#### Seattle Design Commission

March 17, 2011

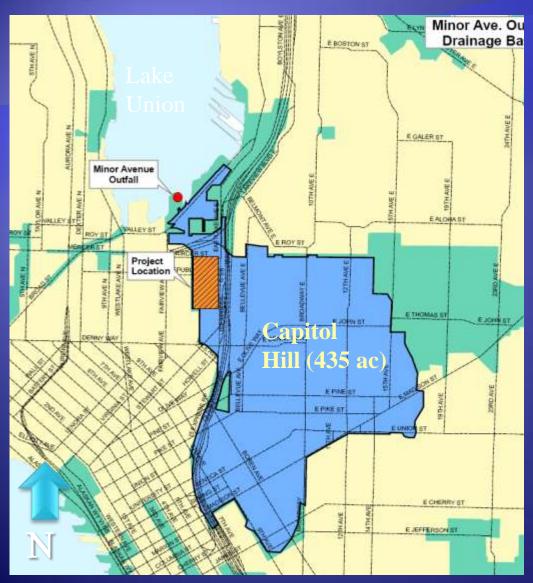
## CAPITOL HILL WATER QUALITY PROJECT (SWALE ON YALE)



## Meeting Agenda

- Project Overview
- 2. Schedule
- 3. Design Goals
- 4. Design Context
- 5. Design Elements

#### 1. Project Overview - Drainage Basin



- Combined area
- Separated area
- Separated area draining to Minor Ave outfall

## Cascade Neighborhood



#### **Context Aerial**



#### **Public-Private Partnership**

- The project is only possible with support from the adjacent property owner:
- Voluntary 1-ft building set back provides extra room in the right-of-way
- Shared construction costs
- Shared maintenance
- Shared vision of sustainability
- Shared coordination and team work

#### Water Quality Improvements



#### 2. Project Schedule

Phase	2010	2011	2012	2013	2014	2015	2016	2016 - 2018
1. & 4. Conveyance	Desi	gn Ad E	Build					
2. Northern Swales	Des	ian II	eveloper enstruction	Swale Construc	tion			
3. North Block Repaving	Desi	gn		Ad Roa	dway			
5. Southern Swales*					Design		veloper struction	Swale Construction
6. South Block Repaving*	Desig	gn						Ad Road
Plant Establishment Monitoring					Plant Es	stablishme	ent and Mo	onitoring

SPU Lead

Developer Lead

\* Timing of South Block work depends on market conditions

#### 3. Design Goals

Create a Functioning Sustainable

#### "Water Cleansing Machine"

- Provide safety for all users
- Provide efficient crossing and access to site and street
- Provide pedestrian-scale friendly aesthetic treatments
- Create a cohesive design that fits the street realm and integrates with the development
- Design to be easily maintainable

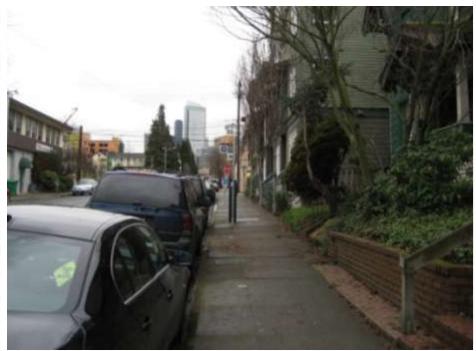
# 4. Design Context - Neighborhood Street Realm





