Waterfront Resilience Program Update & Third Bond Sale Request

Presented to the Capital Planning Committee November 4, 2024



AGENDA

Presentation Overview



- 2018 Proposition A Seawall Bond Background
- Waterfront Resilience Program
 - Early Projects
 - Living Seawall
 - USACE Flood Study
- Bond Spend Down & Risks and Opportunities



2018 Proposition A Bond Background



2018 EMBARCADERO SEAWALL EARTHQUAKE SAFETY BOND

Bond Sales (millions)

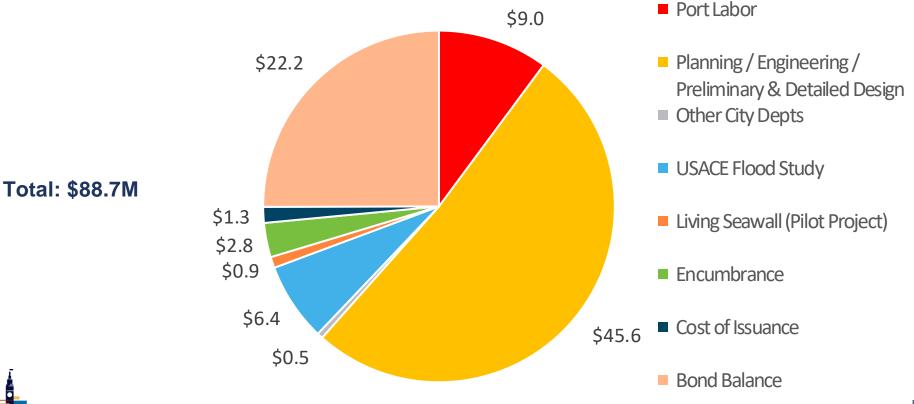


\$49.5 million of the 1st Bond Sale has been expended to date.

\$14.2 million of the 2nd Bond Sale has been expended to date, with the remaining balance used to fund three design contracts to be awarded in early 2025.

2018 Embarcadero Seawall Earthquake Safety Bond

Bond Expenditures, Encumbrances, and Balances (\$M) through September 2024



WATERFRONT RESILIENCE PROGRAM

Bond Sale #3 Spend Down

Scope	2025	2026	2027	Total
WRP Program Management (PRT)	\$1.9	\$2.0	\$1.0	\$4.9
Program Advisory Services	\$2.4	\$5.3	\$2.9	\$10.6
Environmental Impact Report	\$1.0	\$1.3	\$0.7	\$3.0
Planning & Predesign (USACE)	\$5.0	\$10.0	\$5.0	\$20.0
Embarcadero Early Projects	\$23.9	\$33.2	\$20.7	\$77.8
City Agencies	\$0.7	\$0.9	\$1.4	\$3.0
Cost of Issuance	\$4.7	-	-	\$4.7
	\$17.2	\$42.5	\$64 .3	\$124.0



