



# *Central Waterfront Stakeholders Group*

*March 22, 2011*



# *Housekeeping*

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# Project Schedules



# Working with the Army Corps

**The City of Seattle and the U.S. Army Corps of Engineers share the goal of addressing the critical safety need of the seawall.**

- The City of Seattle's proposed schedule to advance construction of the central waterfront portion of the seawall would require special Congressional authorization, and is subject to the availability of funding.
- The Corps of Engineers has not approved these alternatives. The Corps will continue to work with the City and incorporate stakeholder comments into the alternatives, where appropriate.





# *Waterfront Seattle Update*

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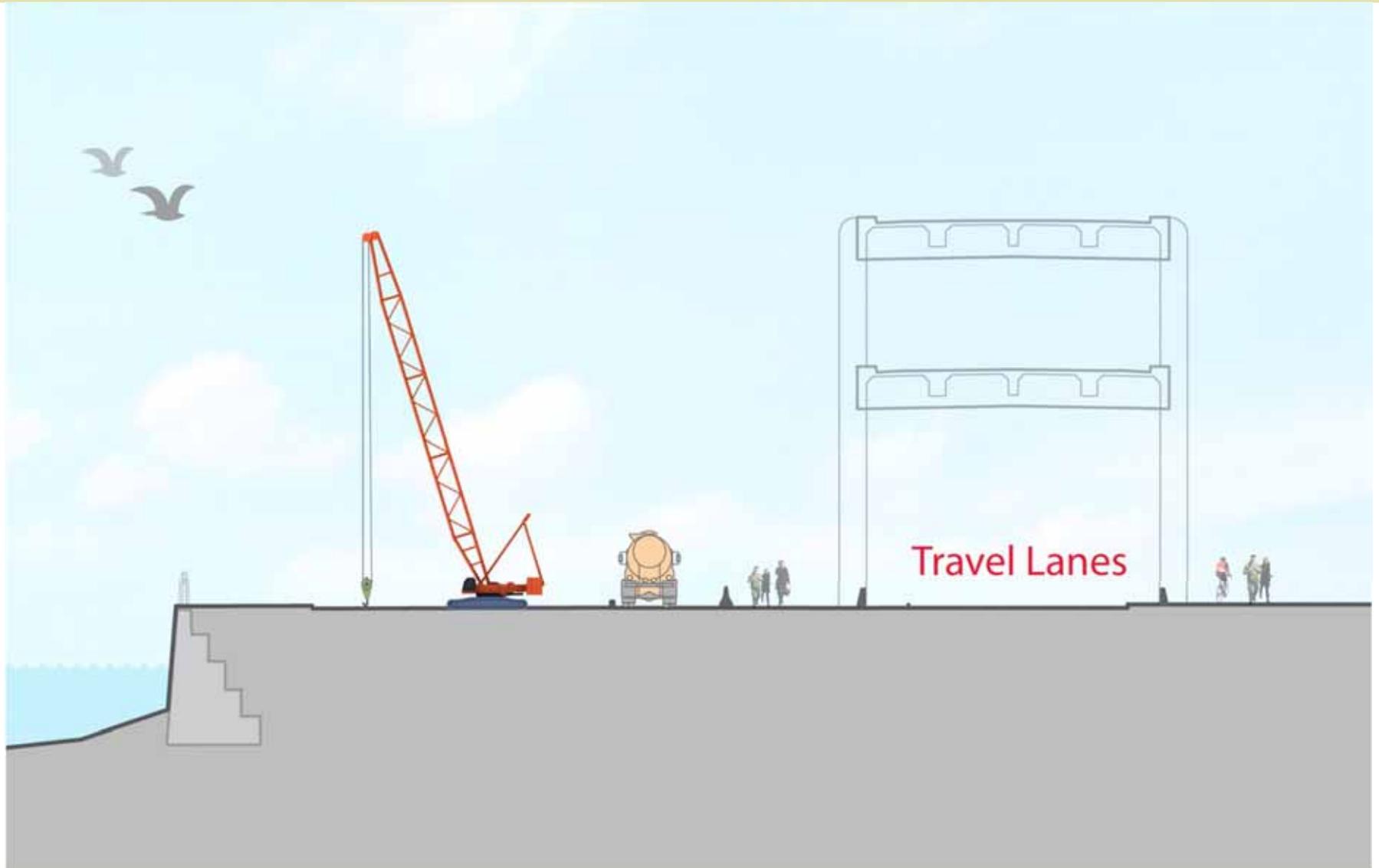




