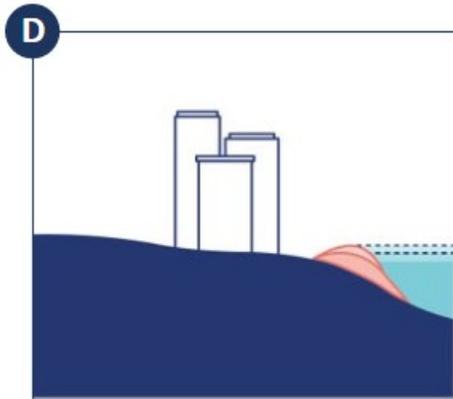


STRATEGY D – LOWER SEA LEVEL RISE – ADAPTABLE

Adapts the shoreline to withstand 1.5 feet of sea level rise, with the possibility of building higher closer to 2090

Draft Waterfront Adaptation Strategies

The Port of San Francisco, in partnership with the U.S. Army Corps of Engineers and San Francisco city agencies, has developed seven Draft Waterfront Adaptation Strategies based on over five years of public engagement. Draft Adaptation Strategies are ready for public feedback, with a goal of reaching a Draft Waterfront Adaptation Plan (Tentatively Selected Plan) by summer 2023. Learn more at sfport.com/wrp/waterfront-adaptation.



Strategy D – Lower Sea Level Rise – Adaptable

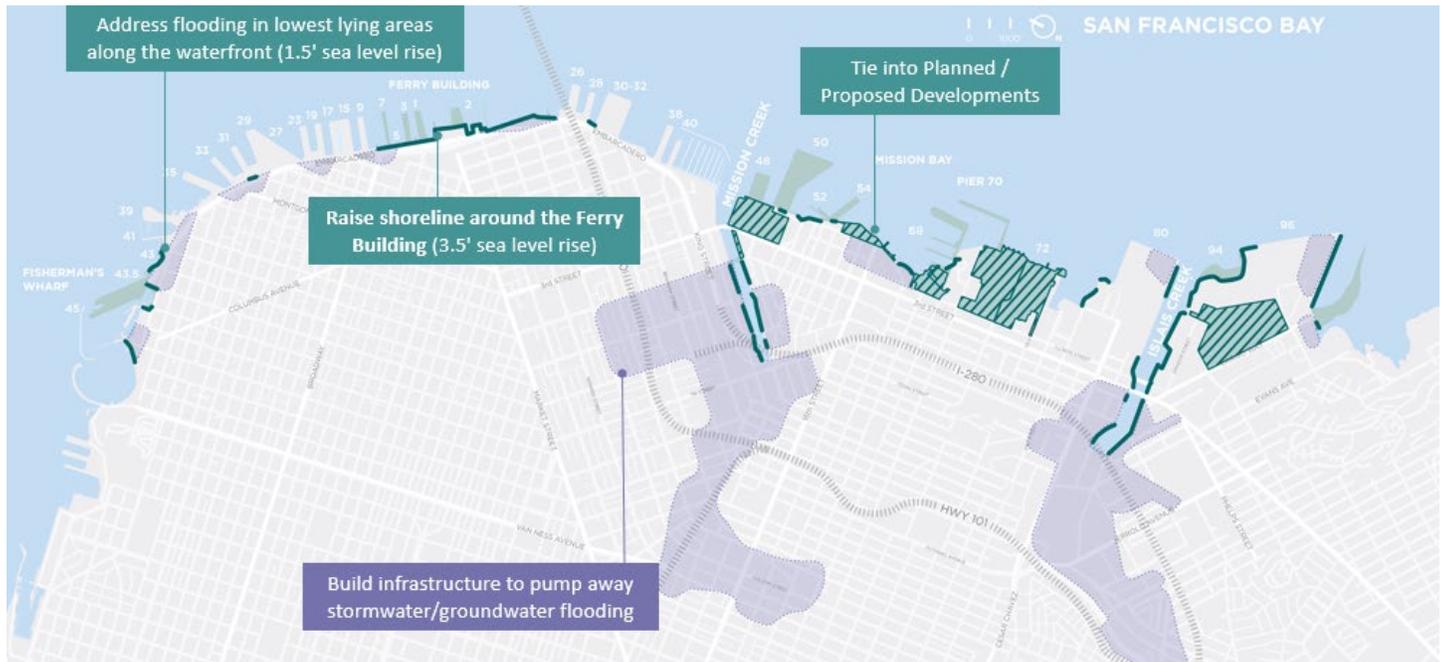
Strategy D addresses lower rates of sea level rise than is typically considered for local and state projects in order to understand the costs and benefits of a smaller scale of interventions. Strategy D addresses the lowest-lying areas of risk, but the flood risk reduction actions are designed to be adaptable to a higher rate of sea level rise in the future. The flood risk reduction actions consider opportunities to enhance waterfront access and open space, maintaining Bay views and waterfront access.

