



LEEVE PROTECTION PLANNING AND IMPROVEMENTS PROJECT

Improving Today and Preparing for Tomorrow

Construction Management Pre-Proposal Meeting

November 7, 2019



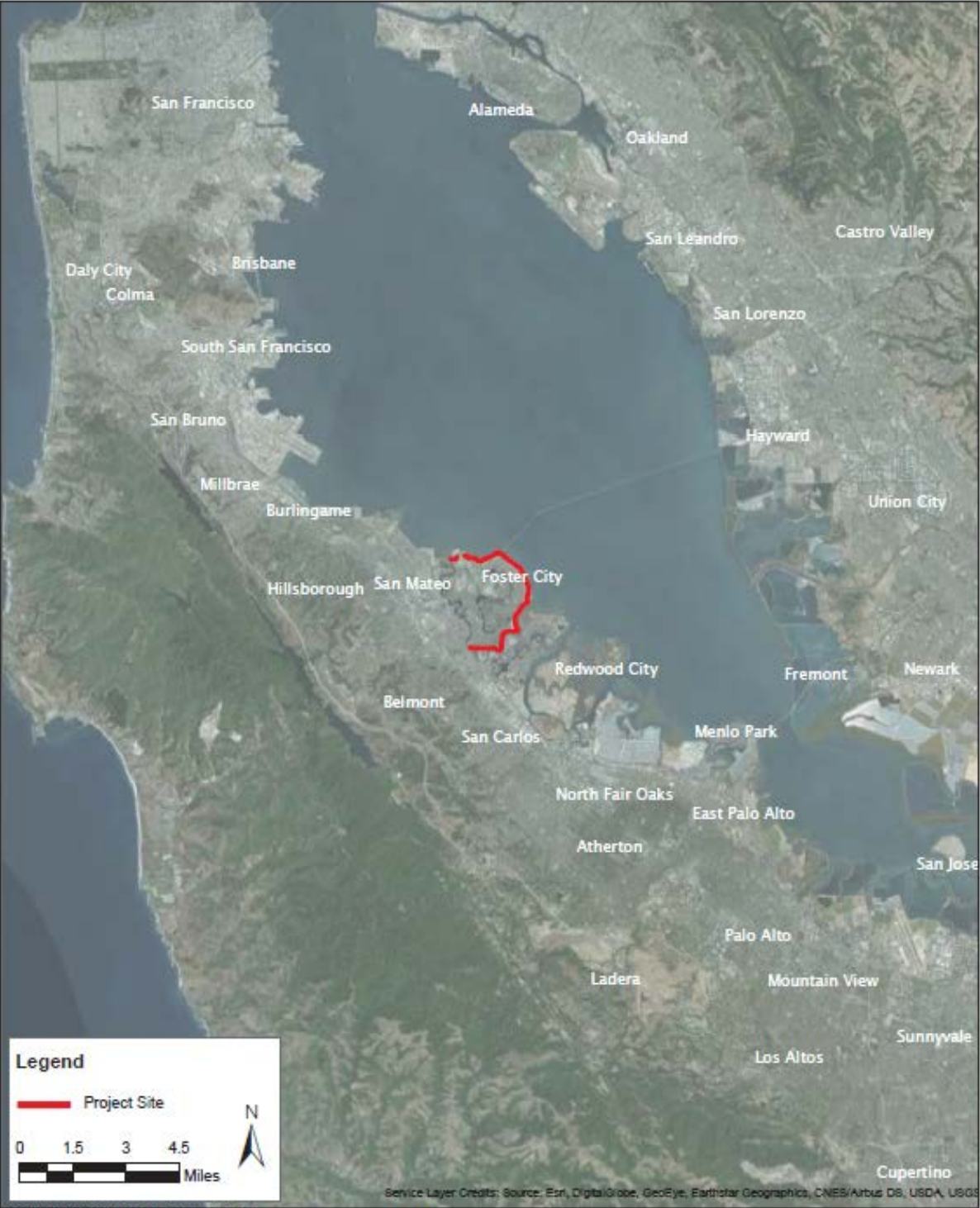
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS



Agenda

- ❑ Consultant Sign-In
- ❑ Introductions
- ❑ Project Background
 - ❑ Brief History
 - ❑ Design Overview
 - ❑ Estimated Construction Cost
 - ❑ Anticipated Bidding and Construction Schedule
- ❑ Permitting and Coordination
 - ❑ Regulatory Permits
 - ❑ Rights of Way
 - ❑ Utilities
- ❑ Proposal Requirements
- ❑ Selection Process

Project Background



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

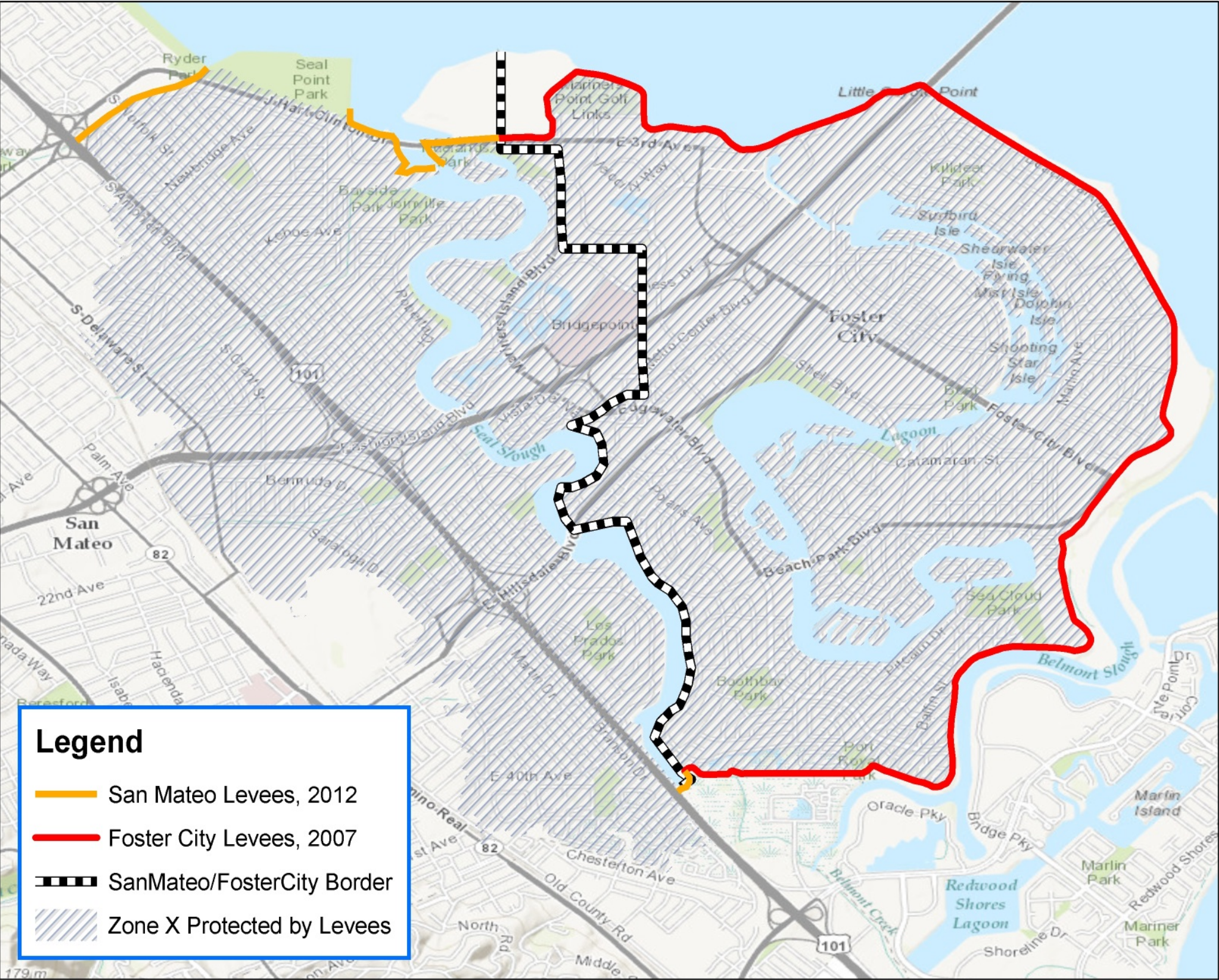
Figure I-1
 Foster City Levee Protection Planning and Improvements Project EIR
 Regional Context Map



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.
 ENVIRONMENTAL REGULATORY CONSULTANTS

Brief History



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

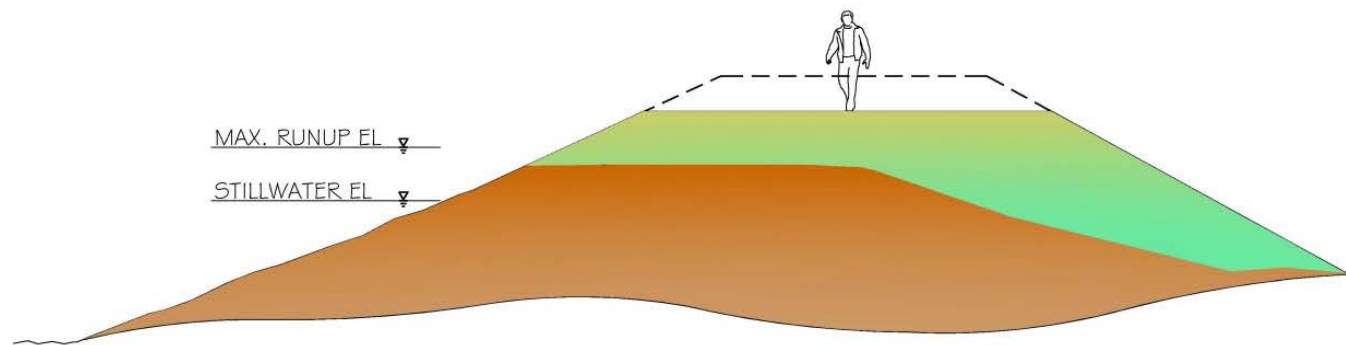
Design Overview



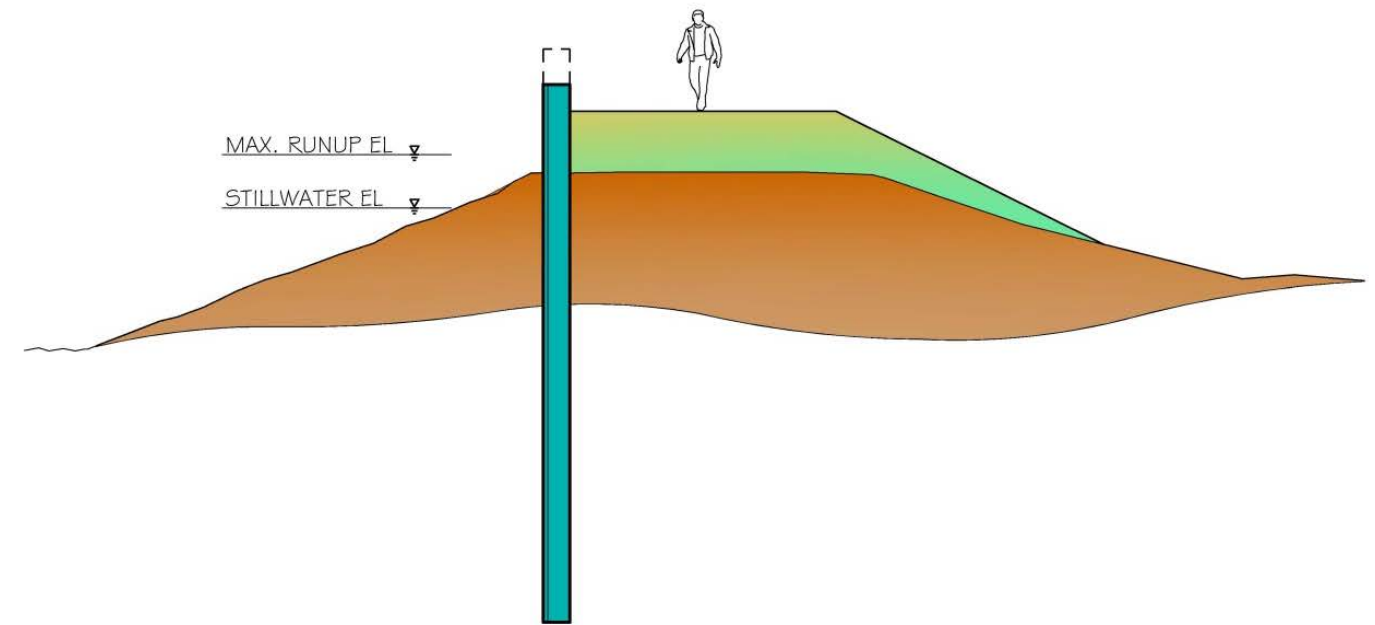
The required top of post-settlement levee/wall elevation is established by running FEMA's regional hydrodynamic wave model, adding 2 feet for sea level rise, and calculating wave runup at the shoreline.

