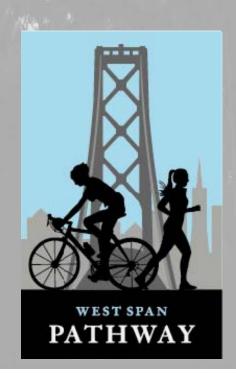
SFOBB West Span BPM Path Feasibility and Environmental Public Workshop

Pier 1 – Bayside Room January 20, 2016







Workshop Agenda

- Arrival (6:00)
- Presentation (6:10-6:45)
- General Q&A (6:45-7:00)
- Feedback Stations (7:00-7:40)
 - Project Process, Funding, and Environmental
 - San Francisco
 - Main Span
 - Yerba Buena Island (YBI)
- Station Reports (7:40-7:45)
- Adjourn (7:45)



Previous Studies





• Feasibility Study (2002)

Project Study Report-Project Development Support
(PSR-PDS)

To

Request Programming for Capital Support
(Project Approval and Environmental Document Phase)

On Route

80

Between Wesibound Off-Ramp to Fremont Street
And East End of Yerba Buena Island Tunnel

APPROVAL RECOMMENDED:

PETER LEE, BATA PROJECT MANAGER, Accepts Robs
Identified in this TSR-POS and Attached Rolk Register

APPROVAL RECOMMENDED:

NID-ALTERIAN CALTRANS PROJECT MANAGER

APPROVED:

BIJAN SARTIFY DISTRET DIRECTOR

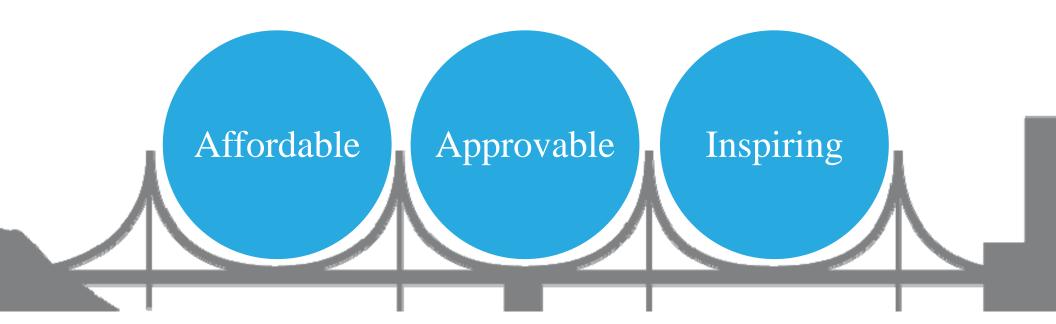
DATE

PSR-PDS (2014)



Project Goals

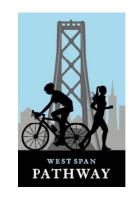
- WEST SPAN PATHWAY
- Downtown San Francisco bicycle & pedestrian link to East Bay & Treasure Island
- Facilitate and not hinder Caltrans maintenance access
- Buildable and fundable alternative

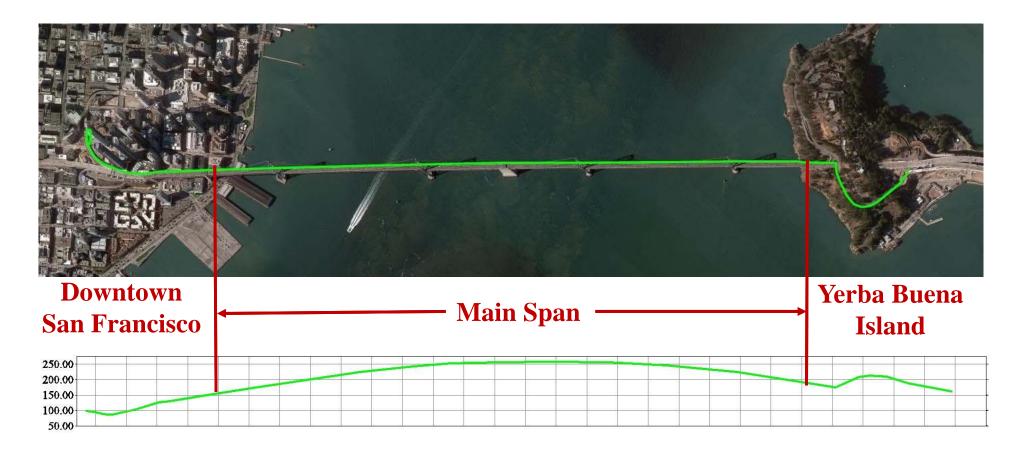




Project Description

- San Francisco touchdown ~2500 feet or ½ mile
- Main Span 10,000 feet or ~ 2 miles
- YBI touchdown and path ~ ½ mile







