Public Spaces Public Life for Seattle's Central Waterfront

PETE

HHH

TRIBUTE

2011 Scan | Design Interdisciplinary Master Studio University of Washington : College of Built Environments



10 ANALYSIS + FRAMEWORK

18 DESIGN

Studio Participants

Landscape Architecture Ximena Bustamante Susan Costa Paschke Peter Cromwell Chen Hai Taj Hanson Manami Iwamiya Audrey Maloney Jessica Michalak Haruna Nemoto Karin Strelioff Virginia Werner Ying-Ju Yeh Architecture Erin Feeney Davis Hammer Katie Hunt Hilary McDonald Laura Poulin Lauren Rock Roma Shah Andrew Williamson

- Urban Planning Erika Harris
- Jenny Ngo Andreas Piller Michael Ward

City Quilt: Weave, Discover, Connect, Adapt

Tides and Pools:

Enhancing Activity Flows and Concentrations

POD:

People-Oriented Design

Seaweed: Where the City Takes Root Nancy Rottle, Associate Professor, Landscape Architecture Kathryn Merlino, Assistant Professor, Architecture, Adjunct Assistant Professor, Landscape Architecture Bianca Hermansen, Master Teacher, Gehl Architects Britt Bandel Jeske, Teaching Assistant, Architecture

Acknowledgements

Scan I Design by Inger & Jens Bruun Foundation Gehl Architects Seattle Department of Planning and Development Seattle Department of Parks and Recreation J.A. Brennan Associates, PLLC Seattle Aquarium

Foreword

The City of Seattle's public waterfront will experience dramatic transformations in the next several years as the city invests in creating a "new waterfront for all." In response to this exciting prospect, our 24 graduate students in landscape architecture, planning and architecture tackled the portion of the waterfront that stretches between Waterfront Park and Pier 63/63, and extends from the Aquarium at the water's edge uphill to the Pike Place Market. With the imminent removal of the Alaskan Way Viaduct and replacement of the aging Elliot Bay Seawall, Seattle has the extraordinary opportunity to reconnect the city to the bay, restore ecological systems for Puget Sound, and create lively public waterfront space. With these goals in mind, the studio focus was to envision an active, vibrant and multi-dimensional public realm that serves a multicultural, intergenerational population and reclaims the waterfront as an ecological space, both aquatic and terrestrial. Applying their unique skillsets, students worked in interdisciplinary teams to create conceptual plans for the district. Within these teams, students then each designed a piece of the site in detail, and worked together to weave a complete and compelling overall team proposal.

Through the generous sponsorship of the Scan | Design Foundation, our students were able to experience contemporary waterfronts and sustainable urban design in Denmark and Sweden, and then apply lessons and inspiration to their Waterfront design work in Seattle. During the two-week September tour in Copenhagen, students had the opportunity to study with the internationally renowned Danish firm of Gehl Architects, and practice their methods for assessing and creating quality public space. As a class we walked both Copenhagen and Malmo's public spaces, sketching their design qualities and analyzing how they performed. The group bicycled around these exemplary cities to experience their renewed neighborhoods, innovative architecture, and repurposed waterfronts. The staff of Gehl Architects, Copenhagen's bicycle planners, Malmo's Western Harbor designers, COBE Architects and others were our guides, providing insight into the cities' historical development and contemporary planning issues, elucidating design approaches to successful projects, and sharing personal perspectives. Back in the studio in Seattle, students applied the lessons learned to our waterfront project, aided by

the expert guidance of Bianca Hermansen of Gehl architects, who travelled to Seattle on two separate occasions to assist in teaching. In addition, professionals and stakeholders working on various aspects of the Central Waterfront shared critical information, and many design and planning practitioners came to both the midreview and the final review. Their help and insight were an invaluable contribution to the studio experience.

We have many people to thank for this remarkable opportunity in teaching and learning. Without the support of the Scan|Design Foundation, we could not have applied the rich set of images and experiences from Scandinavia or so deeply integrated Gehl's approach in our design work. We are sincerely grateful for Bianca Hermansen's generous, clear and insightful teaching and critique, and to her, Louise, Lars, and Rasmus at Gehl architects for the fantastic lectures and tours in Copenhagen. Marshall Foster both lectured and led us through the Seattle Central Waterfront and gave as an appreciation and understanding of the site from the City's perspective. David Graves from Seattle Parks assisted with the tour and was our prime facilitator in mounting our "Playing on the Pier" temporary interactive exhibit on Pier 62/63. Architect Paul Olson co-led the Copenhagen tour, inspiring the students' sketching and deepening their understanding of the built environment, and provided invaluable guidance in the form of desk crits and reviews throughout the quarter. And finally, we couldn't have done it without our able and talented teaching assistant, Britt Bandel Jeske, who has kept us organized for months, provided so much assistance from running errands, to budgets to graphics, and compiled this book with the student work, working closely with the students.

We thank you all, and hope that this work will make a difference not only in the education of our diverse and enthusiastic students, but also will suggest exciting, thought-provoking and ecological designs for a new, vibrant public waterfront.

Nancy Rottle, Associate Professor, Landscape Architecture Kathryn Rogers Merlino, Assistant Professor, Architecture, Adjunct Assistant Professor, Landscape Architecture

Copenhagen Study Tour

September 02 - 18 Scan|Design Master Studio Study Tour

In September 2011, 21 graduate students from the University of Washington's College of Built Environments studied exemplary urban and regional planning strategies in Copenhagen, Denmark. Students were immersed for two weeks in the famous Danish networks of public space and the culture's emphasis on bicycle and pedestrian planning.

Students came from three disciplines in the College of the Built Environment: Architecture, Landscape Architecture, and Urban Planning & Design. In Copenhagen, these students were led by the renowned urban planning consultants Gehl Architects, who introduced the group to their working methods. Other highlights included tours of redeveloped neighborhoods, the waterfront, plazas, and parks. The trip to Copenhagen was generously supported by the ScanIDesign Foundation.

After returning from the trip, the group continued working in our Scan|Design Master Studio course to study and design public spaces in Seattle's Central Waterfront, with the goal of creating a socially vibrant, ecologically healthy public realm.



Scan | Design travel-study group at Lars Gemzøe's allotment garden source: Nancy Rottle



Malmo Waterfront source: Britt Bandel Jeske

Copenhagen Waterfront source: Erin Feeney

Augustenborg Public Housing, Malmo source: Britt Bandel Jeske

Lessons from the Scan|Design Travel Study

CONNECTIVITY:

Surface treatments and delineated linkages improve place to place connectivity. Small carved out spaces with interesting edges and active spaces provide person to person connectivity. Direct access to waterfront initates a connection between person and place.