SOURCES AND USES FOR PROPOSED GO BOND SERIES 2024ABCD

	<u>Embarcadero</u> Seawall (2024A)	<u>ESER</u> (2024B)	<u>Affordable</u> <u>Housing</u>	<u>Affordable</u> <u>Housing</u>	<u>Total</u>
Estimated Sources:			<u>(2024C)</u>	(2024D)	
Not-to-Exceed Par Amount	\$124,000,000	\$225,000,000	\$70,000,000	\$152,000,000	\$571,000,000
Estimated Par	\$120,470,000	\$218,705,000	\$67,435,000	\$147,875,000	\$554,485,000
Reserve for Market Uncertainty	\$3,530,000	\$6,295,000	\$2,565,000	\$4,125,000	\$16, 515,000
Total Estimated Sources:	\$124,000,000	\$225,000,000	\$70,000,000	\$152,000,000	\$571,000,000
Estimated Uses:					
Project Fund					
<u>Deposits:</u>					
Project Fund	\$119,267,000	\$216,525,733	\$66,758,347	\$146,400,000	\$548,951,080
CSA Audit Fee	<u>\$238,534</u>	<u>\$433,052</u>	<u>\$133,517</u>	<u>\$292,800</u>	<u>\$1,097,902</u>
Total Project Fund Deposits:	\$119,505,534	\$216,958,785	\$66,891,864	\$146,692,800	\$550,048,982
Delivery Date Expenses					
Cost of Issuance	\$241,646	\$433,985	\$138, 526	\$294,950	\$1,109,108
Underwriter's Discount	\$602,350	\$1,093,525	\$337,175	\$739,375	\$2,772,425
CGOBOC Fee	<u>\$120,470</u>	<u>\$218,705</u>	<u>\$67,435</u>	<u>\$147,875</u>	<u>\$554,485</u>
Total Delivery Expense:	\$964,466	\$1,746,215	\$543,136	\$1,182,200	\$4,436,018
Reserve for Market Uncertainty	\$3,530,000	\$6,295,000	\$2,565,000	\$4,125,000	\$16,515,000
Total Estimated Uses:	\$124,000,000	\$225,000,000	\$70,000,000	\$152,000,000	\$571,000,000



Office of Public Finance 2024ABCD GO Bonds Sale Resolutions & Appropriation Ordinance

ANTICIPATED FINANCING SCHEDULE

MI	LESTONES	DATES*
•	Capital Planning Committee	October 7 & November 4, 2024
•	Introduction of Legislation to Board of Supervisors	October 8, 2024
•	Budget and Finance Committee	November 13, 2024
•	Board of Supervisors Considers Resolution & Ordinance (1st Hearing)	November 26, 2024
•	Board of Supervisors Considers Ordinance (2 nd Hearing)	December 10, 2024
•	Sale and Closing of Bonds	January 2025





Early Projects

Waterfront Resilience Program

Project Updates

PORT



WRP PROJECT DEVELOPMENT PROCESS

Overview



EARLY PROJECTS

Port Executive decisions to advance projects to detailed design will occur at or before 10% Conceptual Design.



WHARF J9 REPLACEMENT & RESILIENT SHORELINE PROJECT – (\$50M to \$80M) Replace Wharf J9 Seawall and Wharf to create an earthquake and flood resilient shoreline section in the FW Outer Lagoon; improve the public realm and waterfront access; provide benefits to the fishing fleet through ADA accessible off-boat fish sales; and improve emergency response. Phase 1 \$7 M Project under construction.



PIER 15 BULKHEAD & WHARF EQ SAFETY RETROFIT PROJECT – (\$7M to \$10M) Improve earthquake safety by retrofitting bulkhead wall and wharf. Provide reliable access across Seawall to deepwater berths. Keep the Exploratorium open during construction.



PIER 9 BULKHEAD & WHARF EQ SAFETY RETROFIT PROJECT – (\$20M to \$30M) Improve earthquake safety by retrofitting bulkhead wall and wharf to reduce damage and risk of collapse. Provide reliable access across Seawall to deepwater berths.

EARLY PROJECTS



DOWNTOWN COASTAL RESILIENCE PROJECT- (\$250 M - \$1 B)

Flood defenses for multi-modal transit corridor, BART and Muni, and historic resources. 1st implementation action for the USACE Recommended Plan.

Pending \$50 M FEMA BRIC award. **Potential credit towards USACE 35% Local Match.**



SOUTH BEACH RESILIENCE PROJECT (\$100M to \$300M)

Improve earthquake and flood resilience by strengthening or replacing seawall and bulkhead wharves from Pier 24½ to Pier 30/32. Possible 1st implementation action for USACE Recommended Plan.

\$7.8 M Coastal Conservancy Grant to help fund design, including Piers 30-32. Potential credit towards USACE 35% Local Match.

