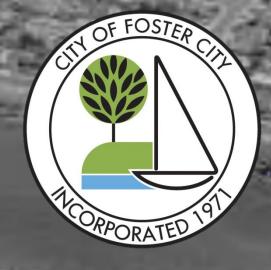


## LEVEE PROTECTION PLANNING AND IMPROVEMENTS PROJECT

Improving Today and Preparing for Tomorrow

Sea Level Rise Meeting February 7, 2020





Schaaf & Wheeler consulting civil engineers



### Mayor Mahanpour's Opening Comments

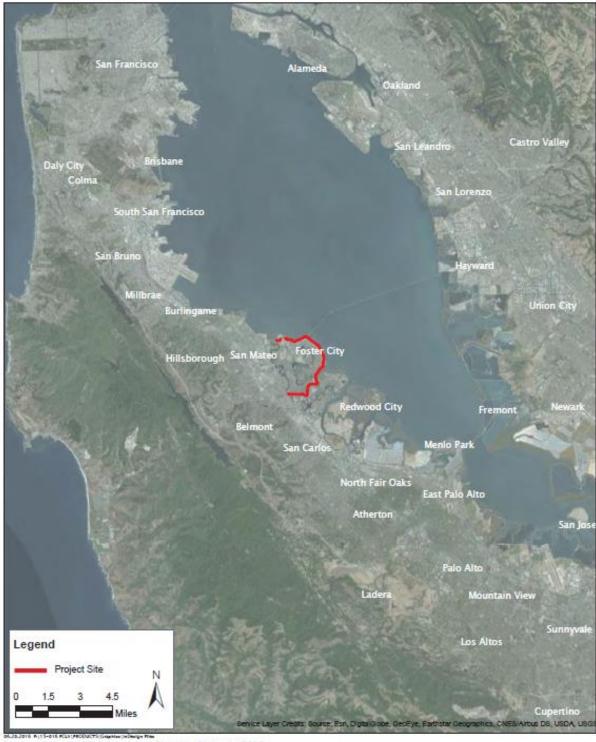
- Levee is the most important project for Foster City
- Project funded by a \$90 Million ballot measure, paid for by the property owners of Foster City
- Important to have regional solutions without Foster City property owners or other Cities being taxed twice
- Streamlining of environmental processes should be done
  - precedent of requirements has been set
  - 1 year to obtain permits is too long with rising construction costs in the Bay Area

#### Presentation

- □ Project Overview
  - Location
  - Purpose
  - Design
  - □ Financing
  - □ Project Schedule
- ☐ Project Resilience and Adaptation to Future Sea Level Rise



## **Project Location**



Source: Schaaf & Wheeler, Urban Planning Partners, 2016 Note: The location of staging areas are preliminary and may change.

Figure I-1
Foster City Levee Protection Planning and Improvements Project EIR
Regional Context Map



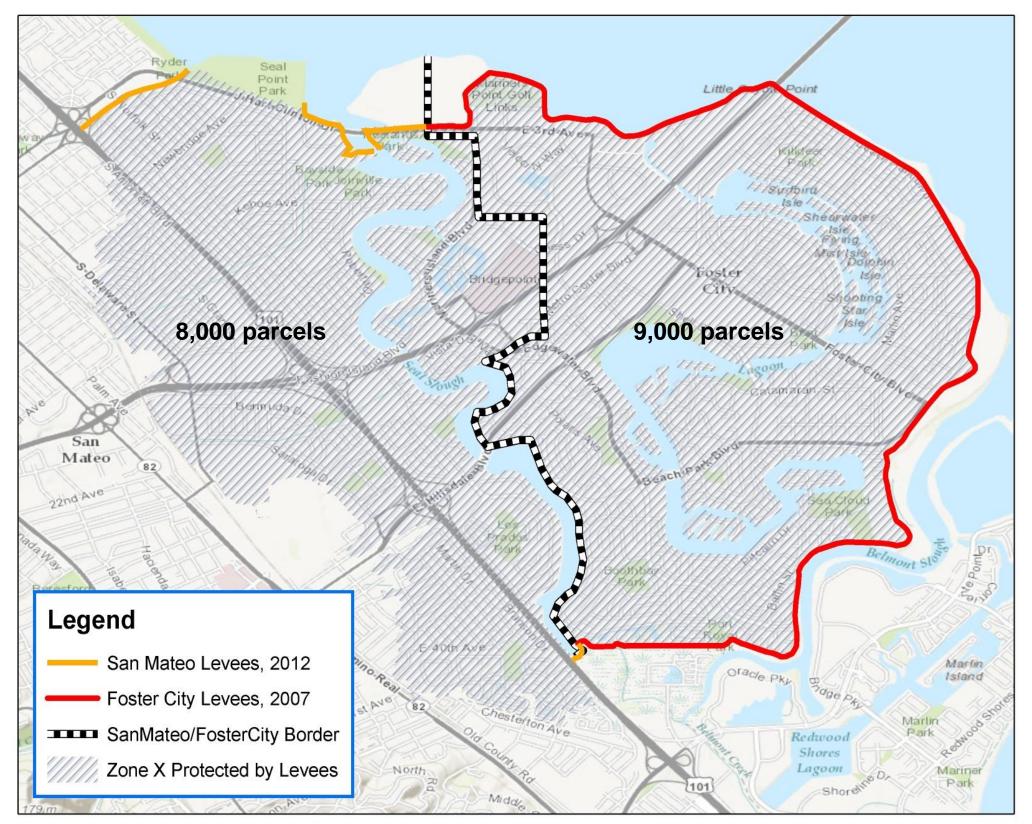
Figure 1. Location Map
Levee Protection Planning and Improvement Project CIP 301-857
City of Foster City, San Mateo County, California