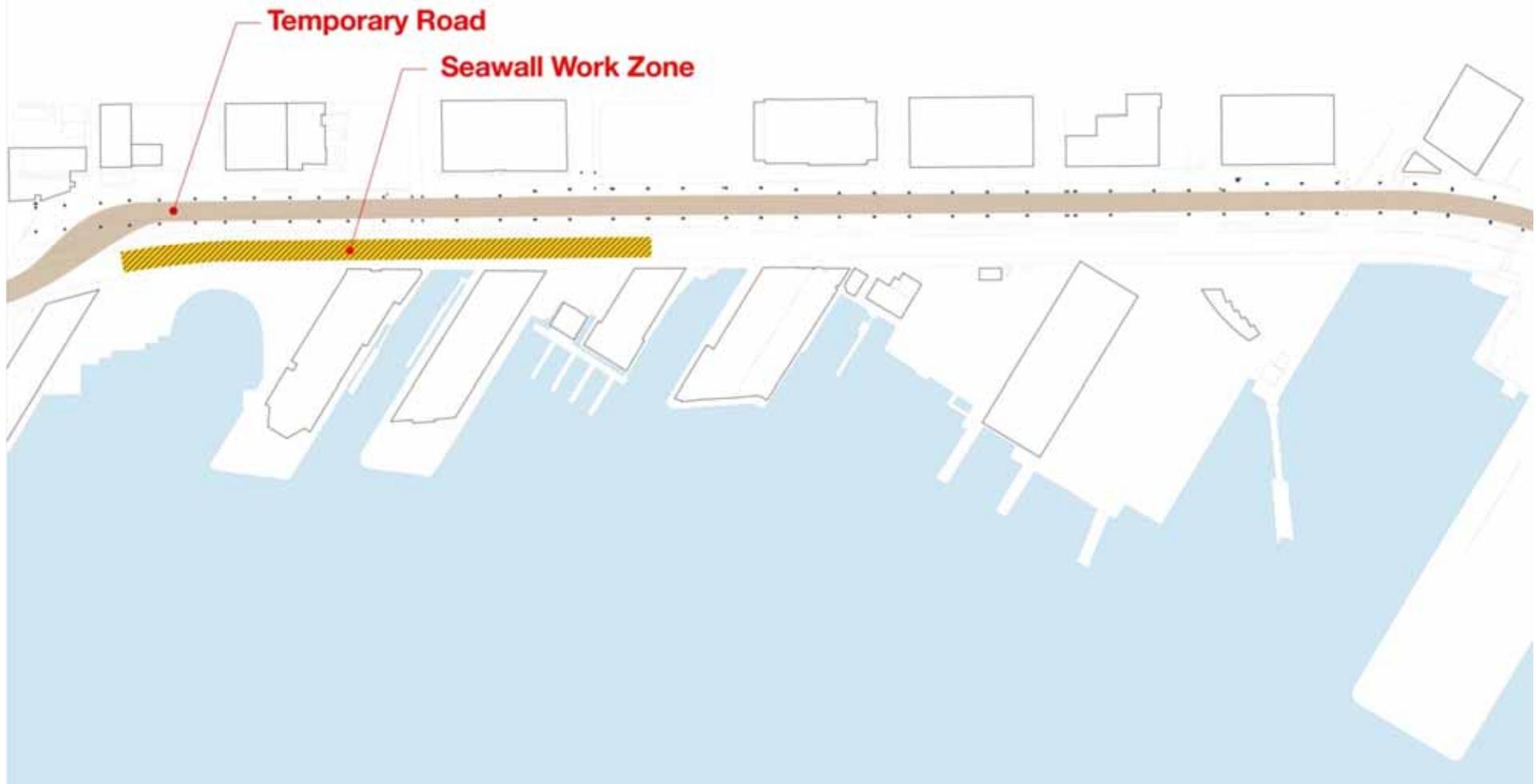
# *Seawall Construction*

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# Potential Construction Roadway Configuration



