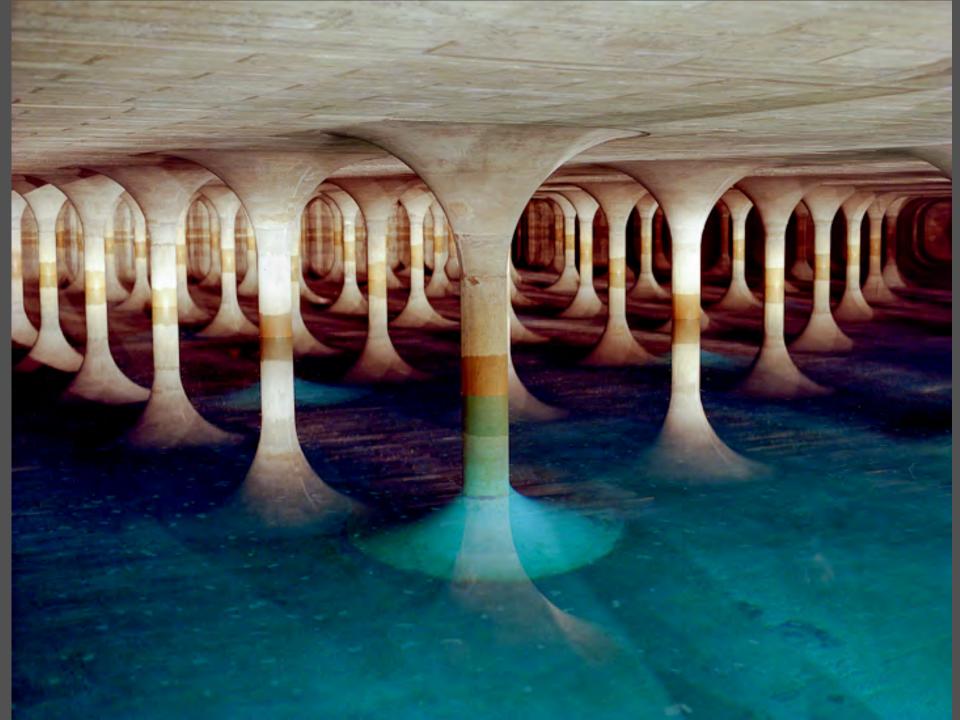


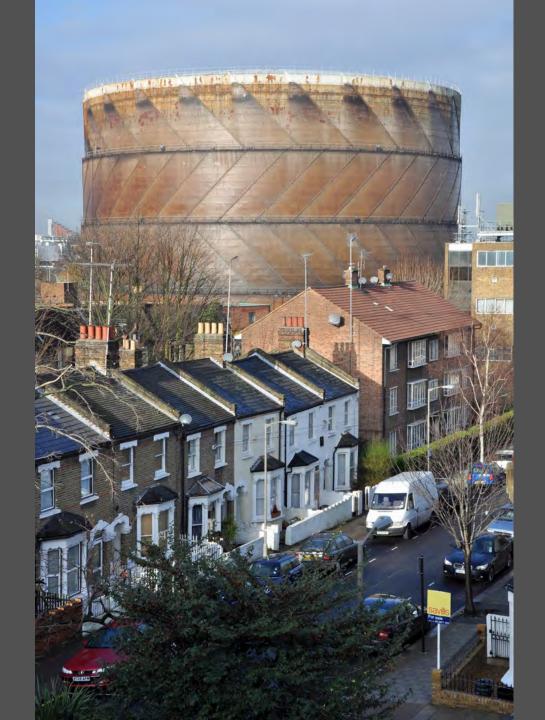
SOUTH ELEVATION



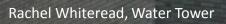
EAST ELEVATION





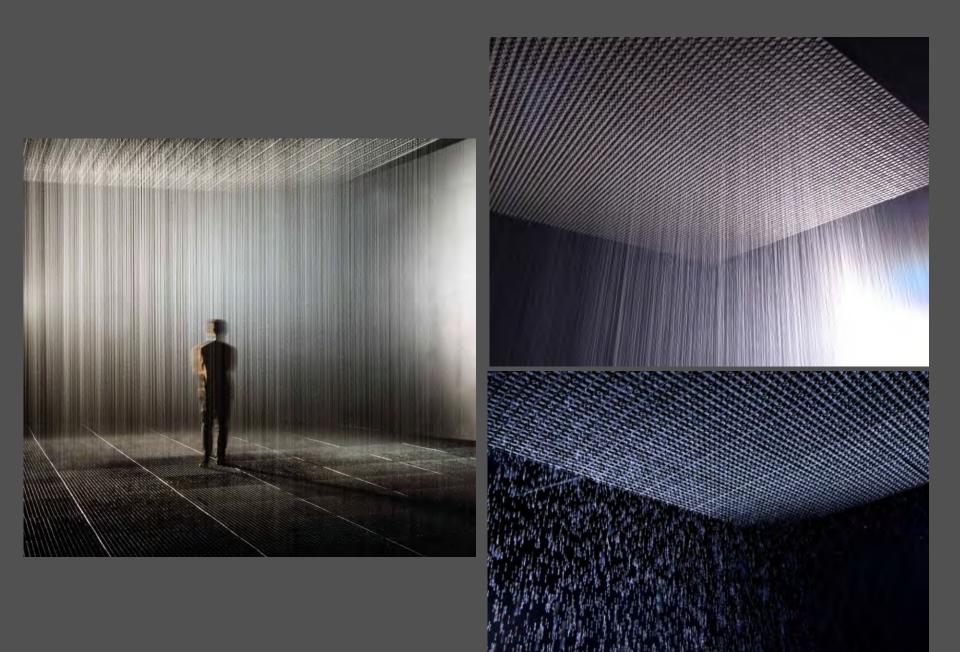












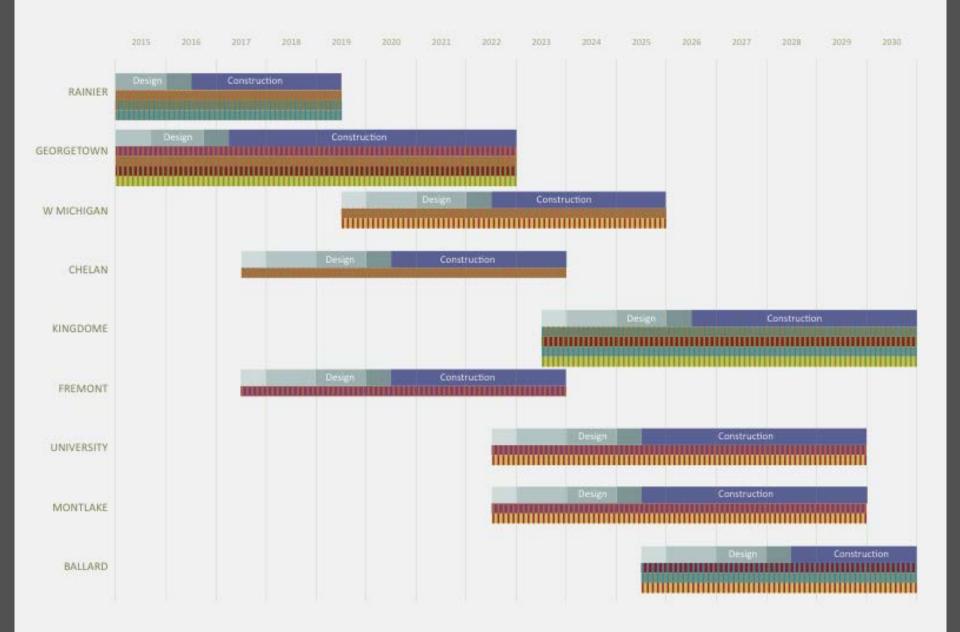
rAndom international, Torrential Rain, 2012



William Pye, Vortex



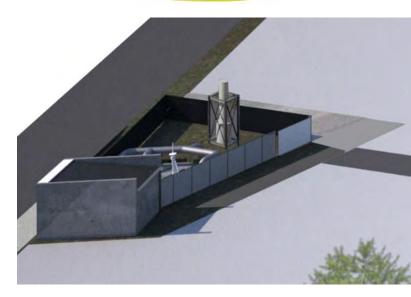
Storn Glass Admiral Fitzro 19th C s Storn Gass 19th C entury Oear Liquid : Fair Weather ^{Unky} Liquid : Rainy Weather ^{Oystals} at the top : Thur derstorns ^{Ung}e Flaky Crystals : Cloudy skies.snow