Project Benefits



- Transportation link from East Bay and Treasure Island to/from San Francisco.
- Connects to East Span Pathway (Bay Bridge Trail)
- Tourism, health and recreation
- Closure link for the Bay Trail
- Class 1 Protected from vehicular traffic
- Accessible (ADA) 5% or less continuous or 12H:1V w/landings



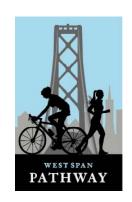
Workshop Goals

- Project information and process
- Feedback on initial alternatives
- How will you use the path?
- Where should the path connect?
- Features and Amenities
- Suggestions or Concerns





The Distance

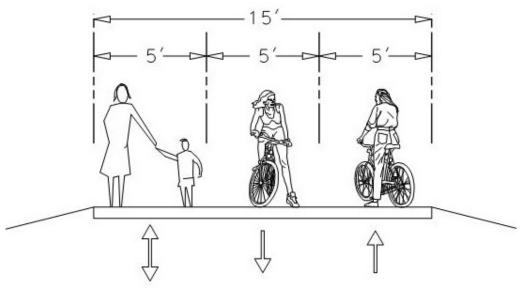


How far and how long?

Pathway Segments		Length (miles)	(mins)	(mins)
BPM Pathway		2.9	17	57
SF Approach	0.5			
Main Span (West)	2.0			
YBI Approach and Path	0.4			
Bay Bridge Trail		4.4	<i>26</i>	88
East Span	2.3			
Approach	1.1			
Emeryville(Shellmound)	1.0			
Total Bay Bridge Trail & Pathway		7.3	44	145



Pathway Section









Ohlone Greenway: El Cerrito



Pathway Width



East Span 15½'



Tilikum Crossing 2 x 14'



Golden Gate:10' max



Brooklyn 8' to 16'



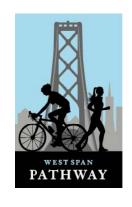
Amenities

- Benches
- Look Out
- Lighting
- Safety/ Call Boxes
- Wayfinding
- Interpretive Displays







