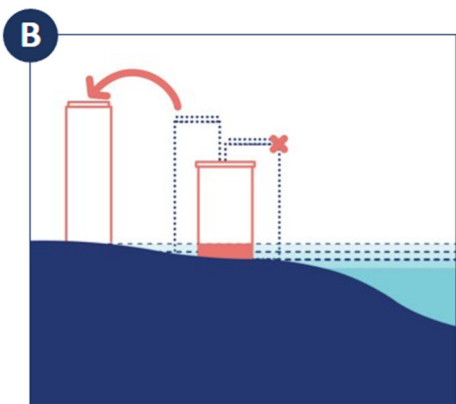


# STRATEGY B – NONSTRUCTURAL OPTION

Moves people and assets away from the risk, uses non-structural measures to reduce risks and allows water to go where it wants rather than constructing traditional structural solutions

## 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](https://sfport.com/wrp/waterfront-adaptation).



### Strategy B – Nonstructural Option

In Strategy B, buildings and critical city systems could be floodproofed, raised in place, or relocated so that they are not damaged when flood waters enter the area. As sea levels rise over time, areas of the city that could flood frequently may be good candidates for managed retreat where people and assets are moved out of harm's way to avoid recurring damage and disruption.

Strategy B includes actions to accommodate floodwaters within the city while reducing the likelihood of damage and severity of disruption. This strategy would provide federal and local funding to assist property owners and the city to floodproof, modify, or remove buildings and infrastructure to reduce the risk of flood damages as sea levels rise.

## A Future with the Nonstructural Option

As sea levels rise over the next century, changing flood risks would be monitored and evaluated. As flood risks change:

- Areas of the city with a higher risk of flooding may be managed for responsible retreat.
- Buildings and critical city systems with a lower risk of flooding will be flood-proofed or modified to reduce the potential for flood damage when flooded.

Areas of retreat could be adapted with nature-based features to reduce flood risks for more inland areas, such as reducing the intensity of wave hazards. Inland areas of the city may include policy changes to allow increased housing density and business relocations to allow businesses, jobs, and people to remain in San Francisco. Essential utilities, such as wastewater, water, and the electric grid would be relocated or modified to continue providing service for the inland areas of the city. Major transportation and transit corridors could be elevated on causeways to reduce the potential for disruption.

Although new construction and utility relocations would consider seismic risks, consistent with state and local building codes, the seismic risks associated with the aging Embarcadero Seawall and other shoreline infrastructure would not be comprehensively addressed. However, seismic risks will be reduced in areas of retreat.

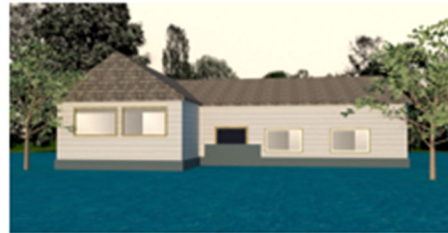
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## Examples of Nonstructural Options



**Warning systems**



**Floodproofing**



**Raise structure in place**



**Buyouts**

## 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		✓	✓	✓

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### 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](https://sfport.com/wrp/our-waterfront) for more information about upcoming community events.