ELEMENTS OF DELIGHT:

Mundane elements of daily life can be transformed into fine grain details of comfort and delight using color, warmth, and humor.

TEXTURE:

Bold use of color, pattern and dimension create more interesting and memorable streetscapes.

MEANDERING PATHS:

Subtle curves into hidden destinations inscribe a human scale and encourage human powered modes of transportation.

UNEXPECTED VIEWS:

Framed views create a sense of protection and element of surprise for site users.



Analyzing Copenhagen's pedestrian streets



Discussing Copenhagen's public space source: Britt Bandel Jeske



Copenhagen cycling culture source: Delia Lacson

Studio Project

In the studio, we began by collecting and sharing the significant amount of research and previous planning conducted for the waterfront. We also invited expertise from local planners, designers, and stakeholders, who gave us a detailed waterfront tour, presented significant issues in an expert panel, and provided as-needed advising and information. We augmented our knowledge of global waterfront designs by investigating precedents of significant contemporary projects, for which students developed and presented case studies. Our initial planning exercise was then to quickly incorporate this information into a temporary, "pop-up" exhibit for Pier 62/63. Five teams designed and built exhibits for an event titled "Playing on the Pier," which brought Seattle natives and visitors to the pier for an exploration in how the waterfront could be experienced and enjoyed.

This initial exploration provided the structure and background for four teams to approach site planning and urban design work. These teams focused on the northern, Aquarium/Pike Place Market, waterfront district, and suggested strategies for strengthening the district and connections to the rest of the city. Students developed solutions for waterfront-wide connective tissue including new road and seawall alignment, stormwater integration, design guidelines, and unifying design elements.

Design students worked individually or in pairs to develop detailed proposals for specific sites according to their particular interests. They developed and re-examined their work through several cycles over the course of ten weeks, interacting with Bianca Hermansen of Gehl Architects, studio professors Nancy Rottle and Kathryn Merlino, and outside professional and faculty reviewers as well as through peer review. Our aim has been to integrate Gehl Architects' theory and methodology for successful public space, Seattle's aspirations for a "waterfront for all," and our region's ecological knowledge, goals and ethics. Our working process is outlined in the following Analysis and Framework section, and the students' more detailed district and design proposals are represented in the final Design sections of this document.



Seattle Waterfront, Pier 62/63 and the Aquarium





source Britt Bandel Jeske

source: Google Earth

Scan|Design Travel Study + Studio



Design Methodology

15 Quality Criteria

During site analysis, students used Gehl Architects' 15 Quality Criteria approach for observing and assessing sites for their pedestrian quality. This approach complemented the project area's quantitative pedestrian analysis, allowing students to understand how people might experience the neighborhood. The students also used these 15 Quality Criteria to evaluate their finished design proposals.

Life | Space | Buildings

In addition to using the 15 Quality Criteria, in one exercise called "Life|Space|Buildings" students took on different roles: student, artist, business woman, club goer, etc. to establish the required program elements needed to create vital public space that is inviting to all.



source: Gehl Architects

PROTECTION	 PROTECTION AGAINST VEHICULAR TRAFFIC Traffic accidents Pollution, fumes, noise Visibility 	 PROTECTION AGAINST CRIME & VIOLENCE Well lit Allow for passive surveillance Overlap functions in space and time 	PROTECTION AGAINST UNPLEASANT SENSORY EXPERIENCES • Wind / Draft • Rain / Snow • Cold / Heat • Pollution • Dust, Glare, Noise
INVITATION	INVITATIONS FOR WALKING • Room for walking • Accesibility to key areas • Interesting facades • No obstacles • Quality surfaces	 INVITATIONS FOR STANDING AND STAYING Attractive and functional edges Defined spots for staying Objects to lean against or stand next to 	 INVITATIONS FOR SITTING Defined zones for sitting Maximize advantages pleasant views, people watching Good mix of public and café seating Resting opportunities
	 INVITATIONS FOR VISUAL CONTACT Coherent way-finding Unhindered views Interesting views Lighting (when dark) AUDIO & VERBAL CONTACT Low ambient noise level Public seating arrangements condusive to communicating 	 PLAY, RECREATION & INTERACTION Allow for physical activity, play, interaction and entertainment Temporary activities (markets, festivals, exhibitions etc.) Optional activities (resting, meeting, social interaction) Create opportunities for people to interact in the public realm 	 DAY / EVENING / NIGHT ACTIVITY 24 hour city Variety of functions throughout the day Light in the windows Mixed-use Lighting in human scale VARYING SEASONAL ACTIVITY seasonal activities. (skating, christmas markets,) extra protection from unpleasant climatic conditions Lighting
DELIGHT	DIMENSIONED AT HUMAN SCALE • Dimensions af buildings & spaces in observance of the important human dimensions in related to sences, movements, size & behavior	 POSITIVE ASPECTS OF CLIMATE Sun / shade Warmth / coolness Breeze / ventilation 	AESTHETIC & SENSORY • Quality design, fine detailing, robust materials • Views / vistas • Rich sensory experi- ences

Studio Team and Group Work

Throughout the quarter the students had the chance to work in various groups to take advantage of the interdiscplinary studio format. The students were divided into pairs for precedent studies and small groups for site analysis and the Playing on the Pier exhibit. For the final design project, the studio was divided into four teams to develop a master plan, in which their individual or pairs project was located. Over the course of the term, students continually refined their design proposals, working between districts and site scales and responding to feedback from guests, peers, faculty, and Bianca Hermansen of Gehl Architects.



Mid-Review wrap up discussion with students and reviewers source: Peter Cromwell

Gehl Architects Master Instructors

Students were first introduced to Gehl Architects' working methods while in Copenhagen, through lectures and exercises. Students benefitted from an additional two and a half weeks working with Bianca Hermansen in Seattle, during the middle point of the studio and at the end of the term. Bianca provided valuable feedback to guide the development of students' designs for an inviting waterfront.

PROXIMITY



Bianca's visits were highlights of the quarter

source: Manami Iwamiya



Post mid-review master plan team discussions source: Peter Cromwell



Formal reviews included guest critics in the fields of architecture, landscape archtecture, and urban planning source: Peter Cromwell Public Spaces | Public Life for Seattle's Central Waterfront



concept of proximity vs. density source: Gehl Architects

Precedent Studies

During the initial stage of site analysis, students researched relevant precedents from around the world with a focus on waterfronts. The full case studies, and case studies from previous studios, can be found on the Master Studio course website (http://courses.washington.edu/gehlstud).