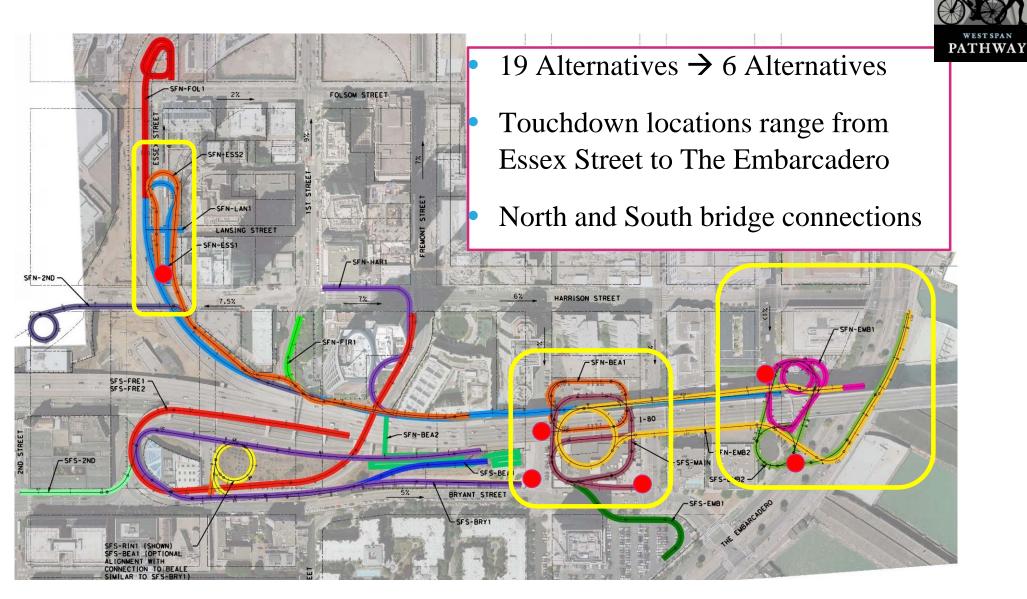






Downtown SF Approaches

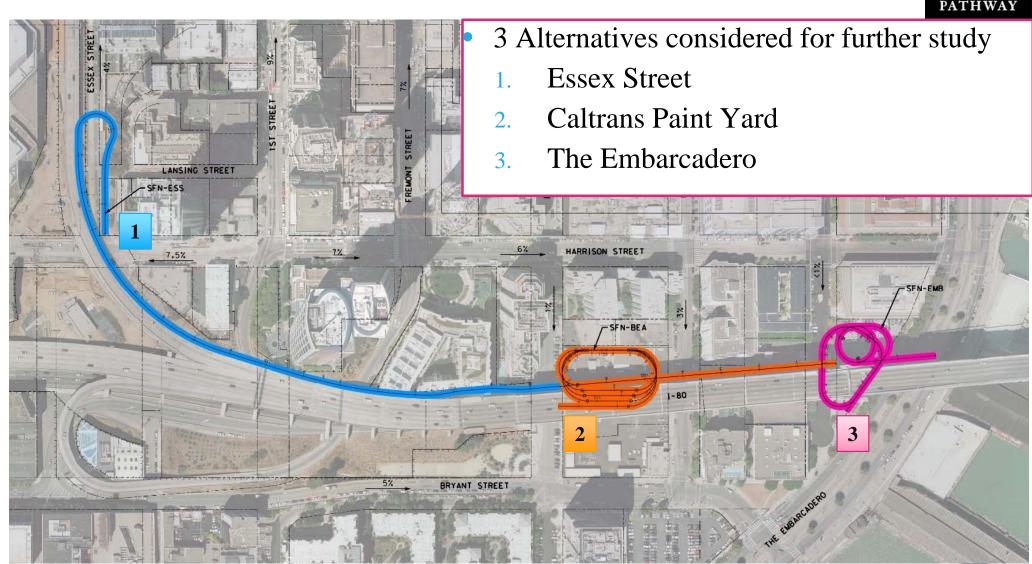
Where should the path connect in San Francisco?





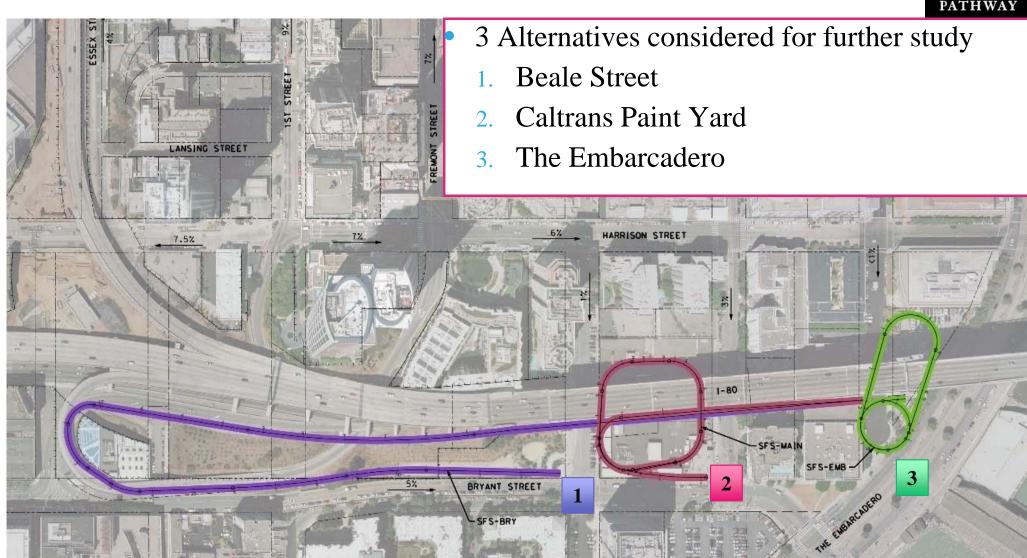
Downtown SF North Approaches





Downtown SF South Approaches

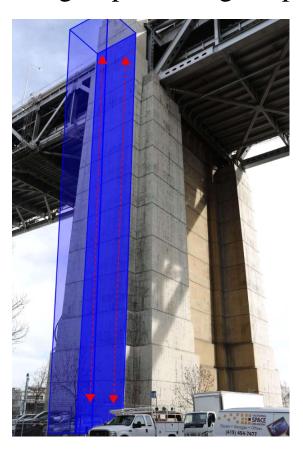


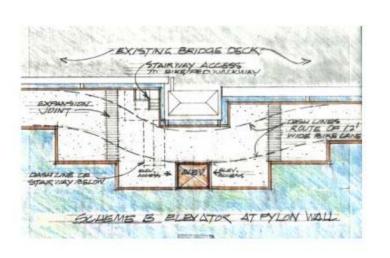


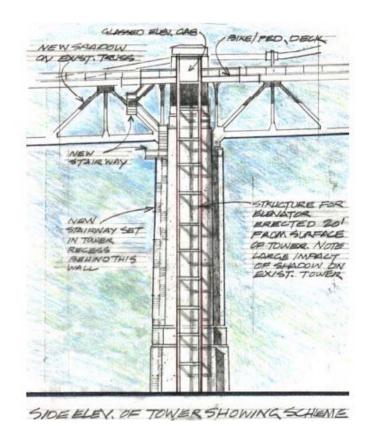


Elevator Option

- At Pier W1 touchdown just west of Embarcadero
- Elevator Only Option no ramps
- Dual High Speed high capacity