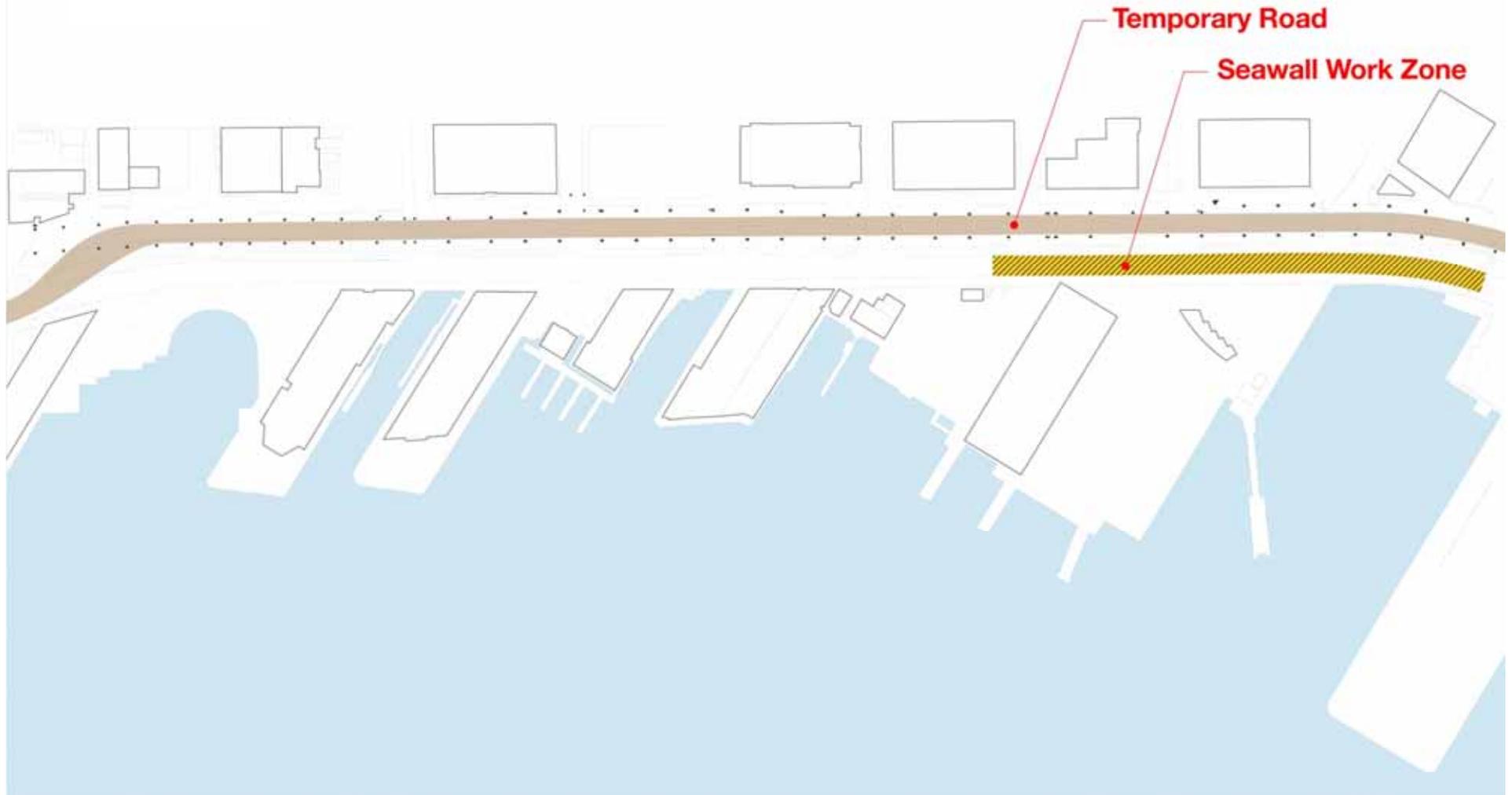
# Potential Temporary Road: Phase 1



# Potential Temporary Road: Phase 2



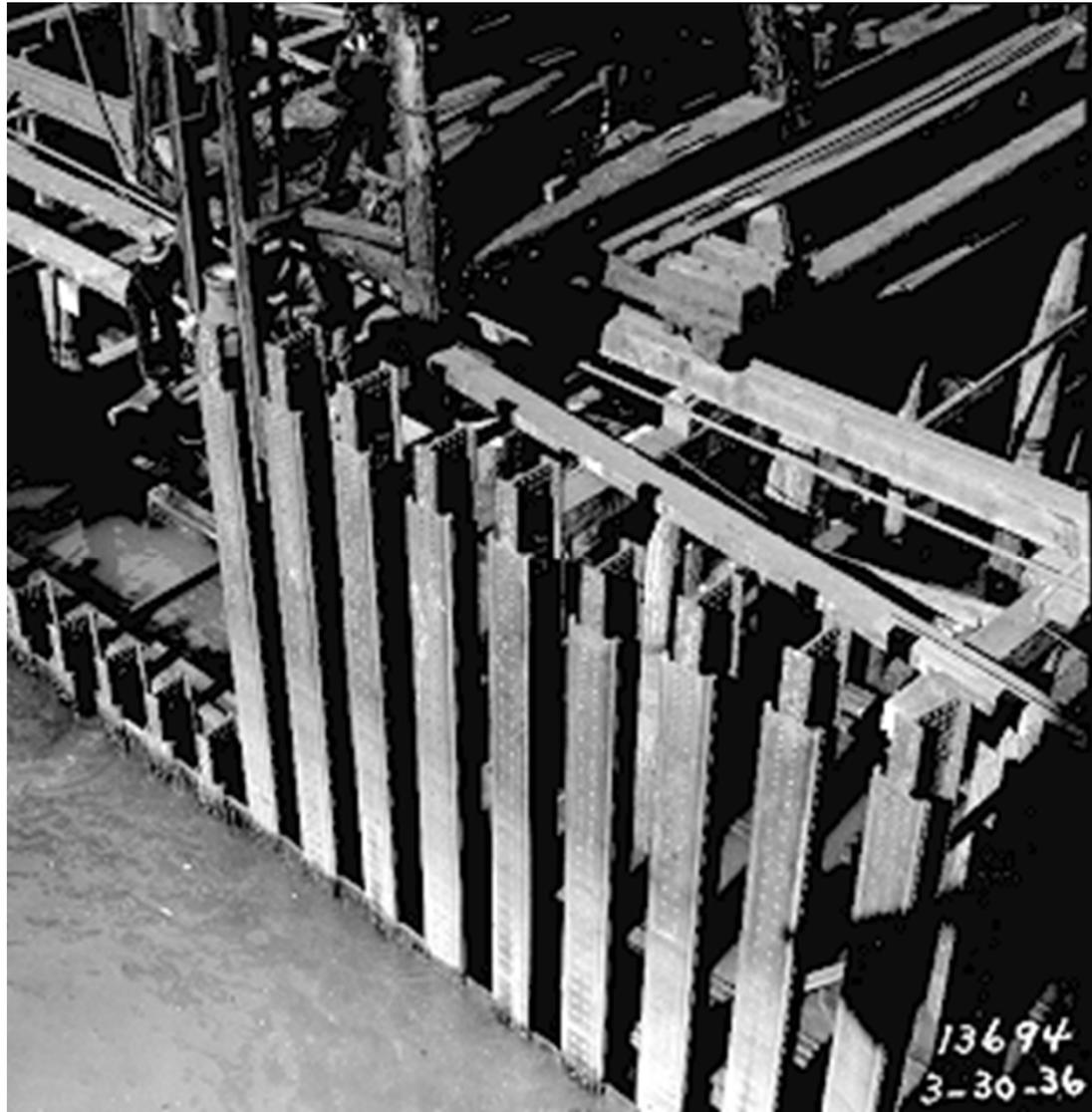
# Potential Temporary Road: Phase 3



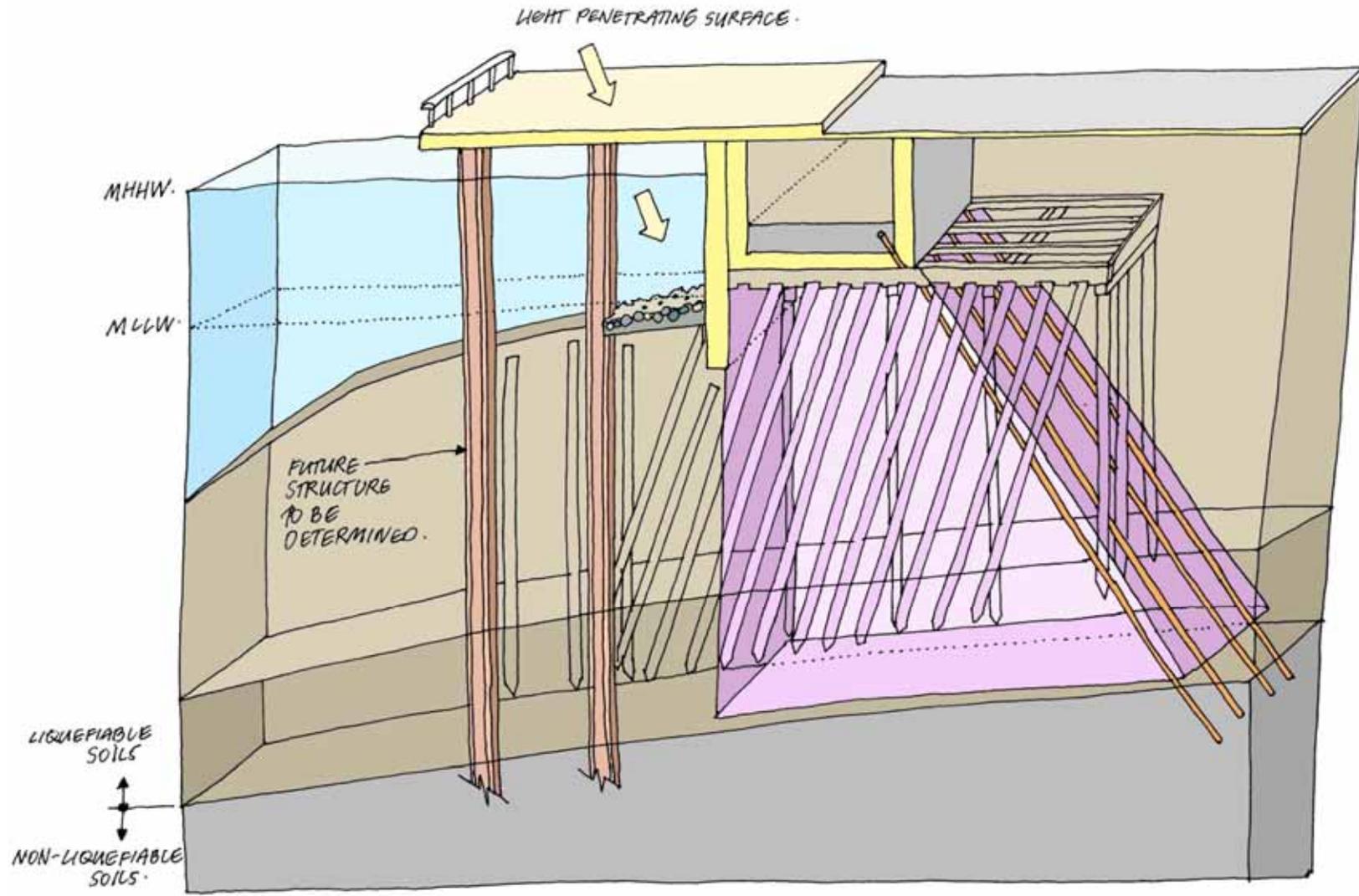
# Considering the Master Pile in Construction



