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of Transportation  
**Federal Railroad  
Administration**

# Welcome

# California High-Speed Rail Authority

# Public Meeting

## San Jose to Merced

## High-Speed Train Project



# How to Participate



- Talk to high-speed train members
- Fill in and drop off comment cards
- Add your e-mail to our mailing list
- For more information after this meeting:

**CALL: (800) 881-5799**

**VISIT: [www.cahighspeedrail.ca.gov](http://www.cahighspeedrail.ca.gov)**

**E-MAIL: [highspeedrail@circlepoint.com](mailto:highspeedrail@circlepoint.com)**



# What are High-Speed Trains?



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- Intercity passenger trains operating at maximum speeds of at least 200 miles per hour
- Tracks separated from roads and highways
- Proven technology – Safe and reliable and successfully operating throughout Europe and Asia



*CHSRA Train Concept*

## *Other High-Speed Trains around the World*



*TGV, France*



*Intercity Express,  
Germany*



*Shinkansen, Japan*



# Statewide High-Speed Rail System



- 800-mile system with stations built to allow for express service
- Service linking Southern, Central Valley and the San Francisco Bay Area
- Grade-separated from vehicles, pedestrians and other rail traffic
- Steel wheel-on-steel rail with 100% clean electric power



# Purpose and Need



## Purpose of the High Speed Train Project

- Provide a new mode of high-speed intercity travel that would link major metropolitan areas
- Interface with international airports, mass transit, and highways
- Provide added capacity to meet increases in intercity travel demand in California in a manner sensitive to and protective of California's unique natural resources

## Current and Projected Need; Helps to Address:

- Accommodation of expected growth in population
- Increases in intercity travel demand
- Increases in travel delays arising from the growing congestion on California's highways and at airports
- Negative effects on the economy, quality of life, and air quality in and around California's metropolitan areas
- Intercity highway system, commercial airports, and conventional passenger rail serving the intercity market at or near capacity