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.

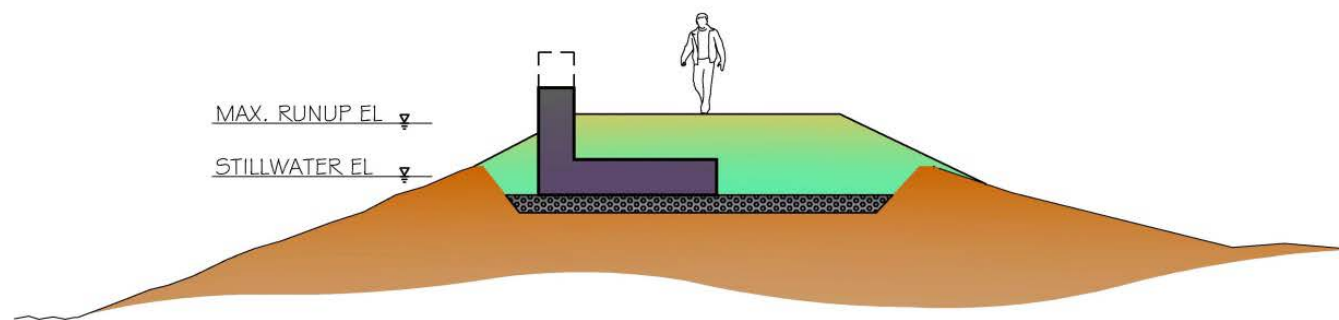
Design Overview



EARTHEN LEVEE



HYBRID SHEET PILE WALL



CONVENTIONAL FLOOD WALL

Design Overview

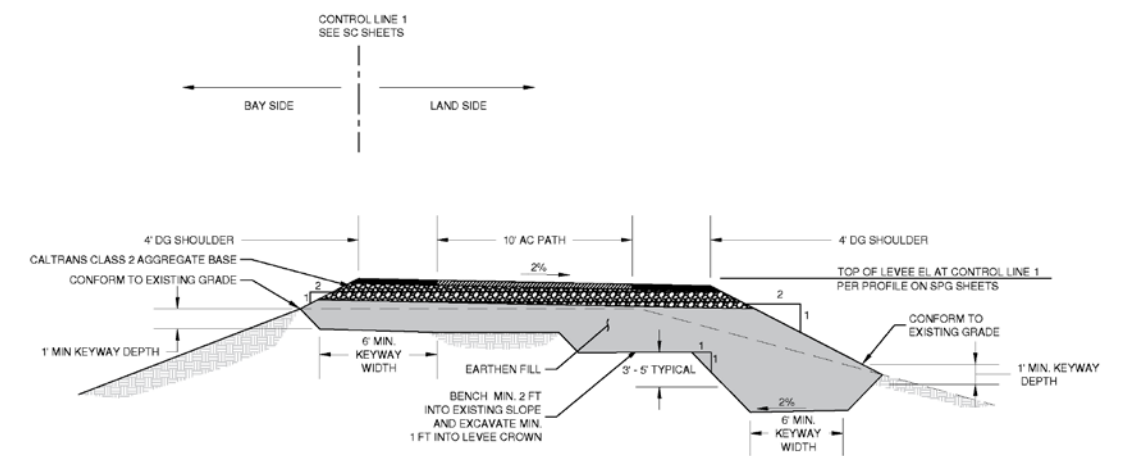


FOSTER CITY LEVEE IMPROVEMENT TYPES

- Hybrid Sheet Pile Wall
- Earthen Levee
- Concrete Floodwall

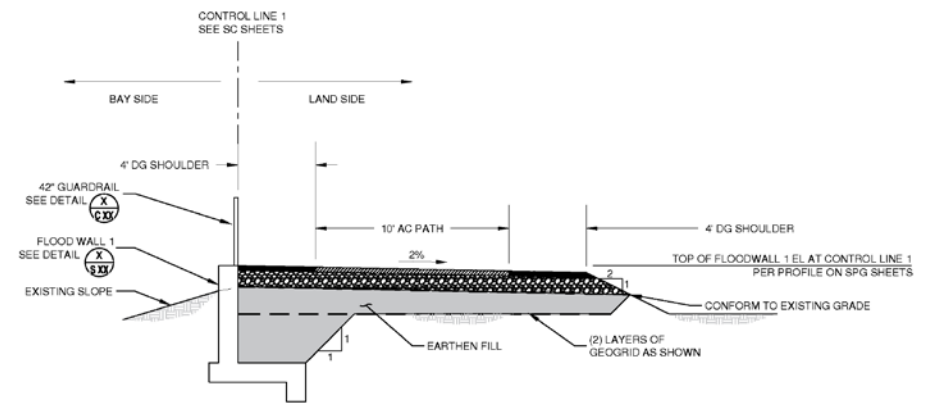
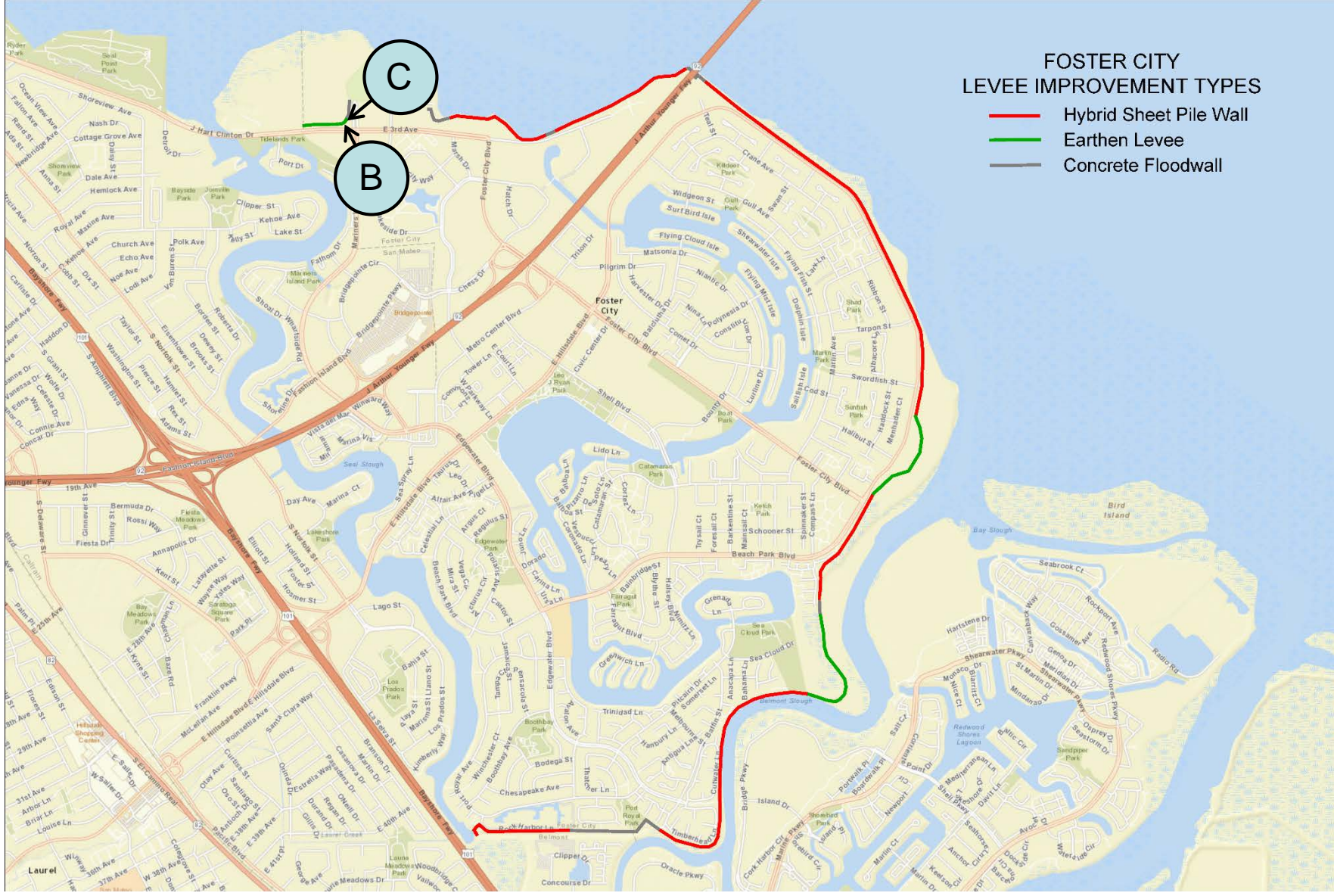
| | |
|-----------|-----------|
| Hybrid | 22,300 LF |
| Earthen | 5,400 LF |
| Floodwall | 4,000 LF |

San Mateo City Limit to Mariners Point



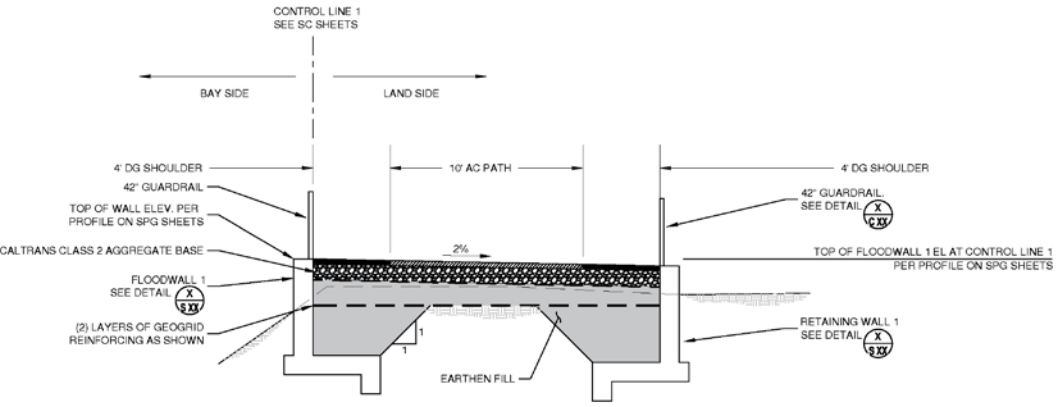
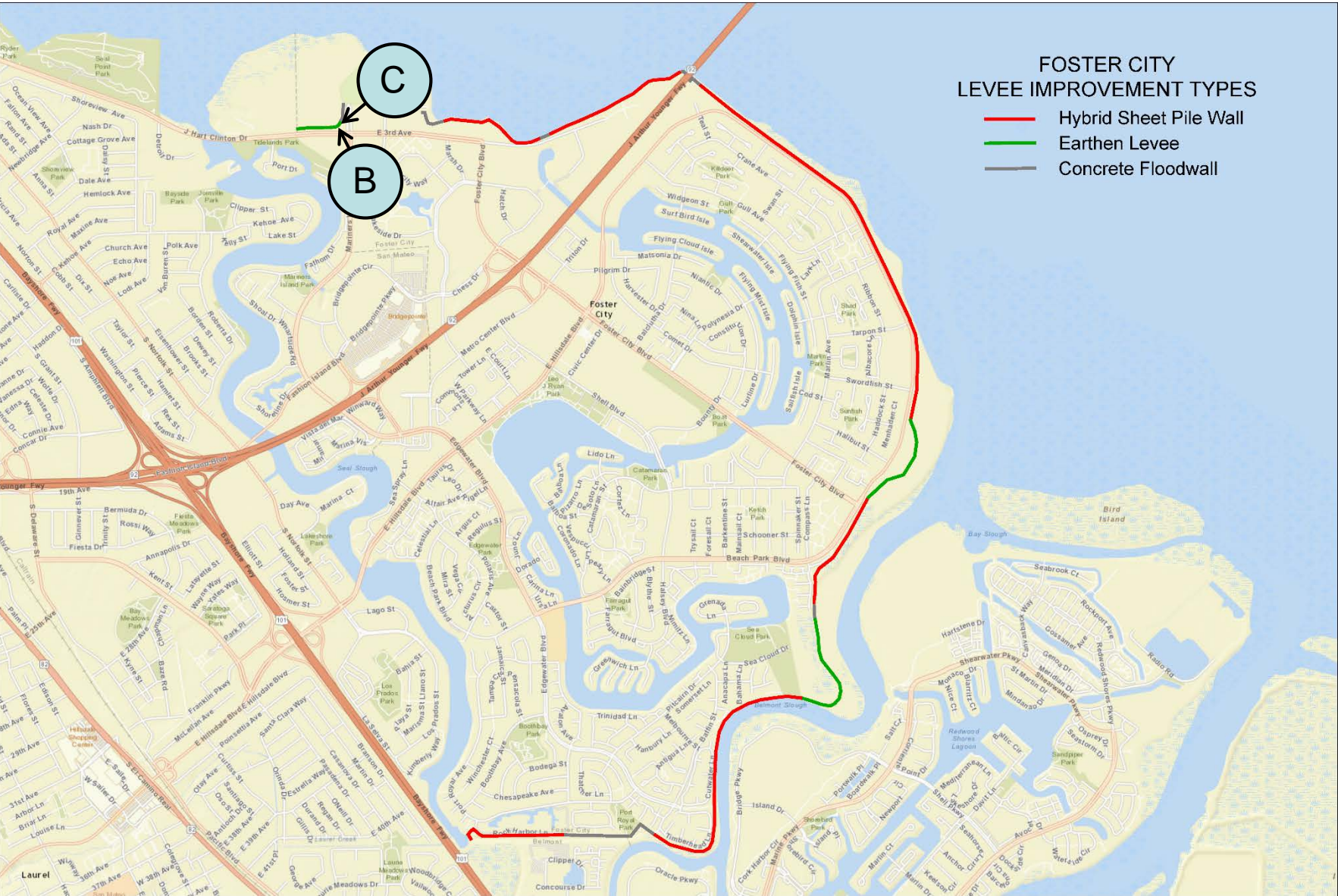
TYPICAL SECTION A
SCALE: 1/4" = 1'-0"
TCX 01