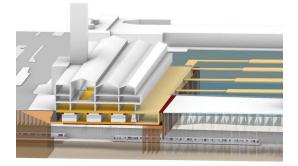


PIER 50 EARTHQUAKE SAFETY PROJECT- (TBD)

Improve earthquake resilience by strengthening Pier 50 Port maintenance facility to support earthquake disaster response and recovery.

EARLY PROJECTS

Projects Evaluated but Not Advancing Now



FERRY BUILDING SEAWALL & SUBSTRUCTURE EQ RELIABILITY PROJECT (TBD)

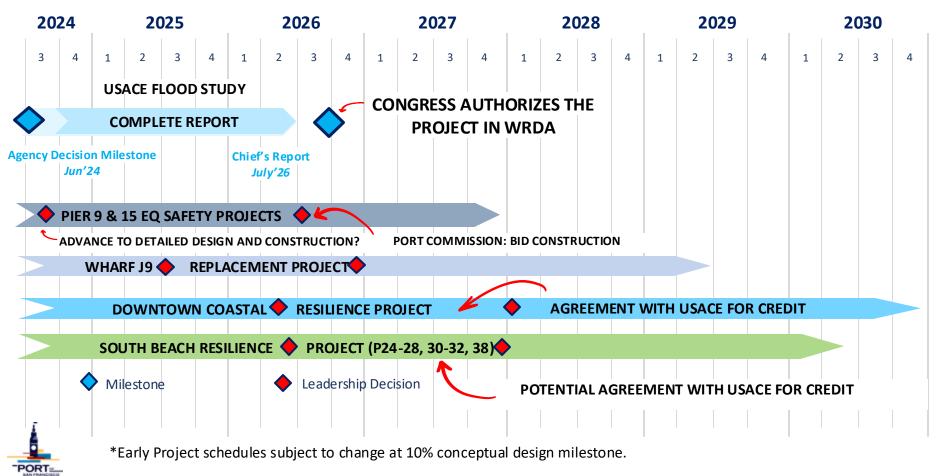
Improve earthquake safety in bulkhead zone and Promenade by reducing collapse risk. Full wharf replacement adaptable for SLR. Completed Alternatives Analysis. **Major project elements incorporated into USACE Draft Plan**; other elements may be incorporated in Downtown Coastal Resilience Project.



P35.5 EFWS FIREBOAT BERTH AND MANIFOLD RELIABILITY PROJECT

Improve earthquake resilience and disaster response by installing a fire boat berth and hardened EFWS manifold with potential seawall strengthening. Project on hold pending SFPUC completion of Alternatives Analysis Report on piping and manifold relocation.

DRAFT WATERFRONT RESILIENCE PROGRAM SCHEDULE*



LIVING SEAWALL



- Objective: ecological enhancement of seawalls
- Study ecological growth on concrete using textured surfaces and concrete admixture composition
- All frames and tiles are constructed and installed
- Two years of monitoring by the Smithsonian

Photo: Lonny Meyer



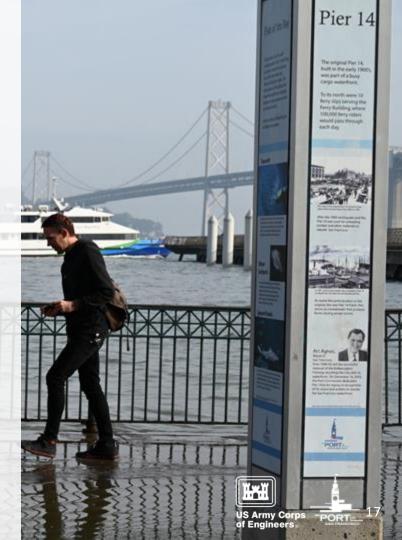
San Francisco Waterfront Coastal Flood Study (Port/USACE)



WHAT IS THE FLOOD STUDY?

