Seattle Design Commission November 4, 2010

CAPITOL HILL WATER QUALITY PROJECT (SWALE ON YALE)

Agenda

- 1. Problem
- 2. Goal
- 3. Site Conditions
- 4. Proposed Solution
- 5. Schedules
- 6. Design Challenges
- 7. Public-Private Partnership

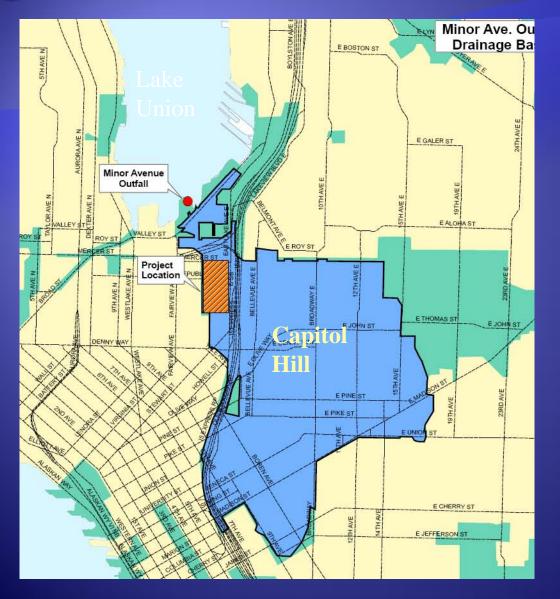
1. Problem

2. Goal

- Capitol Hill Stormwater Runoff is polluted
- Drainage Discharges to South Lake Union (SLU) Untreated

- Remove as much of the pollutant load as possible before discharging to SLU
 - Provide cost-effective water quality treatment
 - Create more green space and friendly street-scape
 - Treat equivalent of 150-acres of Capitol Hill

3.Site Conditions



Combined area

Separated area

Separated area draining to Minor Ave outfall

Historic

uses



Cascade neighborhood and portion of Capitol Hill behind it, Lake Union off picture to left, Seattle, 1890 Photo by F. Jay Hayes, Courtesy Montana State Historical Society



Western Mill Co., South Lake Union, Seattle, ca. 1891 Photo by Frank La Roche, Courtesy UW Special Collections (Neg. LAR303)



Cascade neighborhood from 5th Avenue and Stewart Street, 1891 Courtesy UW Special Collections