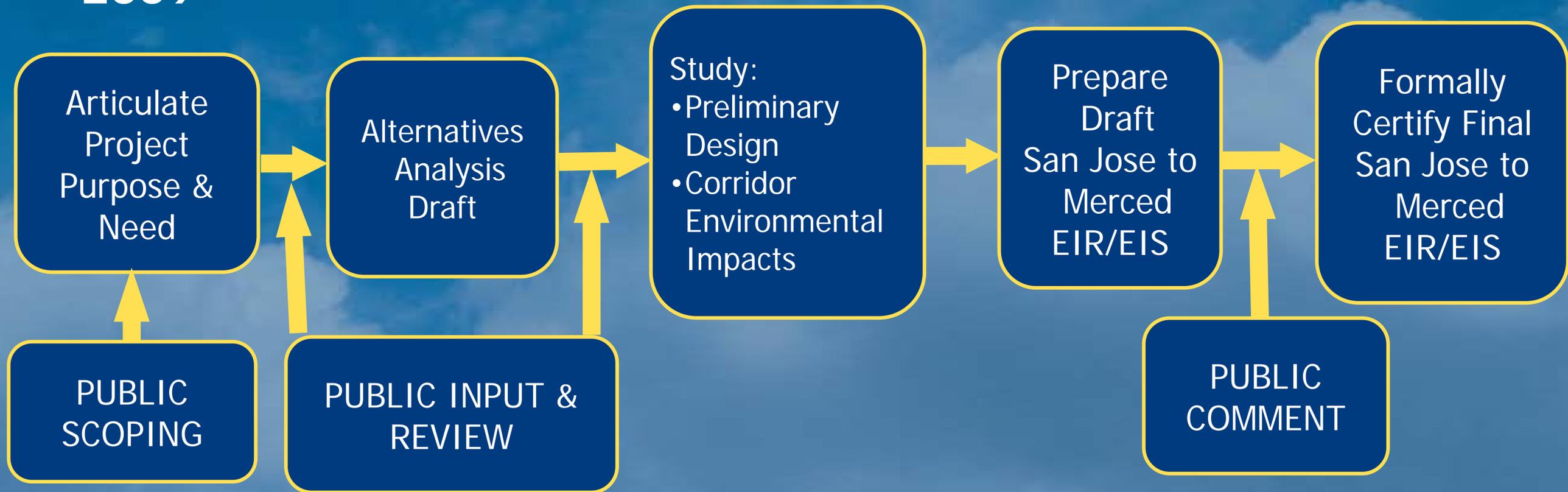
# HST Project Process



## San Jose to Merced HST Project Environmental Impact Report/ Environmental Impact Statement (EIR/EIS)

2009

2012



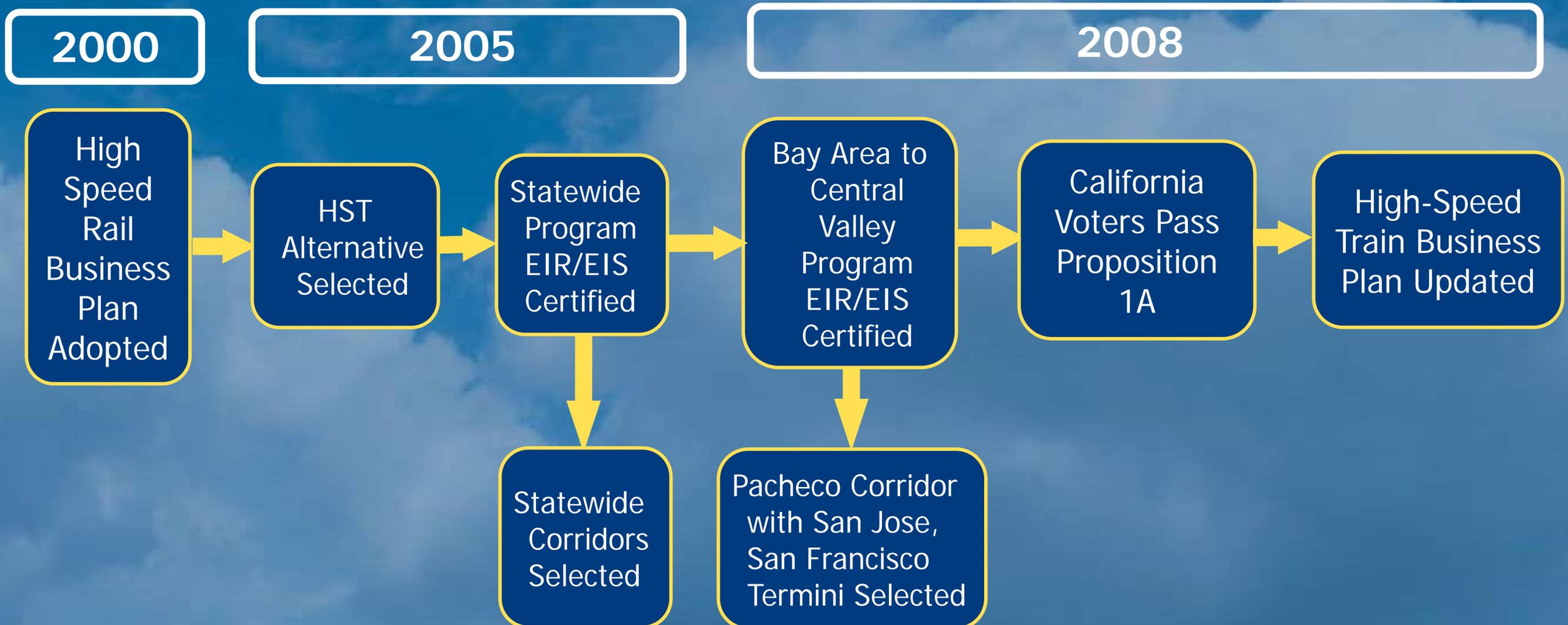
Ongoing Community & Agency Meetings, Interviews, Communications



# CA High-Speed Train Prior Milestones



## California High Speed Train Program History to Date





# Alternatives Analysis



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Ongoing Community & Agency Meetings, Interviews, Communications



# Program Corridor



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SOURCE: ESRI Streetmap USA (2008)



# Grade Separations

- Grade separations are underpasses and overpasses where roadways cross railroad tracks
- Grade separations reduce congestion and noise and improve safety
- California High-Speed Rail tracks will be grade-separated from adjacent roadways