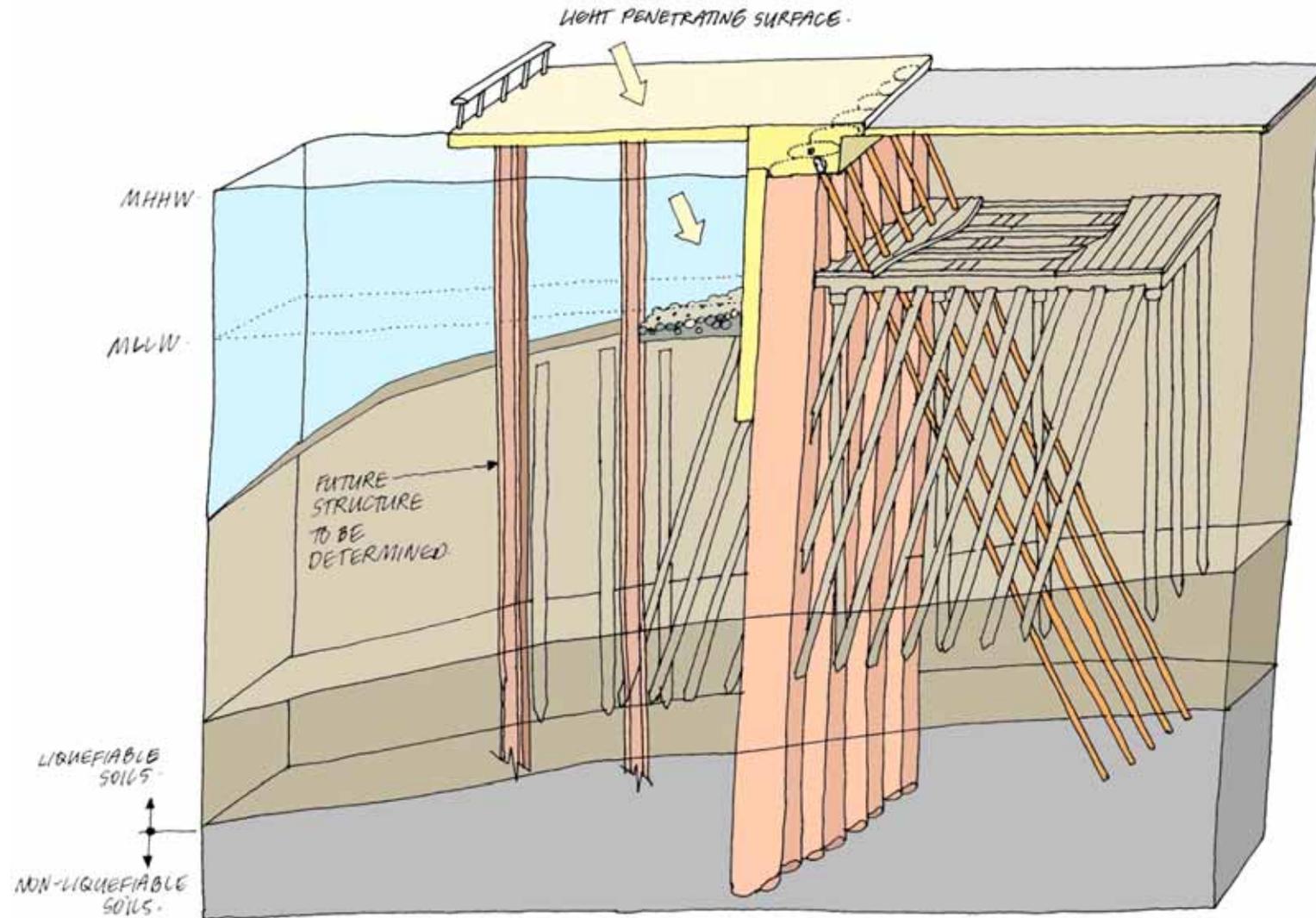
# Considering the Master Pile in Construction