Vancouver Convention Center/Coal Harbour Vancouver, Canada source:www.lmnarchitects.com



East River Park and Esplanade New York, New York source: www.nycgovparks org/parks/eastriverpark



Barcelona Waterfdront Barcelona, Spain source: dirklie65, www.flikr.com



SE False Creek Waterfront Vancouver, Canada source: www.vancouversun.com



Wellington Waterfront Wellington, New Zealand source: http://www.flickr.com/photos/jackol/516092798/



Chicago Waterfdront Chicago, IL source: JJR and Studio Gang www.worldlandscapearchitect.com



Hudson River Park New York City, New York source: www.hudson-river-park.com



Eastbank Esplanade Portland, Oregon source: www.southwaterfront.com



RIVERFIRST Minneapolis, Minnesota source: Tom Leader Studio and Kennedy and Violich Architecture

History



SOURCES

www seattle.gov/dpd/Planning/Central_Waterfront/Archive/Background/default asp "East-West and Physical Connections" graphic

 $www seattle.gov/dpd/Planning/Central_Waterfront/PartnershipsCommittee/BriefingBook/index.htm$ "Council Legislation Related to the Central Waterfront" "Center City Public Realm Guide" "County Legislation Related to the Central Waterfront" "2006 Central Waterfront Concept Plan Summary"

 $www.historylink.org/index.cfm?DisplayPage=output.cfm\&file_id=7072$ "Seattle Central Waterfront Tour, Part I: Overview" (information and photos)

www.historylink.org/index.cfm?DisplayPage=pf_output.cfm&file_id=7056 "Port of Seattle Central Waterfront Cybertour" (photos)

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Temporal Environment











Public Spaces | Public Life for Seattle's Central Waterfront

ANALYSIS

Ecological Environment: stormwater

Visualize Climate Change:



source: Aaron Vandenberg Consequences of a 20' rise in sea level

Stormwater Basins:



Combined Stormwater System:



source:City of Seattle -Windermere Basin CSO Reduction Project; Public Meeting: May 20, 2010





Ecological Environment: habitat

Waterfront Bathymetry:



source: Easton Branam and Aaron Vandenberg

Three areas have been identified as potential shallow water and beach to improve aquatic habitat conditions.



Wildlife: Life Over Water

Birds: Birds are among the species most adaptable to living in the highly urbanized environment of downtown Seattle. For further information, a complete bird species list can be found in the DEIS (wsdot.wa.gov).

Terrestrial wildlife: Terrestrial animal species range from domestic dogs, cats and rabbits to bats, ermine and mink. The highly urbanized environment only allows for species that are highly adaptable to the intense urban setting.

Vegetation: The only notable vegetation along the waterfront are mature street trees planted along the length of the project area.

Special Status Species: Bald eagle (Haliaeetus leucocephalus) – protected under the Bald and Golden Eagle Protection Act of 1940 (16 USC 668-668c). Southern resident killer whale (Orcinus orca): Federally and State listed as endangered. Marbled murrelet (Brachyramphus marmoratus): Federally and State listed as threatened. Puget Sound Steelhead (Oncorhynchus mykiss)Distinct Population Segment: Proposed for Federal listing as threatened.

Puget Sound/Outer Elliott Bay - Pelagic Waters: Orcas, gray whales, and Dall's porpoise occasionally pass through this area. Seals and sea lions are more frequently seen here.

Salmon: Life Under Water

Nearshore Marine Environment

While shady areas are critical for salmon spawning habitat, it is believed to be a less desirable condition during the juvenile and adult life stages.

"Like the habitat use patterns observed in Lake Washington, juvenile Chinook salmon in the marine nearshore and estuary areas of central Puget Sound tend to be closely associated with shallow habitats located close to shore (KCDNR 2001)."

"Because Puget Sound Chinook out migrate as younger and smaller juveniles, they are more dependent on forage in the estuaries and near- shore systems to increase their body weight and condition before moving into more pelagic environments (i.e., deeper Puget Sound waters or the Pacific Ocean) (Levy and Northcote, 1982; Pearce et al., 1982)."

"Marine nearshore areas and estuaries may be particularly important for juvenile Chinook salmon for migration, feeding, and rearing within the central Puget Sound (KCDNR 2001). Moreover, some of these areas are used by juveniles for the physiological transition from freshwater to saltwater (especially mouths of creeks and Duwamish River). "

Essential Fish Habitat

Essential Fish Habitat (EFH) is "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity" (16 U.S.C. 1802(10).

source: http://www.epa.gov/wed/pages/staff/lackey/pubs/ llusion.htm

Waterfront Framework Connections

Ecological Networks The North Pacific to Central Waterfront

The Central Waterfront belongs to a larger geographical and ecological region, one that can be defined by the range of salmon spawning habitats across the North Pacific.



Ecological & Recreational Networks: Central Puget Sound to Elliott Bay Sources: Google Earth; NOAA; EPA; Washington DOE; Shared Salmon Strategy; Puget Sound Partnership; The Nature Conservancy; WA Watertrails Assoc.



Ecological & Recreational Networks: Elliott Bay to Central Waterfront Sources: Google Earth; NOAA; EPA; Washington DOE; Shared Salmon Strategy; Puget Sound Partnership; The Nature Conservancy; WA Watertrails Assoc.



WRIA 9: Duwamish-Green Rivers Source: WA DOE



Existing and potential boat connections to Puget Sound

Regional Networks Open Space Systems

Seattle's Blue Ring project proposes an addition to the historic Green Ring plan developed by the Olmsteds in 1903. The Blue Ring strategy aims to implement a similar network of open spaces within the city center. The Elliott Bay Bicycle Trail system is one thread that connects the Blue Ring with the Green Ring. Central Waterfront Park is a crucial element in all of these networks.



Existing Green Ring and Proposed Blue Ring Networks Source: City of Seattle



Elliott Bay Bicycle Trail System Data Source: WAGDA, accessed Dec. 2010

Site Expressions: Playing on the Pier



Saturday, October 8th 1pm until Sunday, October 9th 5pm

Pier 62/63, Seattle Waterfront adjacent to the aquarium

A project by students of the UW College of Built Environments with support from ScanDesign Foundation



For the first studio design exercise students were asked to construct an exhibit or piece for Pier 62/63 that would engage the public in some way. Five teams each created a popup art installation and executed their designs in less than one week, proving that simple and inexpensive designs can activate and enliven the waterfront. The results were an outdoor living room, a seaweed forest with facts about the waterfront, shipping container boxes, mirrors that juxtaposed city and sound views, and an interactive sound sculpture. Tourists, city officials, and students alike came to the pier to play, interact, and enjoy the waterfront.