Mariners Point



TYPICAL SECTION B
SCALE: 1/4" = 1'-0"
TCX 01

Mariners Point



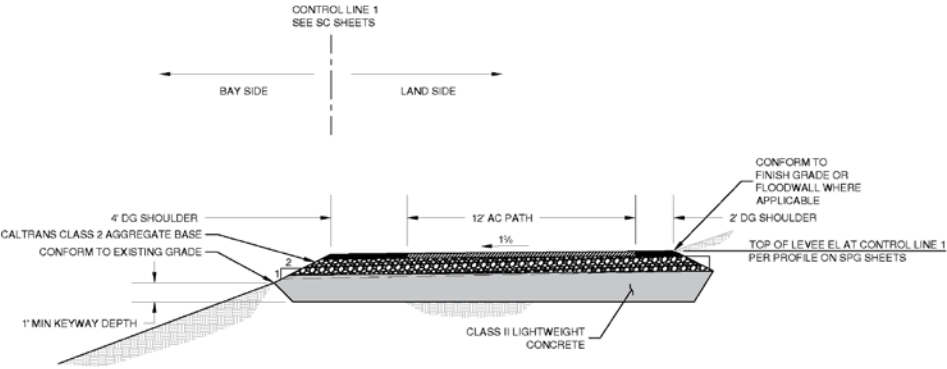
TYPICAL SECTION C
SCALE: 1/4" = 1'-0"
TCX 02

Mariners Point



No Improvements at Mariner's Point or Upper Launch

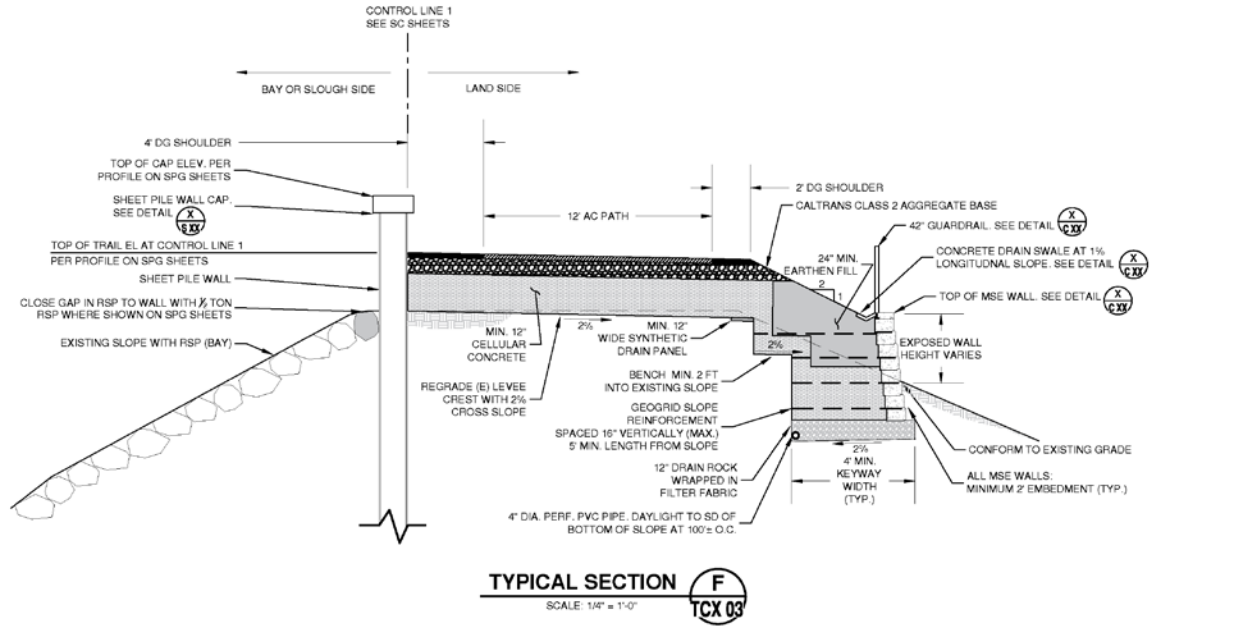
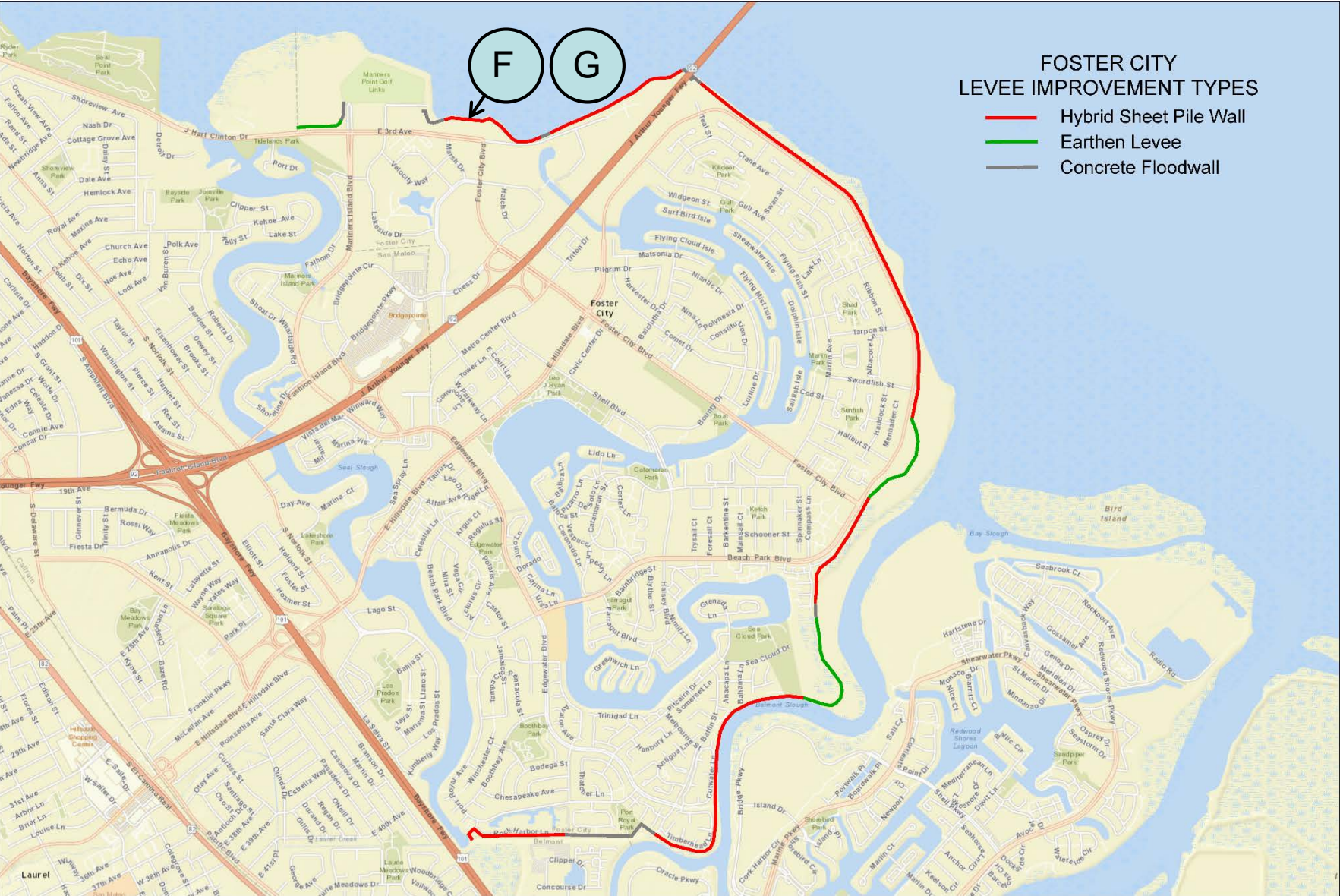
Baywinds Park



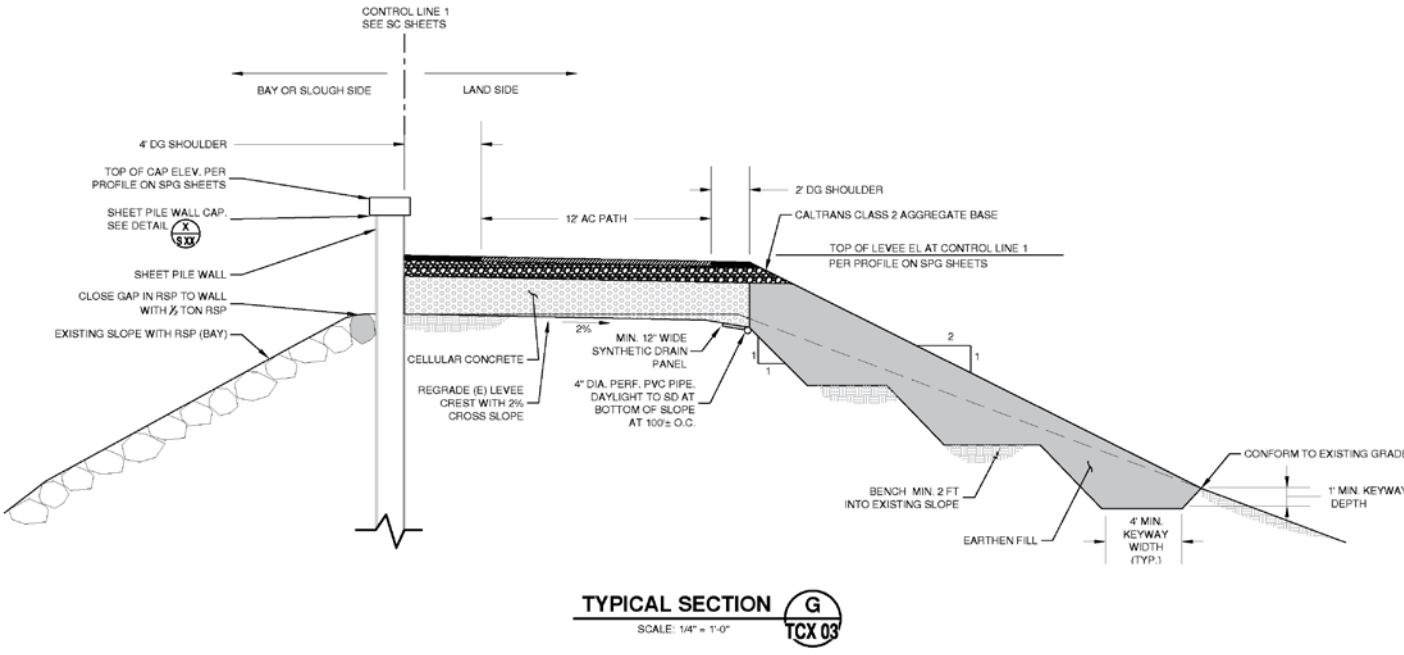
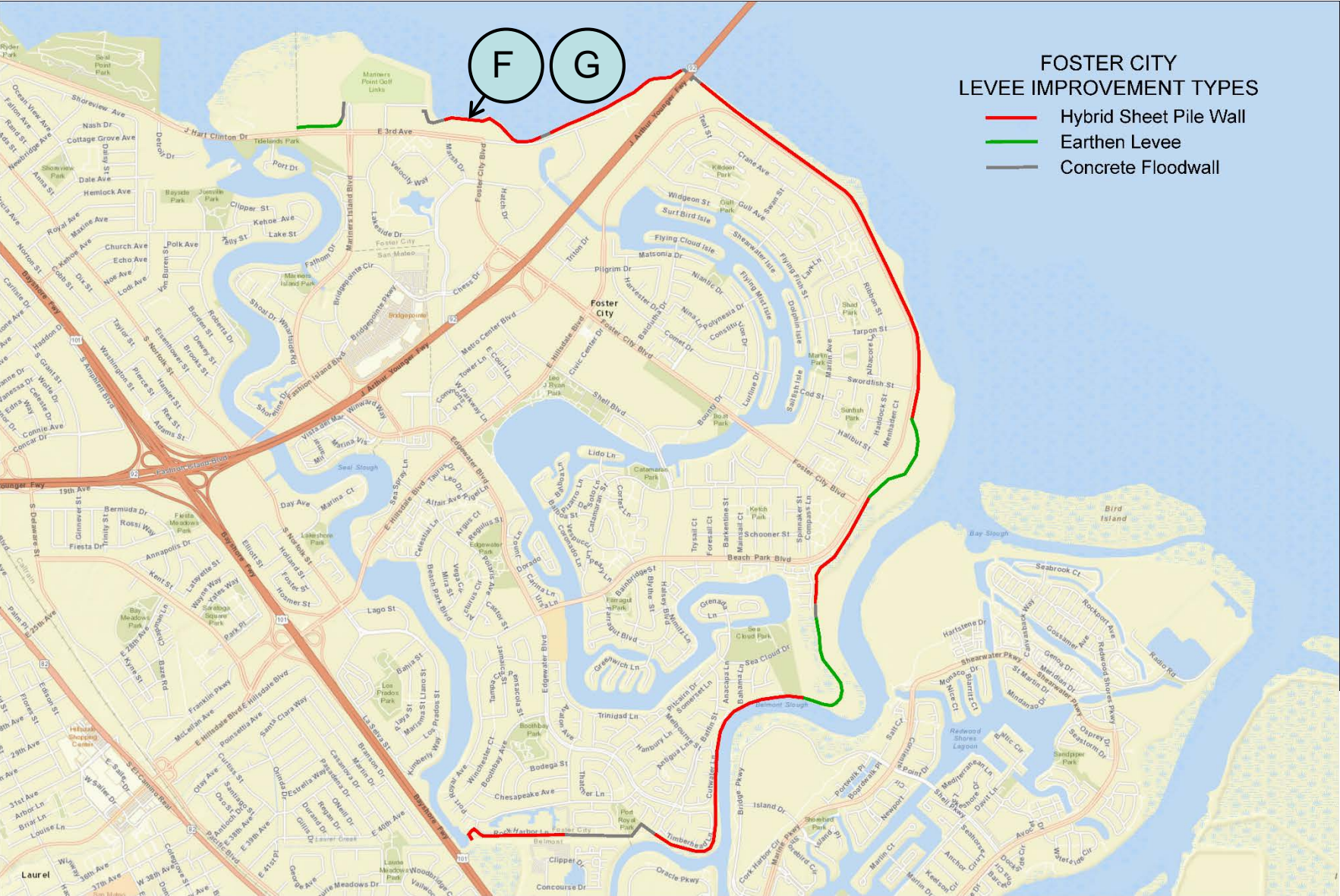
TYPICAL SECTION D
SCALE: 1/4" = 1'-0"
TCX 02