Some areas of the shoreline would include nature-based solutions and natural features that can reduce flood risks, while also enhancing Bay ecology and habitat. This strategy addresses some earthquake risks in the areas with actions, but the seismic risks associated with the aging Embarcadero Seawall and other shoreline infrastructure would not be more comprehensively addressed until the adaptation phase closer to 2090. This strategy could include raising some roadways, bridges (e.g., Third Street), and rail lines by 2090.

STRATEGY D – LOWER SEA LEVEL RISE - ADAPTABLE

Adapts the shoreline to withstand 1.5 feet of sea level rise, with the possibility of building higher closer to 2090

Strategy D Flood Defenses in 2040



Strategy D 2040 Flood Defenses Across the Waterfront

Islais Creek / Bayview

- Raise creek shorelines in the lowest-lying locations to defend against 1.5 feet of sea level rise.
- Enhance public access and wildlife habitat along the northern, inner shoreline of Islais Creek.
- Raise the southern facing Piers 80 and 96 edges to maintain maritime uses.

Mission Creek / Mission Bay

- Raise creek shorelines to defend against 1.5 feet of sea level rise.
- Enhance public access and wildlife habitat along the southern shoreline of Mission Creek.
- Raise the bay shoreline and maintain maritime access and uses at limited locations between planned development projects.

Embarcadero

- Raise bay shoreline to defend against up to 3.5 feet of sea level rise at limited locations, including from the Bay Bridge to Pier 7, and near Pier 45. Deployable structures will maintain maritime access and uses at some locations.

STRATEGY D – LOWER SEA LEVEL RISE - ADAPTABLE

Adapts the shoreline to withstand 1.5 feet of sea level rise, with the possibility of building higher closer to 2090

Strategy D Flood Defenses in 2090



Strategy D 2090 Flood Defenses Across the Waterfront

Islais Creek / Bayview

- In the long term, 2090 and beyond, implementation of Strategy D in Islais Creek / Bayview, would raise the shoreline protections to defend against up to 3.5 feet of sea level rise and include additional shoreline protection structures to provide shoreline wide flood protection.

Mission Creek / Mission Bay

- In the long term, 2090 and beyond, implementation of Strategy D in Mission Creek / Mission Bay, would raise the shoreline protections to defend against up to 3.5 feet of sea level rise.

Embarcadero

- In the long term, 2090 and beyond, implementation of Strategy D in the Embarcadero, would include additional shoreline protections to protect the remaining shoreline area against up to 3.5 feet of sea level rise.

STRATEGY D – LOWER SEA LEVEL RISE - ADAPTABLE

Adapts the shoreline to withstand 1.5 feet of sea level rise, with the possibility of building higher closer to 2090

Overview of All Seven Draft Waterfront Adaptation Strategies

Adaptation Strategies are different ways for the City to create a resilient, sustainable, and equitable waterfront for the next 100 years. Each one is a combination of construction projects and policy changes that will guide such decisions as where, when, and how high to build flood defense and how and when to adapt key buildings and infrastructure to ensure continued operations of City services.

Draft Waterfront Adaptation Strategy Summary				
Strategies		+1.5' Sea Level Rise	+3.5' Sea Level Rise	+7' Sea Level Rise
A – No Action	No Action			
B – Nonstructural Option	Nonstructural Option	✓	✓	✓
C – Lower Sea Level Rise	Lower Projected Sea Level Rise	✓		
D – Lower Sea Level Rise – Adaptable		✓	✓	
E – Hold the Line	Higher Projected Sea Level Rise	✓	✓	✓
F – Manage the Water		✓	✓	✓
G – Align with Watersheds		✓	✓	✓

The Port Wants to Hear from You!

Public feedback on the Draft Waterfront Adaptation Strategies will inform further strategy development, with a goal of reaching a Draft Waterfront Adaptation Plan (Tentatively Selected Plan) by summer 2023.

There is no single approach to adaptation that will meet the needs of San Francisco along the entire waterfront. The different risks, topography, and historic development of the waterfront means that we will need to use a combination of approaches. The intent is not to choose one but to use the best ideas from all of them to create a Draft Waterfront Adaptation Plan.

Visit sfport.com/wrp/our-waterfront for more information about upcoming community events.