Submerge Erika Harris, Hilary McDonald, Laura Poulin, Karin Strelioff, Yingju Yeh



Home Sweet Waterfront

Ximena Bustamante, Jenny Ngo, Manami Iwamiya, Erin Feeney, Orona Hai





rePORT

Taj Hanson, Katie Hunt, Audrey Maloney, Haruna Nemoto, Michael Ward



Caught in the Current

Peter Cromwell, Andreas Piller, Roma Shah, Andrew Williamson

Public Spaces | Public Life for Seattle's Central Waterfront

Susan Costa Paschke, Davis

Hammer, Jessica Michalak,

Lauren Rock, Virginia Werner

re:connect



INTRODUCTION

10 ANALYSIS + FRAMEWORK







Ximena Bustamante	MLA
Davis Hammer	MArch
Taj Hanson	MLA
Lauren Rock	MArch
Karin Strelioff	MLA
VIRGINIA WERNER	MLA

• city quilt



Yardstick Park

Split Connections

Eco-arium

Eco[logical] Infrastructure

Strolling Seattle's Edge

Wave Pier

Public Spaces | Public Life for Seattle's Central Waterfront

City Quilt

WEAVE CONNECT DAPT





There are no opportunities for the public to directly touch the water.

CITY CONNECTIONS



VISION

- Create a diverse system of public spaces, human scale buildings, pedestrian corridors, and ecological infrastructure that reconnects the waterfront to the city center
- Focus on pedestrian prioritization and human scale design strategies
- Allow Elliot Bay's edge to become part of the public space experience
- Respond to the Seattle Aquarium's expansion goals without creating additional over-water coverage
 Generate a district system of ecological infrastructure to improve ecological performance of the waterfront

• Weave together a diverse palette of public spaces to form a fluid, dynamic, and adaptable waterfront district

DESIGN INTERVENTIONS

- Move Alaskan Way Boulevard from the water's edge into the former Viaduct path, creating a green street with commuter bike lanes, stormwater swales and active shop fronts.
- Provide a hierarchy of pedestrian connections to the waterfront, including a funicular and public transit (with additional bus stops and a new street car route along Alaskan Way Blvd.)
- Establish a mix of shops and residential units near the waterfront to activate the site night and day.
- Create a promenade that connects users to lively new public spaces
- Establish a community garden to support the local food bank while providing a critical pedestrian connection between Victor Steinbrueck Park and the waterfront

















The Seattle Aquarium is an essential component of the waterfront. Yet it turns its back on the water. My proposal redefines the image of the aquarium, maintaining its waterfront presence but pushing the program, both formally and programmatically, into the city. The aquarium is a new public connection to the waterfront.





Descent from First

The visitors move along an elevated path from the dead end of Union St. onto the roof of the aquarium addition. They are presented with the view over the rooftop of the existing aquarium.

They then slip through the volume and descend to the plaza below, underneath the hovering fish tank.

The experience of the tank changes from every perspective. It is seen from above, straight on, and from below. The diamond plan causes the tank to almost disappear from a certain perspective.





Section Dilemma

The problem of section with the site was the fragmentation of public space that resulted from an addition. As a response, I chose to split the volume and push half of the aquarium underneath the public realm. This provides a continuous open space framed by the exposed structure at the end of the aquarium cantilever.



Approach from the Mixed Use Heart



Eco[logical] Infrastructure: Reinterpreting ecological design at the Seattle Central Waterfront



Aesthetics and ecological infrastructure...

"Aesthetic appearance can awaken a sense of values and needs in people, a willingness to care and to adopt a feature or a public space as their own. Thus the synthesis between the restoration of environmentally sensitive functions and the highest possible level of design and appealing aesthetics is crucial." - Herbert Dreiseitl





Aquarium

Introduce aesthetic interventions that reveal the sites' ecological processes and engage the public Reuse viaduct materials for waste reduction, historical reference, and embrace of the urban experience 100 200

0

50



This is a constructed wetland...





Stormwater is infiltrated
and cleansed before'Core samples' are pulled from
the ground to elucidate this
dynamic system



Water from the elevated aquarium is filtered through the 'core sample' and released below



Sub-surface drainage is exposed



Trees are planted on the distinct angular plane of the waterfront piers



Woven rebar and wire mesh become extensions of the trees, providing a scaffold for canopy litter to adhere. As birds inhabit the trees and nesting materials are removed from these structures, a seasonal fluctuation in their form is exhibited.

This is a *restored shoreline*...



Hollow cores are created in salvaged concrete blocks from the viaduct



Viaduct Material

Reuse

Ecotypes



The blocks collect substrate,

enhancing juvenile salmon habitat over time

Beach visitors are able to interact with tide pools during low tide periods



The Seattle Eco-arium

The Seattle Eco-arium incorporates the theme of discovery to create an interactive educational experience for people to learn about Seattle's ecological processes, waterfront logging history, and stormwater management. Two curvilinear paths, reminiscent of the natural shape of a river, weave through the landscape connecting nodes of discovery and exploration where people can learn about ecological processes through experiential learning and observation.





Site Connectivity The Eco-arium Park acts as an important connection between the existing aquarium, promenade, water's edge, new Alaskan Way and the mixed use heat.



Stormwater Management

The Eco-arium Park educates the public about stormwater management by exposing the entire cycle. The bioswale collects stormwater runoff from the roads and buildings and treats it before returning it to Elliott Bay.

PROPOSED ACTIVITY LEVE



Existing Site Challenges:

- Car-dominated space
- Little interior/exterior interaction with Aquarium Views to Elliott Bay blocked by mammal exhibit house



- 9 10 11 12 1 2 3 4 5 an



Aerial View of the Eco-arium Park

New Opportunities Created:

- Pedestrian-focused promenade
- Transparency of Ecoarium facade establishes interior/exterior relationships
- Views establish connection with the ocean and mountains
- Free and available to a diversity of users, park is accessible at all hours of the day

STATES A ABBARIAN





Strolling Seattle's Edge: A New Waterfront

A truly civic waterfront becomes possible when Alaskan Way From a waterfront for no one to a waterfront for all

Boulevard no longer follows the water's edge. In place of a fourlane road, imagine a winding promenade with intimate plazas and benches perfect for people watching. Take in panoramic views of Seattle's working ports and the Olympic Peninsula beyond. Discover playgrounds, grassy hills and steps down to the water's edge that invite visitors to touch the water. At low tide, rocky beaches offer tidepools to explore. Under the water, reconstructed beaches offer new habitat for marine life. Connect with Puget Sound's ecologically rich edge from the center of a densely urban city. Imagine a true Seattle waterfront.



Is this truly a waterfront for Seattle?