Baywinds Park and adjacent beach remain as is, other than widened trail, improved path to beach, and additional board laydown area. Flood protection is provided by a setback wall.

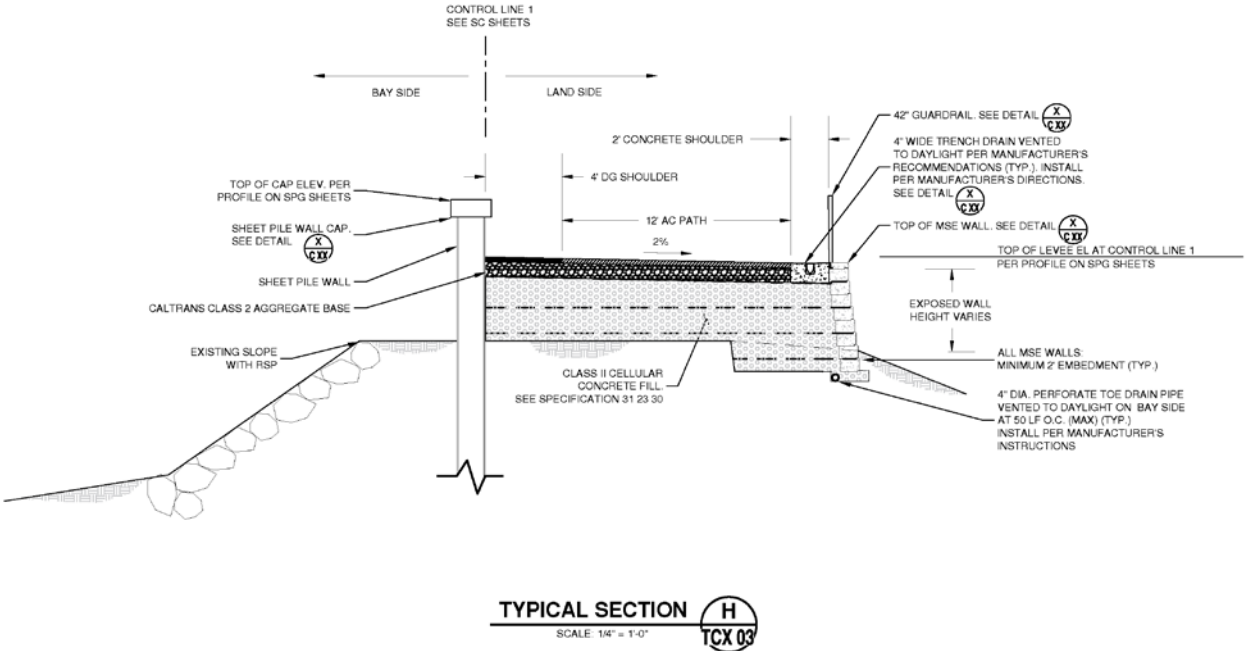
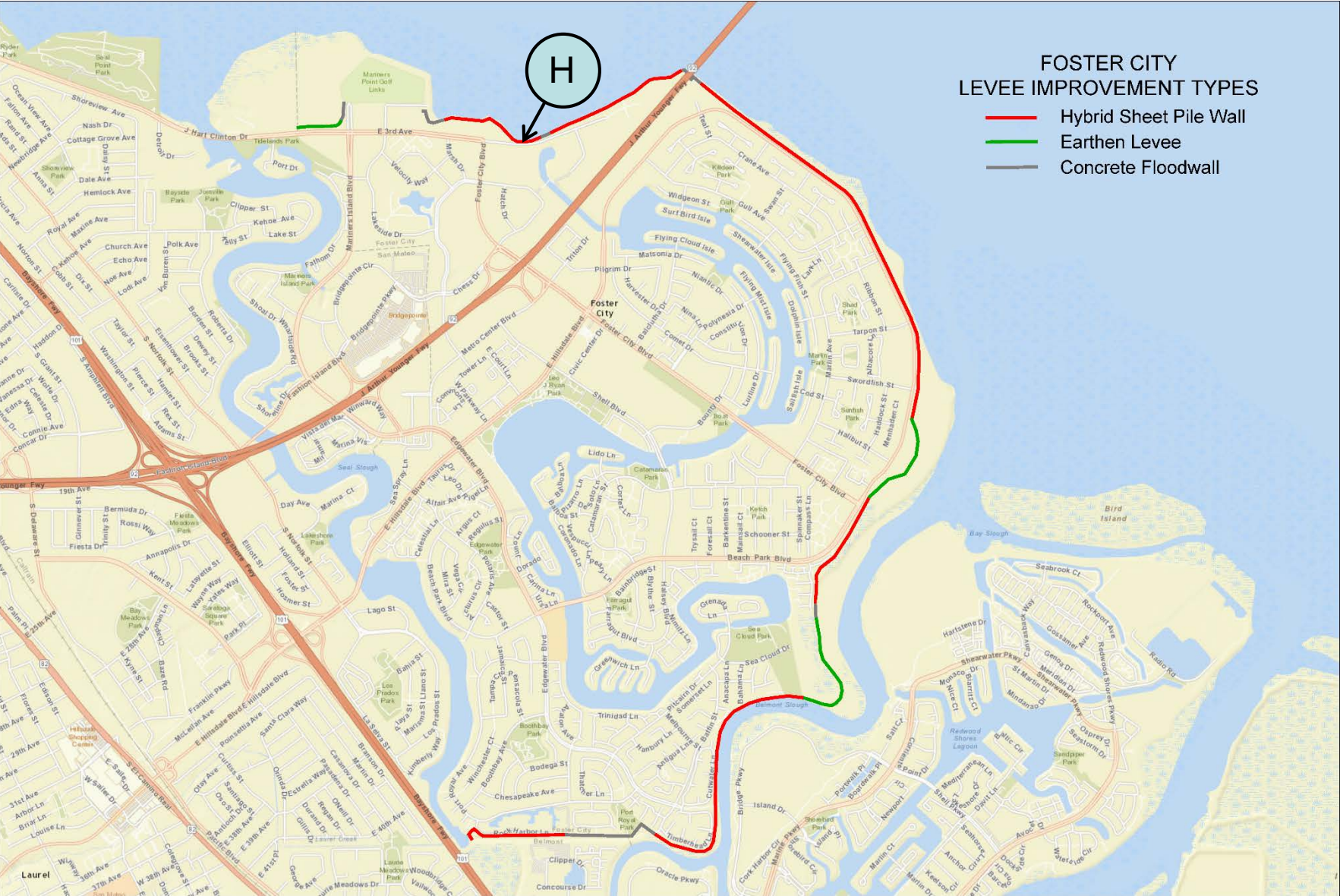
Baywinds Park to San Mateo Bridge