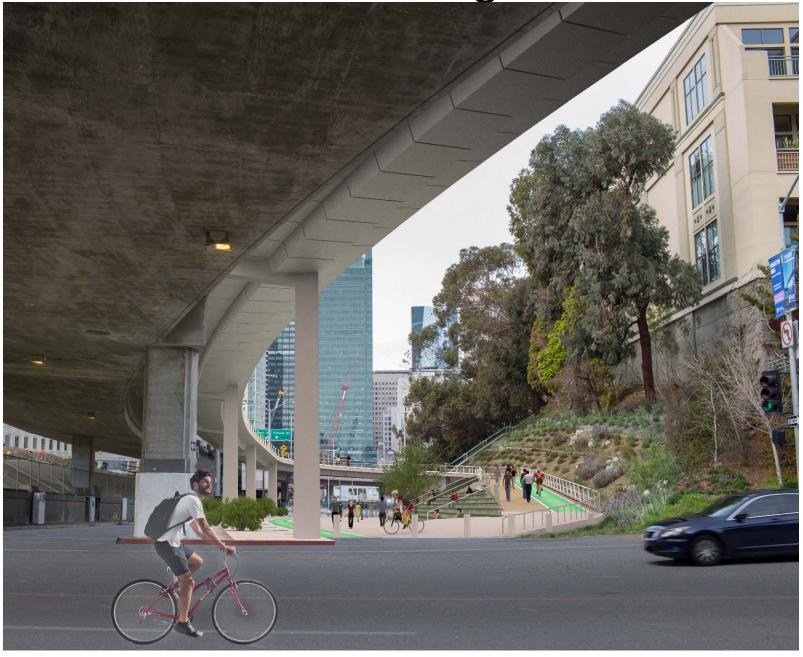






PATHWAY

Essex Street Landing







Paint Yard Landing







Embarcadero Landing

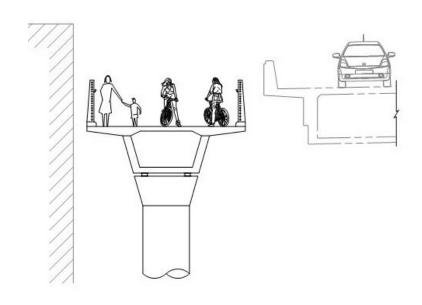




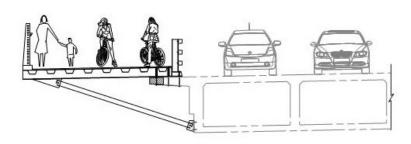


San Francisco Path Options Cross-Sections

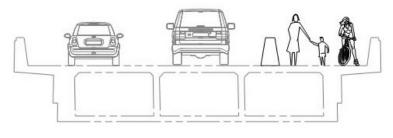




Stand-alone



Attach to Existing

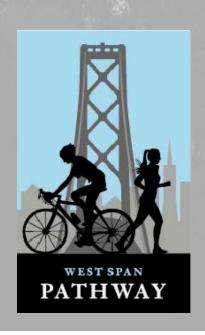


On-deck