*Before*

**Pacheco Overpass**

*After*



*Before*

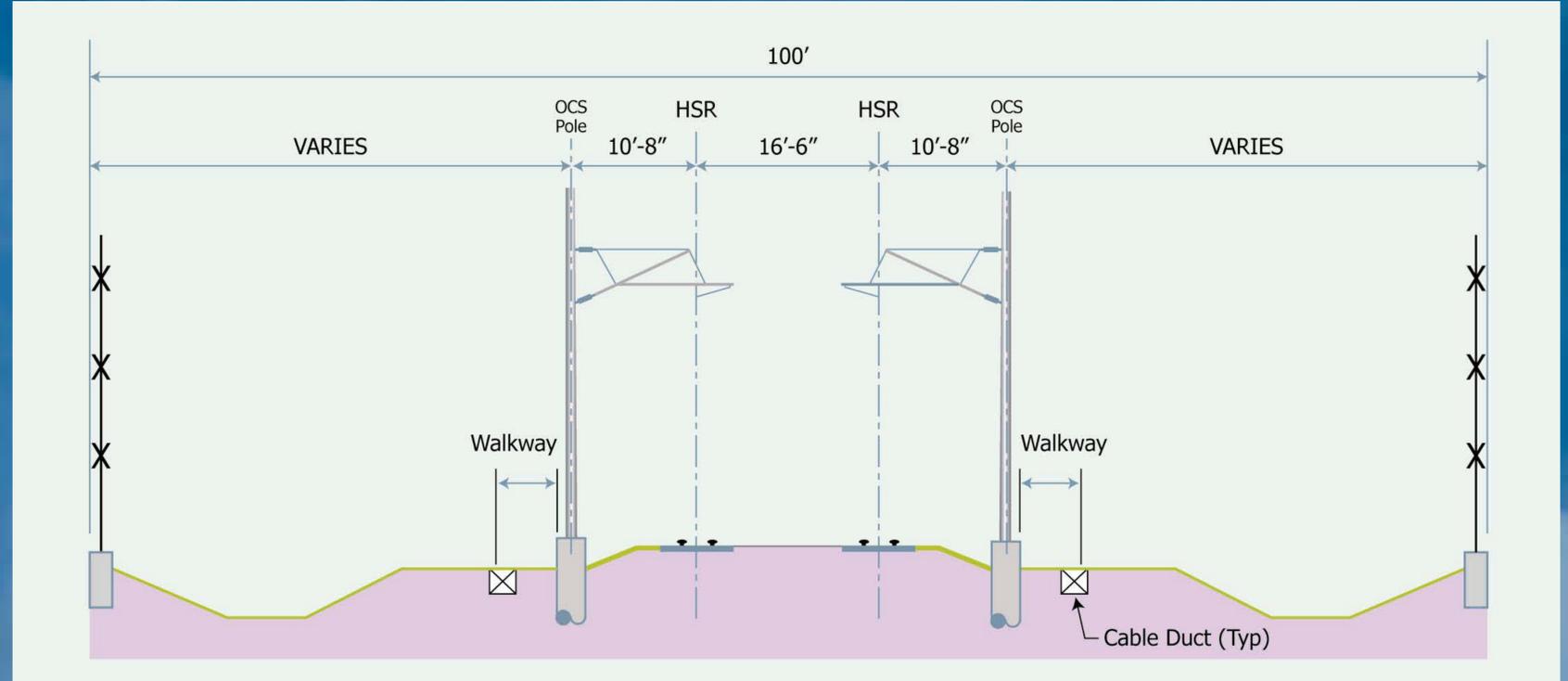
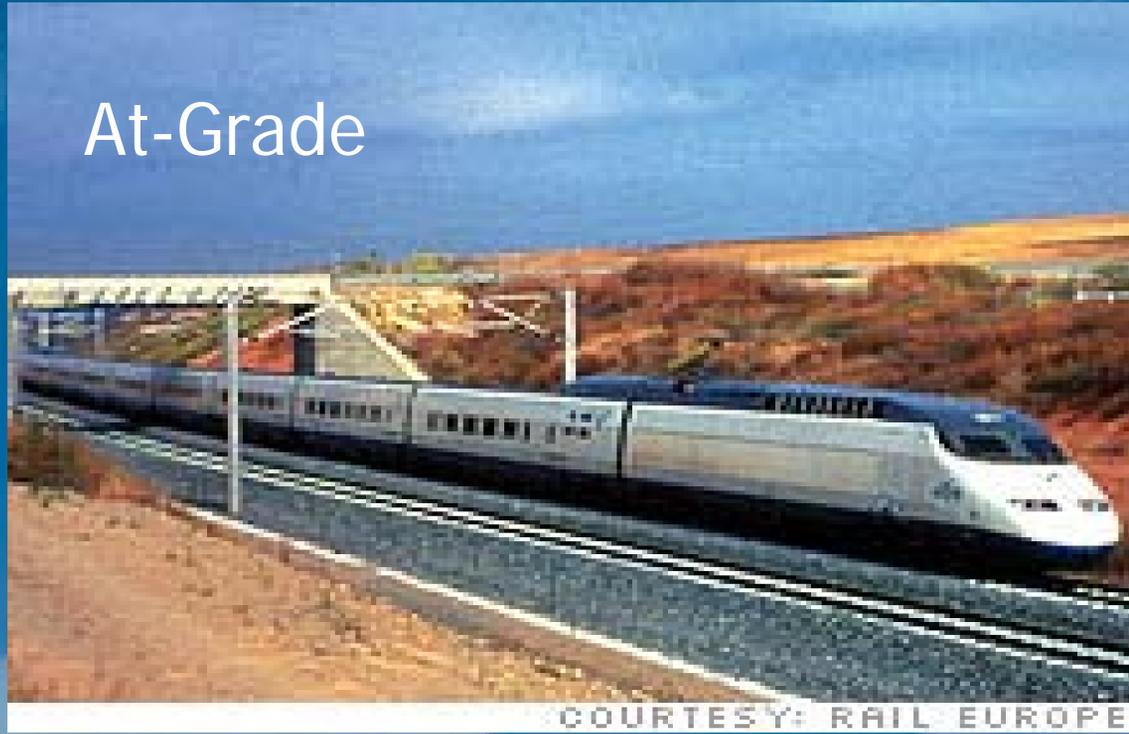
**Typical Underpass**