Baywinds Park to San Mateo Bridge



Baywinds Park to San Mateo Bridge

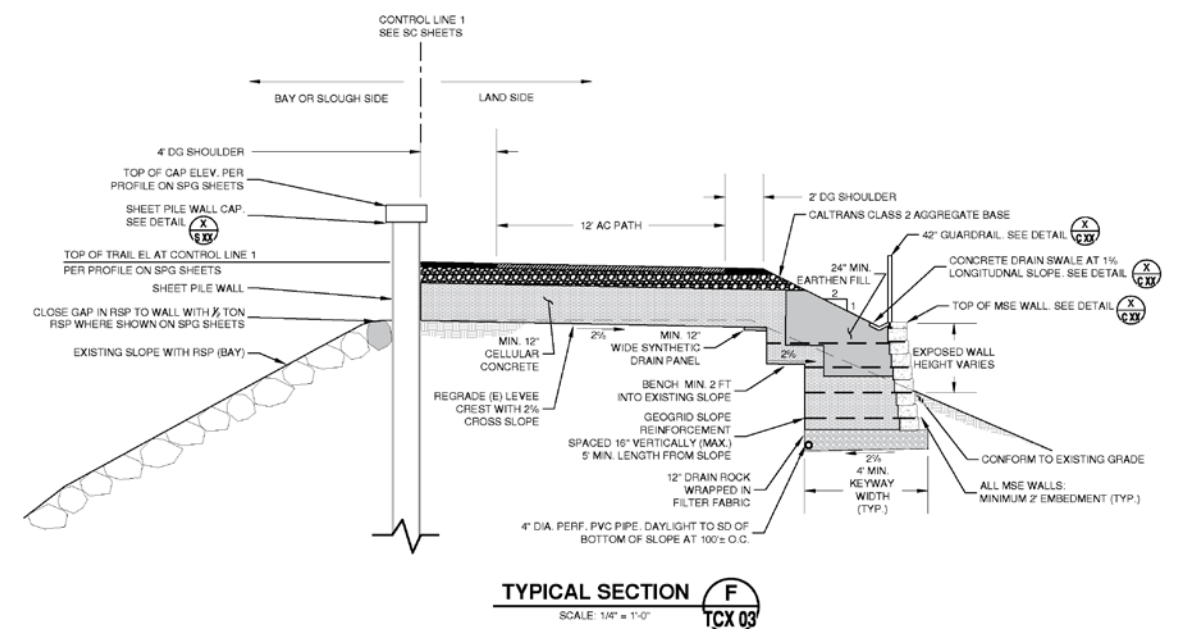


Protecting 54-inch diameter SSFM in East Third Avenue

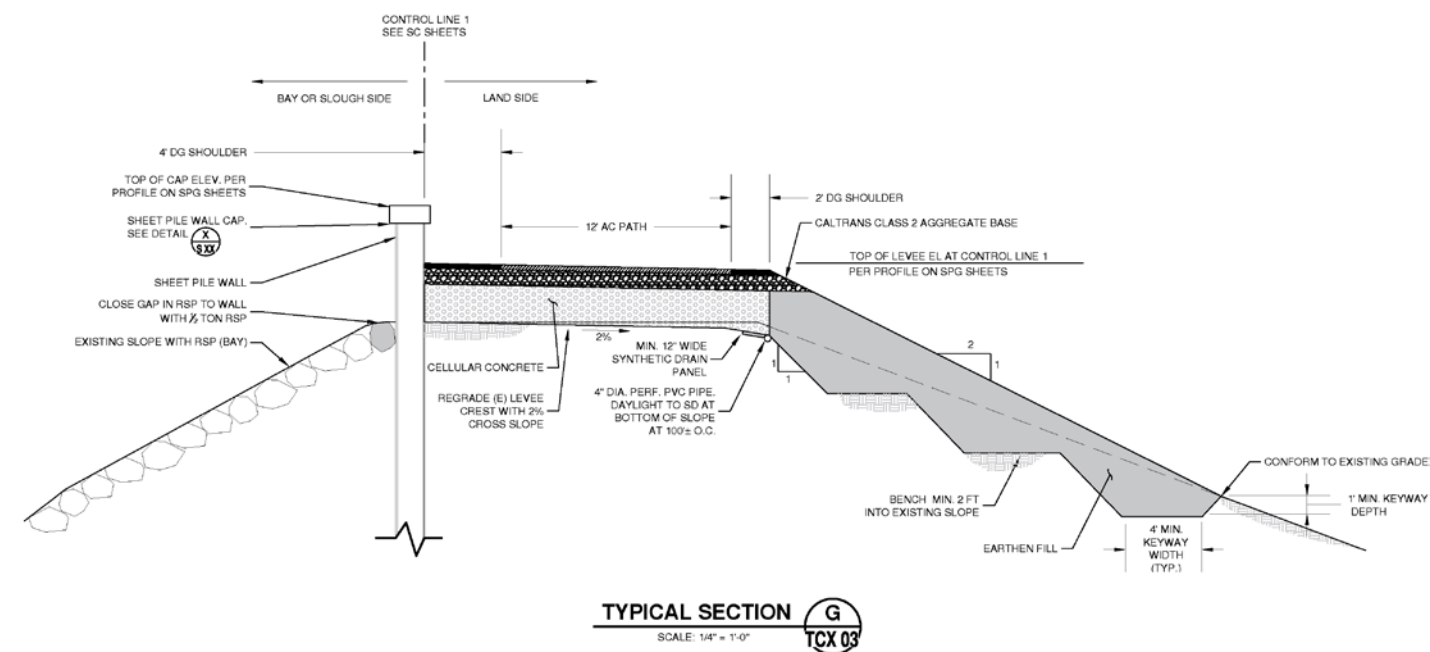
San Mateo Bridge and Werder Pier



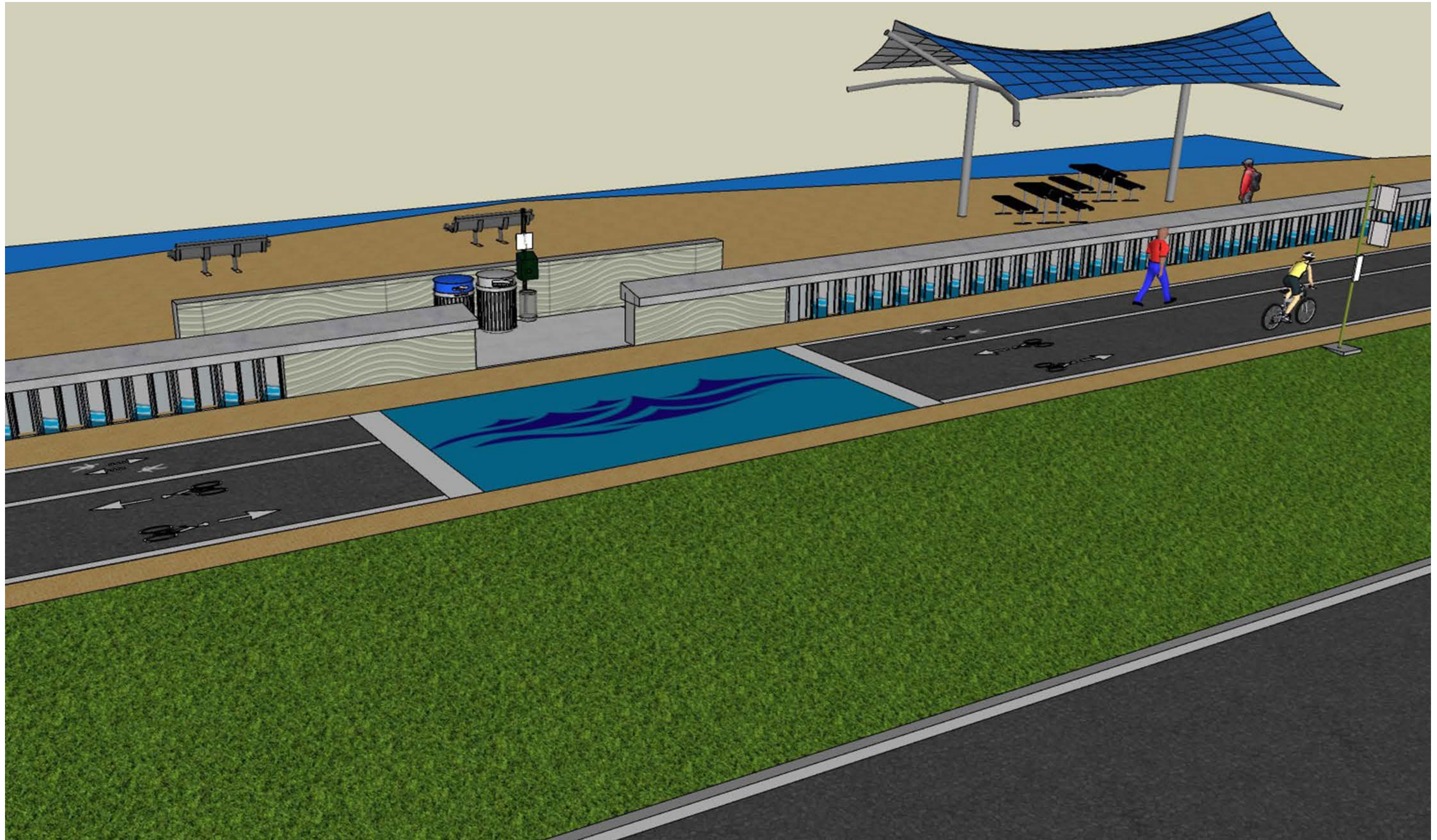
Adjacent to Beach Park Boulevard



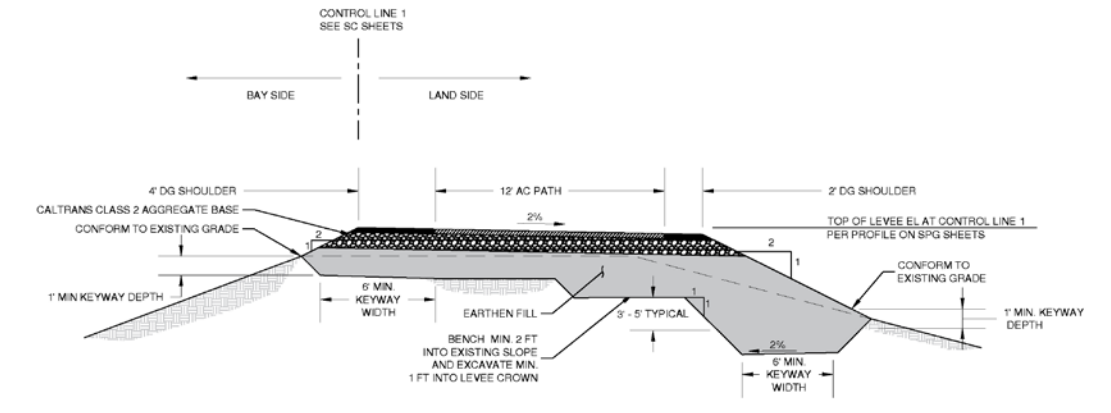
Adjacent to Beach Park Boulevard



Adjacent to Beach Park Boulevard



Shorebird Park



TYPICAL SECTION M
SCALE: 1/4" = 1'-0"
TCX 05

Shorebird Park

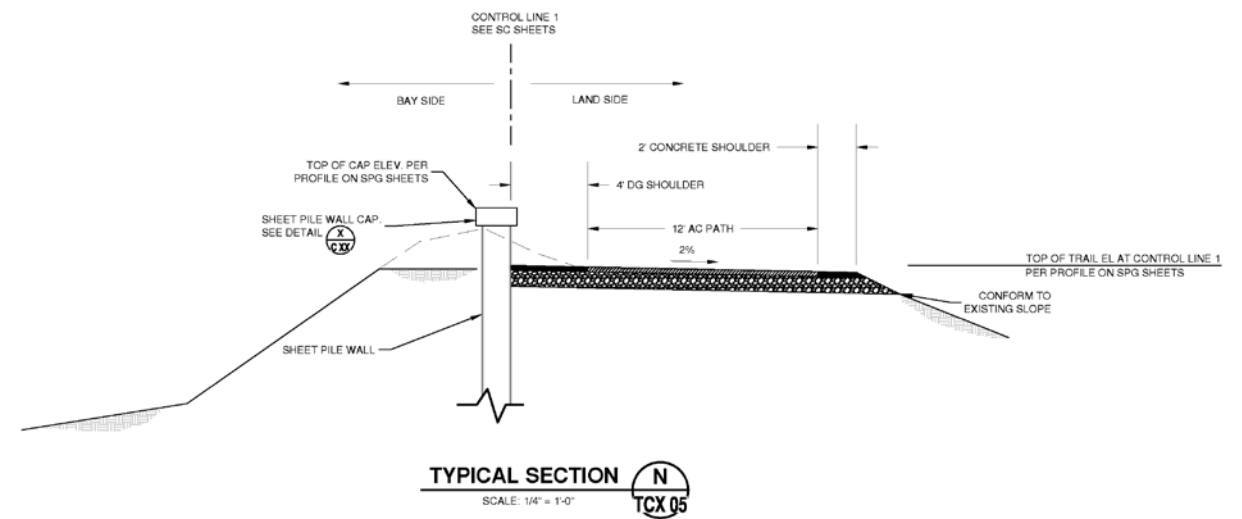


Beach Park Boulevard South of Foster City Boulevard

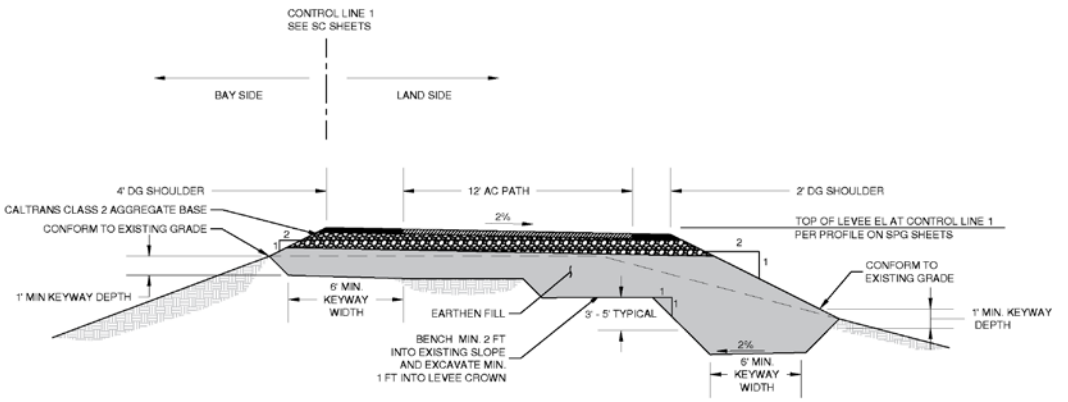
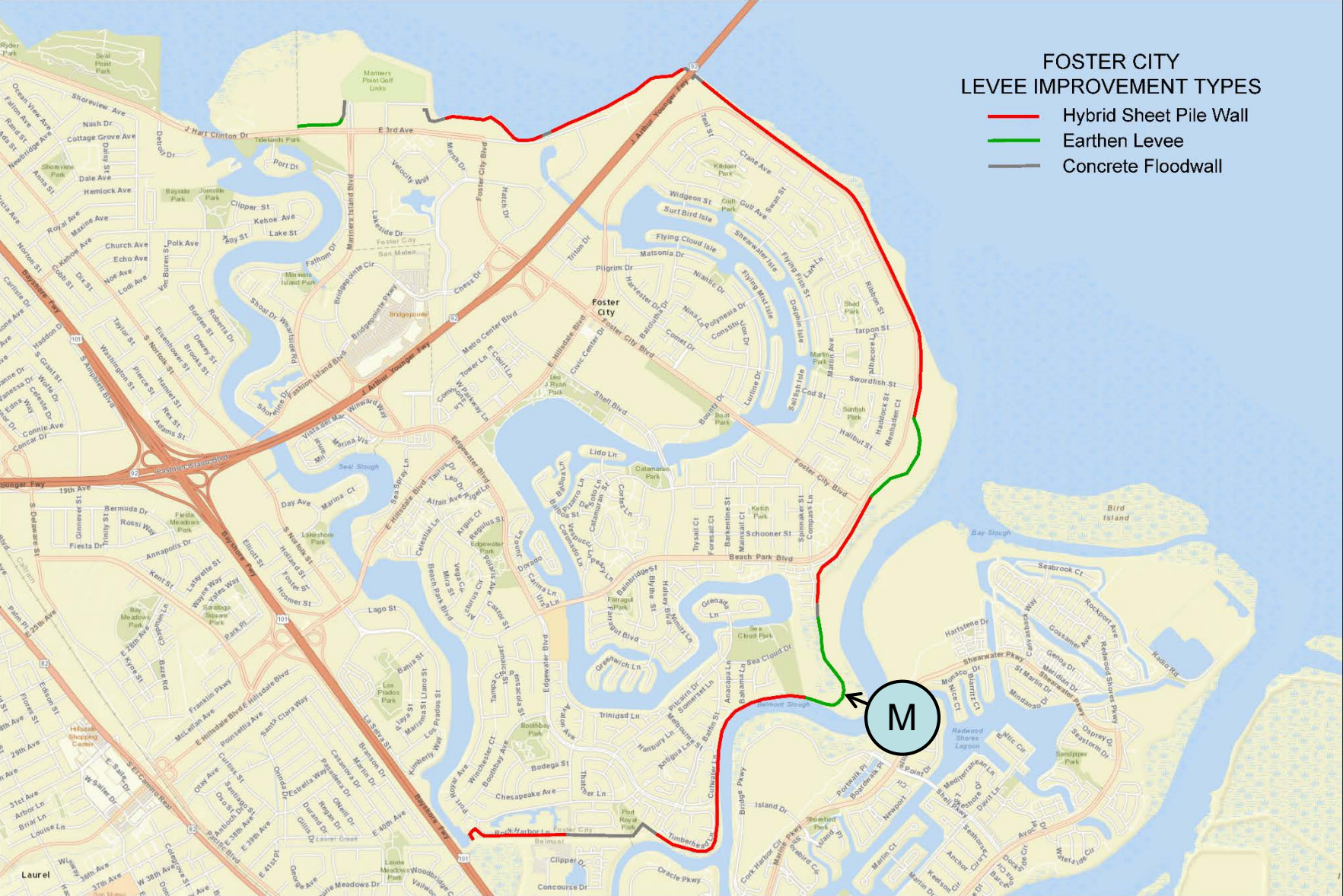