#### Pedestrian Realm





## Parking & Travel Lanes



#### Block 10 Development

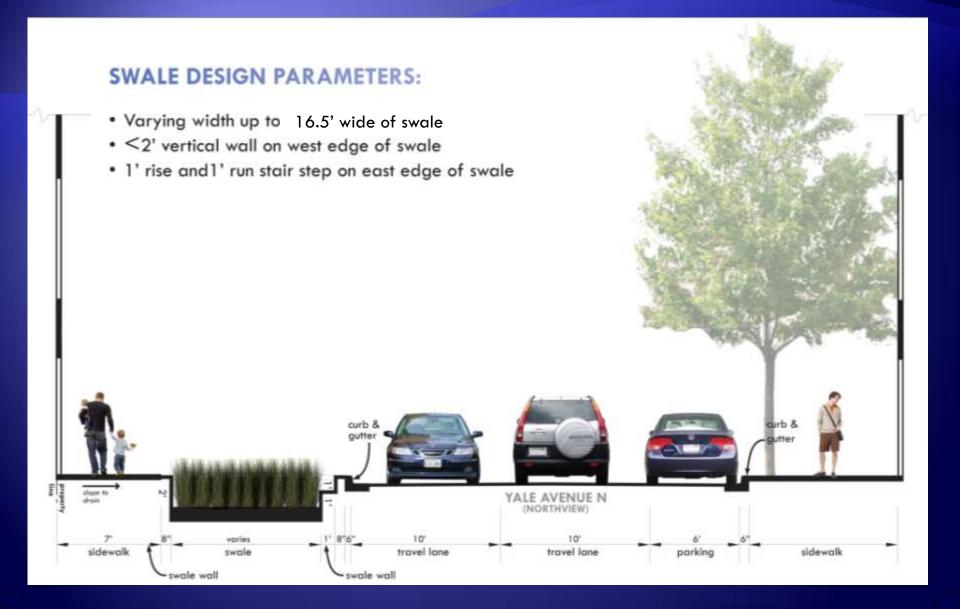
YALE AVENUE N

**Supply Laundry New Mixed Use** Building BLOCK 10 Development **New Mixed Use New Mixed Use** Swale PONTIUS AVENUE N

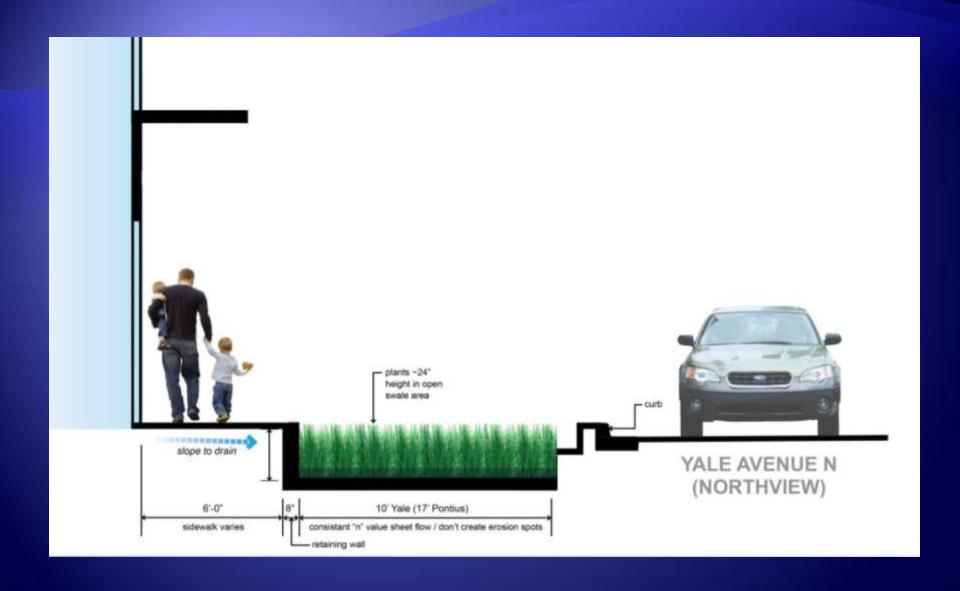
REPUBLICAN ST

HARRISON ST

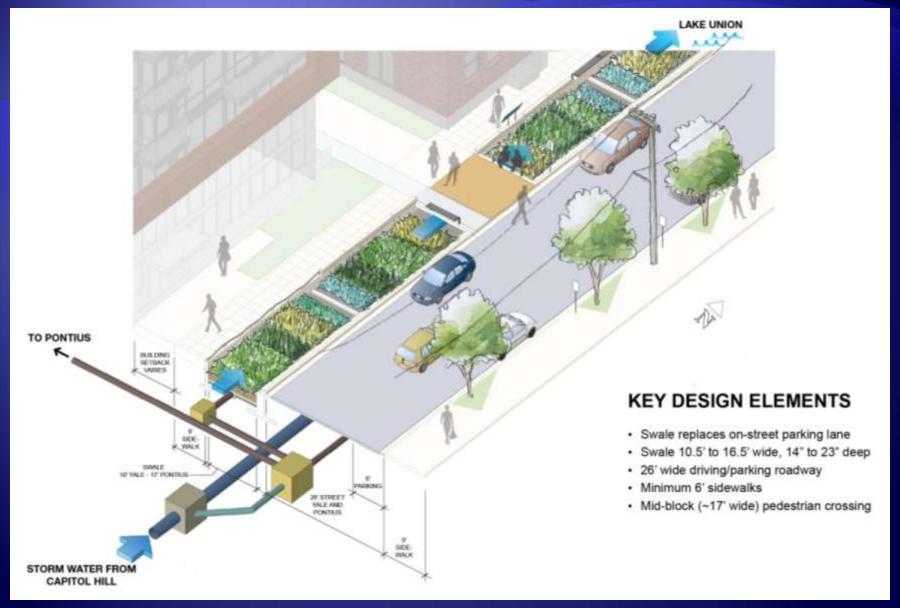
