Design Commission Briefing
December 2, 2010
Project Area
Project Goals

• Address critical structural public safety needs at shoreline.
• Respect cultural, archeological, and historic resources.
• Consider long-term vision for the Central Waterfront.
• Provide enhanced habitat and environmental quality.
• Provide enhanced public gathering and recreational opportunities.
• Support economic vitality of the waterfront.
• Minimize cumulative construction impacts.
• Support fiscal responsibility.
### Developing Alternatives

#### Elliott Bay Seawall Planning and Conceptual Design Process

<table>
<thead>
<tr>
<th></th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>November - April</th>
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<tbody>
<tr>
<td>Tasks</td>
<td>Identify waterfront zones; present preliminary goals and objectives</td>
<td>Identify opportunities in each waterfront zone</td>
<td>Present preliminary zone area designs</td>
<td>Present conceptual plans and preliminary analysis</td>
<td>Refine alternatives and conduct more detailed analysis</td>
<td>Review alternatives with Central Waterfront Project</td>
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* April - Define preferred alternative
Ongoing Team Work

- PLANNING
- ENVIRONMENTAL
- ENGINEERING

CONCEPT PLAN DEVELOPMENT
seawall
a magic threshold
The vertebrates conquer the land. Upper left, restoration of the Devonian lobe-fin fish, *Eusthenopteron*, crawling out of the water. Lower left, the skeleton of *Eusthenopteron*. Upper right, the primitive Carboniferous-Permian labyrinthodont (p. 764) amphibian, *Diplovertebron*. Lower right, skeleton of *Diplovertebron*. Note that the limb bones of *Diplovertebron* show the same pattern, now familiar, as all higher vertebrates (Fig. 19-2); this pattern is still not clear in *Eusthenopteron*. 
A magic threshold
ecologically
culturally
a magic threshold
ecologically
culturally
commercially
two regions

cascadia  oresund

oresund region
To reach open water, juvenile salmon must traverse the difficult passage along Seattle’s upper harbor and waterfront. Enhancements in the project area would provide much needed rest and food, and increase their rate of survival.
central waterfront
for example...

The Hydrologic Cycle

Evaporation

Precipitation

Spruce, Hemlock Forests

Transpiration

Wetlands and Debris

Cycles Nutrients for Plants and Animals

Surface Runoff and Sediment Infiltration

Intertidal Zone

Elliott Bay Ecologic Cycle
what can the seawall contribute beyond soil stabilization?
the big hairy issues
the big hairy issues
the fertile opportunities
six design zones

foundation
- contours and elevations
- locations and alignments
- hydrology
- habitats
- cultural resources
- navigational requirements
- property /ownership
- construction activities
- access requirements
- environmental challenges
- and...
six design zones

opportunities
- contour and elevation modification
- locational and alignment improvements and enhancements
- hydrologic cycle reconstitution
- habitat restoration and creation
- cultural resource protection and education
- navigational operation
- sustenance and improvement of properties and businesses
- construction as theater and economic stimulus
- access improvements
- sustainable interventions
- and...
Developing Conceptual Plans

• Why are end-to-end concepts important?

• How did the team develop the conceptual plans?

• How flexible are these designs?
## Conceptual Approaches

<table>
<thead>
<tr>
<th>Concepts</th>
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<tbody>
<tr>
<td><strong>A</strong> In-Kind Replacement</td>
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<tr>
<td><strong>B</strong> Ecological Waterfront</td>
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<tr>
<td><strong>C</strong> Urban Waterfront</td>
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<tr>
<td><strong>D</strong> Context Connections</td>
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<tr>
<td><strong>E</strong> Evolving Experiences</td>
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Program Elements

- Seawall surface treatments
- Rock structures
- Habitat features
- Beaches
- Cantilevered sidewalks
- Steps
- Railings
- Lighting
- Art elements
- Boating/transportation touchpoints
- Pedestrian touchpoints
- Sustainability features
- Educational/interpretive features
Light-Permeable Surfaces
Open Water Portals
Wall Surface Treatments
Concept A: In-Kind Replacement
Concept A: In-Kind Replacement
Concept B: Ecological Waterfront
Concept B: Ecological Waterfront
Concept C: Urban Waterfront

CONCEPT C: URBAN WATERFRONT  DRAFT - CENTRAL WATERFRONT
ELLIOTT BAY SEAWALL PROJECT  SEATTLE DEPT. OF TRANSPORTATION  OCTOBER 19, 2010
Concept D: Context Connections
Concept E: Evolving Experiences
Coordination and Partnerships
Working with City and Corps

Central Waterfront Project

Elliott Bay Seawall Project

Army Corps of Engineers
Working with City and Corps

- Central Waterfront Project
- Elliott Bay Seawall Project
- Army Corps of Engineers
Preliminary Concept Evaluation

• Concept plans evaluated based on goals and objectives

• Results will guide the team in next steps for design refinement and development of alternatives
Upcoming Seawall Public Outreach

December and January

- Conduct broader public outreach to gather feedback on concepts
- Develop interactive features online
- Host public meeting
- Provide organizational briefings
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