Project Area



Cascade Neighborhood

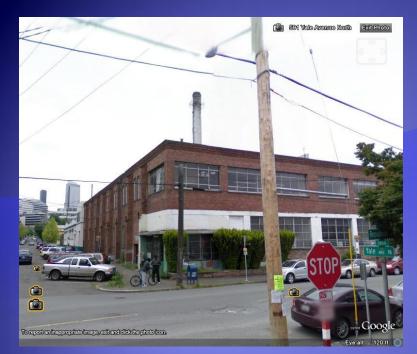






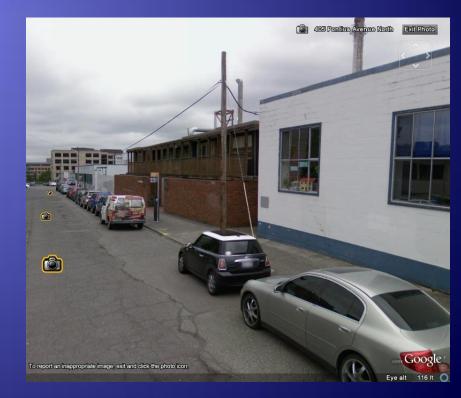
Cascade Neighborhood







North Block



South Block



South Block

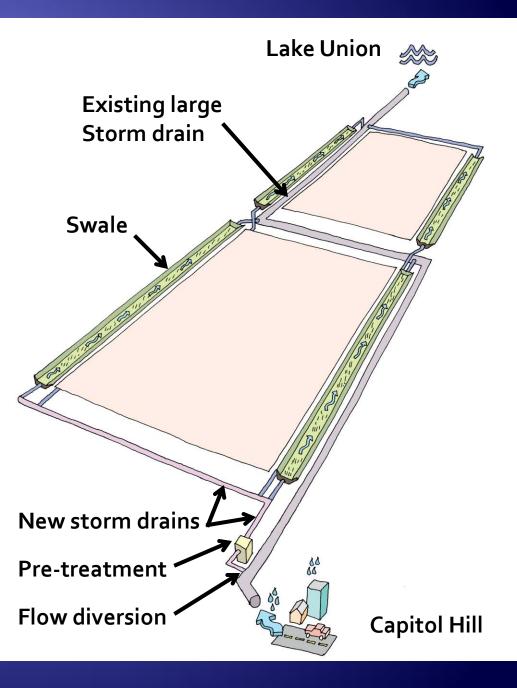




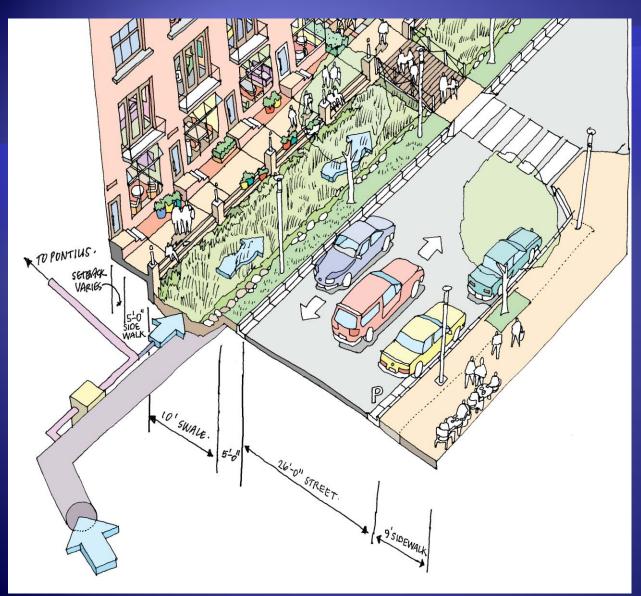
4. Proposed Solution

Biofiltration Swale

How does it work?



Key Design elements



- Swale takes parking lane
- Swale ~10-17 ft wide, 12 to 23-in deep
- 26-ft wide driving/ parking roadway
- Minimum 6-ft sidewalks
- Mid-block (~ 17 ft) pedestrian crossing