#### Street Realm Section



#### **Swale Section**



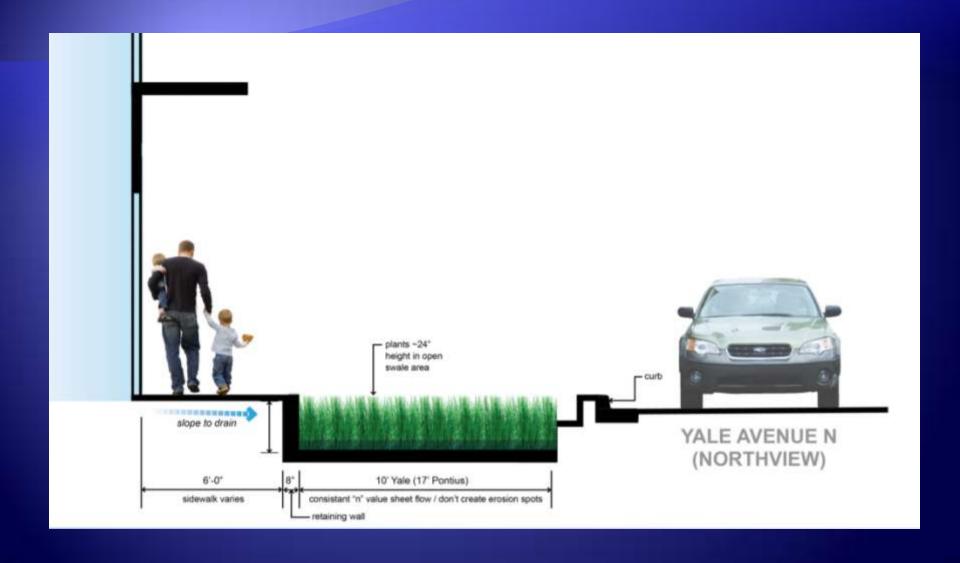
## Water Cleansing Machine



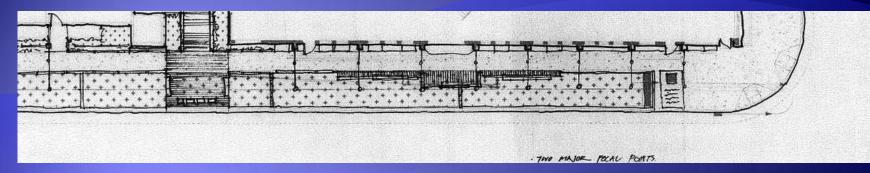
## 5. Design Elements

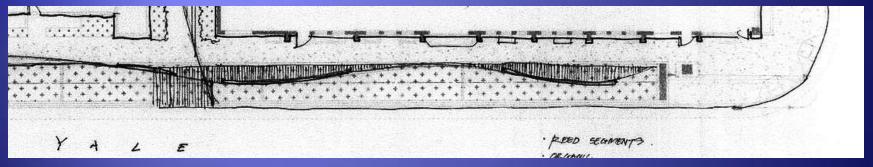
- Swale design to have elegant, understandable expression
- Promote a more quiet design expression because of the "Design Expression" of street realm, including new and existing development
- Less is more Minimalist Design