*After*



# At-Grade Examples

At-Grade



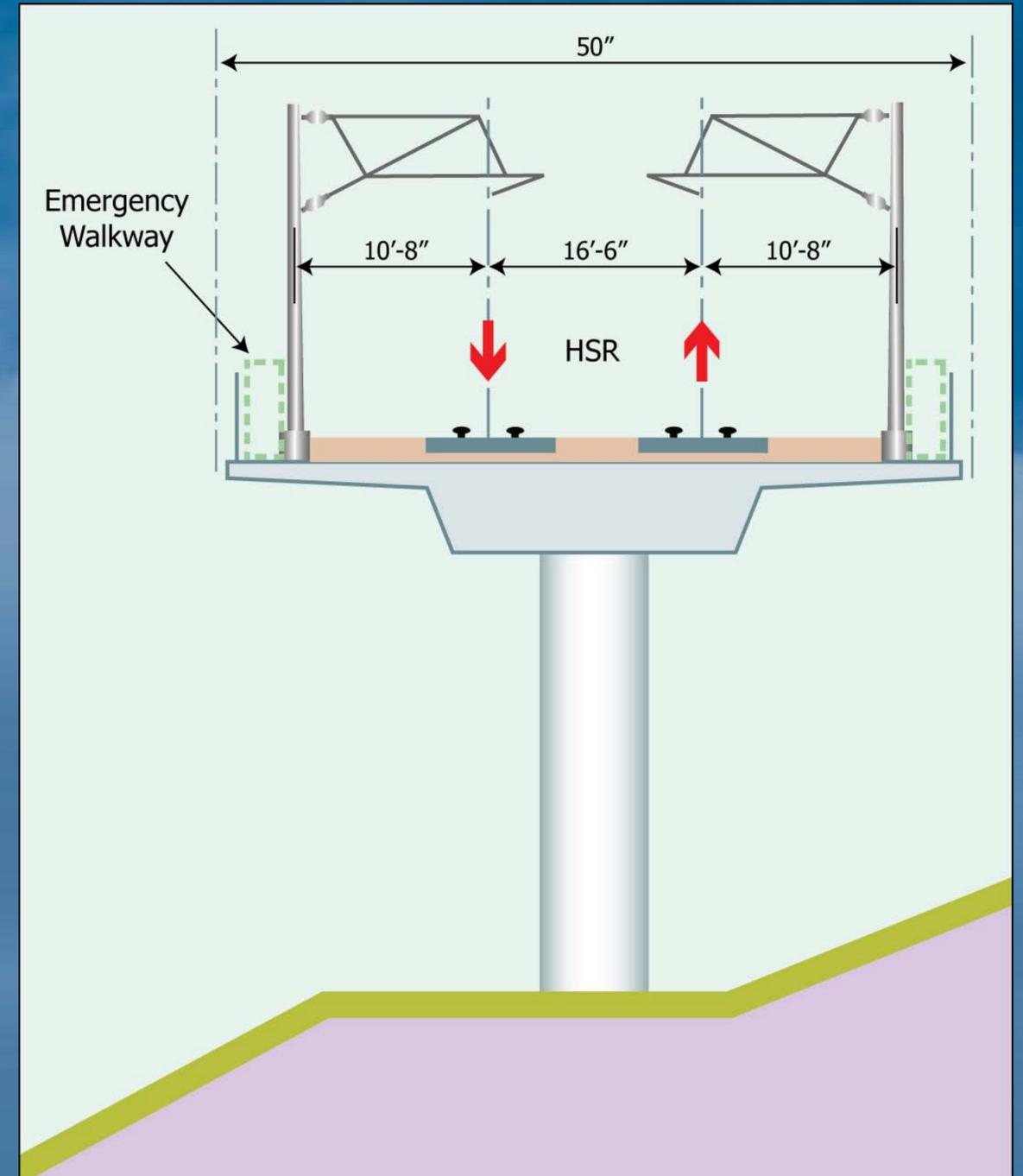
At-Grade On Embankment



