
Porous Public Space:

*Climate Adaptation through Public Space
Design for Capitol Hill/Seattle 2030 District*

ScanDesign Master Studio 2019

instructor Professor Nancy Rottle

teaching assistant Krista Doersch

master teacher Louise Grassov Schulze + Grassov

today's schedule

FINAL REVIEW | DECEMBER 9

12:30

INTRODUCTION

Nancy Rottle

CONTEXT

Jim Ditto & Lauren Iversen

REFRESHMENTS

1:00

REVIEWS

25 minutes each x 4

2:50

WRAP-UP



Porous Public Space

Studio Objectives

- explore strategies for creating a democratic public realm that is ecological, resilient, regenerative, playful and just
- artfully integrate water into the cityscape for hydraulic performance to address the challenge of climate change in Seattle
- implement and expand on urban design concepts observed during the study tour
- practice working at all scales, using both large and small scales simultaneously to each inform the other

2019 studio schedule

Aug. 30 - Sept. 15

STUDY TOUR

Copenhagen, Denmark & Malmö, Sweden

September 26

PRECEDENT STUDIES

DISTRICT & SITE ANALYSES

SITE CONCEPTS

SCHEMATIC DESIGN

November 8

MIDTERM REVIEW

ITERATION

December 9

Final Review

study tour



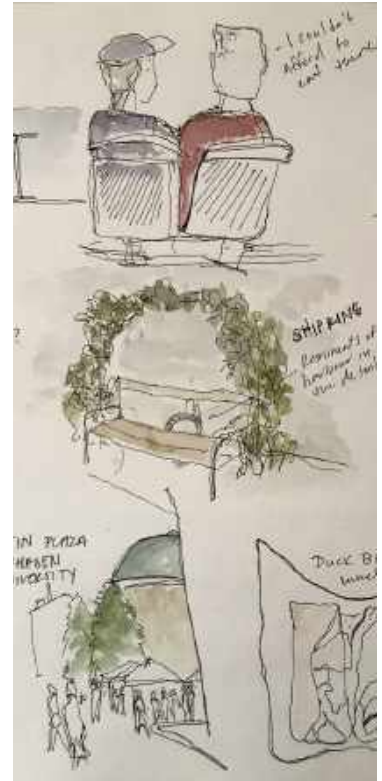
study tour Copenhagen & Malmö

Cycling

Office Visits

Site Visits

Exercises



study tour Copenhagen & Malmö



study tour Cycling

thank you to

Schulze + Grassov

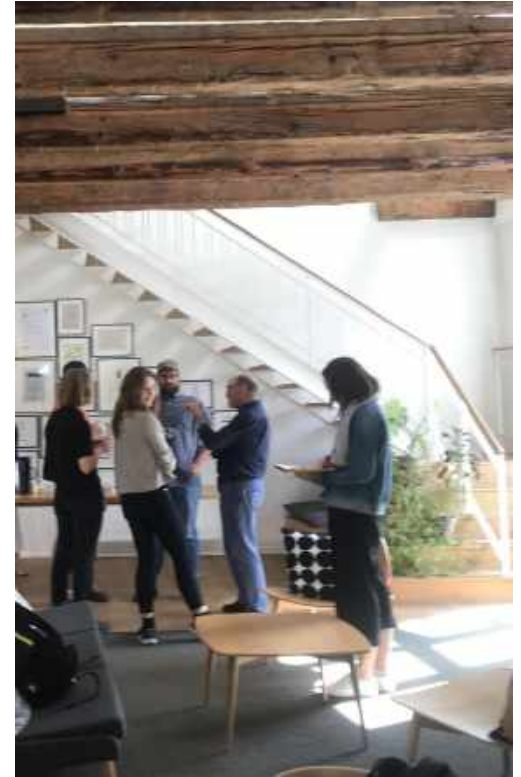
Gehl

COBE

SLA

Tredje Natur

Ramboll

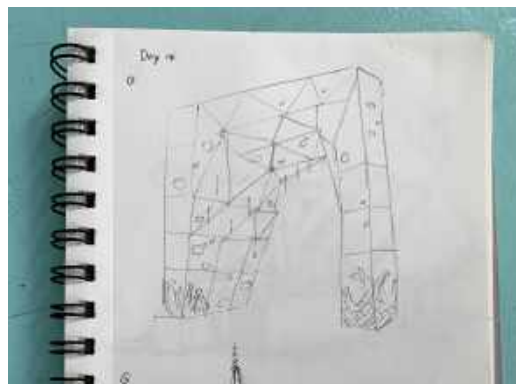
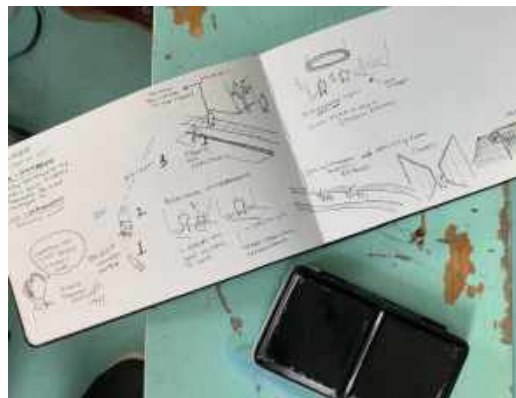
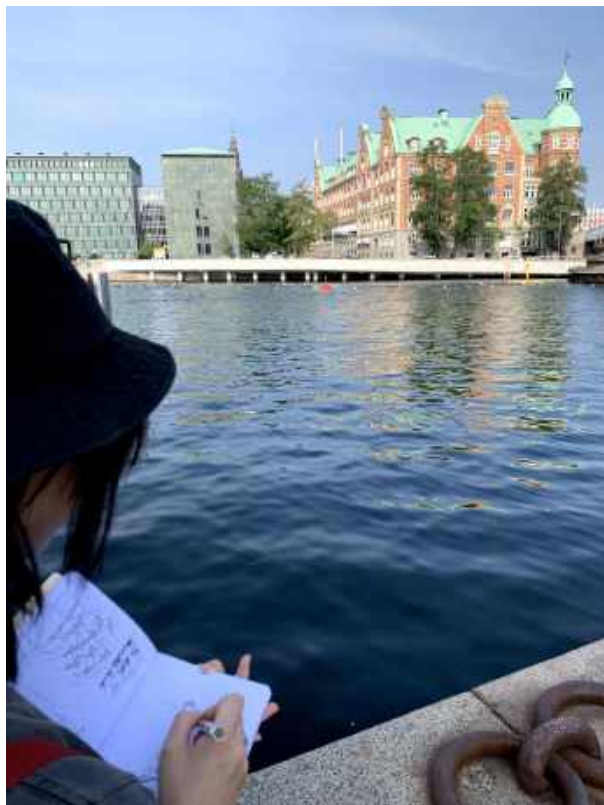


study tour Office Visits

Copenhagen's Inner City
Louisiana Museum
Harbor Ring
Christiania
Lindevangsparken
Nordhavn
Superkilen
Sankt Kjelds Plads
Tåsinge Plads
Ørestad
Augustenborg
Green Roof Institute
Bo01 & Western Harbor
Amager Strandpark
Nørrebro's open spaces
ØsterGRO
...



study tour Site Visits



study tour Exercises

precedent studies

Skt. Kjelds Plads and
Bryggervangen

Biblioteket / Plaza

Ørestad - Planning and
Design

Hans Tavsens Park +
Korsgade

Lindevangsparken

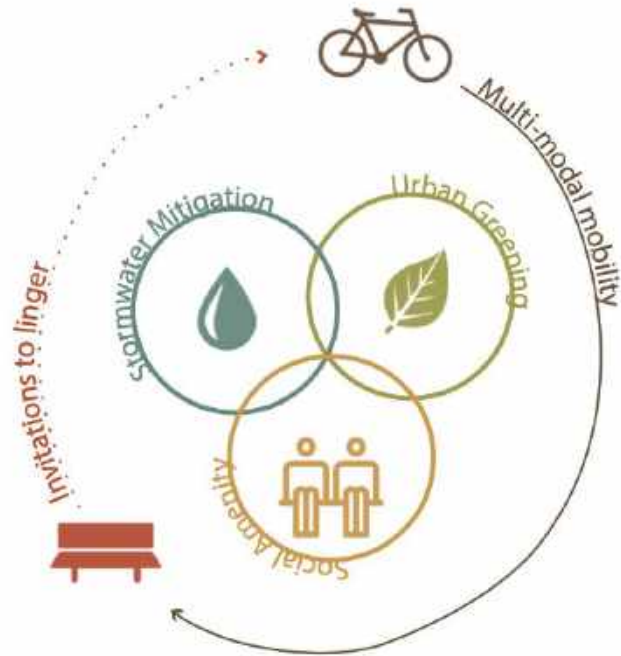
Tåsinge Plads

SEB Bank/City Dunes

SUND Nature Park

Roskilde Rabalder Skate Park

precedent studies Sites

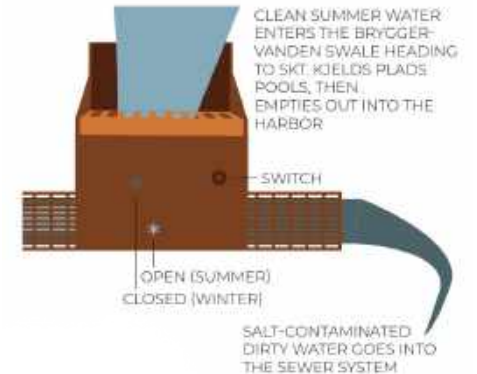
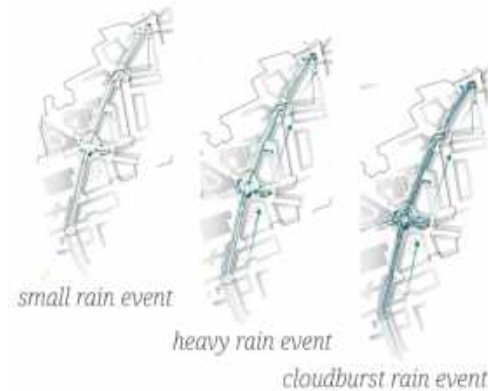


