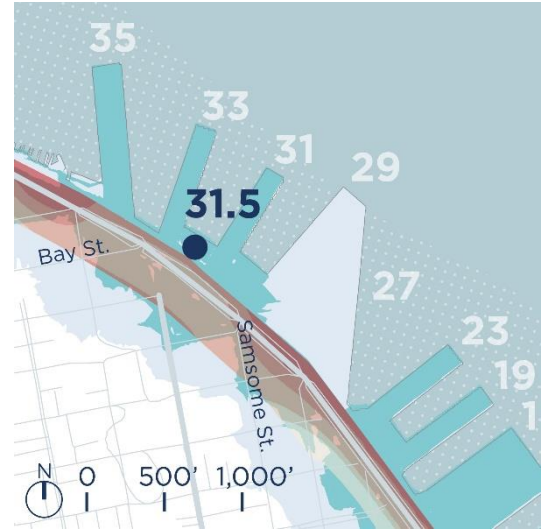


Pier 31-1/2 Bulkhead Wall and Wharf Substructure Earthquake Safety Retrofit Project

(Pier 19 to 41 Seawall Improvement and Resilient Shoreline Strategy)



About the Project

Pier 31-1/2 is a highly active wharf with excursion vessel berthing that is home to the National Parks Service Alcatraz Landing Ferry Service. The Port’s Multi-Hazard Risk Assessment found this area to have high earthquake risk from Seawall instability and lateral spreading that creates earthquake safety risks in the wharf zone. This project is focused on improving earthquake safety in this highly active zone through bulkhead wall and substructure retrofits. Flood risk from sea level rise is an emerging threat along this stretch of the Embarcadero and the project may include foundational elements that are part of a larger effort to increase flood defenses in the coming decades.

Planning for this project is being advanced through the Pier 19 to 41 Seawall Improvement and Resilient Shoreline Strategy.

Project Benefits	Project Details	Responds to Community Feedback
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Earthquake Safety <input type="checkbox"/> Disaster Response Improvement <input type="checkbox"/> Coastal Flood Defense <input type="checkbox"/> Public Space Enhancement <input type="checkbox"/> Historic Preservation <input type="checkbox"/> Bay Habitat 	<p>Status: Pre-Design</p> <p>Cost: TBD</p> <p>Duration: TBD</p> <p>Complexity: Moderate</p>	<ul style="list-style-type: none"> ✓ Prioritizes life safety and emergency response. ✓ Enhances and sustains economic and ecological opportunities. ✓ Protects and preserves maritime resources.