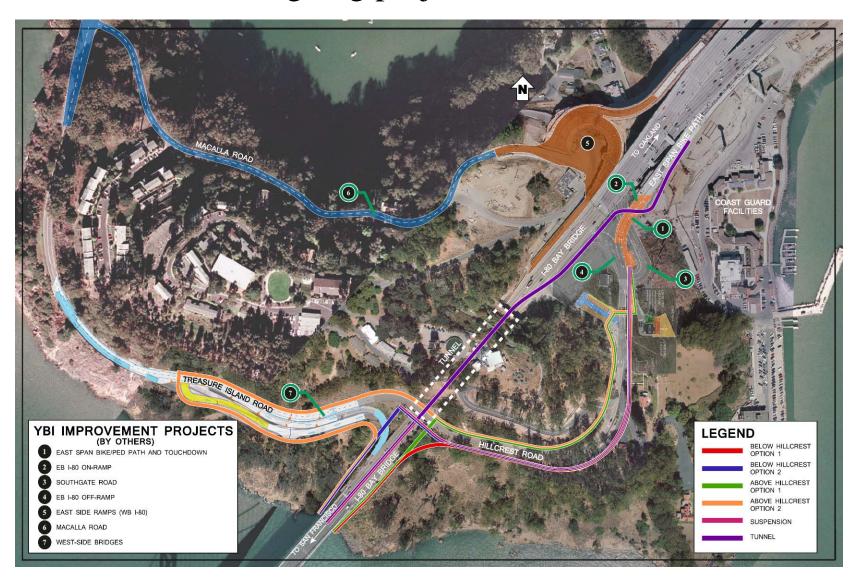
Yerba Buena Island Options





YBI Options

Interface with ongoing projects

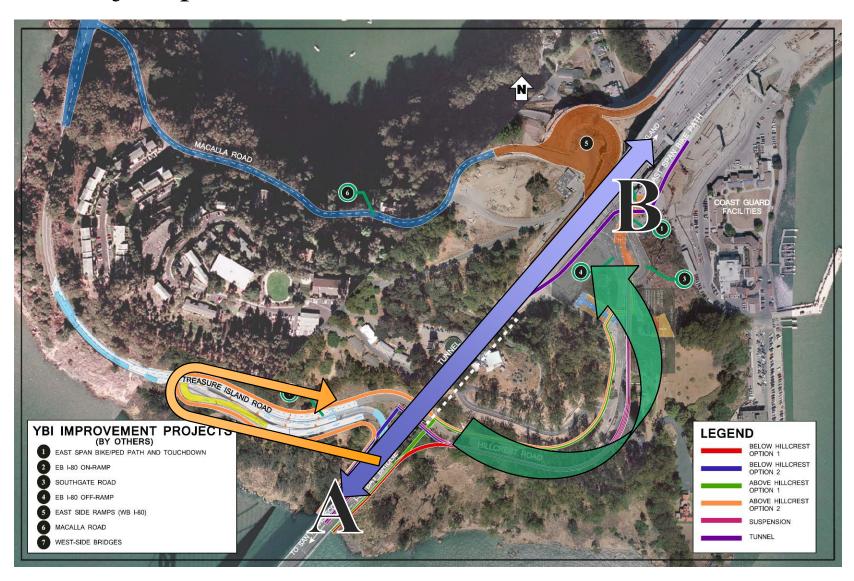


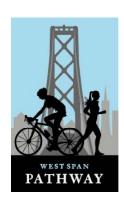




YBI Options

• 6 major options

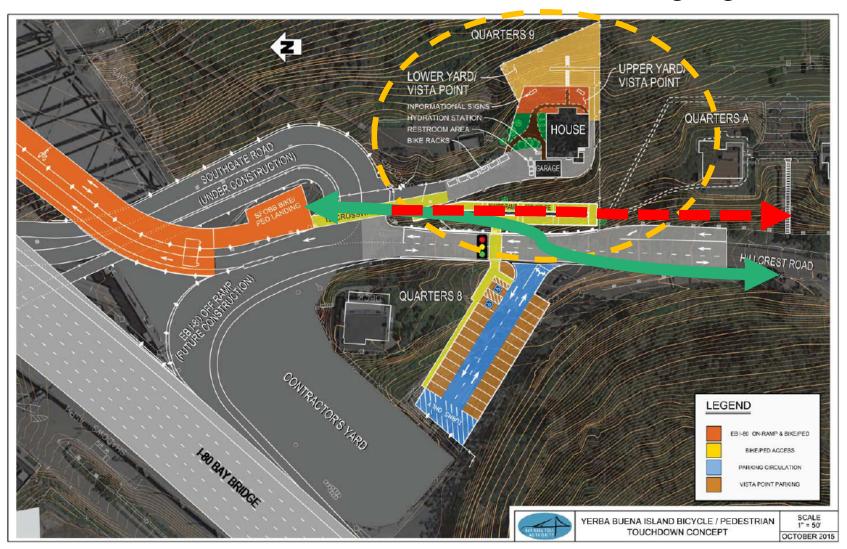






YBI - East Bike/Ped Vista Point

- Connection from East Span Trail
- Vista Point w/bathrooms, water, bike racks, signage/info