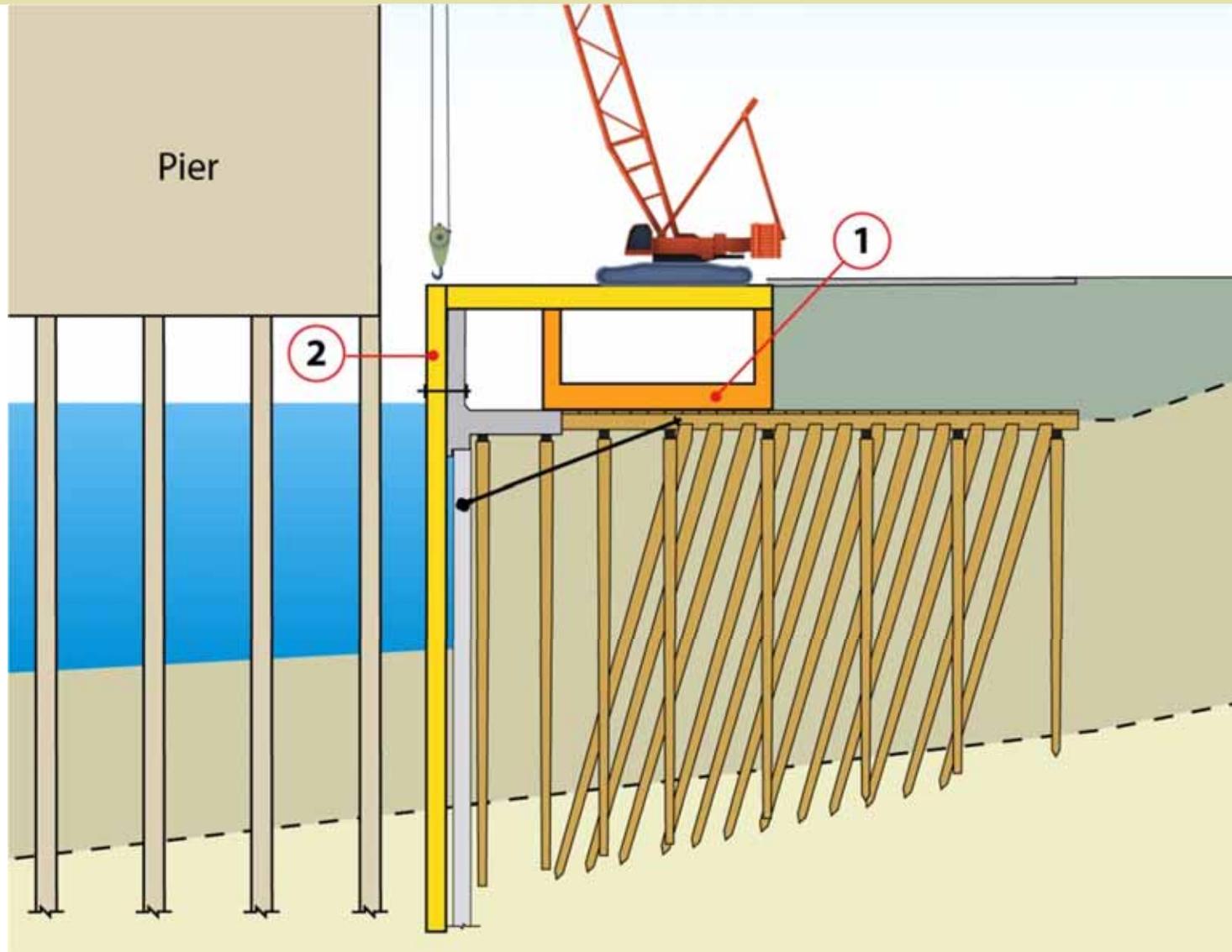
# Construction Methods: Jet Grouting



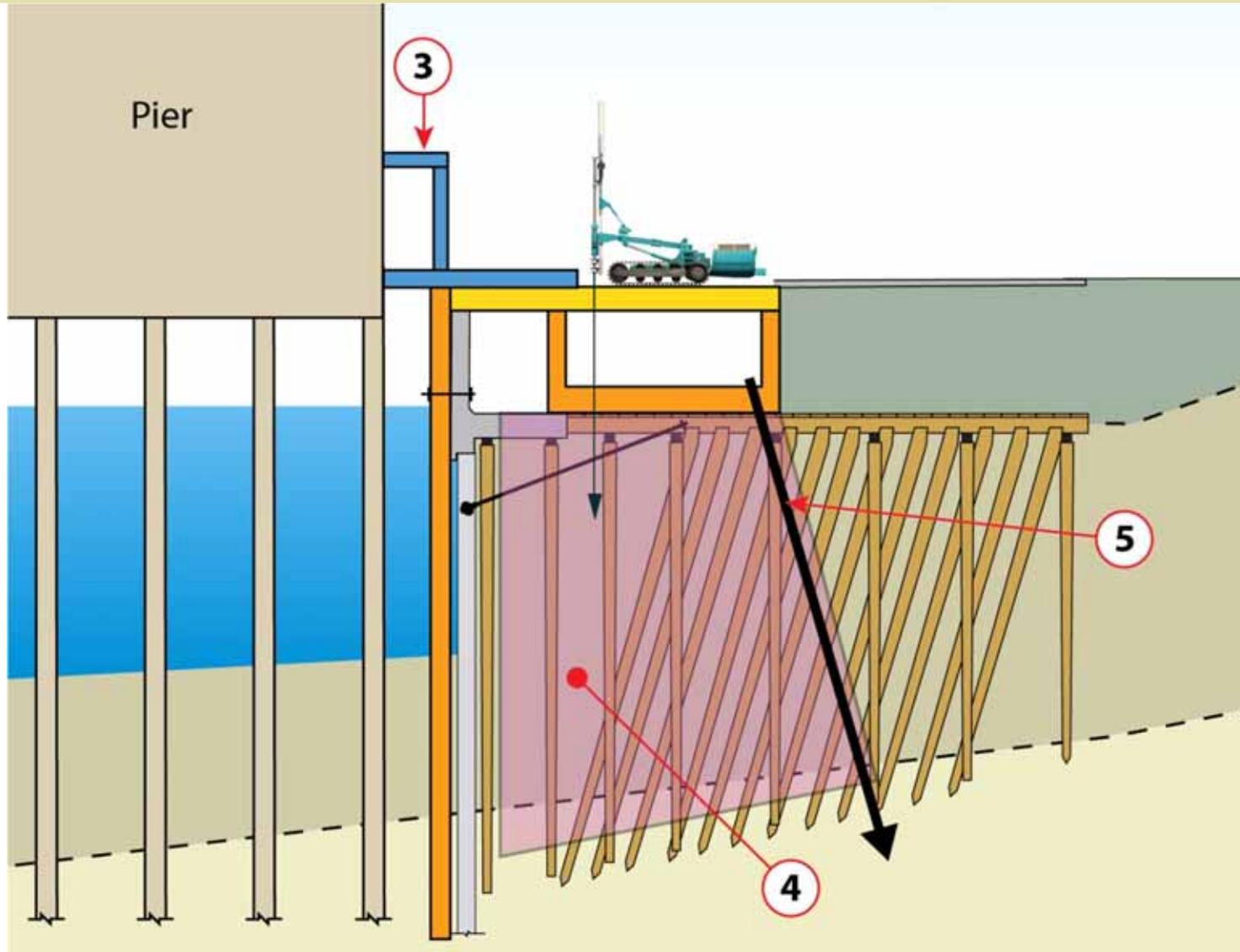
# Construction Methods: Drilled Shafts



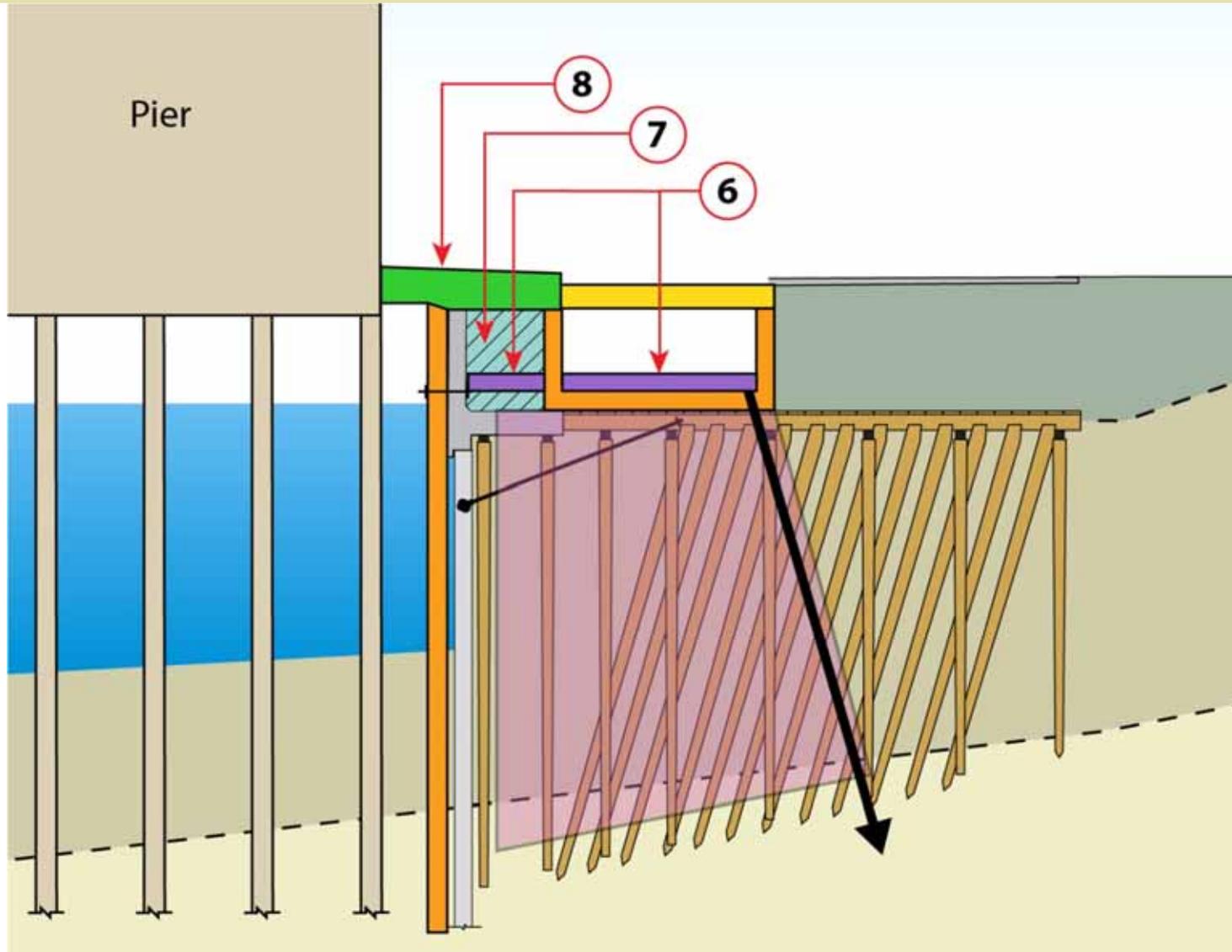
# Construction Sequencing: Jet Grouting



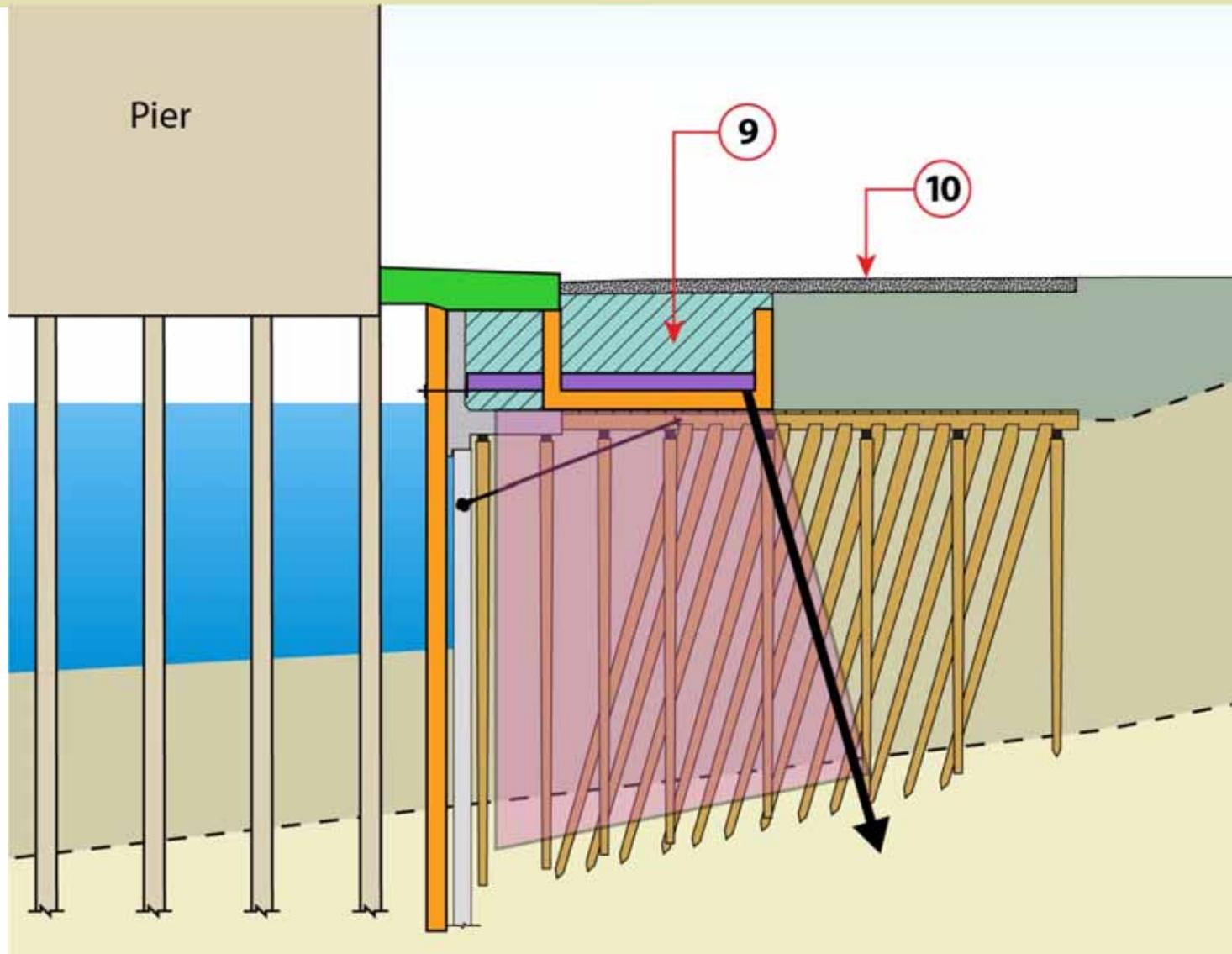
# Construction Sequencing: Jet Grouting



# Construction Sequencing: Jet Grouting



# Construction Sequencing: Jet Grouting





# *Seawall Alternatives Definition*