Huffman-Broadway Group, Inc.





### Project Purpose and Timeline



2014 FEMA CCAMP
2015 Seclusion Mapping
2017 Final EIR Certified
2018 Measure P Passes
2019 Design and Permits
2020 Begin Construction
2023 End Construction

| CITY OF FOSTER CITY MEASURE P (2/3 APPROVAL REQUIRED) |                     |    |    |       |        |
|---|---------------------|----|----|-------|--------|
|   | Complete Precincts: | 15 | of | 15    |        |
| YES   |                     |    |    | 6,275 | 80.65% |
| NO  |                     |    |    | 1,506 | 19.35% |



#### Project Design



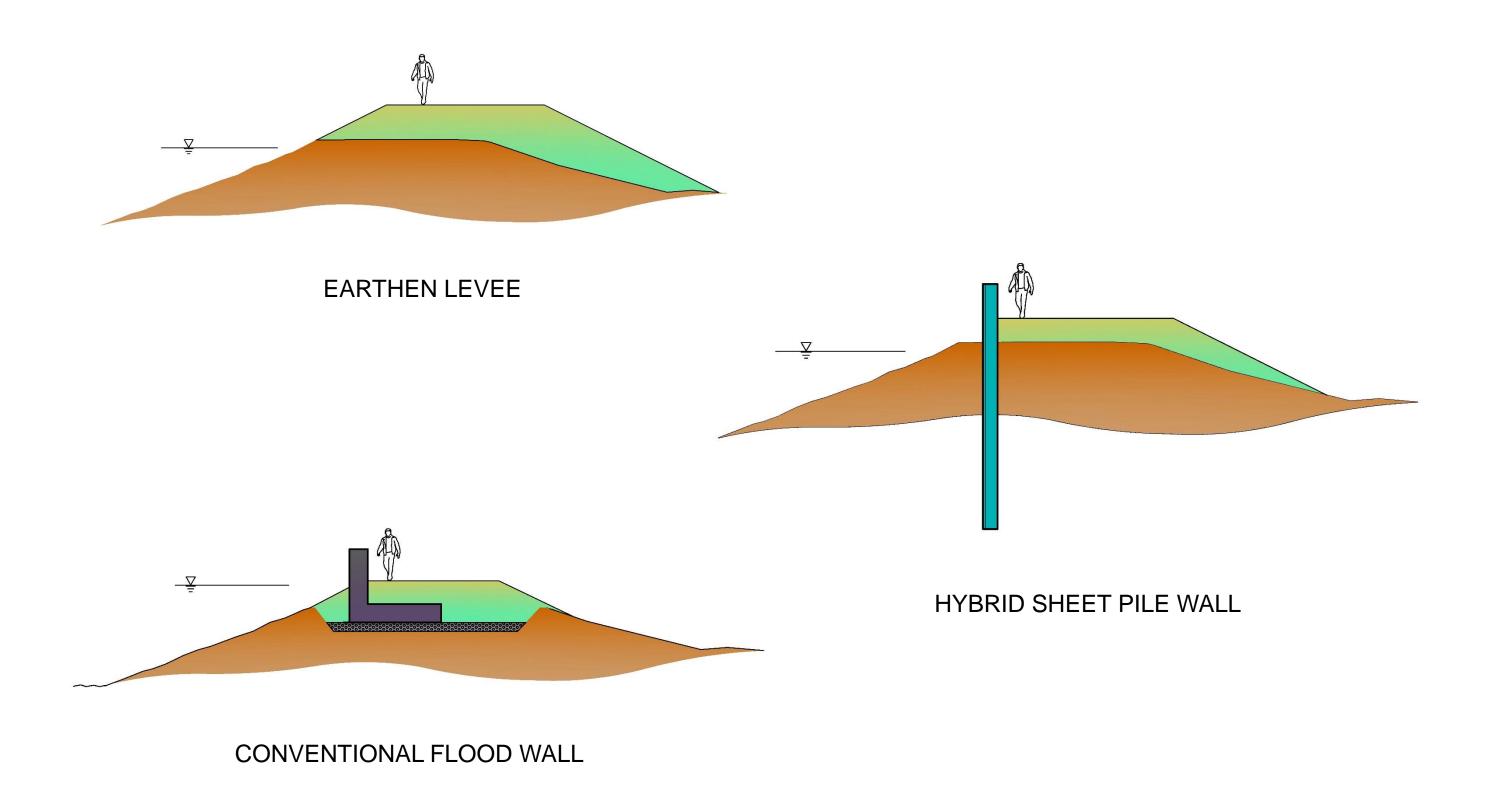
The required top of postsettlement levee/wall elevation is established by running FEMA's regional hydrodynamic wave model, adding 2 feet for sea level rise, and calculating wave runup at the shoreline.