Design height of wall adjacent to Bay Trail a constant 2.5 feet

Maintain flood protection during construction



Dredge Disposal Site ("J" Parcel)

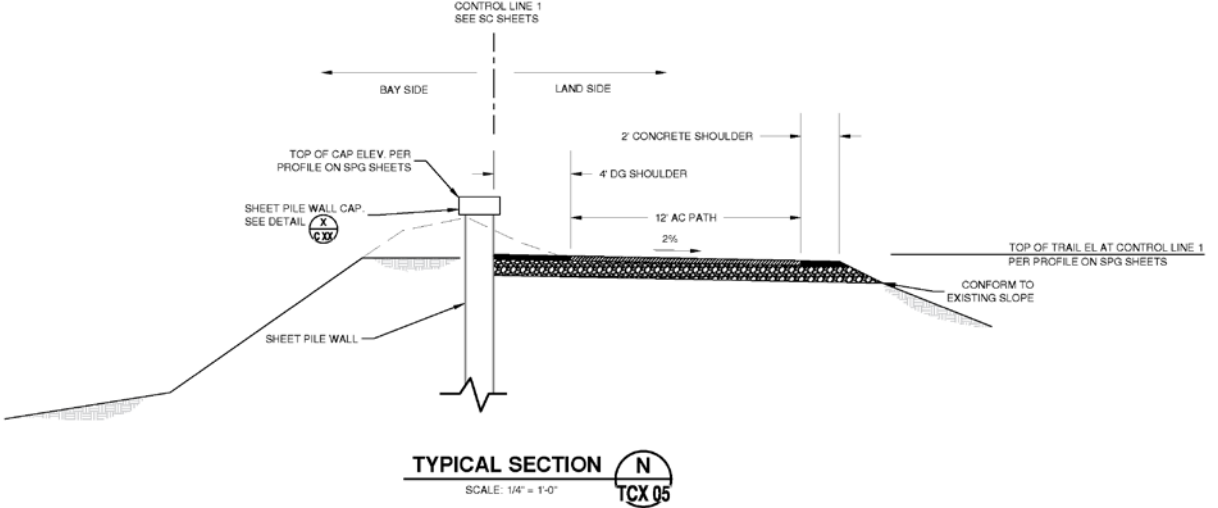


TYPICAL SECTION M
SCALE: 1/4" = 1'-0"
TCX 05

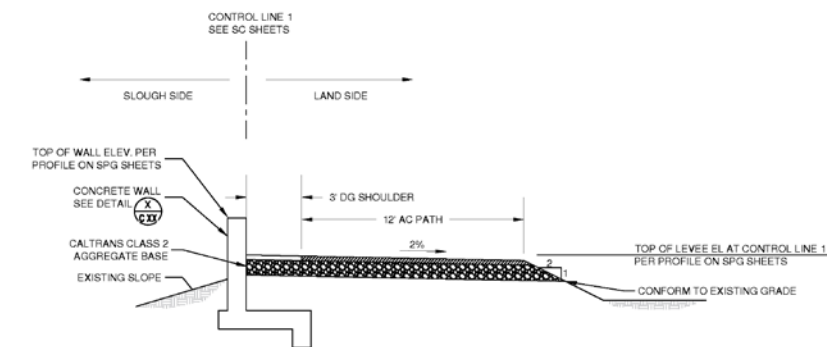
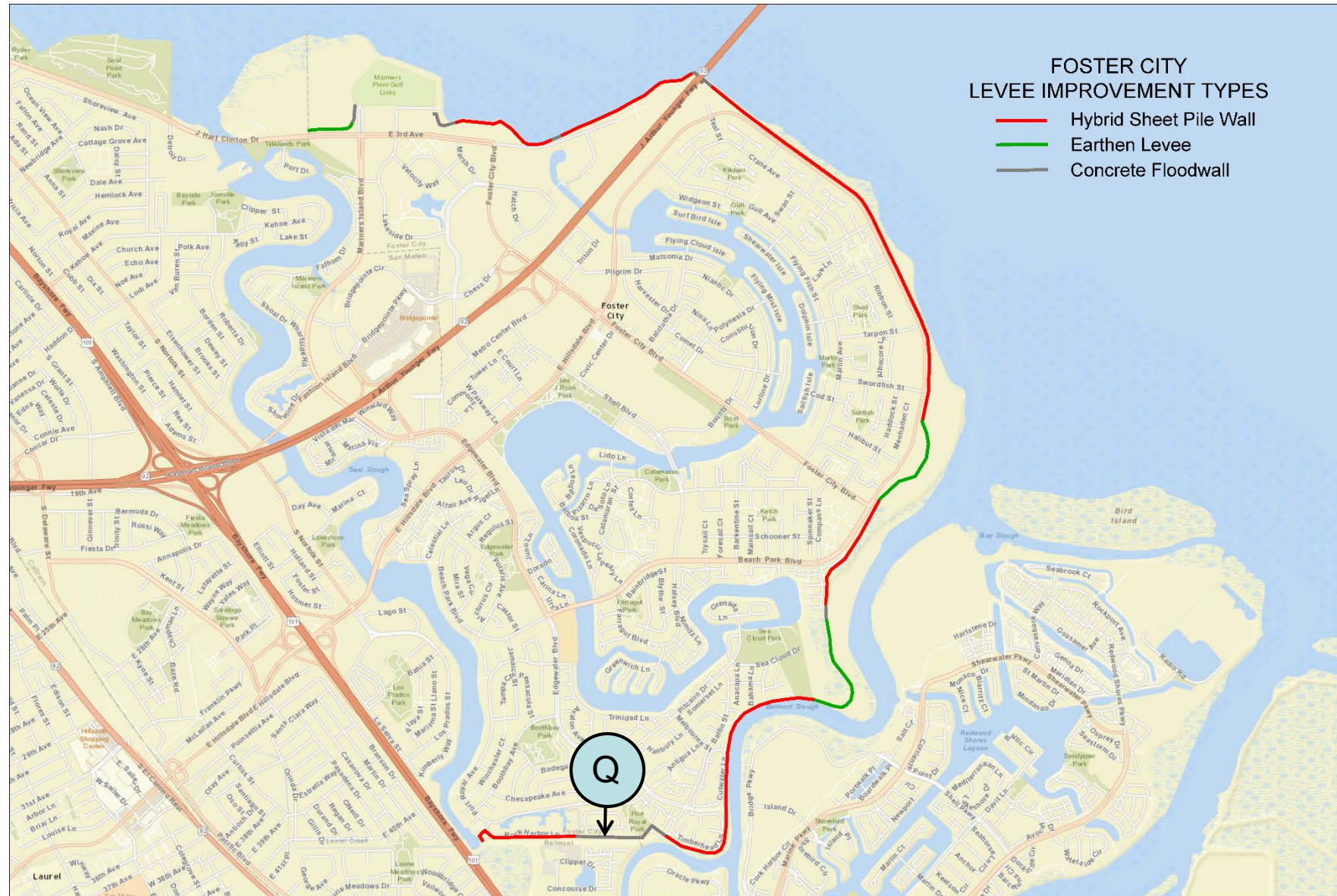
Belmont Slough



Design height of wall adjacent to Bay Trail a constant 2.5 feet
Maintain flood protection during construction



O'Neill Slough



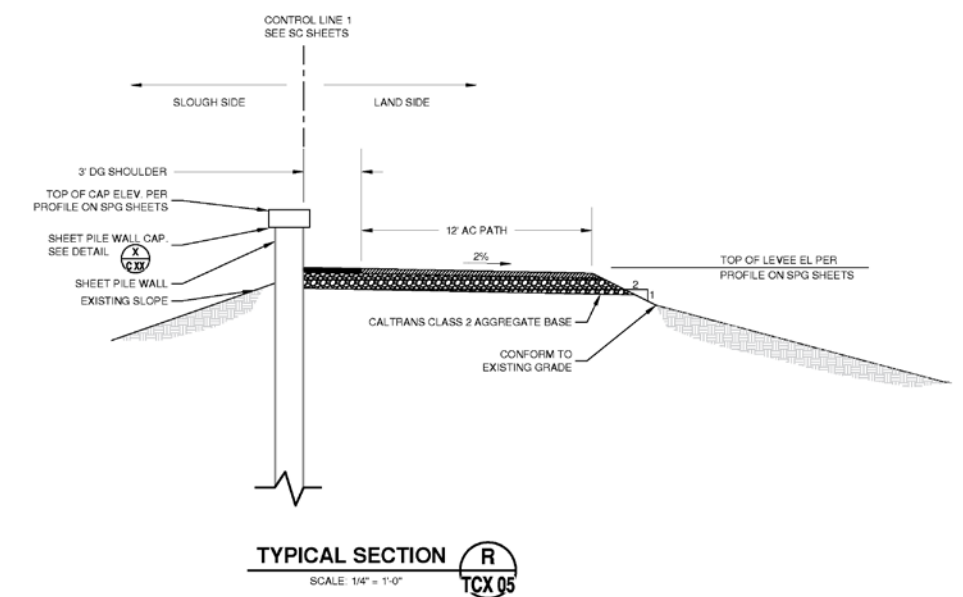
TYPICAL SECTION Q
SCALE: 1/4" = 1'-0"