location Østerbro

firms SLA, Alectia, Viatrafik and
Jens Rørbech

client Copenhagen Municipality

status Completed 2019



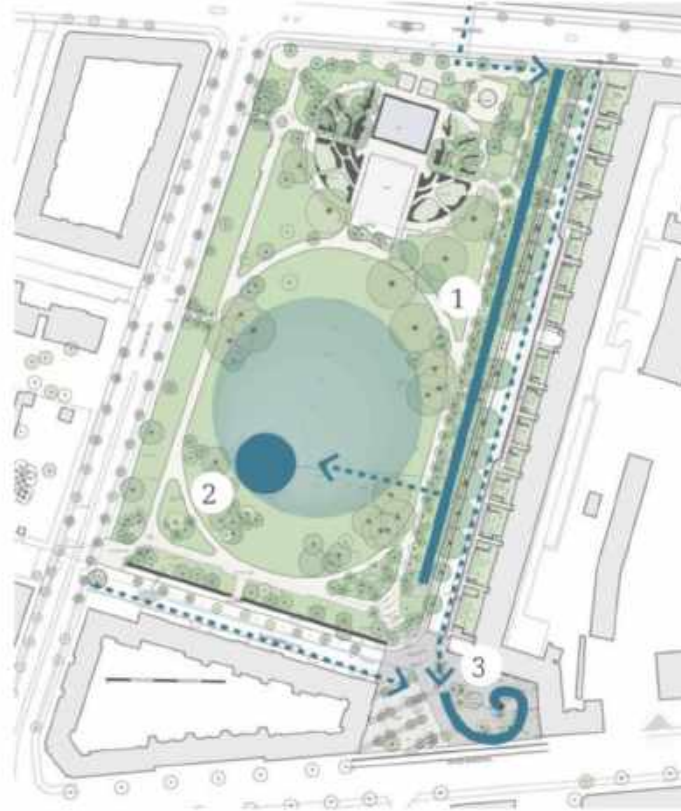
precedent studies Skt. Kjelds Plads & Bryggervangen