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# Environmental Impact Statement (EIS)

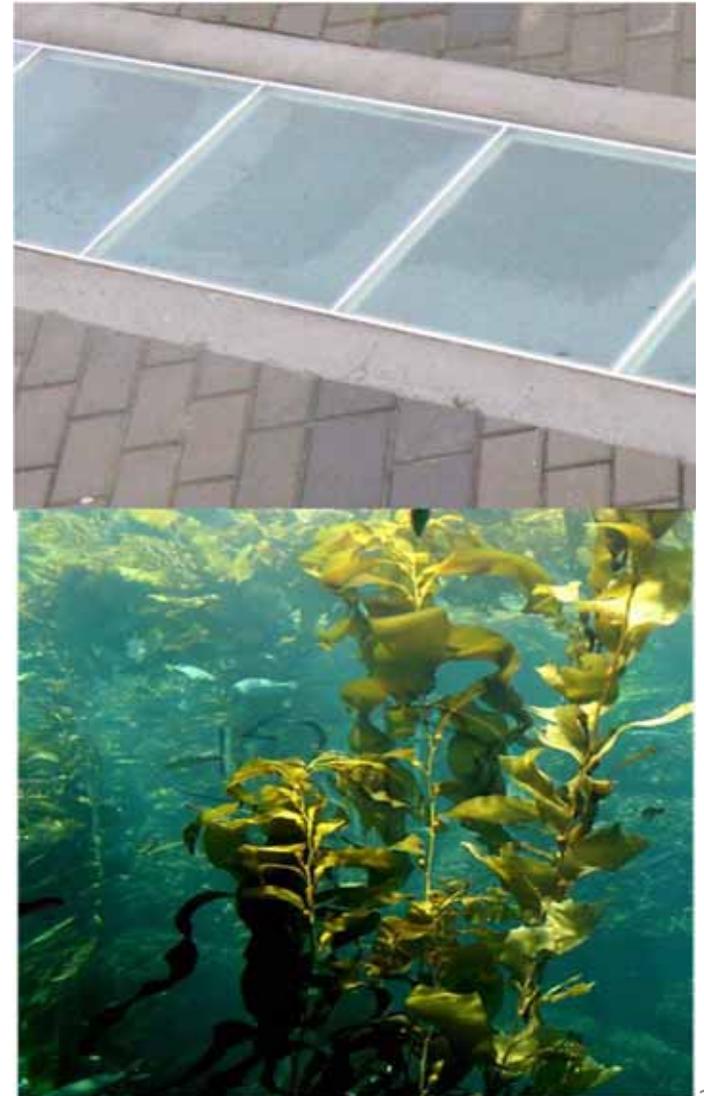
Spring (June) 2010	Winter 2011*	Spring 2011	Fall 2011	TBD**	TBD**	TBD**
Define project's Purpose and Need	<i>Establish range of alternatives for analysis</i>	<i>Write environmental discipline reports for alternatives</i>	<i>Summarize discipline reports into Draft EIS</i>	Publish Draft EIS	Publish Final EIS	Issue Record of Decision