The project will allow FEMA accreditation of a levee system that protects approximately 17,000 parcels within Foster City and San Mateo and is resilient to the maximum wave runup associated with the 100-year storm surge including sea level rise anticipated by 2050 with 99.5 percent certainty.





# Project Design



# Project Design



Hybrid 22,300 LF

Earthen 5,400 LF

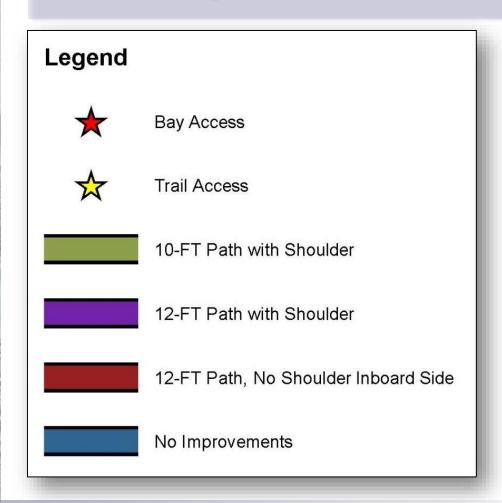
Floodwall 4,000 LF



#### Public Access



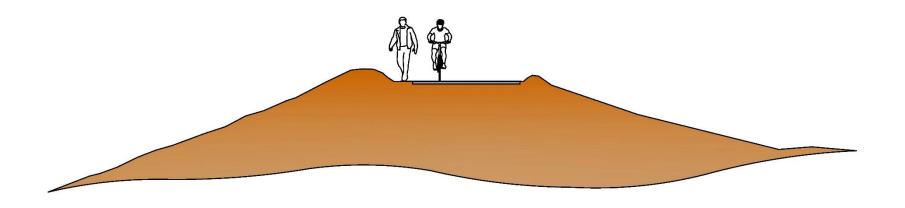
- June 2016 San Francisco Bay Trail Guidelines and Toolkit
- Bay Trail widened 50 percent
- Improved public access
  - □ ADA compliance
  - Cyclist and board surfing amenities