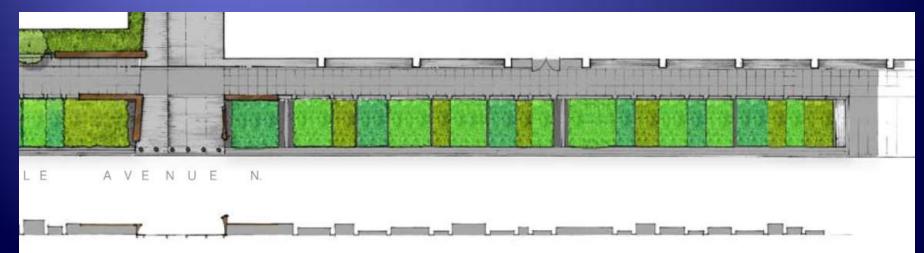
#### **Swale Section**



## Tooth to the Edges Exploration











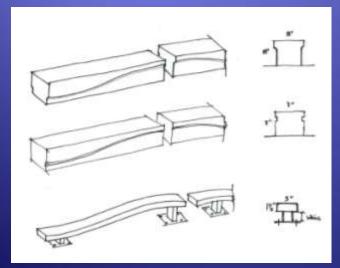


















## Seating





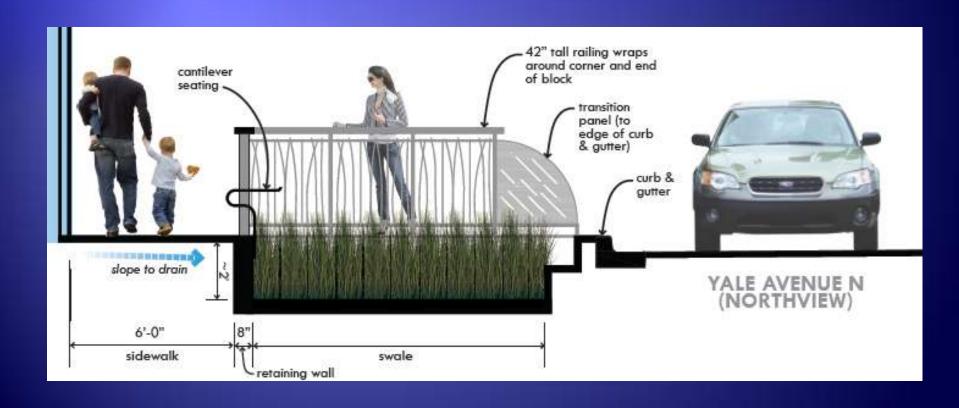


## Seating

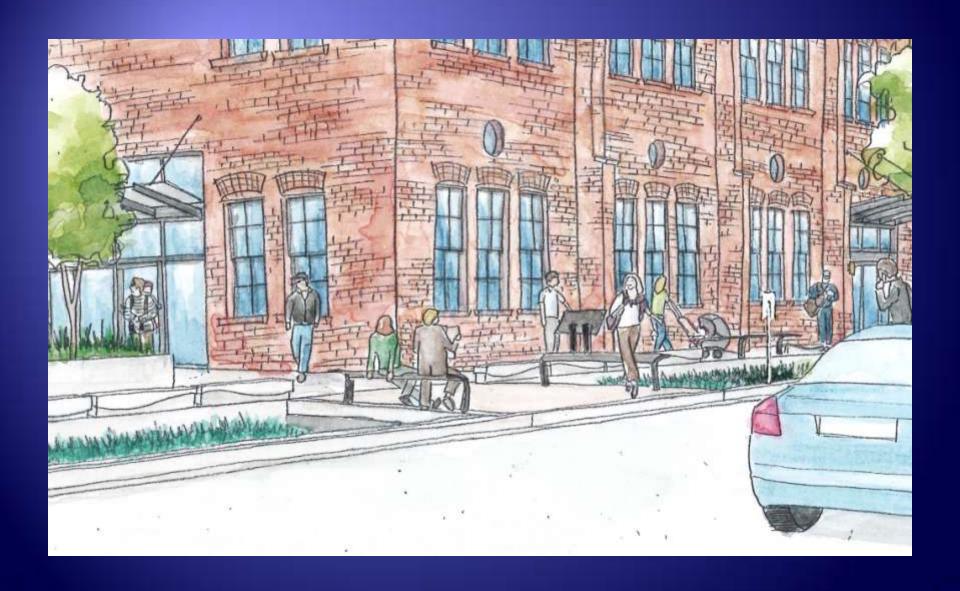




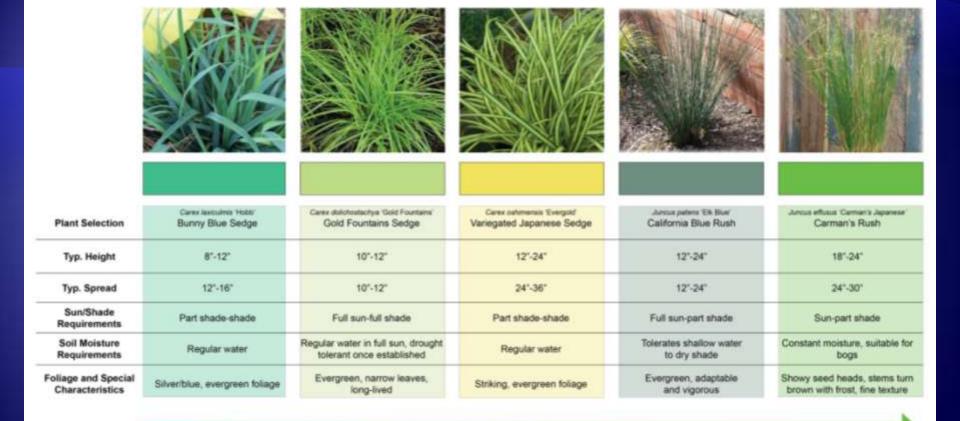






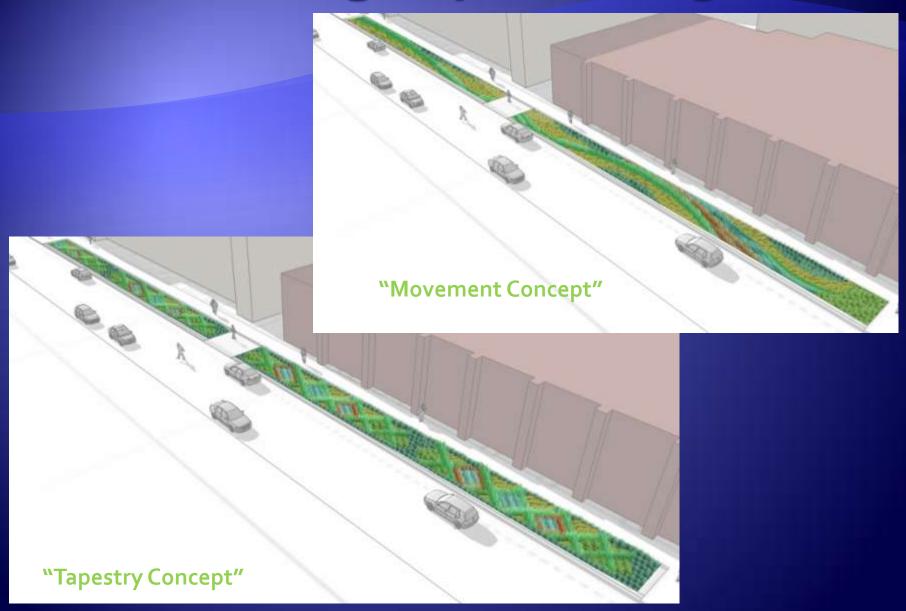


#### **Planting**



#### Water Cleansing Function

SHORT





"Linear" Concept

"Curvy" Concept

YALE AVENUE N

REPUBLICAN ST



HARRISON ST

1Z

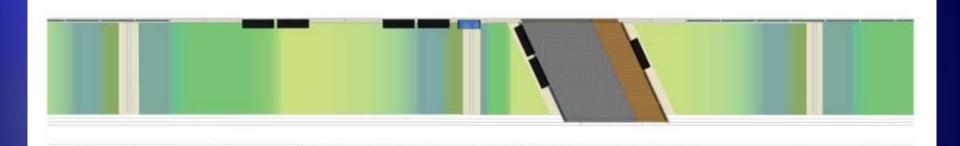
PONTIUS AVENUE N



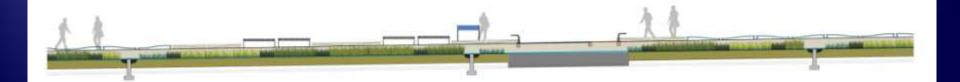
PONTIUS AVENUE N

HARRISON ST





Z PONTIUS AVENUE N



#### Water Cleansing Function



#### **ZONE 1- HIGH INUNDATION**

Area of periodic or frequent standing or flowing water; Tolerate seasonally dry periods of summer in Pacific NW; Applicable in zones 2 & 3.