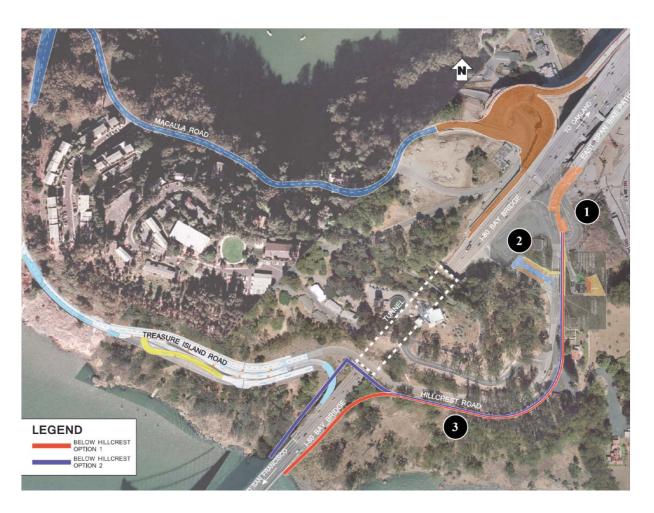


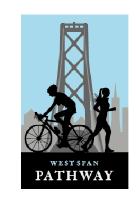


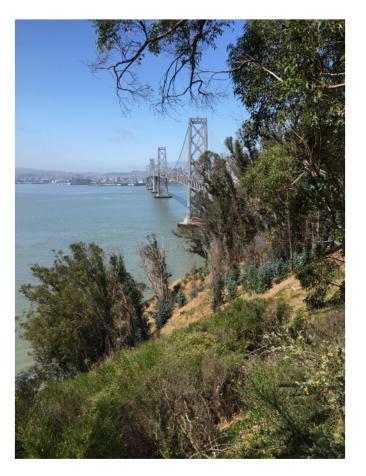


YBI - Below Hillcrest-1

- Cut or retained fill with some structures
- Interference with Cost Guard Access



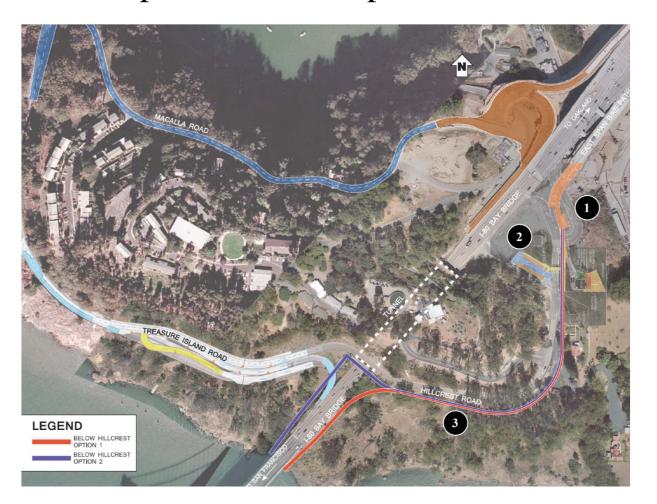


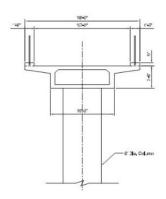




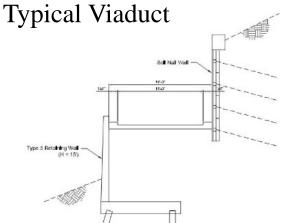
YBI – Below Hillcrest-2

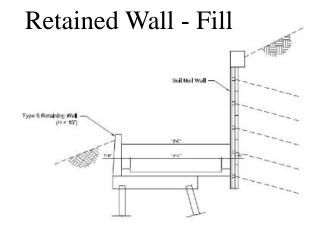
- Cut or retained fill with some structures
- Steep terrain and slopes









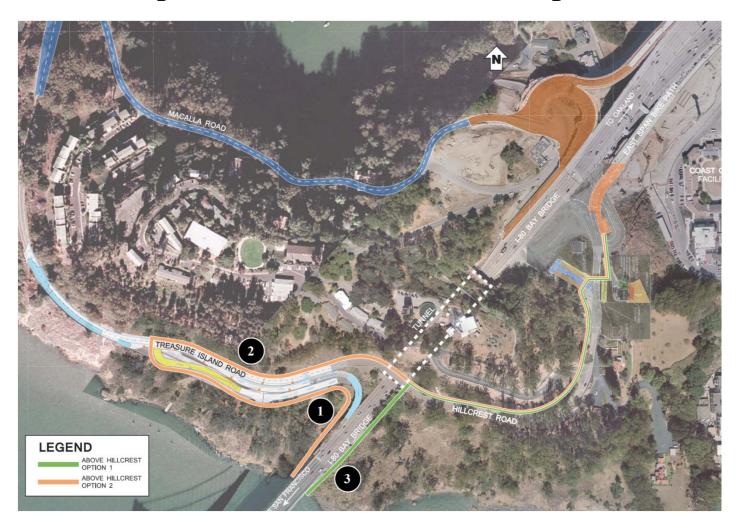


Retained Wall - Cut



YBI – Above Hillcrest – N/S

- Cut or retained fill above Hillcrest (to inside)
- North option use of west side ramps