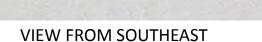




REGULATOR

King County Protecting Our Waters Doing our part on rainy days







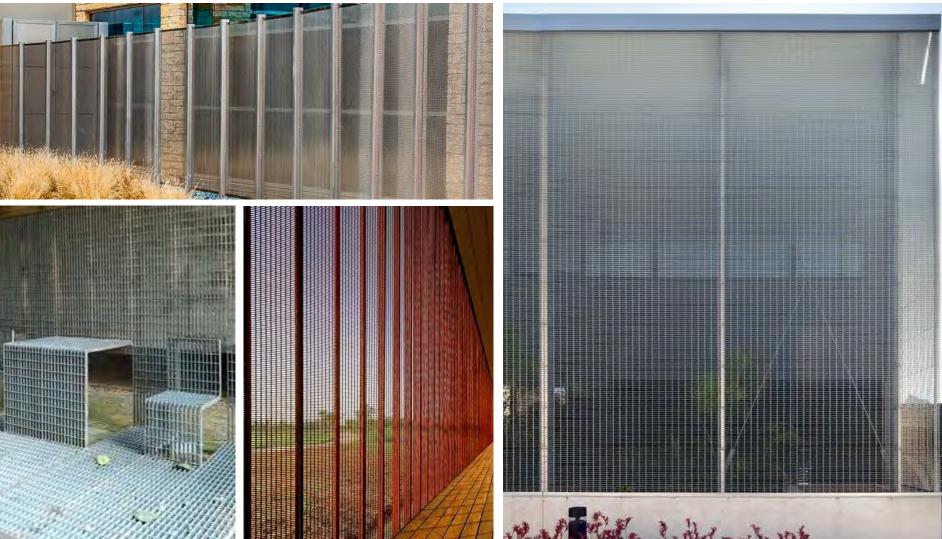


Fence Typologies

Reflect individual character of neighborhood Enhance understanding of public wastewater infrastructure Acknowledge the place, history, color, & transformations Humanize design by expressing craft, grit, & elegance



Bar Grating



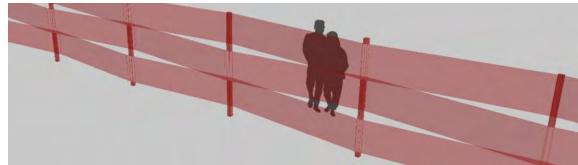


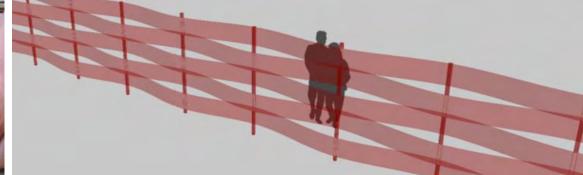


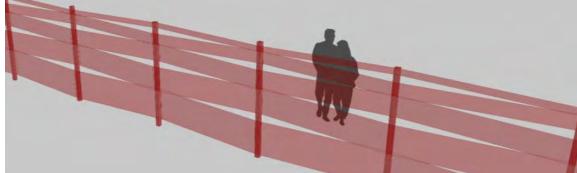














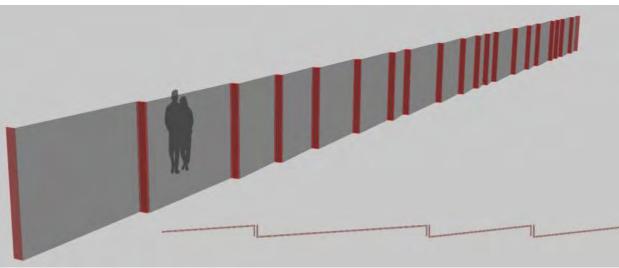


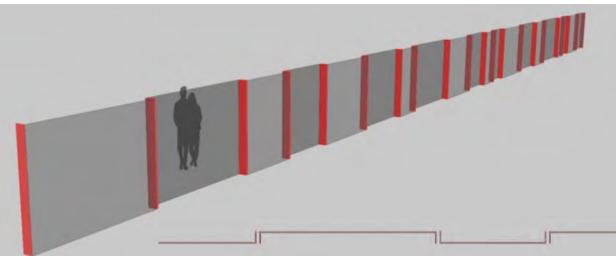


















Planting Typologies

Enhance air & water quality while making processes visible Understanding of public wastewater infrastructure Environmentally & socially sustainable Connection to the Duwamish River



Planting Typologies – Native





Planting Typologies – Adapted





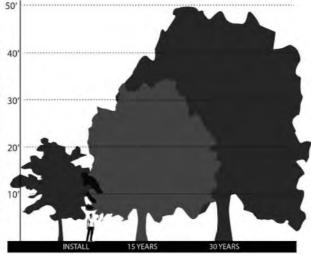
Street Trees - Michigan

Oregon White Oak Quercus garryana



Plant Habit: Loose Pyramidal Height: 50' | Spread: 30'-40' | Full Sun

Installation Size: 2-1/2" Caliper Required Seattle Streetscape Requirements: 6' minimum planter width