Site Challenges & Opportunities





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Section A: Summer at the Floating Promenade and Playing Courts





Summer sunset at the Wave Plaza

Section B: Autumn dusk at the Wave Plaza



Section C: Exploring tide pools by the Sea Steps





Discovering Puget Sound ecosystems



Wave Pier





Aerial view of Wave Pier looking North, showing the pier weaving back into the city, and day activity

Reworking Pier 62/63

The existing Pier 62/63 is dilapidated and empty. The space is under-utilized and the decking is rotting away. Once there were concerts on the pier, but no events occur anymore.

The Wave Pier will revitalize the pier, creating new forms and functions while echoing the form and materiality of the old pier. The iconic quality of the pier will help create a new identity for this part of the Seattle waterfront. Event programming and lighting will reactivate the pier night and day, year-round. The new form takes advantage of the ideal location for viewpoints out across Elliott Bay to the Olympic Mountains.



Aerial view of Wave Pier looking South

Wave Pier Elements

- The cafe tucked under the northeast portion of the Wave Pier invites people onto the pier from the promenade.
- The undulations make natural south-facing sitting places, make the space human scale, and act as seating for performances.
- The southwestern portion of the Wave Pier acts as a performance space for day and night events.
- The wave bridge to the aquarium pier draws people out to walk around both piers, and provides excellent viewpoints.
- Kayak storage is tucked under the south edge of the pier, and a kayak launch drops into the protected space encircled by the pier and wave bridge.
- Light-permeable metal decking enhances the salmon migration corridor.
- The abandoned pilings of the former Pier 62/63 speak to the history and form of the site, and provide an ideal opportunity for thematic night lighting.
- The entire pier is lit at night, acting as an icon for the waterfront redevelopment, and with event programming, draw people down to the waterfront.
- The use of native plants, such as beach strawberry, speaks to the regional history and reduces plant maintenance.



Wave Pier day activities: kayaking, strolling, lunching



Night view of Wave Pier lighting



North side of the Wave Pier, showing the cafe



Night view of cafe and kayak launch



View of seating and out to Olympics



South Elevation of Wave Pier



YARDSTICK PARK: an urban alley space allowing the visitor to activate & create the program

CONTEXT: yardstick park at waterfront's edge



EXPERIENTIAL SITE GATHERING ANALYSIS



DIAGRAMATIC LONGITUDINAL SECTION: looking from West to East along Yardstick Park to the City





site plan legend

- 1 allee of quaking aspens
- 2 new access thru condos
- 3 storm water ribbons along paths
- 4 staying/seating spaces
- 5 climbing wall
- 6 eco habitat post7 walking paths

8

- walking paths flexible spaces for skateboarding, roller blading
- 9 sheltered open space (under new vehicle road)
- 10 viewing balcony
- 11 green condo roof
- 12 archway entry
- 13 new crosswalk
- 14 elevated-slow down vehicular surface
- 15 future urban agricultural terraces





URBAN PLAY

potential play along the urban water's edge





athletic play



legend

creative play

musical play







18

INTRODUCTION

DESIGN

10 ANALYSIS + FRAMEWORK



City Quilt: Weave, Discover, Connect, Adapt

Tides and Pools: Enhancing Activity Flows and Concentrations

- POD:
 - People-Oriented Design
- Seaweed:
 - Where the City Takes Root

Peter Cromwell	MLA
ERIN FEENEY	MArch
Erika Harris	MUP
MICHAEL WARD	MUP
ANDREW WILLIAMSON	MArch
Yingju Yeh	MLA
..... o Tides & Pools



Completing the Connection

Pike Street Hillclimb

Islands and Tidepools

Hostel Park Connector

Crossing Tides PC1 Farm and City Living



CIVIC AQUARIUM



Tides & Pools Concept

Tides and pools describes a human scale approach to enhancing the concentration and flow of life throughout the waterfront's Aquarium/ Pike Place Market District. The overarching goal of the design concept is to increase the social, ecological, and economic vitality in the District though:

- Improving legibility of paths to promote connectivity.
- Increasing mobility of diverse users throughout the district, in particular the steep Pine, Pike, and Union Street corridors.
- Improving the quality and quantity of public, semi-public, and semi-private spaces throughout the district.
- Enhancing ecological function through stormwater management and intertidal and upland habitat creation.
- Identifying opportunities for residential and commercial development to increase density and economic activity.



Tides & Pools











SITE PLAN

PikeStr

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Islands and Tidepools



Design Inspiration



Tide Pools teem with life Source: naturevalleyeast.com

Beaches attract activity Source: Flickr com



Riparian corridors provide overflow for storm events Source: nisqually-sequalitchew co





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Design Concepts







Forming





Wonder

Experiential Qualities











A Civic Addition to the Seattle Aquarium

The goal of this project is to enhance the civic presence of the Seattle Aquarium while creating active spaces and clear pathways along the waterfront. Three interventions are proposed along a new boardwalk that weaves along the site: a new public entry to the Aquarium, an underwater addition that creates a shallow water beach for human access and restored habitat, and a commercial boardwalk that replaces the old Pier 62/63. Through these interventions, the Aquarium buildings frame and enhance public spaces.

Breaking the historic grid









Tides & Pools Throughout the Market District

Goals: To improve mobility, ecological function, and public spaces around Seattle's waterfront.





- 1. PC-1: treat on site, store for future use, drain to beach
- 2. Western: treat on site, drain to Hill Climb and stormwater basin
- 3. Hill climb: treat on site, store for future use, drain to beach
- 4. Overlook: treat on site, drain to beach
- 5. Beach: treat on site, drain to bay
- 6. Aquarium: drain to bay, some treatment on site

Water Plav







Pedestrian Flow Bike Flow ransit Flows



Waterfront Mobility

1. Separated waterfront bike path.

Tides: Mobility Flows

- 2. Pedicabs as transit.
- 3. Tour bus loading.
- 4. Bikesharing.

5. More frequent service for 99 bus (Alaskan Way), improved stops with bus arrival time information. 6. Waterfront promenade.

North-South Mobility 7. Western converted to complete street, including wider

Source: Be

sidewalks. 8. Continue alley improvement program on Post Alley. 9. Pike Place converted to pedestrian-only street with delivery windows. 10. Trolley planned for First Avenue.







13

AN

Source:

East-West Mobility 11. Pine: Staircase on PC-1 site connecting Western to Alaskan Way and Waterfront.

12. Pike: Add gondola and raised crosswalks. 13. Union: Staircases replaced.

*Add wayfinding throughout district.

Pools: People Spaces



- 1. Victor Steinbrueck Park
- 2. New viewpoint (PC-1 site)
- 3. New bar (PC-1 site)
- 4. New green space (Western)
- 5. New viewpoint (green roof)
- 6. Pike Place Market
- 7. Hill Climb viewpoint
- 8. Hill Climb restaurant
- 9. New Union Street staircase
- 10. New overlook park cafe
- 11. Aquarium
- 12. Gondola/public restrooms/restaurant
- 13. New beach park
- 14. New Pier 62/63
- 15. New waterfront promenade

Stoping & Staying Pausing & Moving On



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Pike Street Hill Climb: Where the City meets the Water

Existing Conditions



Difficult to find way down from the market to the waterfront.