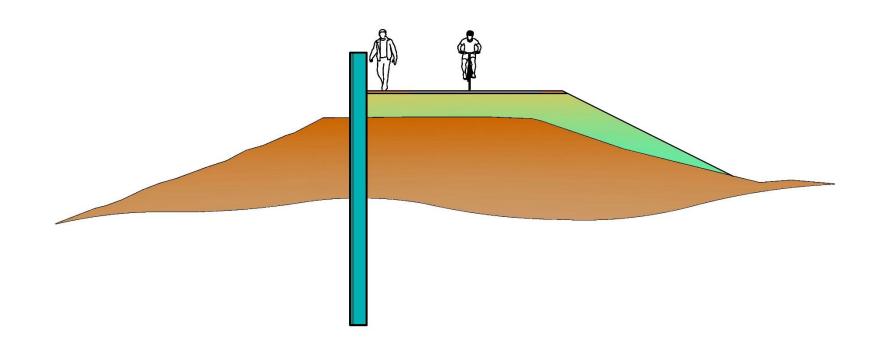




#### Public Access

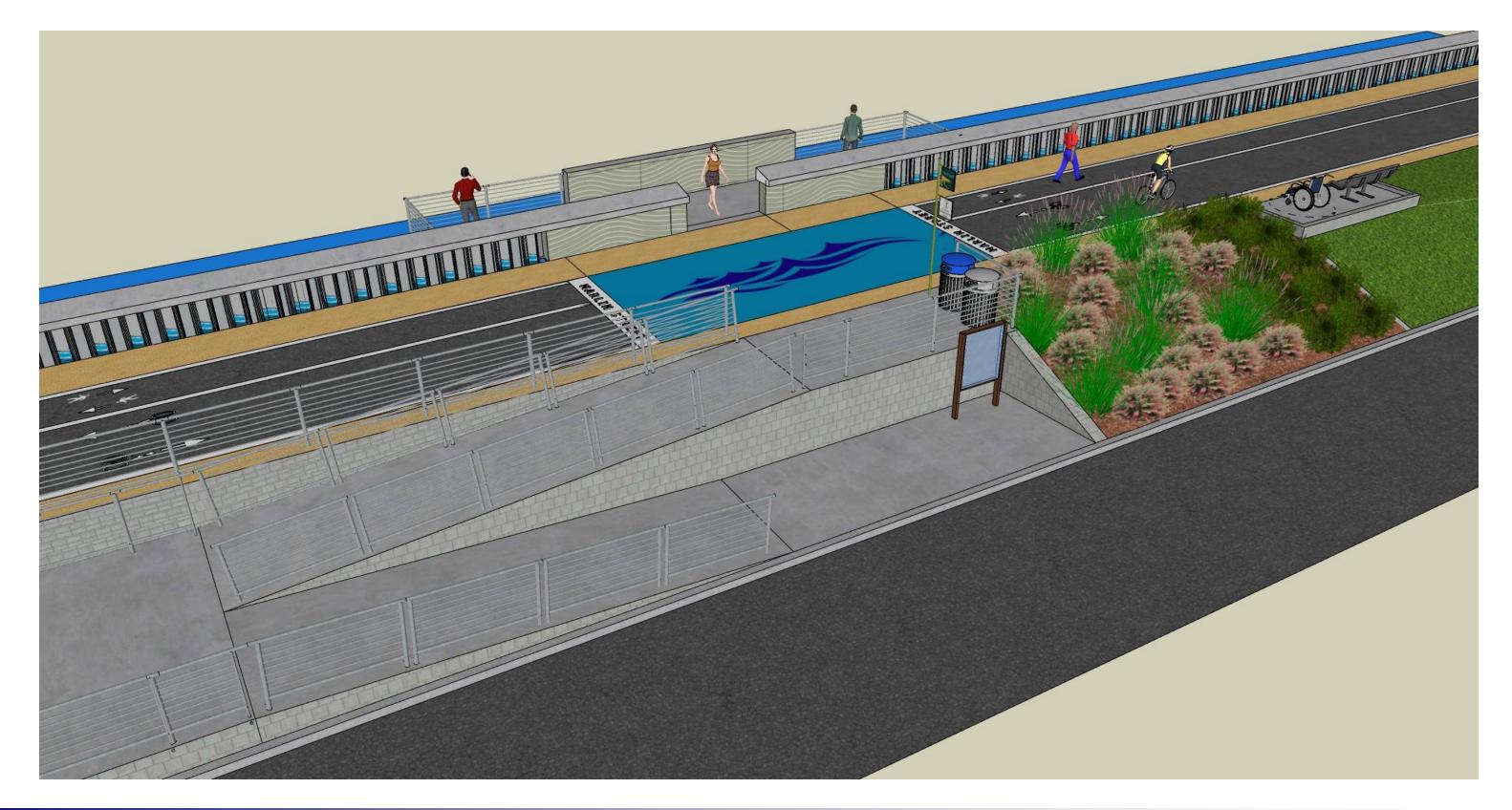


EXISTING BAY TRAIL IS 12 FEET WIDE OR LESS ON AVERAGE



IMPROVED BAY TRAIL WILL BE 18 FEET WIDE

#### **Public Access**

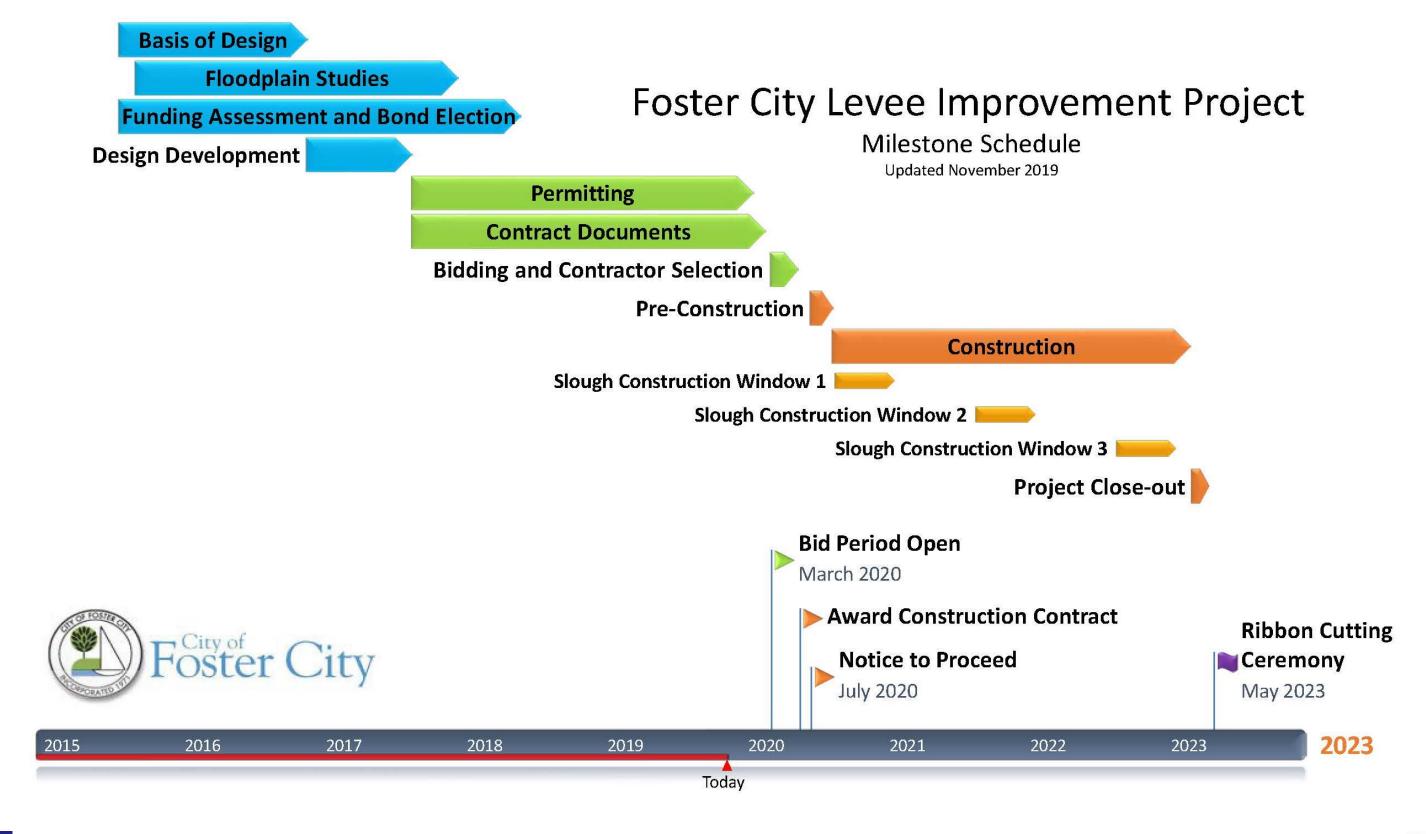




# **Project Financing**

- ☐ Current approximate construction cost estimate is \$90 million.
- ☐ Foster City is financing 100% of project costs.
  - ☐ Measure P bond sales
  - General funds

#### Project Schedule

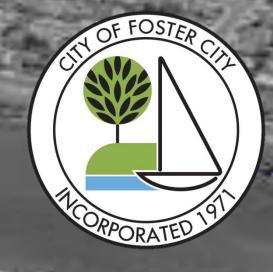




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