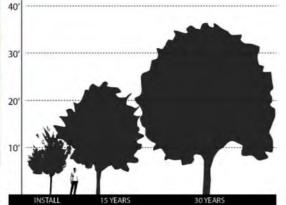


Allee Elm Ulmus parvifolia 'Emer II'



Plant Habit: Rounded Height: 45' | Spread: 30'-40' | Full Sun

Installation Size: 2-1/2" Caliper Required Seattle Streetscape Requirements: 6' minimum planter width





Street Trees – 4th Avenue



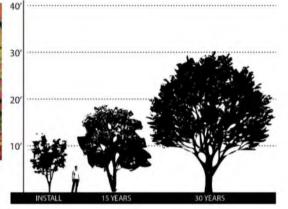
Vine Maple Acer circinatum





Plant Habit: Rounded Height: 30' | Spread: 20' | Full Sun

Installation Size: 2-1/2" Caliper Required Seattle Streetscape Requirements: 6' minimum planter width

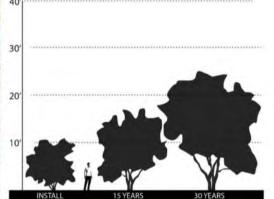


Marina strawberry tree Arbutus marina



Plant Habit: Rounded Height: 20' | Spread: 20' | Full Sun

Installation Size: 2" Caliper Required Seattle Streetscape Requirements: 6' minimum planter width











Feedback

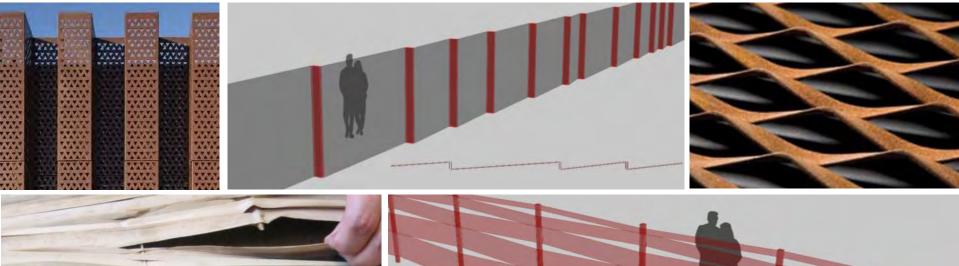
- Fence character
- Planting concept
- Accent colors
- Corrugated siding appearance



Bar Grating



Woven & Folded



"Weaving entails gathering our natural materials, which ties us to nature. Nature is our life force, which without, we could not survive."



Native or Adapted



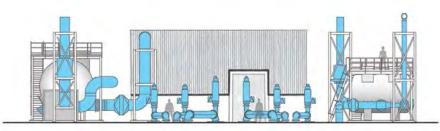








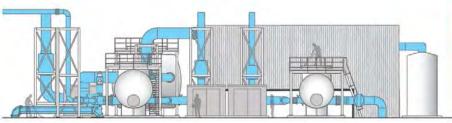




NORTH ELEVATION



SOUTH ELEVATION







WEST ELEVATION



Corrugated Siding Types



VEE

NU WAVE

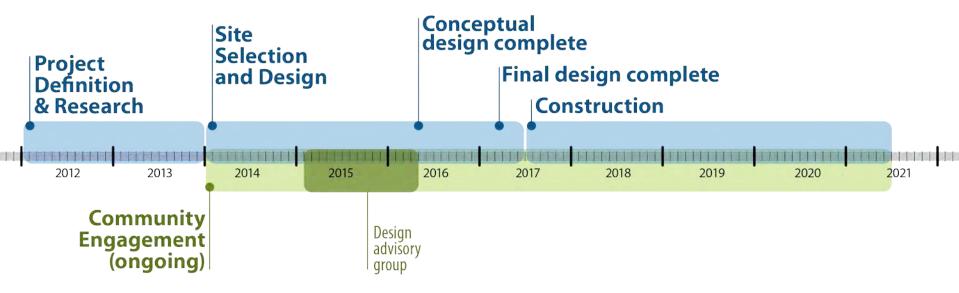




WIDE CHANNEL



Project Schedule





Next Steps

- Broad community outreach
- Evening of Art
- Continued partnership development
- DAG meeting at 60% design?



Thank you!

For questions or comments, please contact: Kristine Cramer 206-477-5415 kristine.cramer@kingcounty.gov www.kingcounty.gov/georgetownWWTS