*\*April—Define local alternatives*

*\*\*Pending schedule coordination with U.S. Army Corps of Engineers*

# What is an Alternative?

- Wall location
- Habitat enhancement measures
- Sidewalk and railings
- Multi-use trail
- Restored roadway
- Flexibility for Waterfront Seattle
- Potential early wins



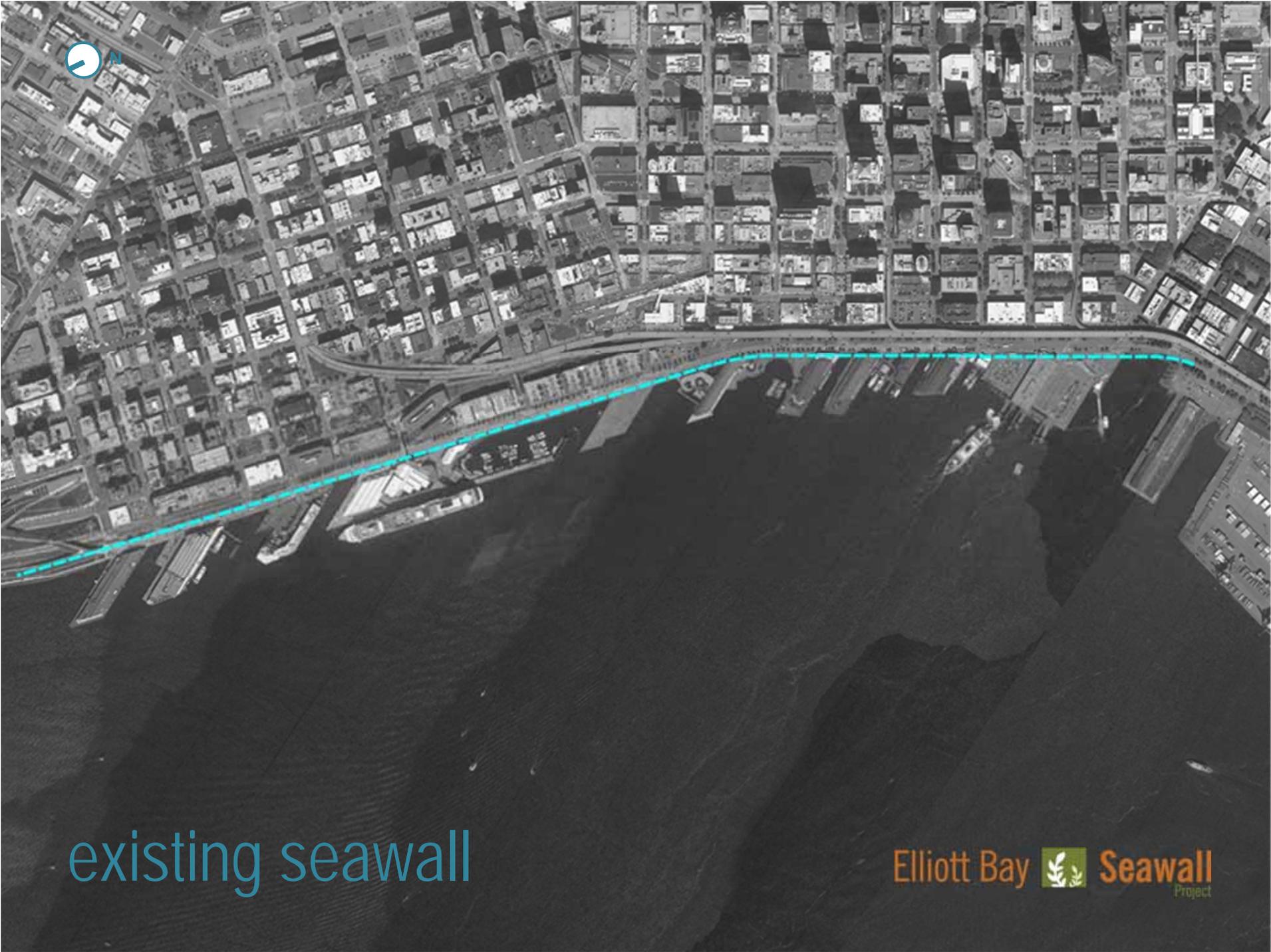
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# Comparing Alternatives

		Alternative	Zone 6 North Pier	Zone 5 Bell Harbor	Zone 4 Park/Aquarium	Zone 3 Commercial Piers	Zone 2 Ferry Terminal	Zone 1 Pioneer Square	
Wall Location	Ex		0'	0'	0'	0'	0'	0'	
	A		-9'	-9'	-9'	+3'	-15'	0'	
	B		-9'	-9'	-75'	-30'	-15'	-15'	
Nearshore Habitat	Aquatic	Ex	Minimal habitat	Habitat bench	Minimal habitat	Minimal habitat	Minimal habitat	<ul style="list-style-type: none"> <li>Minimal habitat</li> <li>Advantageous bathymetry</li> </ul>	
		A	<ul style="list-style-type: none"> <li>Cobble reef</li> <li>Substrate enhancement</li> <li>Habitat bench</li> <li>Light penetrating surface</li> </ul>	<ul style="list-style-type: none"> <li>Habitat bench improvement</li> <li>Light penetrating surface</li> </ul>	<ul style="list-style-type: none"> <li>Cobble reef</li> <li>Substrate enhancement</li> <li>Habitat bench</li> <li>Light penetrating surface</li> </ul>	<ul style="list-style-type: none"> <li>Habitat bench</li> <li>Light penetrating surface</li> </ul>	<ul style="list-style-type: none"> <li>Habitat bench</li> <li>Light penetrating surface</li> </ul>	<ul style="list-style-type: none"> <li>Cobble reef</li> <li>Substrate enhancement</li> </ul>	
		B	Same as A	Same as A	Same as A with: <ul style="list-style-type: none"> <li>Natural light</li> <li>Intertidal zone</li> </ul>	Same as A	Same as A	Same as A with: <ul style="list-style-type: none"> <li>Improved habitat</li> <li>Intertidal zone</li> <li>Light penetrating surface</li> </ul>	
	Riparian	Ex	none	none	none	none	none	none	none
		A	Base planting	Base planting	Base planting	Base planting	Base planting	none	Base planting
		B	Additional planting opportunities	Additional planting opportunities	Additional planting opportunities	Additional planting opportunities	Additional planting opportunities	none	Additional planting opportunities
Restored Public Amenities	Ex	<ul style="list-style-type: none"> <li>Sidewalk</li> </ul>	<ul style="list-style-type: none"> <li>Sidewalk</li> <li>Multi-use trail</li> <li>Public short-stay marina</li> </ul>	<ul style="list-style-type: none"> <li>Sidewalk</li> <li>Multi-use trail</li> <li>Waterfront Park</li> <li>Pier 62/63</li> </ul>	<ul style="list-style-type: none"> <li>Sidewalk</li> <li>Multi-use trail</li> </ul>	<ul style="list-style-type: none"> <li>Sidewalk</li> <li>Multi-use trail</li> <li>Public ferry terminal</li> </ul>	<ul style="list-style-type: none"> <li>Sidewalk</li> <li>Multi-use trail</li> <li>Washington St Boat Landing</li> </ul>		
	A	<ul style="list-style-type: none"> <li>Restored sidewalk</li> <li>Potential early wins</li> </ul>	<ul style="list-style-type: none"> <li>Restored sidewalk</li> <li>Restored multi-use trail</li> <li>Public short-stay marina</li> <li>Potential early wins</li> </ul>	<ul style="list-style-type: none"> <li>Restored sidewalk</li> <li>Restored multi-use trail</li> <li>Waterfront Park (existing)</li> <li>Pier 62/63 (existing)</li> <li>Potential early wins</li> </ul>	<ul style="list-style-type: none"> <li>Restored sidewalk</li> <li>Restored multi-use trail</li> <li>Potential early wins</li> </ul>	<ul style="list-style-type: none"> <li>Restored sidewalk</li> <li>Restored multi-use trail</li> <li>Public ferry terminal</li> <li>Potential early wins</li> </ul>	<ul style="list-style-type: none"> <li>Restored sidewalk</li> <li>Restored multi-use trail</li> <li>Restored Washington St Boat Landing</li> <li>Potential early wins</li> </ul>		
	B	Same as A	Same as A	Same as A	Same as A	Same as A	Same as A	Same as A	