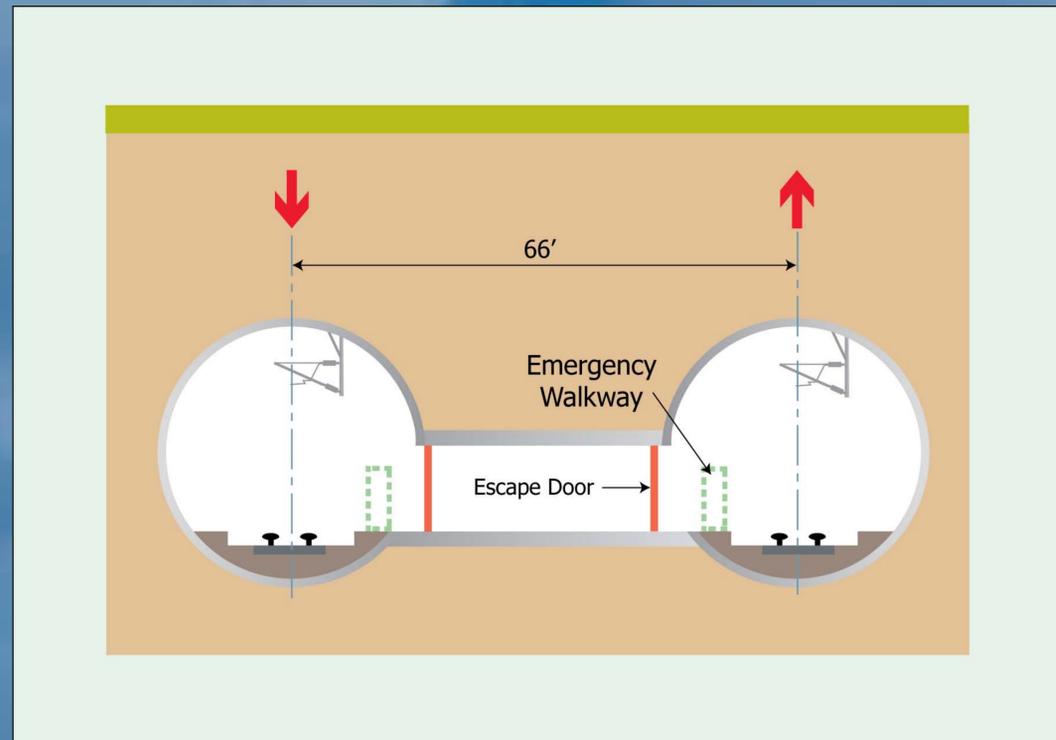
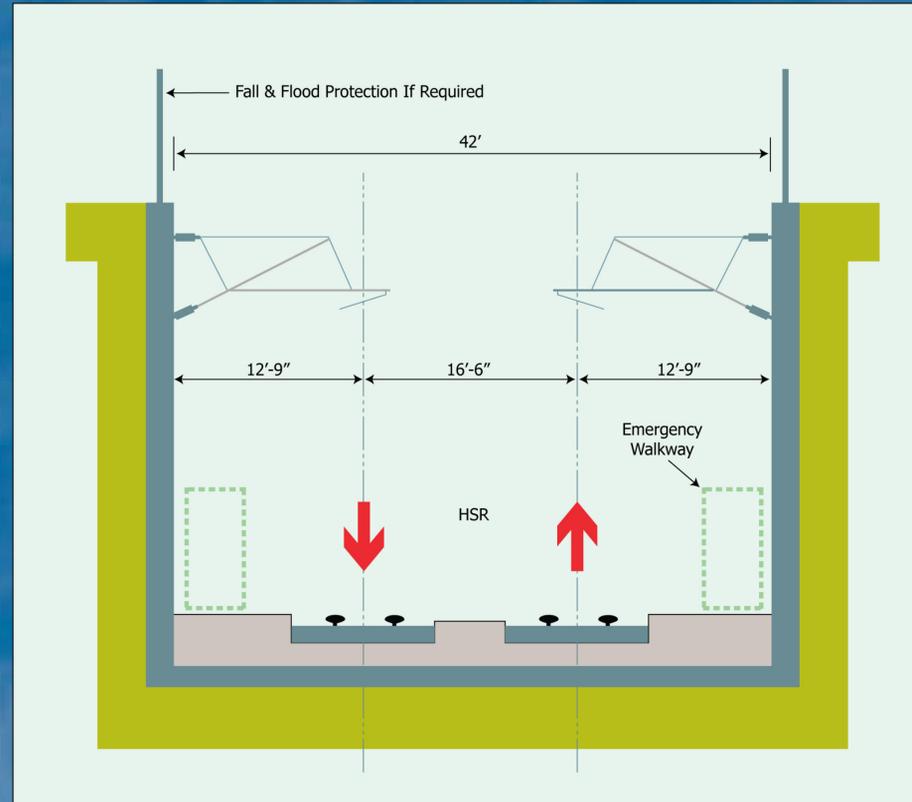