location Frederiksberg

firms Marianne Levinsen
Landskab, Nira A/S

client Frederiksberg
Municipality, Frederiksberg
Supply

status Completed 2015



precedent studies Lindevangsparken

location Østerbro

firms Malmos A/S, GHB
Landskabsarkitekter A/S,
Orbicon

client Municipality of
Copenhagen

status Completed 2015



SOLSKR/ENTEN

TORVET

REGNSKOVEN



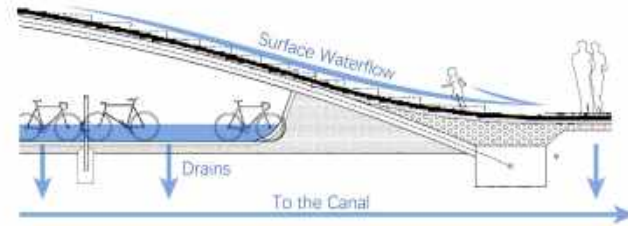
precedent studies Tåsinge Plads

location Karen Blixen Plads

firms COBE

client University of Copenhagen

status completed 2019

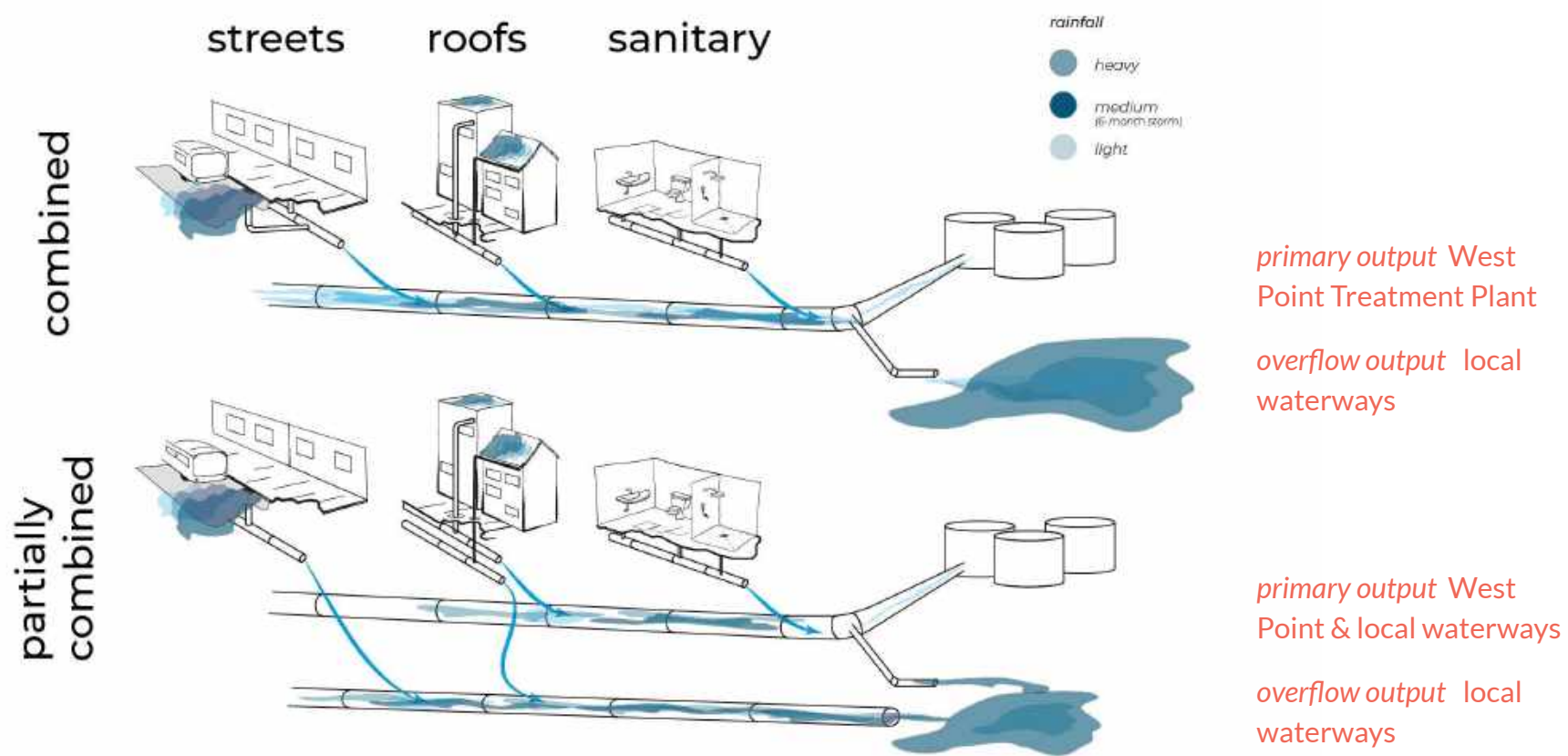


precedent studies Ørestad

district & site analyses



district analysis Context Map



district analysis Stormwater Scenarios

Legend

Wastewater Combined Sewer
Overflow (CSO) Outfall Locations
of King County /
cso_outfalls_point -
cso_outfalls_point