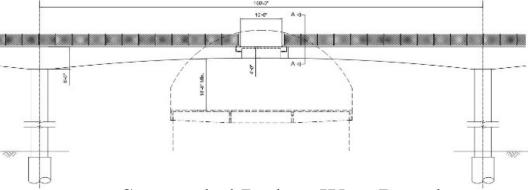
YBI - Suspended & Tunnel Options

- Tie-in to Main Span Suspended Option
- Option to continue through crown of existing tunnel









Suspended Path at West Portal

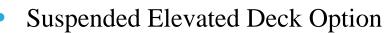




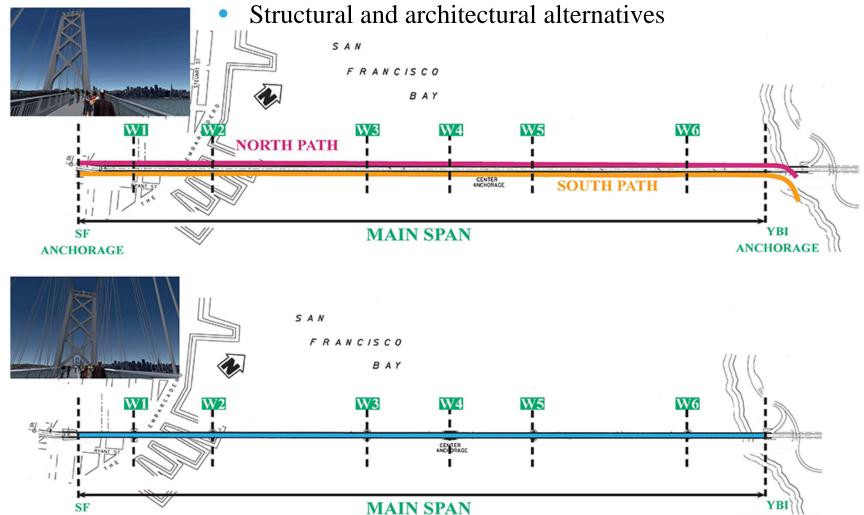
Main Span Alignments

ANCHORAGE

- North or South Options; similar alignments





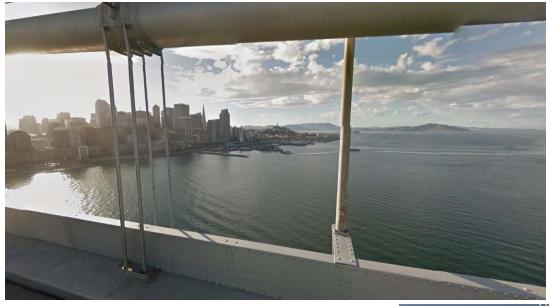




ANCHORAGE

North or South

Do you prefer the path on the north or south side of the bridge?