- The Flood Study analyzes coastal flood risk and the effects of sea level rise to the San Francisco waterfront along the Port's 7.5mile jurisdiction over the next 100 years.
- The **Draft Plan** will inform subsequent stages of funding and design in order to develop targeted construction projects.
- The proposed solutions are estimated to cost \$13.5 billion plus interest (high-level, preliminary cost estimate) and, if approved by Congress, the Federal government may pay 65% of the cost.
- The Flood Study is led by the U.S. Army Corps of
 Engineers (USACE) in collaboration with the City of San Francisco.





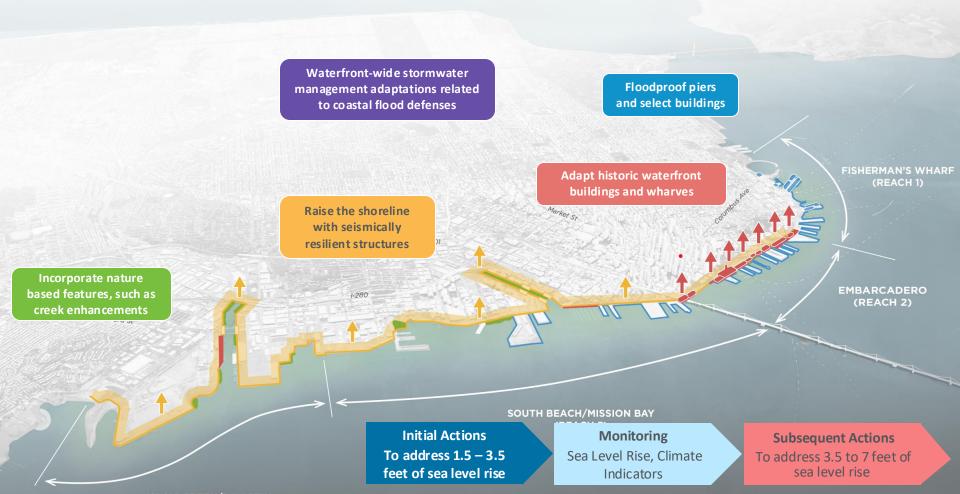
WHERE ARE WE IN THE FLOOD STUDY PROCESS?





US Army Corps of Engineers. Note: Dates are approximate and subject to change. Projects will occur in phases which will extend over decades.

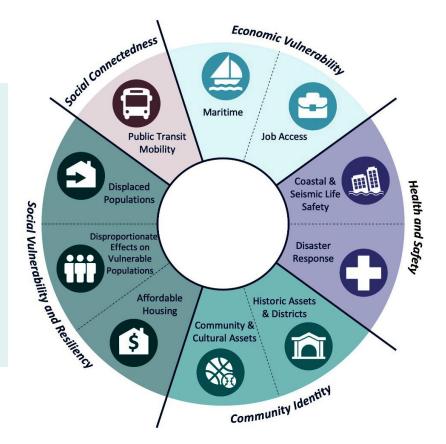
THE DRAFT PLAN



A COMPREHENSIVE COST BENEFIT ANALYSIS THAT ELEVATES EQUITY

Historically, plan selection maximizes NED national economic benefits. This plan incorporates analysis across four categories:

- + National Economic Development (including damages prevented, cost of construction)
- + Regional economic impacts (including jobs)
- + Environmental quality, consequences, and compliance (including pollution)
- + Other social effects (including disproportionate effects on vulnerable populations)





US Army Corps of Engineers.

Bond Spend Down & Risks and **Opportunities**



WATERFRONT RESILIENCE PROGRAM

Risks

- Extended CEQA & permitting timelines for in-water work (USACE is lead agency for Early Projects that are part of the Draft Plan)
- Securing agreements with USACE to design and construct Early Projects that are part of the USACE Draft Plan
- Public/Port tenant concerns about construction disruption

Opportunities

- Focus remaining Proposition A expenditures on projects that will earn credit towards future USACE expenditures
 - every eligible \$1 of local spending earns \$1.89 of federal matching funds (subject to appropriation)
- Demonstrate progress towards Seawall improvements consistent with Proposition A



Thank You!

ERANCISCO

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Waterfront Resilience Program