

# Pennsylvania Avenue Extension (PAX) Project

Project Update



San Francisco  
County Transportation  
Authority

TJPA CAC  
July 11, 2023

# PAX Project Background

- **Railyard Alignment & Benefits Study (SF Planning – Completed 2018)**
  - Established neighborhood connectivity, safety, rail operations, and traffic goals
  - Studied undergrounding the at-grade crossings in the area to address local traffic challenges
  - Established the PAX alignment, extending south from the 4th & King Railyards to continue the tunneled alignment of The Portal / DTX
- **Southeast Rail Station Study (SF Planning – Completed 2022)**
  - Studied potential future station locations within San Francisco in the Dogpatch and Bayview
- **PAX Initiation Study (SFCTA – Completed 2022)**
  - Evaluated multiple tunnel alternative alignments south of DTX interface
  - Considered project constraints and narrowed range of feasible alternatives



# PAX Project Purpose & Goals

## Purpose

Grade separate the existing at-grade rail crossings at Mission Bay Drive and 16th Street

GOALS	DESCRIPTION
Improve Street Connectivity	Increase connectivity between Mission Bay, Potrero Hill, and Design District/SOMA neighborhoods
Improve Rail Operations	Allow for more efficient Caltrain operations and service planning
Improve Surface Safety	Improve pedestrian, bike, and vehicular safety on surface streets
Improve Quality of Life	Decrease congestion, improve air quality, and reduce noise

# PAX Project Development

2020-22

Project Initiation Study (planning/ concept design)



~18 months  
Starting Fall 2023

Pre-Environmental Bridging Study



Future Phase

Environmental

## Key Outcomes:

- Developed and narrowed feasible alternatives
- Prepared planning-level cost estimate
- Advanced assessment of project interfaces

- Refine technical understanding of options, to further define/narrow alternatives to advance to environmental
- Public and stakeholder engagement

- Combined CEQA/NEPA
- Initiate preliminary design
- Funding Plan development

# PAX Initiation Study Key Outcomes

## 1. Developed & narrowed down feasible alignment alternatives

- Three broad families of alternatives identified

## 2. Developed preliminary capital cost estimates for alternatives

- Capital cost of approximately \$2.0-2.5 billion (excluding 22<sup>nd</sup> Street Station-related costs)

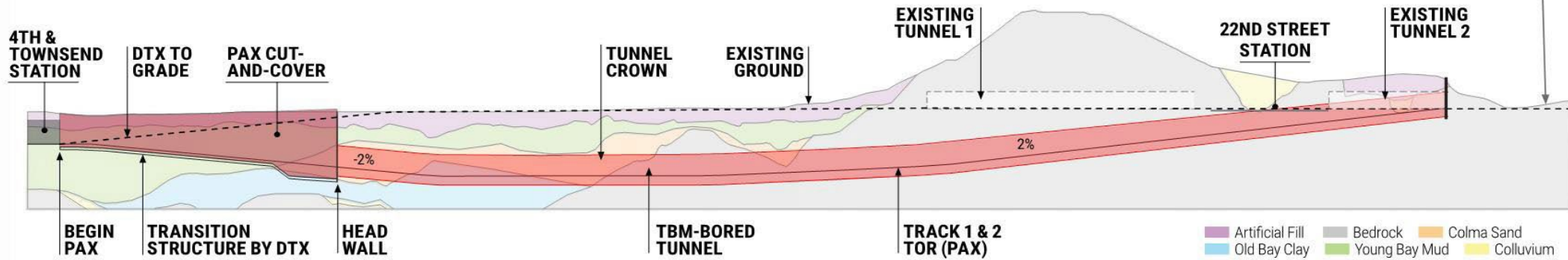
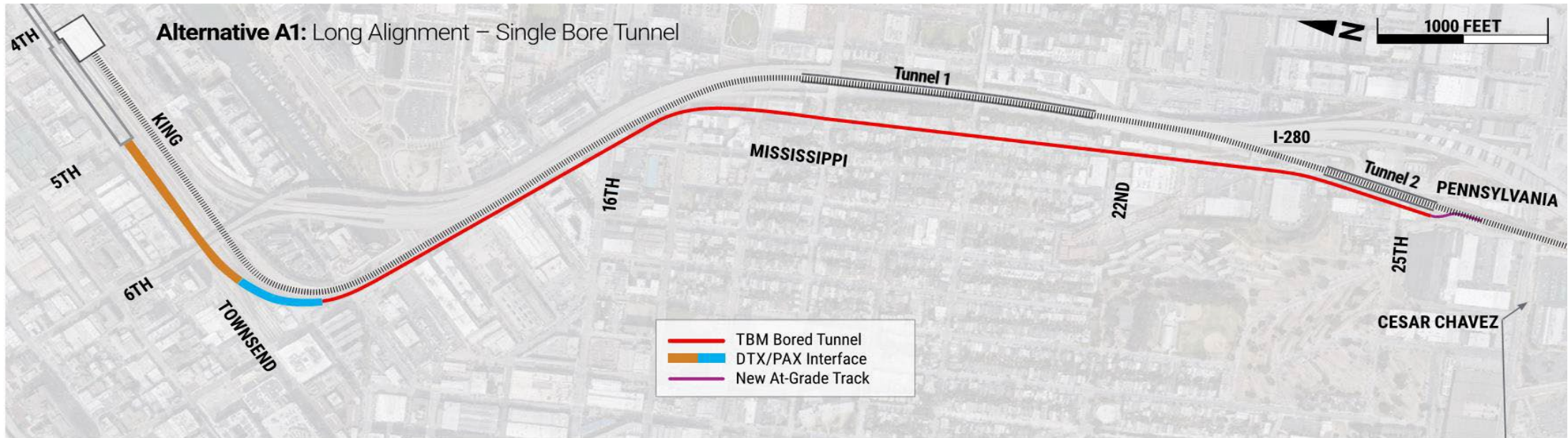
## 3. Advanced assessment of project interfaces

- The Portal / DTX project
- Railyards site
- Existing corridor infrastructure



Source: Google Earth; SFCTA

# Example Alternative



# Next Steps: PAX Pre-Environmental Bridging Study

Next phase of project planning and development for the PAX project, to prepare the project for potential advancement to environmental review phase:

- **Alternatives Refinement and Analysis**

- Identification of 1-2 most viable alternatives
- Integration of Station-related design and cost consideration
- Assessment of opportunities to reduce costs and risks
- Coordination of advanced project interface design for Railyards and The Portal / DTX

- **Implementation Approach**

- Environmental phase approach
- Funding strategy development

- **Public and Stakeholder Engagement**

- Development of project information
- Public outreach

- **Related Project Coordination**

- The Portal (TJPA)
- Railyards Preliminary Business Case (Caltrain/Prologis)
- Bayview Station Study (SFCTA)

# Thank you.

[sfcta.org](https://sfcta.org)

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