Stormwater Design Inspiration









North Block Paving

South Block Paving

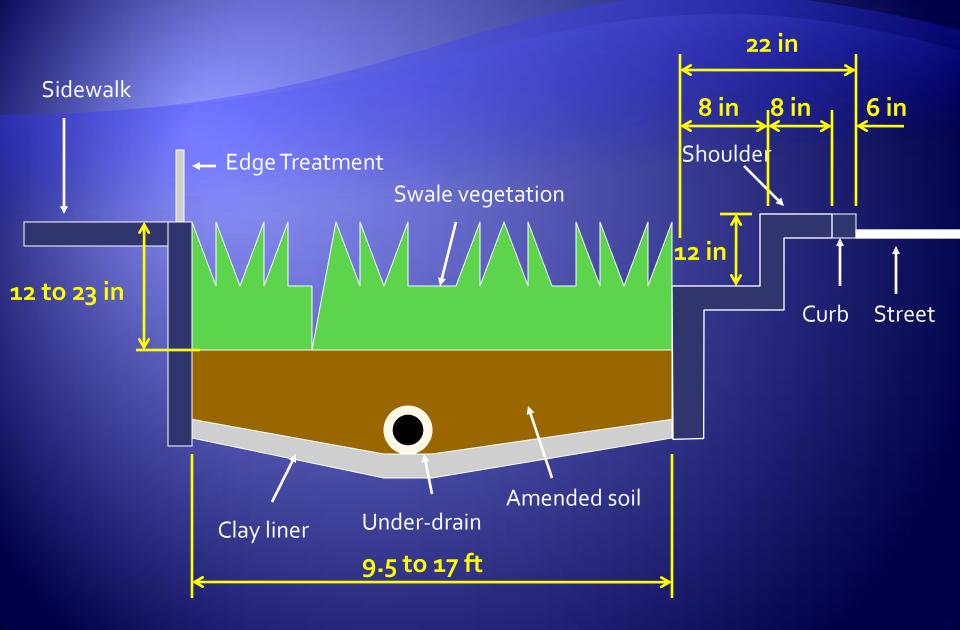


North Block Redevelopment

South Block Redevelopment

Conveyance & Pretreatment

Swale cross-section



COMMUNITY: PEOPLE & PLACES • STREETSCAPE IMAGES 🛖 J.3



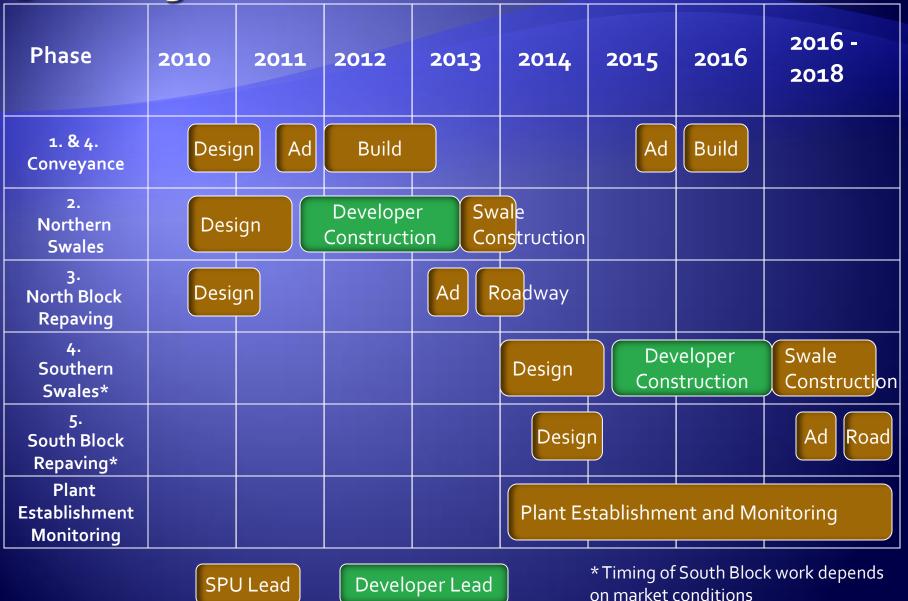
VIEW OF HARRISON STREETSCAPE



VIEW OF PONTIUS STREETSCAPE

Laundry Block - Early Design Guidance II • DPD Project: East #3009586 / West #3009632 / Laundry Building #3011522 • October 06, 2010

5. Project Schedule



Commission Presentation Schedule

- November 2006December 2008
- 11.07.10
- 1Q 2011
- 2Q 2011

Concept Early designs 30% Design 60% Design pre-90% Design

- 2013 pre-construction North Block Swales
- 2017 pre-construction South Block Swales