Hill Climb is dark day and night.





Base of the Hill Climb is not attractive.

Many unattracive Hill Climb facades.



Proposed Plan for Hill Climb

to gather, and optimize stormwater management.



Cister

пппп

ter Plaza

Treatment

Stormwater Plaza Stormwater Plaza Treatment

Perspective Looking Up Hill Climb

Hill Climb Section

Cistern

Treatment

Plaza

Proposed Elements

- Retrofit with stormwater treatment and storage
- Add gondola lift
- Add plazas and seating

Hill Climb goals: To improve the experience of traveling between the market and waterfront, add spaces for people

- Retrofit lights for efficiency
- Move trees to side to improve safety and visual connection
- Screen/reface parking garage wall
- Add raised crosswalk across Alaskan Way



Stormwater Treatment

Plazas and Seating Efficient Lighting







Raised Crosswalk



Hill Climb Alternatives Analysis (5 best, 1 worst)

	Stairs	Gondola	Funicular
User Convenience	1	5	5
Speed	1	5	5
Infrastructure Cost	4	1	1
Operation Cost	5	2	2
Termini compatibility	5	3	2
Space requirement	1	4	1
Visual compatibility	3	3	2
Total	20	23	18



Pike St. Hillclimb – Afternoon



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Tides & Pools Michael Ward

PC1 - FARM MEETS CITY LIVING





Making connections, both physically as well as visually are important for the new Seattle Waterfront. The PC1 site utilizes connections in order to provide human scaled housing that relates to its urban context as well as provide a passage-way from the Pike Place Market down to the shores of Elliot Bay.



The site also provides space for urban agriculture drawing upon the connection to the adjacent market. This provides the opportunity for an urban housing complex that is continually changing with the seasons and has the activity of residents planting, caring, and harvesting their crops to be consumed at home or sold in the market. There is ample community space to create a lively and welcoming urban development.



61



TRANSVERSE SECTION - SCALE: 1/32" = 1'-0"



LONGITUDINAL SECTION - SCALE: 1/32" = 1'-0"



MOVEMENT CONSIDERATIONS

Public Spaces | Public Life for Seattle's Central Waterfront

Hostel Park Connector



Spatial and Program Concepts







Enrich the interactions betwee

people in the public space

A lawn and a hill for people to enjoy the sun in the park

The quality of paving; from edge to edge & façade to façade







A corridor and several glass boxes create different ways to explore

The roof park and a stretch of table attrack people to enjoy the great view of Seattle waterfront

Analysis Diagrams: Before and After









Open view potential Connecting the city and the waterfront

Vacant lots into green spaces



Perspective of Union Street Entrance



Building Diagrams





Stairs, lights and greens



Local café + bookstore



The tree grows from the ground floor of Tasty Restaurant



Activate the site during night time



Ground

2nd Story

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Green walls, to break wind and

increasing green façade





Birdseye of Hostel Park



Perspective of Restaurant at Night



Activity Tides











City Quilt: Weave, Discover, Connect, Adapt

Tides and Pools:

Enhancing Activity Flows and Concentrations

POD:

People-Oriented Design

Seaweed: Where the City Takes Root SUE COSTA PASCHKE MLA CHEN HAI MLA KATIE HUNT MArch MANAMI IWAMAYA MLA ANDREAS PILLER MUP LAURA POULIN MArch

• • POD [people-oriented design]



Play Park Pier

Vaterfront Way

Union Street Connections

Aquarium Pi

Farm I City I Fun

POD [people-oriented design]



The POD district is a collection of spaces and activities accessible to all, designed for people, and richly experienced at the human scale. Fluent connections integrate public/private, local/tourist, urban/nature life to support diverse and vibrant public spaces.



Local Destinations Walking and Biking Times

Challenge :

Commerce and infrastructure obstruct individual access to Puget Sound from downtown impeding people's activities and personal relationships with the water's edge.

> Olympic Sculpture Park Belltown P-patch Pioneer Square

Downtown Ferry Terminals

Pike Place Market
 Elliot Bay Bike Trail

Elliott Bay Bike

and Walking Trail

Proposed Street Car

TO WATERFRONT

1-5/

Challenge :

Heavy traffic, unwelcoming edges, and expansive empty space make confusing and unpleasant pedestrian experiences through the topography and public/private space.



Challenge :

Limited types of waterfront activities restricts lively pedestrian patterns to daytime and weekend hours. People perceive empty public space as off-limits and unsafe.

 \bigcirc



Challenge :

The coverage of hard surfaces sends polluted stormwater directly into the sound and is visually stagnant, affecting the health of Seattle's citizens, ecology and economy.

VRGINIA SREET

¹888888

STEWART STREET

PILK PLACK

PINESTREET

WESTERN AVENU

N

scale: 1"=180'

1ST AVENUE

PIKE STR

 $\langle \rangle$





[people-oriented design

Union Street Connection [stormwater canopy walk]



historical forested bluffs along puget sound

historical waterfront photograph source: http://pauldorpat.com



gehl architects waterfront analysis

Pedestrian counts show union street has second highest level of activity for connector streets. source: gehl architects



The stormwater canopy walk begins at western avenue and union street, connecting pedestrians to the tip of the forested pier. Channeling stormwater along the canopy walk's edge creates an environment and education feature.

A tree house bar





The current seawall and boardwalk elevate people above the water with limited opportunity for sensory or ecological engagement.



Storm water from roads, roofs, and other impermeable surface directly enter Puget Sound and is the prime pollution contributor.

existing site plan source: google earth

invitation to the waterfront



Existing gateways to the waterfront are indifferent, confusing, unwelcoming afterthoughts.



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The current condition along union street at the waterfront is very poor, yet it has the second highest pedestrian traffic, making it an essential space to rehabilitate so that its character speaks to what the waterfront should be.

existing site section

photo collage



POD [people-oriented design] Sue Costa Paschke and Laura Poulin

Union Street Connection: stormwater canopy walk







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section c scale: 1" = 40'-0"



FARM | CITY | FUNA city as a meeting and sharing place



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Aquarium Pier





The existing relationship between the aquarium and the waterfront is boring and unengaging.



pier and a series of aquarium additions, the relationship is mutually beneficial to all users.





connection to the downtown street grid



aquarium expansion as marine habitat







evening on aquarium pier



Public Spaces | Public Life for Seattle's Central Waterfront

Waterfront Way & Streetcar Space & Movement at the Human Scale

Absent the traffic typical of Alaskan Way today, the re-imagined waterfront street applies the principles of 'living streets' and 'shared space' to create a comfortable social space that enhances the public realm while accommodating the needs of local residents. The reinterpreted street suggests a new paradigm--place and movement at the human scale, where all modes enjoy equal priority, space is negotiated naturally at low speeds, and users are encouraged to be in the street as much as move through it.