DWW_Storm_Outfalls



SPU_KC_RainWise Basins



SPU



KC

Drainage_Basins



Lake Washington



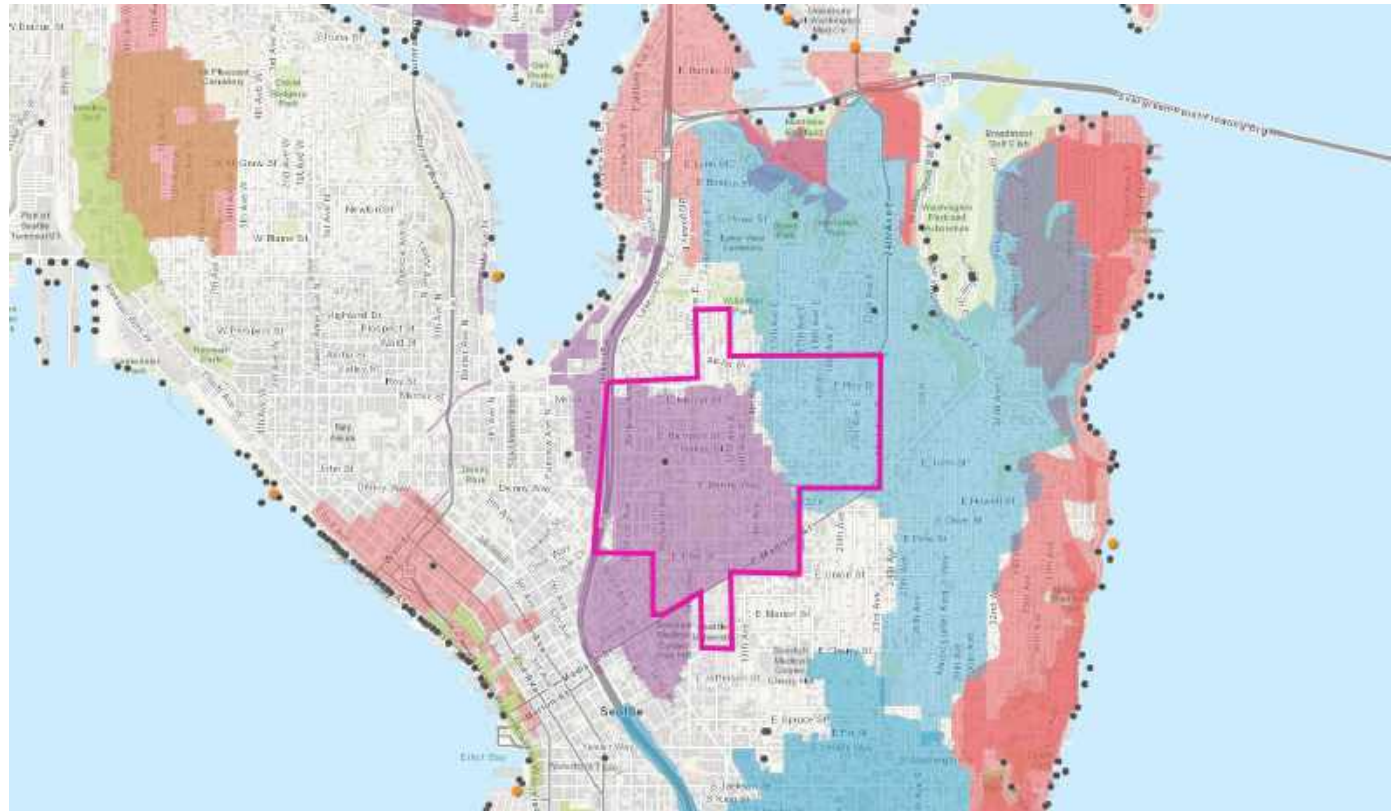
Duwamish Waterway



Puget Sound

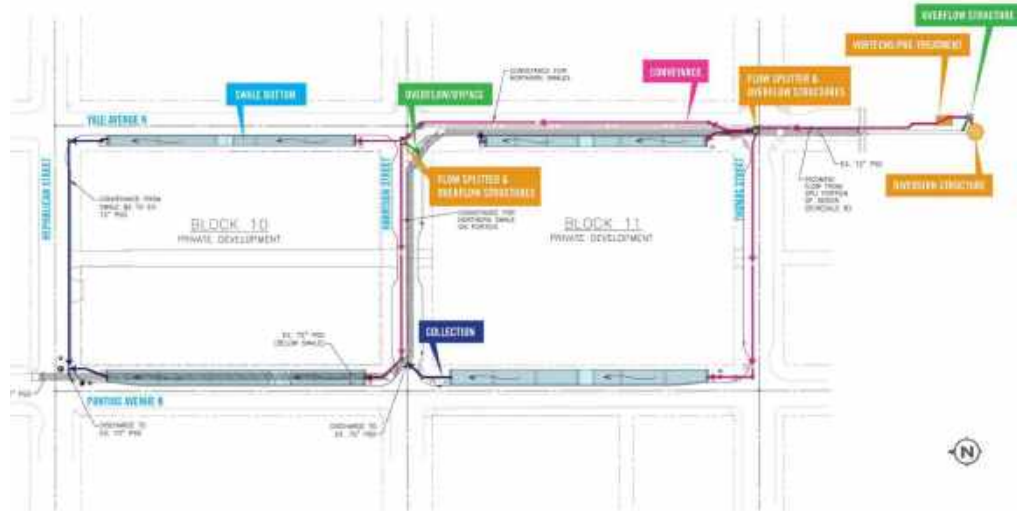


Lake Union/Ship Canal



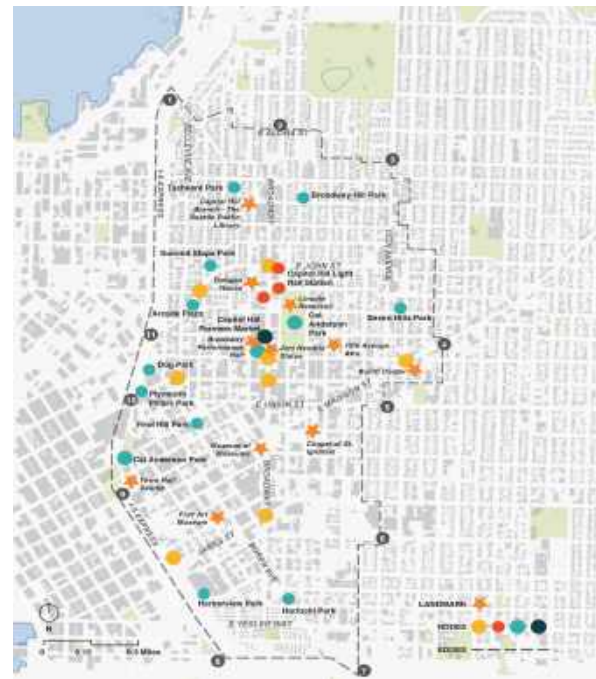
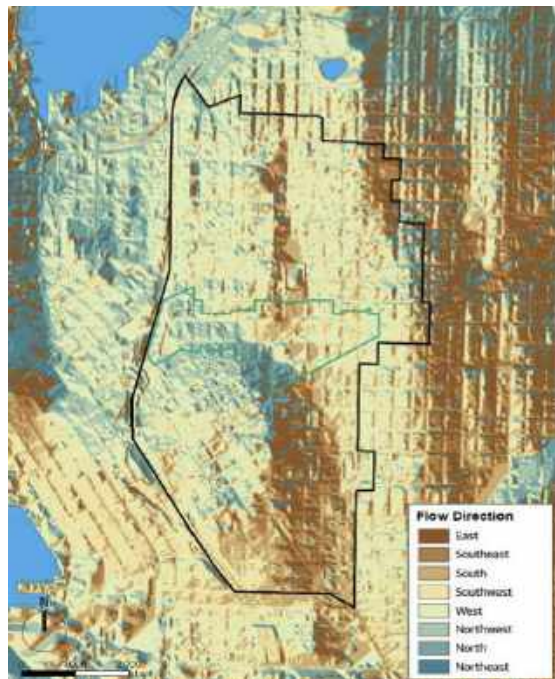
district analysis Drainage Basins

Swale on Yale



Location of existing green stormwater projects in Capitol Hill.

district analysis Green Stormwater Infrastructure