Propped Cantilever Options











Cantilever Beam w/Moment Connection









Pinned Boomerang Deck



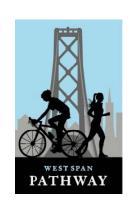


Extended Alternate





Outboard Deck w/Existing Suspension Cable









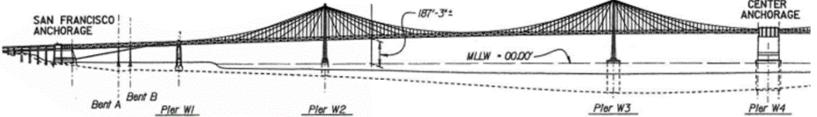
Deck Uplift w/stay cables







Tamar Bridge Path Addition





Suspended Elevated Deck



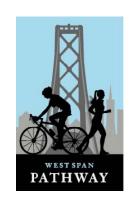


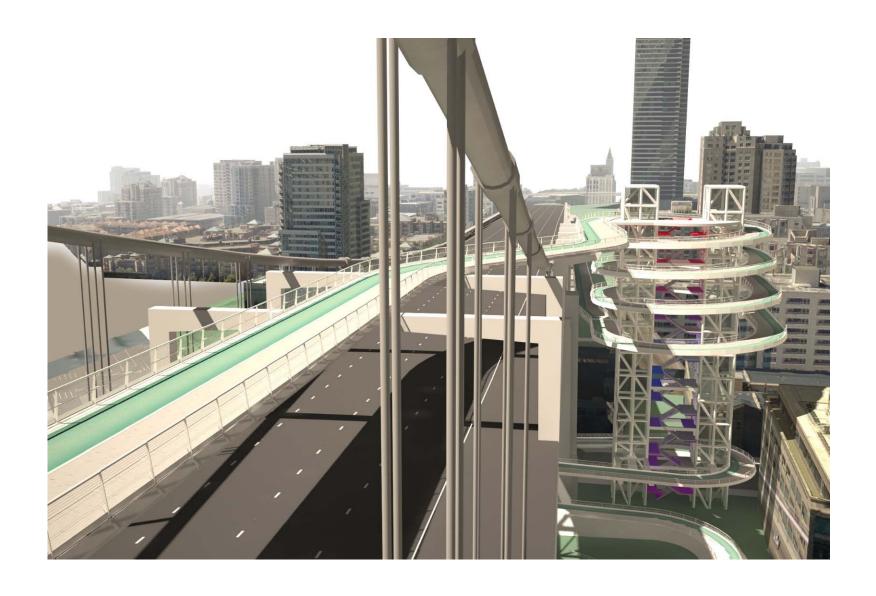






Suspended Elevated Deck

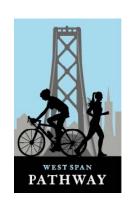






Project Timeline

Funding required to advance design and construction



Alternatives Screening

Conceptual Design

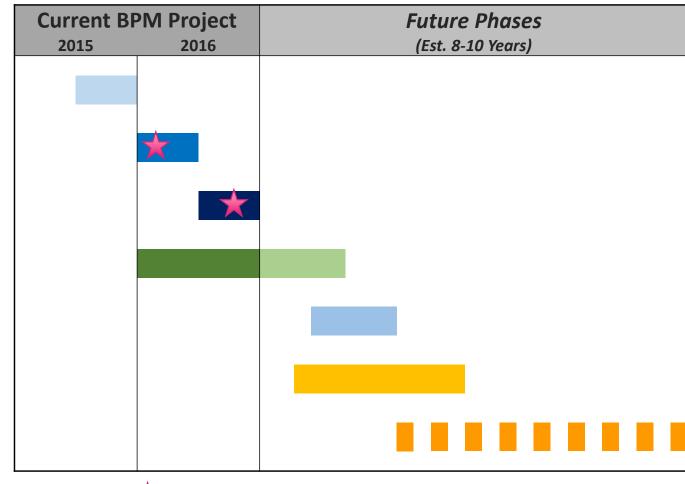
Preliminary Design

Environmental Studies

Final Design (PS&E)

Funding/Procurement

Construction







Agenda – Q&A

- Arrival (6:00)
- Presentation (6:10-6:45)
- General Q&A (6:45-7:00)
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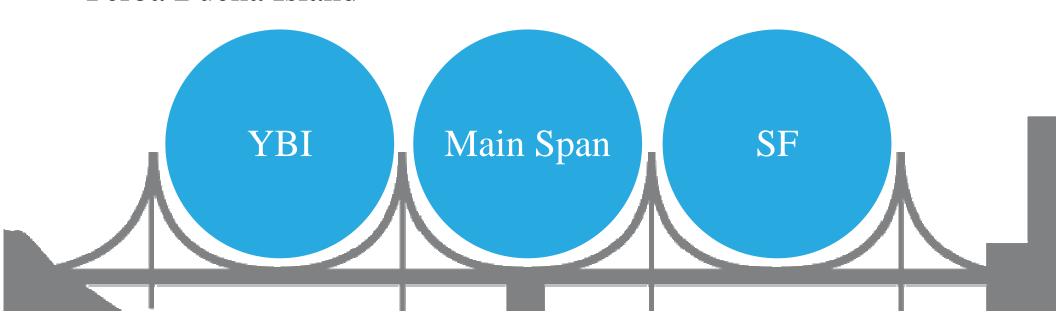
Breakout Stations

- Arrival (6:00)
- Presentation (6:10-6:45)
- General Q&A (6:45-7:00)
- Feedback Stations (7:00-7:40)
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Summary of Breakouts

- Project Overview and Planning
- San Francisco Touchdown
- Main Span
- Yerba Buena Island





Next Steps

- Evaluate Feedback inform design process
- Conceptual design and initial cost estimates
- 2nd Workshop Fall 2016
- Complete Environmental Studies
- Final Design
- Funding
- Construction



Thank you!