Design height of wall adjacent to Bay Trail a constant 2.5 feet

O'Neill Slough has (very) muted tides

Will be opened to tidal action as mitigation

O'Neill Slough



Demolish existing floodwall

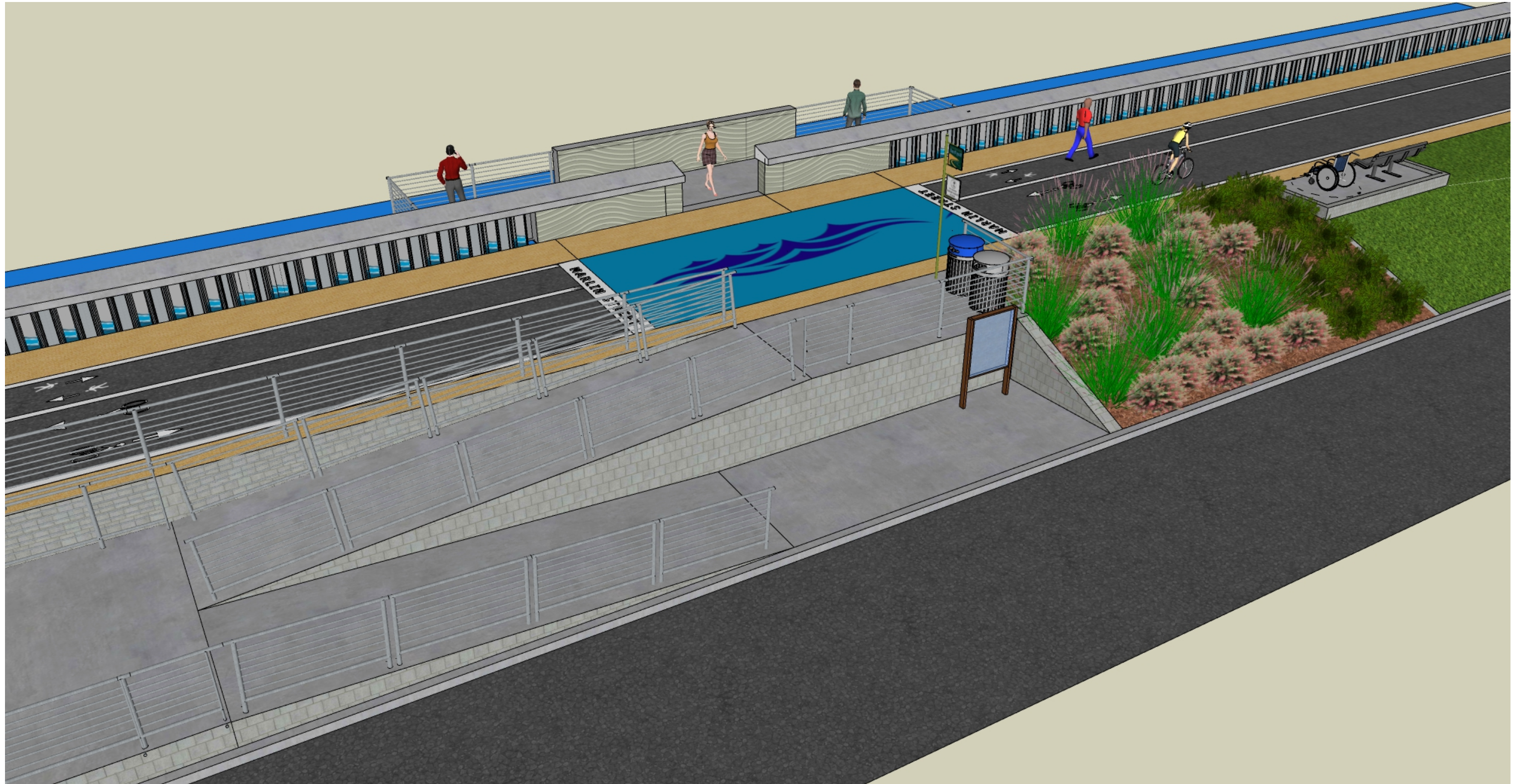
Design height of wall adjacent to Bay Trail a constant 2.5 feet

- June 2016 *San Francisco Bay Trail Guidelines and Toolkit.*
- Trail Access Points
 - 41 existing; 40 proposed
 - 66 “ad hoc” eliminated
- Shoreline Access Points
 - 14 existing; 15 proposed
 - 19 “ad hoc” eliminated

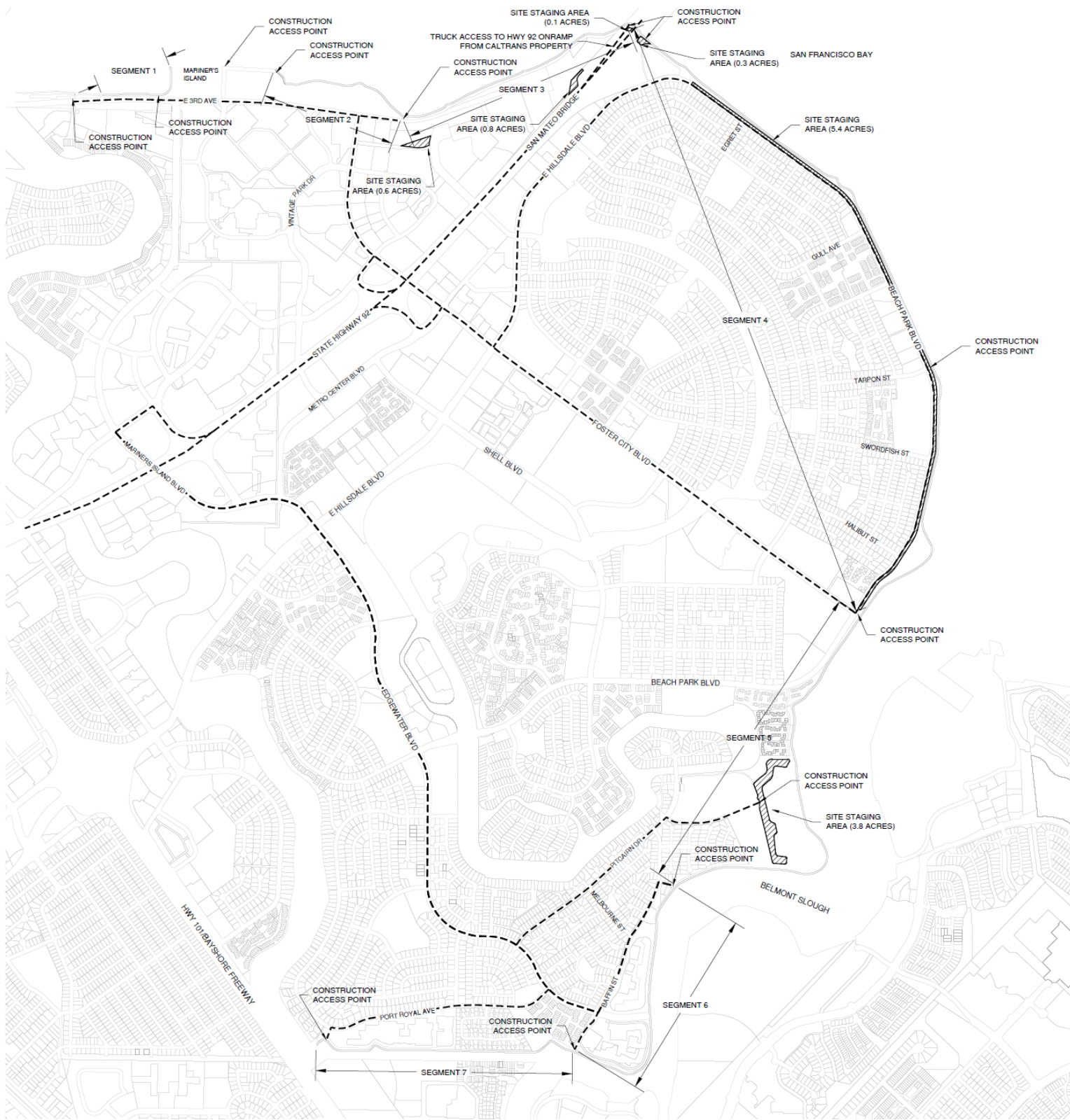
Legend

-  Bay Access
-  Trail Access
-  10-FT Path with Shoulder
-  12-FT Path with Shoulder
-  12-FT Path, No Shoulder Inboard Side
-  No Improvements

Public Access



Staging Areas



LEGEND:

- CONSTRUCTION HAUL ROUTE
- SITE STAGING AREA

NOTES

THIS EXHIBIT SHOWS THE CITY OF FOSTER CITY HAUL ROUTES THAT DICTATE CONSTRUCTION ACCESS TO THE LEVEE. THESE HAUL ROUTES ALLOW FOR THE LEVEE PROJECT TO HAVE SEVERAL CONSTRUCTION ACCESS POINTS, WHICH ALSO ALLOWS THE LEVEE PROJECT TO BE BROKEN INTO SEVERAL SEGMENTS LISTED BELOW:

1. FROM EAST 3RD AVENUE FROM THE BORDER OF FOSTER CITY AND THE CITY OF SAN MATEO TO THE WEST SIDE OF MARINER'S ISLAND.
2. FROM THE EAST SIDE OF MARINER'S ISLAND AT BAYWINDS PARK TO EAST 3RD AVENUE JUST EAST OF THE INTERSECTION OF EAST 3RD AVENUE AND FOSTER CITY BOULEVARD.
3. FROM JUST EAST OF THE INTERSECTION OF EAST 3RD AVENUE AND FOSTER CITY BOULEVARD TO THE SAN MATEO BRIDGE.
4. FROM THE SAN MATEO BRIDGE TO THE INTERSECTION OF BEACH PARK BOULEVARD AND FOSTER CITY BOULEVARD.
5. FROM THE INTERSECTION OF BEACH PARK BOULEVARD AND FOSTER CITY BOULEVARD TO THE END OF GATESHEAD COURT.
6. FROM THE END OF GATESHEAD COURT TO THE END OF BAFFIN STREET.
7. FROM THE END OF BAFFIN STREET TO THE BAY TRAIL PARKING LOT ON THE CORNER OF PORT ROYAL AVENUE AND ROCK HARBOR LANE.

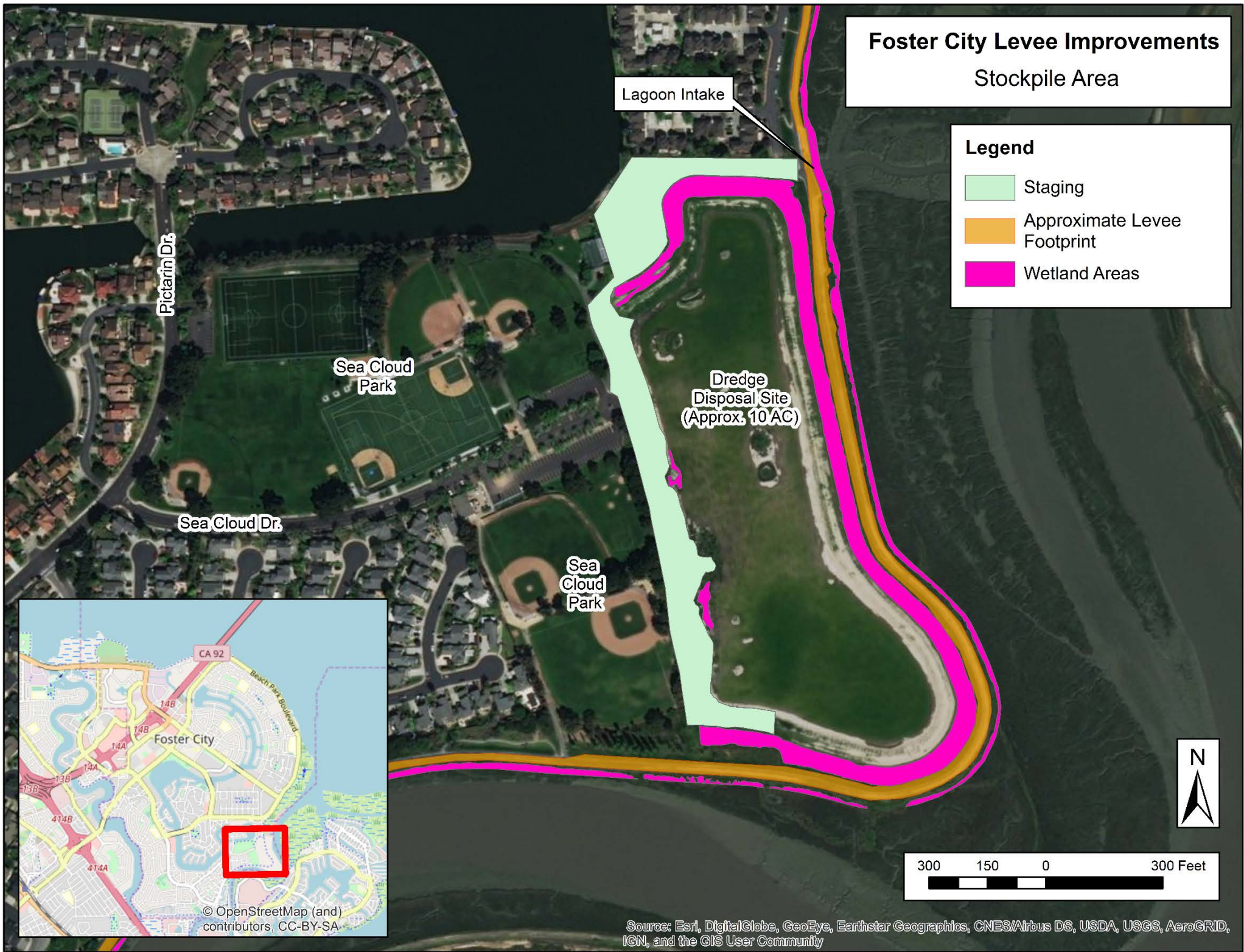
THE CONSTRUCTION ACCESS POINTS ARE LOCATED IN THE FOLLOWING LOCATIONS:

- THE BORDER OF THE CITY OF SAN MATEO AND CITY OF FOSTER CITY
- THE CORNER OF EAST 3RD AVENUE AND MARINER'S ISLAND BOULEVARD
- THE PARKING LOT FOR BAYWINDS PARK, WHICH CAN BE ACCESSED FROM LAKESIDE DRIVE.
- JUST EAST OF THE INTERSECTION OF EAST 3RD AVENUE AND FOSTER CITY BOULEVARD.
- NEXT TO THE SAN MATEO BRIDGE AT THE CALTRANS ACCESS RAMP TO WESTBOUND HIGHWAY 92.
- BRIDGEVIEW PARK ON BEACH PARK BOULEVARD
- THE CORNER OF FOSTER CITY BOULEVARD AND BEACH PARK BOULEVARD
- THE END OF PORT ROYAL PARK
- THE END OF GATESHEAD COURT
- THE END OF BAFFIN STREET
- THE PARKING LOT ON THE CORNER OF PORT ROYAL AVE AND ROCK HARBOR LANE.