#### Shrubs:

Cornus sericea 'Kelseyi' / Dwarf dogwood 18" H
Cornus stolonifera / Redtwig dogwood
Myrica gale / Sweetgale 5"W x 5" H

#### Emergents:

Alopecurus aequalis/ Shortawn faxtail
Carex obnupta/ Slough sedge 3' H
Carex stipata/ Sawbreak sedge
Juncus effusus/ Soft Rush 2'-3' H
Scirpus acutus/ Hardstem bulrush 4'-8' H
Scirpus microcorpus/ Small-fruited bulrush 2'-4' H

#### **ZONE 2 - MID INUNDATION**

Periodic moist or saturated during larger storms; Applicable in zone 3.

#### Shrubs:

Symphoricorpos mollis/ Creeping snowberry 2'-6'H

#### Herbaceous:

Iris douglasiona/ Pacific coast iris 1'-2' H
Tellima grandiflora/ Fringecup 1'-3' H
Tolmiea menziesii/ Youth-on-age 1'-2' H

Carex elata 'Aurea' / Bowle's golden sedge 1'-3' H Salix purpurea 'Nana' / Dwarf artic willow6'-8' H

#### ZONE 3 - LOW INUNDATION

Dryer soils, infrequently subject to inundation or saturation

#### Shrubs:

Symphoricarpos albus/ Snowberry 2'-6' H
Physocarpus opulifolius 'Summer Wine'/ Ninebark 5'-6' H
Potentilla fruticosa 'Tangerine'/ Shrubby cinquefoil to 4' H

#### Perennials & Ornamental Grasses:

Bromus carinatus/ Native California brome 3'-5' H
Carex comans 'Frosty curls'/ New Zealand hair sedge 1'-2' H
Festuca idahoensis/ Idaho fescue to 1' H
Helictotrichon sempervirens/ Blue oat grass 1'-1.5' H
Lupines sp./ Lupines 3'-5' H

## Lighting





## Interpretive Signage









#### Public Art

- Art
- Tree-Like Expressions









# What the Public sees! A Water Cleansing Machine That Fits the Street Realm in the Cascade Neighborhood



#### Block 10 Pontius



#### Block 10 Pontius



#### Block 10 Pontius

