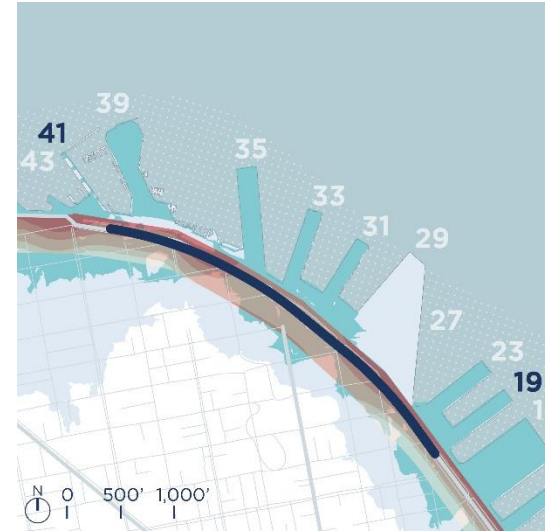


Pier 19 To 41 Seawall Improvement and Resilient Shoreline Strategy



About the Project

The Pier 19 to 41 Seawall Improvement and Resilient Shoreline Strategy combines several potential early projects and real estate and development opportunities that can be brought together to improve disaster response and increase earthquake safety across a broader area of the waterfront. This geography includes the densest collection of historic finger piers, contains the primary and secondary cruise terminals which are critical for disaster response, and includes major wastewater infrastructure within The Embarcadero serving more than 300,000 customers. The Port’s Multi-Hazard Risk Assessment found this geography to be at high earthquake risk from seawall instability and lateral spreading, and to have emerging sea level rise flood risk. Studies also revealed ground conditions, while challenging, to be more favorable to various options to improve the shoreline. The selection of early projects making up the shoreline strategy focuses on improving disaster response and recovery, reducing earthquake damage to utility and underground infrastructure, increasing coastal flood defenses, and preserving historic resources.

Project Benefits	Project Details	Responds to Community Feedback
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Earthquake Safety <input checked="" type="checkbox"/> Disaster Response Improvement <input checked="" type="checkbox"/> Coastal Flood Defense <input checked="" type="checkbox"/> Public Space Enhancement <input checked="" type="checkbox"/> Historic Preservation <input checked="" type="checkbox"/> Bay Habitat 	<p>Status: Pre-Design</p> <p>Cost: \$400M to \$1.7B*</p> <p>Duration: 5 to 7 years*</p> <p>Complexity: High</p> <p><i>*cost & duration are planning level estimates and include all costs</i></p>	<ul style="list-style-type: none"> ✓ Prioritizes life safety and emergency response. ✓ Enhances and sustains economic and ecological opportunities. ✓ Protects and preserves historic and maritime resources. ✓ Ensures public access to the waterfront and historic places for all. ✓ Provides opportunities for diverse families, businesses, and neighborhoods to thrive.