People Meet Water Western Harbor, Malmö, Sweden



Multi-Use Trail

Elliott Bay Trail & Myrtle Edwards Park

Systems for Movement | At Human Scale

Improvements for Bicycling | Elliott Bay Trail

Circulation Concepts



Alignment as Runoff Filter

Every component of the transportation system is designed to move at a pace more hospitable to people than the motor-vehicle-dominated Alaskan Way. Motorized traffic on the street is slowed significantly through the use of traffic calming measures typical of sharedspace streets; an abundance of space is available for walking or bicycling, and the re-introduced Waterfront Streetcar offers to do the leg-work for those needing to travel a greater

Elliott Bay Trail has been re-aligned to follow the west side of Waterfront Way, providing a path uninterupted by crossstreets for the entire length of the central waterfront. The path has also been widened to 10 feet, and bicycle racks abound to ensure that riders can stop

distance along the waterfront--and for those simply interested in a relaxing ride.



Streets for Living Carlsberg, Copenhagen, Denmark



Historical Ties to Rails

Railroad Avenue

Known as Railroad Avenue before 1936, the street was originally characterized by industry and its associated web of rail lines, which wove across wooden trestles suspended above the rocky shores of Elliott Bay. The design of Waterfront Way draws inspiration from the street's past, including a reinterpretation of the boardwalk and old freight rails.



Railroad Ave from Wall St (1916) and Marion St (1934) Source: University of Washington Libraries Digital Collection

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George Benson Waterfront Streetcar

In operation from 1982 through 2005, the 'Benson Line' was an iconic vintage streetcar that connected Broad Street to Pioneer Square and the International District via Alaskan Way. One of the classic cars will stand as a monument along the Olympic Sculpture Walk, while the Waterfront service will be reinstated on a newly constructed track.



George Benson Waterfront Streetcar Source: City of Seattle Municipal Archives





riding and start resting whenever they may desire.



Olympic View Boardwalk at Dusk.



Early Morning on Waterfront Way



Quick Win | Temporary Shared-Space Street Trial

Because development of Waterfront Way as a shared-space street as designed [left] would be both costly and unprecedented in Seattle, a trial scenario should be used to confirm projections about its value and applicability. A temporary and inexpensive means of testing this concept suggests simply installing movable planter boxes [above] within the existing motor vehicle right-of-way. A method such as this, deployed near Nørreport Station in Copenhagen in September 2011, effectively simulates the reduced traffic capacity and weaving travel paths characteristic of a shared-space street.







Variegated steps line the boardwalk, inviting passers-by down to the water to stop and stay in one of the many gathering spaces created by undulating steps. Benches opposite the steps slide along rails, encouraging users to pull up a seat wherever their favorite spot or friendly gathering finds itself.

Places for Eating | Wine & Dine Waterside

Mobile vendors of all sorts flock to the boardwalk, congregating near popular social spaces to serve everything from coffee on the go to gourmet street fare--a great spot for families and business lunches alike.

Places for Relaxing | Indulge the Senses

Nature or nurture--or perhaps both at once. Cafe tables provide the perfect place to enjoy coffee, cake, and breathtaking views of the Olympic Peninsula across Elliott Bay.

A Place for Ecology | Low-Impact Design

The entire project seeks to promote low-impact, ecologically sound design principles, especially with regards to water. While the most visible element of the site's stormwater systems is certainly the bioswale corridor running beneath the new Waterfront Streetcar alignment, this is but one piece of the significant sub-surface natural filtraton system. The expansive boardwalk introduces additional pervious surface to the formerly primarily concrete scene, and boards 'split open' intermittently to allow the plant-life beanath to peak through.





Proposed Section

Waterside Steps | Olympic View Boardwalk

The Olympic View Boardwalk is divided into three distinct spaces according to the character of each one's respective waterside steps. Each set of steps exhibits some form of horizontal and/or vertical undulating pattern, thereby influencing how individuals might flow through or stay in the unique resulting spaces. The rise and fall of the tide introduces a natural element of fluctuation--alternately engulfing or uncovering the concrete seating spaces--while further variety is introduced through sliding wooden steps and benches that allow users to customize their experience.









▲N



Concept is play on Seattle map!



Tide system



They have two layers of pier. There are small Lake Union and Elliott Bay on the lower pier, which are flooded with seawater at the high tide. At the low tide, seawater desappear, but small water pockets on the lower pier collect seawater.



Left isometric 3D model @high tide







POD [people-oriented design



ITRODUCTION

10 ANALYSIS + FRAMEWORK







Audrey Maloney	MLA
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Jessica Michalak	MLA
Haruna Nemoto	MLA
Jenny Ngo	MUP
Rома Shah	MArch, MLA

.....o Seaweed



Seaweed

This district plan for the Seattle Central Waterfront takes inspiration from the native seaweeds found in the Puget Sound waters. Seaweed requires 3 things to survive: sunlight, saltwater and a strong anchor point, analagous to Seattle's historical dependence on its port and waterfront. The goal was to create a pedestrian priority district that would provide attractions, amenities and resources to the waterfront promoting year-round day and night use. The Seaweed master plan establishes a new district at the water's edge where the city can take root. The Sea Path is the spatial anchor/stem for the district, while the east-west stormwater function, ecological details, and pedestrian connections and ecological details form tendrils connecting the city to Elliot Bay.

STORMWATER MANAGEMENT

PC-1 HILLCLIMB

PIKE ST HILLCLIMB



The green streets which run along the PC1 Hillclimb, the Pike Street Hillclimb, and the Union Street Hillclmb serve as the primary routes for pedestrian circulation, stormwater treatment, and increased vegetation.



The new waterfront district requires clear circulation intertwined with activities and ecology. First, a pedestrian promenade, 'Sea Path,' runs the northsouth length of the waterfront. To better connect the site to the existing Seattle street grid, three specific east-west connections are extended to the Sea Path: Union Street, Pike Street, and a new connection from the PC-1 site (Pike Place Market). Each connection is developed in a character that reflects the needs of its vicinity. Additionally, due to the extreme grade of the site, each of these pedestrian corridors serves stormwater functions via rain gardens and biofiltration.