ALSO SHOWN ON THIS MAP ARE THE PROPOSED PROJECT STAGING AREAS. THE STAGING AREAS ARE SHOWN IN THE FOLLOWING LOCATIONS:

- AT THE CITY OF FOSTER CITY MAINTENANCE YARD ON THE CORNER OF EAST 3RD AVENUE AND LINCOLN CENTRE DRIVE
- ON THE CALTRANS HIGHWAY 92 ACCESS RAMP TO WESTBOUND HIGHWAY 92.
- NORTH OF BRIDGEVIEW PARK NEXT TO WERDER PIER
- ALONG HALF OF THE EXISTING RIGHT-OF-WAY OF BEACH PARK BOULEVARD FROM BRIDGEVIEW PARK TO FOSTER CITY BOULEVARD
- IMMEDIATELY EAST OF PORT ROYAL PARK

Stockpile Management

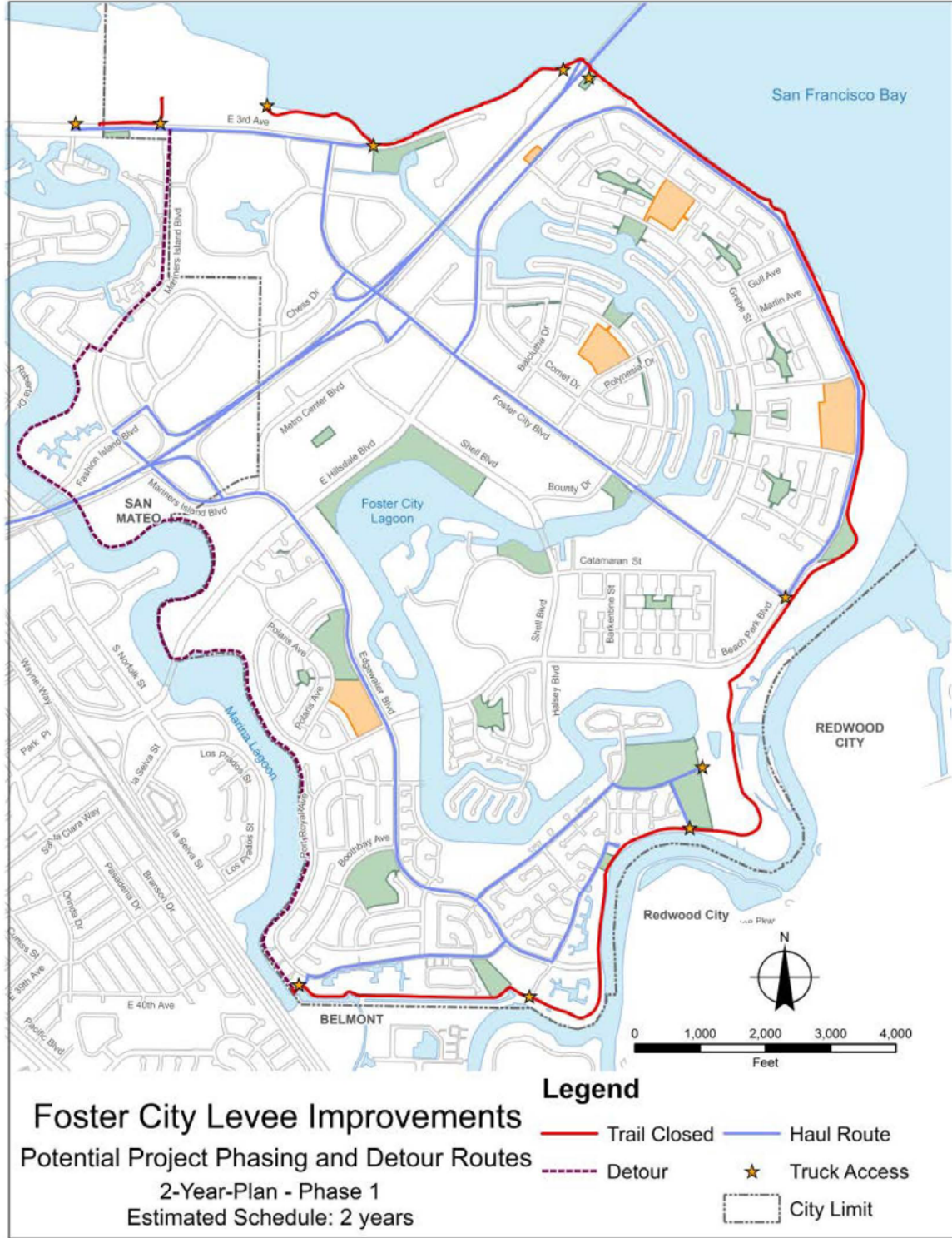


Foster City is working with San Mateo to stockpile approximately 50,000 CY of clean material excavated from the San Mateo County Expo site (UFES Project). This is nearly 90 percent of the earth fill required for construction.

The largest available stockpile location is 10 acres within the Dredge Disposal Site. Fill is anticipated to be available for stockpiling in August through October 2020.

Sea Cloud Park must remain open during stockpiling and construction.

Bay Trail Detour



Construction Detour (shown left)

Depending upon project start dates and the presence of nesting birds, the levee improvement project will take two to three years to complete.

The plan is to close the length of Bay Trail along the perimeter of Foster City for about two years. For public safety, the contractor building the project must be provided with a secure work area without interfering pedestrians and bicyclists.



The schematic figure shows the detour proposed for the period when the greater Bay Trail is closed within Foster City. The detour will route pedestrians and bicyclists from the trail in San Mateo, across the signalized intersection at Anchor Drive, Mariners Island Boulevard and the Foster City Pedway, along designated bicycle routes to the south side of Foster City where connections to San Mateo at La Selva Street and the Bay Trail in Belmont will remain available.

Public Parks and Open Space Areas

Baywinds Park and its adjacent shoreline will remain open throughout construction, other than short-duration closures for public safety; as will other City parks adjacent to the levee. A means of through access for bicyclists from San Mateo to the south will also be provided continuously throughout construction with minimal interruption.

Public Notification

The City will maintain a website dedicated to ongoing construction alerts, including anticipated durations of Bay Trail closures and specific information of interest to the various communities who use the trail. The City will also work directly with those communities and provide links to various communication methods including social media.

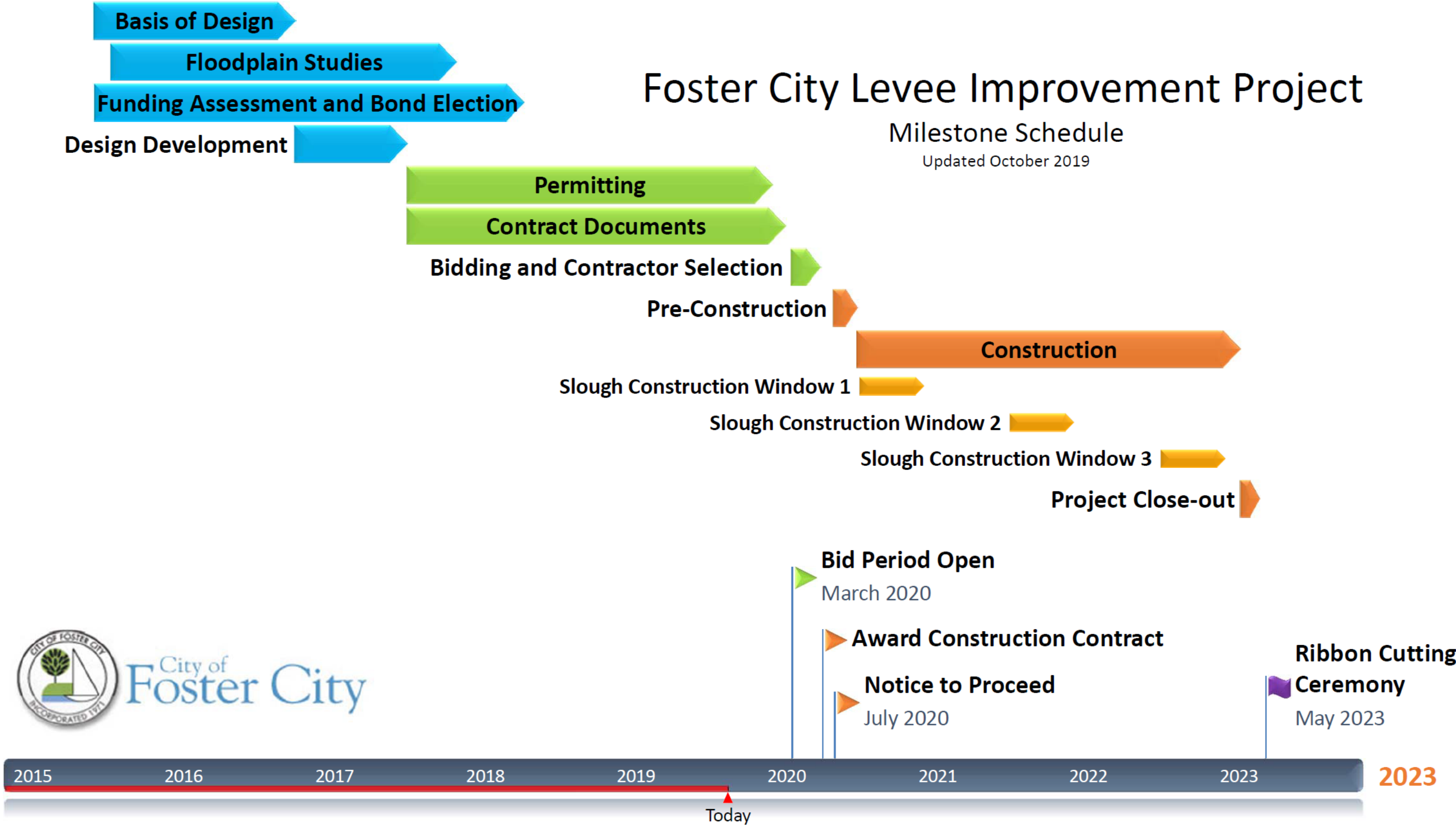
Estimated Construction Cost

- ❑ Current approximate construction estimate is \$90 million.
- ❑ Contingencies included within the current budget are:
 - ❑ 5% design (related to permit conditions)
 - ❑ 10% bid
 - ❑ 10% construction
- ❑ General risks to the construction budget are:
 - ❑ Bidding climate at the time of project bidding
 - ❑ Steel costs
 - ❑ Fuel costs

Construction Schedule

Foster City Levee Improvement Project

Milestone Schedule
Updated October 2019



Regulatory Permits

- SF Bay Regional Water Quality Control Board
 - 401 Water Quality Certification and Waste Discharge Requirements
Completed - Certificate in-hand
- SF Bay Conservation and Development Commission (BCDC)
 - Development Permit and Coastal Zone Management Act Consistency Determination
 - Scheduled to presented at November 21 BCDC Board Meeting
Draft Conditions Received and Reviewed
- US Army Corps of Engineers - After BCDC Permit Issued
 - Individual Permit
 - SLC Agreements (**Agreements Signed**)
 - RWQCB 401 Certification (**Certificate Issued**)
 - BCDC Coastal Zone Management Act Consistency (**Permit Pending**)

Rights of Way

- Majority of Work is within Foster City / Estero Municipal Improvement District ROW
- State Lands Commission (SLC)
 - Lease Agreements
 - Completed – Agreements Signed**
- California Department of Fish and Wildlife
 - Encroachment Permit
 - Completed**
- Caltrans
 - Highway 92 Right-of-Way
 - APN 094-130-060
 - Encroachment Permit pending Completion of Contract Documents**
- Public Access to Adjacent Private Properties
 - Access may be required by individual BCDC permits
 - Will be given right of refusal

- ❑ USA 811 Design Ticket and Utility Block Maps
 - ❑ 17 sites with potential utility conflicts
- ❑ Relocation thru Franchise Agreements or Other
 - ❑ PG&E requested Foster City locate PG&E utilities
 - ❑ Up to 2 years for relocation
- ❑ Utility Location this Month (Bess Test Labs)
 - ❑ Potholing
- ❑ Contract Documents will identify utilities to be cleared by others.
- ❑ Protection of 54-inch SSFM and outfall are shown on the Drawings.

Proposal Requirements and Selection Process

- Deadline for Questions: **Thursday November 14, 2019 5:00 p.m.**
- Proposal Sections
- Scope of Work
 - CM office space
 - Constructability review
 - Community outreach
 - Cash flow projections
- Proposal Deadline: **Thursday November 21, 2019 at 2:00 p.m.**
- Interviews are scheduled for **week of December 16, 2019.**



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