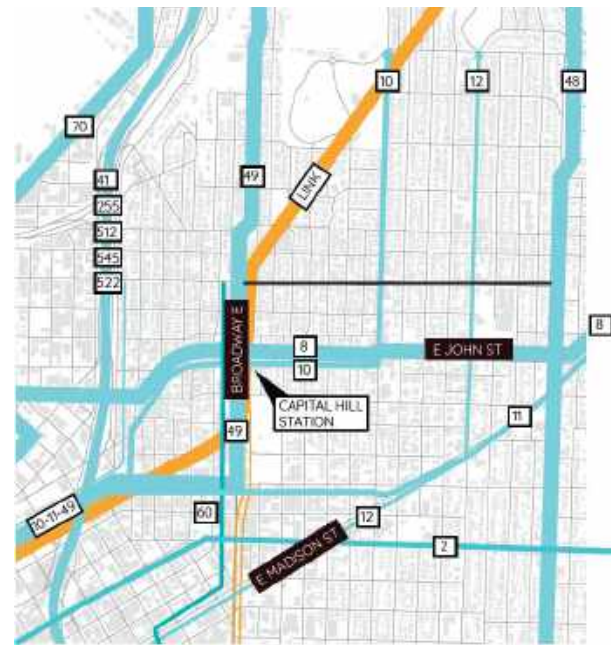
district analysis Physical & Built Environment



Pedestrian
Experience



Street
Slopes



Transit



district analysis Streets & Mobility



CAPITOL HILL EcoDistrict

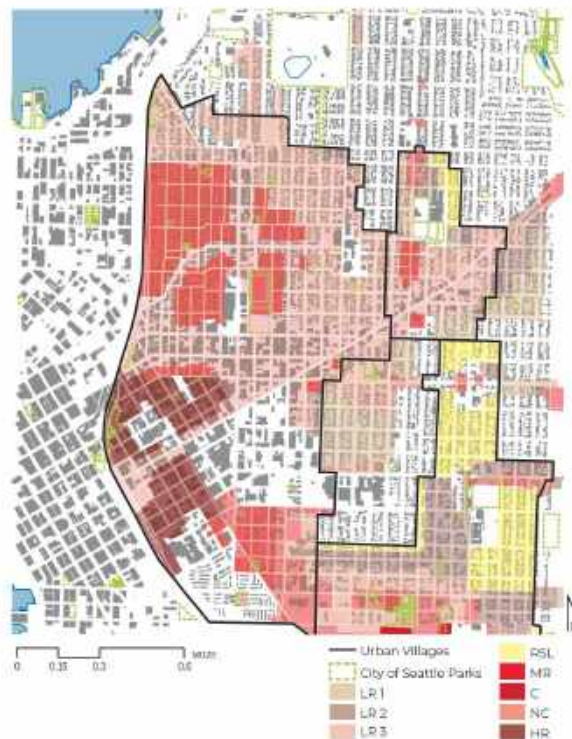
A proposal for district-scale sustainability

Pike + Pine Renaissance

Capitol Hill



ZONING



district analysis Zoning & Land Use



RESIDENTIAL AREAS

- residential, urban street edge
- single-family, low-rise
- multi-family, scattered low-rise