# Comparing Alternatives

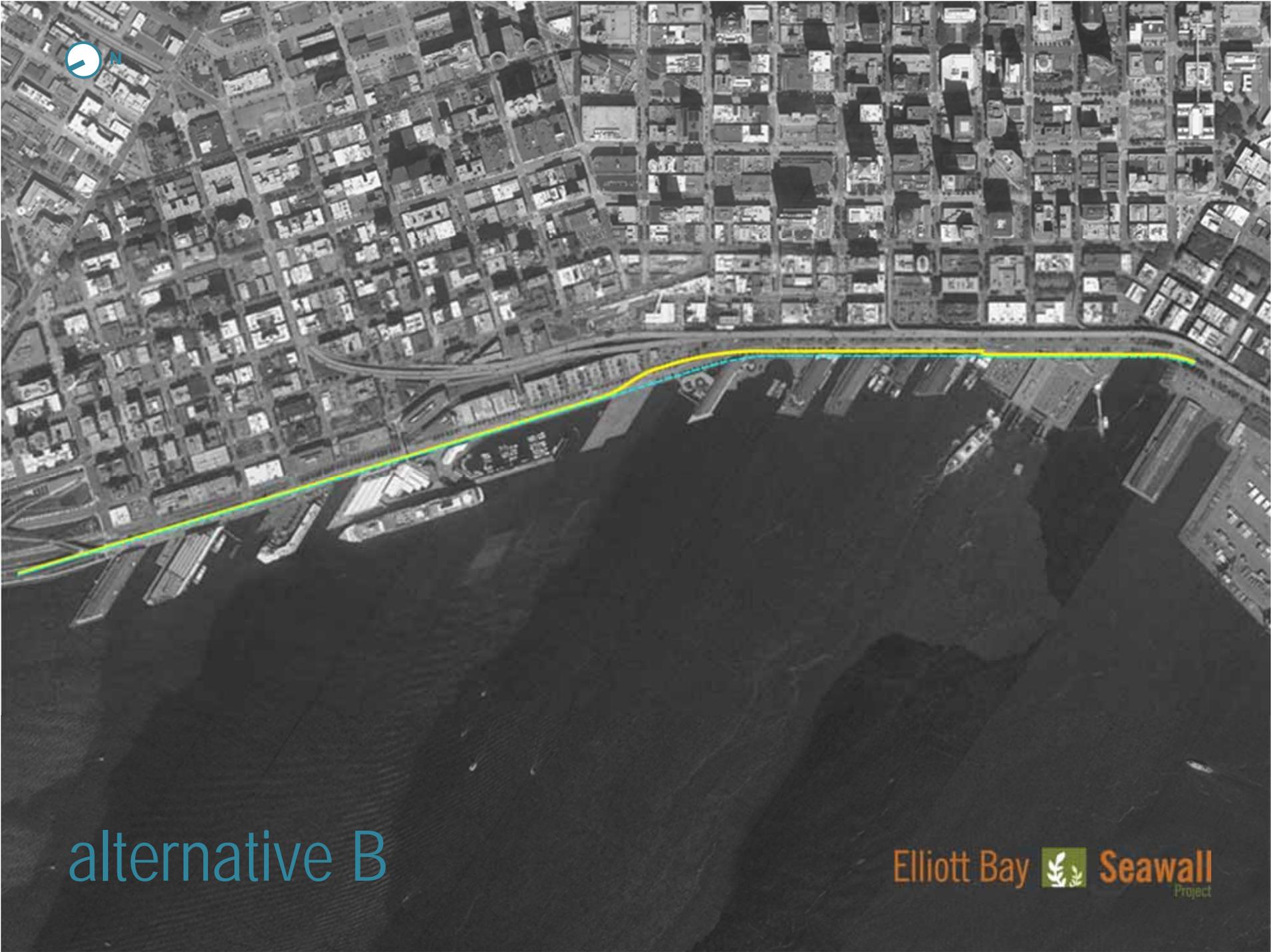




existing seawall



alternative A



alternative B

Elliott Bay  Seawall Project



- existing seawall
- alternative seawall
- sidewalk
- multi-use path
- habitat corridor enhancement

alternative A 

**WORKING DRAFT**



- existing seawall
- alternative seawall
- █ sidewalk
- █ multi-use path
- █ habitat corridor enhancement

alternative B 

**WORKING DRAFT**

# Feedback

- *What additional comments do you have about the bookended alternatives?*



## *Next Steps and Action Items*

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# Next Meeting

*Central Waterfront Stakeholders Group Meeting #4*  
*May 10, 2011*  
*5:15-7:15 p.m.*  
*Location TBD*

# Actions and Contact Information

Elliott Bay  Seawall  
Project

**Stephanie Brown, Project Manager**

Phone: 206-386-4635

Web: <http://www.seattle.gov/transportation/seawall.htm>

Waterfront  
Seattle.org

**Steve Pearce, Project Manager**

Phone: 206-684-8371

Web: <http://www.waterfrontseattle.org>

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**Email for both projects: [seawall@seattle.gov](mailto:seawall@seattle.gov)**