6. Design Challenges

A. PEDESTRIAN MID-BLOCK CROSSING B. SWALE EDGE TREATMENTS

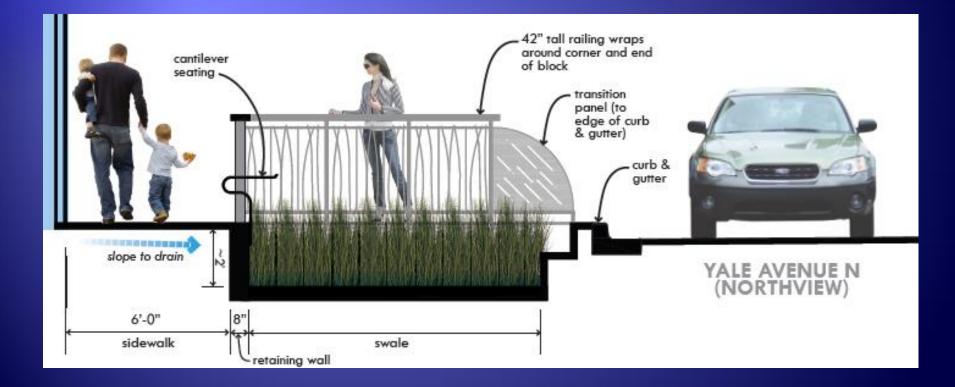
Denny Way Discovery Center

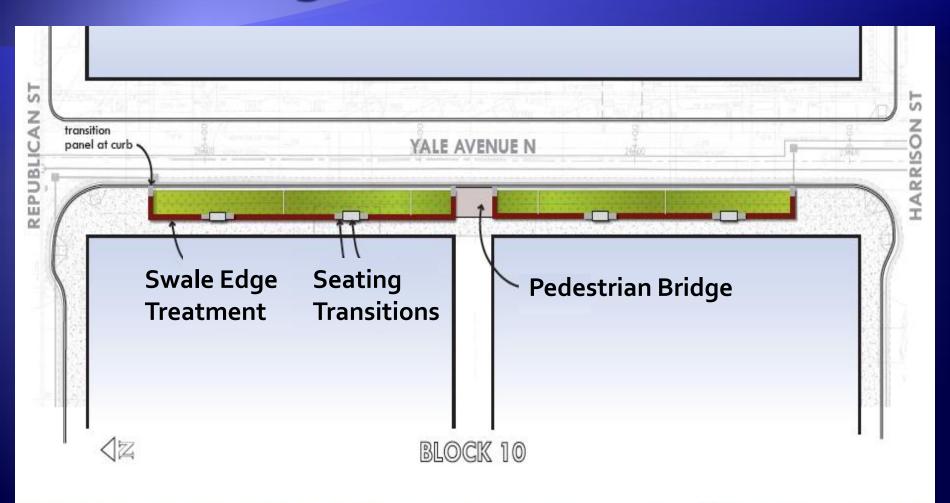












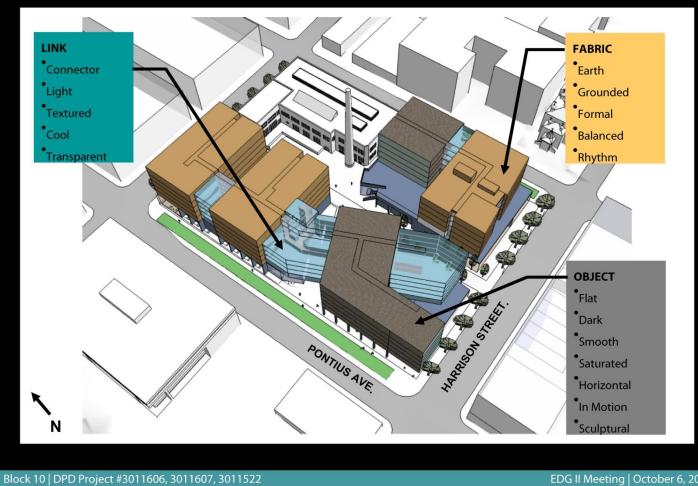
Capitol Hill Water Quality Project (Swale on Yale) | 10.22.2010



7. Public-Private Partnership

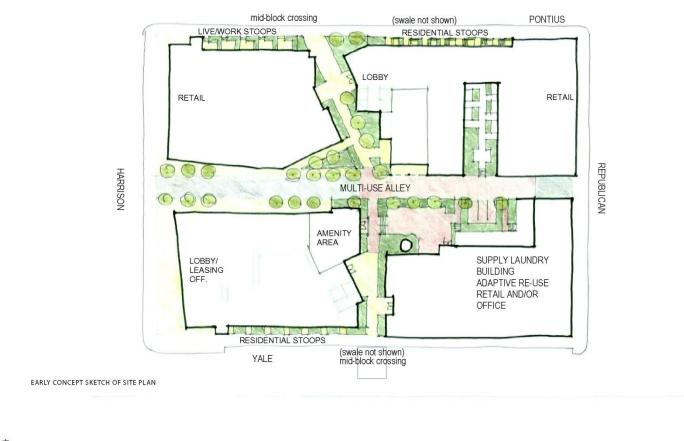
- The project is only possible with support from the adjacent property owner:
- Voluntary 1-ft building set back provides extra room in the right-of-way.
- Shared construction costs.
- Shared maintenance
- Shared vision of sustainability.

BUILDING CHARACTER DESIGN



EDG II Meeting | October 6, 2010

F.6 ARCHITECTURAL SITE CONCEPT: CONCEPT K - PREFERRED SCHEME





Runberg Architecture Group, PLLC • Vulcan | City Investors XVIII, LLC