RETAIL CORRIDORS

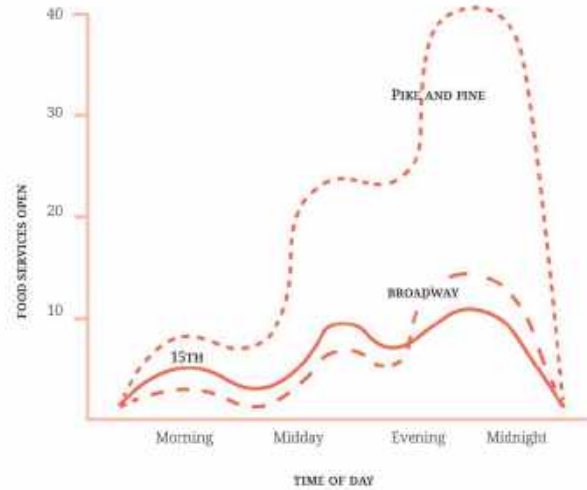
- Broadway
- Easton/E Olive Way
- 12th Avenue
- Pike/Pine
- 10th Avenue



district analysis Community & Culture

FROM DAY TO NIGHT

ACTIVITY IN THE COMMERCIAL CORRIDOR

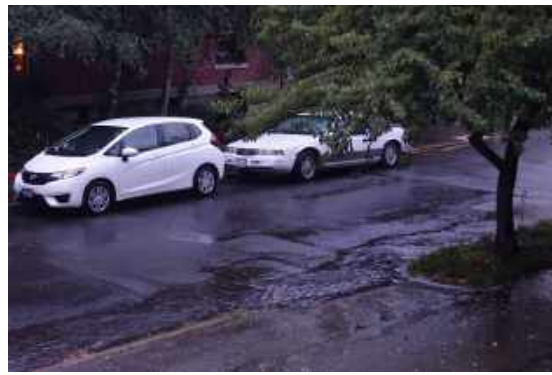


district analysis Deep Context



district analysis S+G Interns Analyses

site concepts



site concepts Site Visits

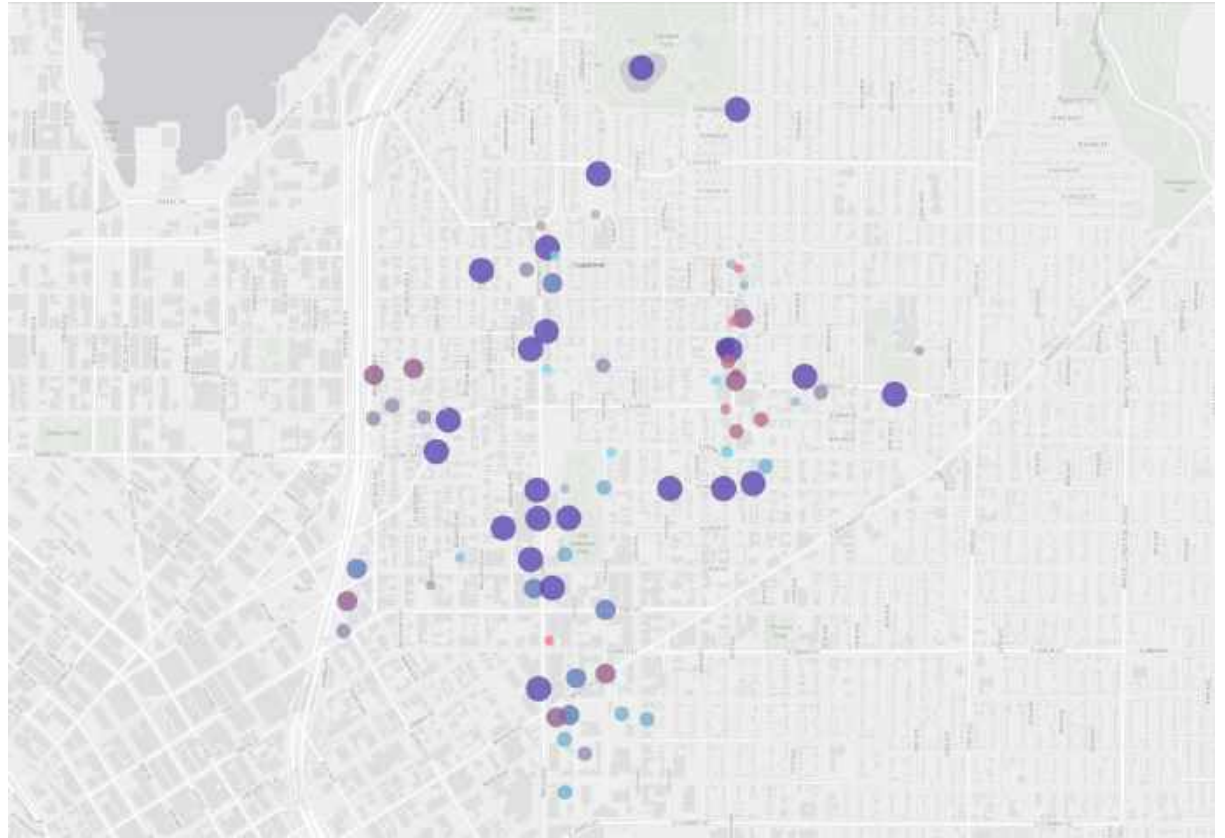
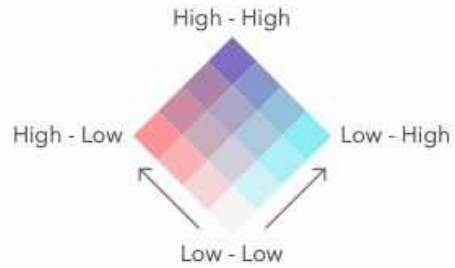
Legend