UNION ST HILLCLIMB



UNION ST

The Seaweed plan proposes an urban beach, waterfront plaza, extended space for the Seattle Aquarium, a new vision for pier 62/63 and new pedestrian experience from the PC-1 site. The following pages will explain these specific sites in further detail. Each design addresses the city to the east and bay to the west by weaving ecological considerations into the design proposals with rain gardens, green roofs, reduced near shore coverage, lightwells for salmon runs and native planting palettes.







STARFISH

With all of the assets present at the Seattle waterfront - stunning views, proximity to lively neighborhoods, nature visible at a distance - how can the area overcome its current limitations to achieve a balance all the different needs and desire projected on to it? How should issues of transportation, topographical barriers, and pedestrian-unfriendly urban hardscape be addressed and integrated into such a visible space with so much potential for cultural, social, and ecological activity?

small & social/private areas




Seaweed Audrey Maloney

Pocket Piers: the Urban Beach

One of the major focal points of Seaweed master plan is the new urban beach which is located on the site directly south of the Seattle Aquarium, where Waterfront Park is today. The vast extents of the site, which measure nearly 500 feet north to south, pose a major challenge to activating and restoring a sense of human scale to the beach. The Pocket Piers concept draws upon the "pocket park" spatial strategy which breaks down the scale and localizes the activity of the adjacent green street on Union. Pockets which delineate the edges of three piers are stacked to create a dynamic composition of pockets which define the space and the activities which take place throughout the site. The stacked piers explore the various sectional relationships between people and the water, even allowing the public to touch the water, particularly at the lowest level of Intertidal Pockets. The Intertidal Pockets, like the Pier Pockets, are composed of three levels of pockets which are reveled and hidden with the changing tides. Over time, the concrete surface will allow for algae and vegetation to grow, highlighting the changing form that the beach can take over time.





PIERS



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POCKET PIERS
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ABOVE the water IN the water BESIDE the water WITERIDAL N the water





Seaweed Hilary McDonald

Urban Beach

Convergence Space

The Central Waterfront is situated in Seattle with the potential to become a unique convergence space for many user groups; Seattleites and tourists, neighborhood residents and daily commuters, and extended families with children and young couples.

When is a Beach more than just a beach?

The Urban Beach is a portion of the Central Waterfront unique capable of encouraging this mixing of user groups. The creation of a protective arm pier encourages swimming, protects the shallow beach, intertidal zone, and tide pools, and encourages jumping from the pier as it sweeps around at grade from the Sea Path. A Waterfront Activities center is located to the North with Scuba functions underwater, changing spaces, and fireplaces on the roof. The beach is comprised of three zones divided by the stormwater running channels running through it; The traditional 'soft' sand beach to the North, a transitional beach in the center dispersing users entering from Union St., and a rocky beach to the South as users progress towards the Tidal Pools. The Tidal Pools will function as active ecological spaces that allow users to interface with the enhanced ecological systems occurring on site. The visible transportation of remediated stormwater from uphill to Elliott Bay will increase user awareness, enhance the quality of the brackish water nearshore, and deleniate spaces within the design.



Β1

B1

A: Section from First Ave to Elliott Bay on Union St B: Section from Pike Place Market to Urban Beach

1: Sea Path 2: Waterfront Activity Center and Fireplace patio 3: View, jump, protect pier 4: Island Living

Β2

B3

B1: Soft Beach Rocky Beach B2: Transitional Beach B3: Rocky Beach TP: Tidal Pools



Pulled Back Seawall and Urban Beach Proposal Scan | Design Master Studio 2011

Section A: First Ave to Elliot Bay along Union St



Beach and Pier Proposal











Renderings 1: Overview of pier, fireplaces, tidal pools and beach 3: Night uses and gathering around fireplaces

2:Tidal Pools and discovery opportunities 4: 'Island Living' showing use of central hot tub for gathering







Scan | Design Master Studio 2011

Concept diagram

Circulation

New plan to pier62 63

View Social Enjoy the view Event Cafe(Inside)

Identity of bay Entrance of bay Easily accessible Buy a drink Chat Rest

























Section

Section: High Tide

Section: Low Tide

Public Spaces | Public Life for Seattle's Central Waterfront

Market Commons

Description

The Market Commons is an effort to reintegrate the existing PC-1 Site into its surrounding neighbors, the Pike Place Market, Victor Steinbrueck Park, Western Avenue and the redeveloping waterfront. The goal of this proposal is to bring the energy and vibrancy of the Market to the Market Commons. By creating at-grade connections at the Market, Western Avenue and the proposed Alaskan Way, this site uses the complex grade to connect users to a larger neighborhood fabric.



Design Concepts



topography: utilizing grade



movement: accessibility and connections



activity: comfort and liveliness

Scan | Design Master Studio 2011



multiple ways to travel, hierarchy of destinations, regardless of capacity with an end in sight

opportunities for

stacking uses

ground-floor activity



transparency through buildings









opportunities for stormwater filtration



overlapping uses and activities



protection from the elements

Western Avenue

Create a new street front to reintegrate the site back into the city and to reconnect businesses and activity from north and south ends of Western Avenue





Down from the Park

Improve the connection between Victor Steinbreuck Park and the waterfront. Users can now see the water as well as get down to it.



Site Connections



Create a pedestrian connection from Downtown to the Waterfront that supports life and activity 24/7.



Extending the Market Provide at-grade connection from the main floor of the Market, in order to expand areas for vendor stalls and to bring users to the site. Victor Steinbrueck Park Western Avenue 141 skan. **▲**N **Site Plan**

Seaweed Jenny Ngo

Puget Sound Diving Center and Waterfront Commons



This scheme explores how an introduction of a building with a diving related program and new waterfront plaza could redefine the existing site near the Seattle Aquarium. Based on the strong geometry of the Aquarium and the desire to emphasize one of the only pedestrian connections to the site--Pike Street Hill Climb--the 'fan' became the site strategy. The form of the fan allows for transitions from sea to land, public to private, nature to urban.

The plaza, "Waterfront Commons" is proposed as a central meeting space on the waterfront. Upon entry into the plaza from the hill climb, with the building's overhang a collect space is created. As the visitor moves north through the plaza, next is the drift space, where people can linger and decide their plans, finally the space is to settle, here sun and views reveal themselves, inviting visitors to stay.



proposed entry to site: COLLECT (DAY)

















A. site section





site aerial



view of plaza from boardwalk









Summer 2011 Travel Study Group

Inviting cities must have carefully designed public space to support the processes that reinforce city life. . . . At eye level the good city provides opportunities for walking, staying, meeting and expression, and that means it must provide good scale and good climate.

- Jan Gehl, Cities for People

Public Spaces | Public Life for Seattle's Central Waterfront

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2011 Scan | Design Interdisciplinary Master Studio

University of Washington