Combined opportunity score

Relationship

↖ Public Space Opportunity

↗ Water Opportunities



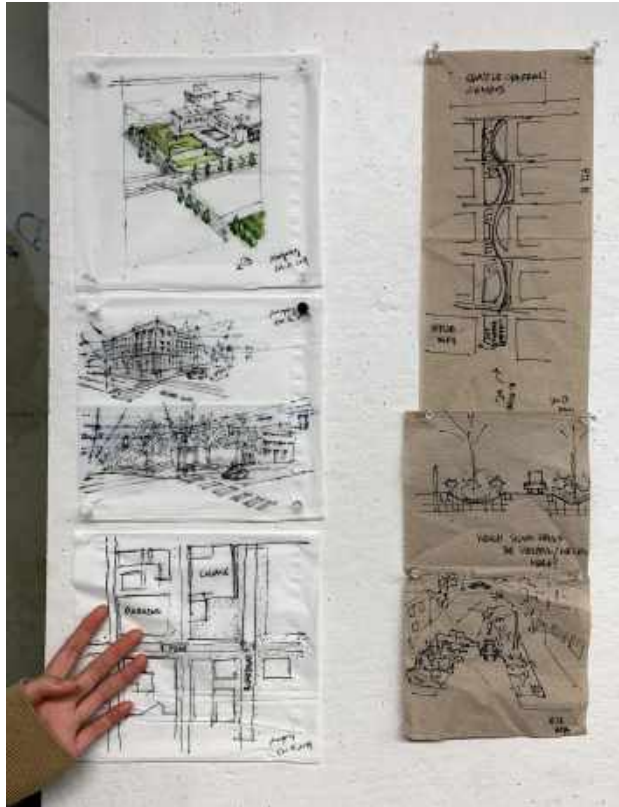
site concepts Opportunities Inventory: Public Space & Water



site concepts Life, Space, Building, Program Workshop



site concepts Site Selection



site concepts Concept Development

schematic design



schematic design Desk crits with our master teacher, Louise Grassov



schematic design Midreview presentations



schematic design Iterative Process

Thank you!

especially to

Erin Fried *Capitol Hill EcoDistrict*

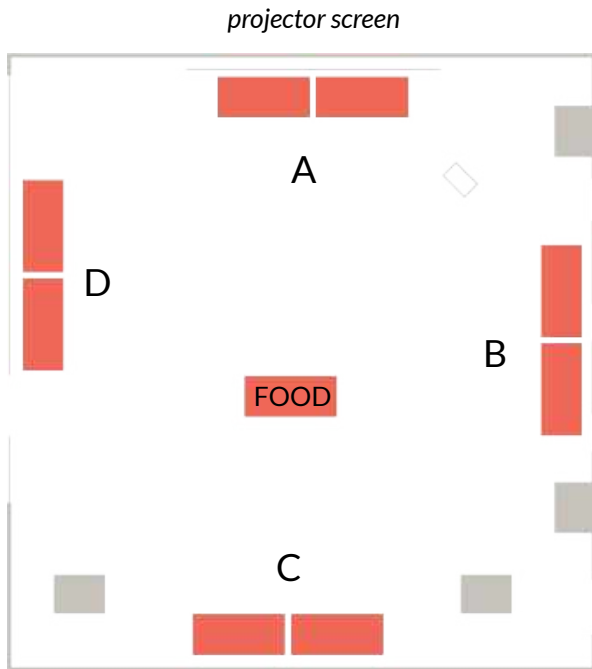
Steven Fry *Seattle 2030 District*

All of our reviewers and guest panelists

and

The Scan|Design Foundation of Jens and Inger Bruun

for making our travel, study, and work possible!



STUDENTS

A Kelsey, Danialle, Hexiang, Yuchen

B Sarah, Zoe, Mengting, Shihui

C Dylan, Emilio, Lauren, Alanna

D Jim, Jake, Asya, Heather

At large:

REVIEWERS

John, Chasten, Rox, Phoebe

Lesley, Dylan, Dave, Gabriel

Barbara, Lauren, Mark, Derek

Steven, Daniel, Shannon, Hailey

Paul, Mike, Erin, Mary