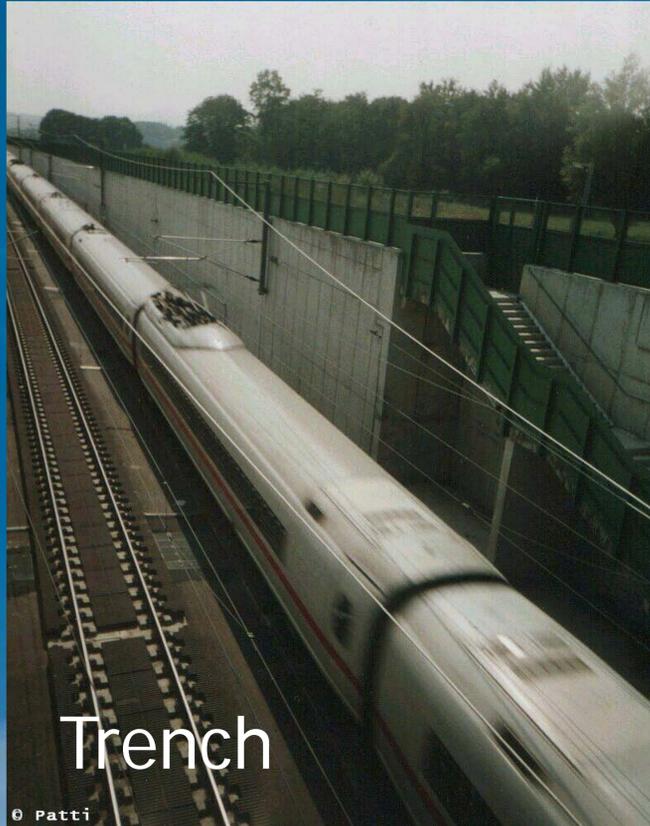
At-Grade In Cut



# Aerial Examples



# Tunnel & Trench Examples

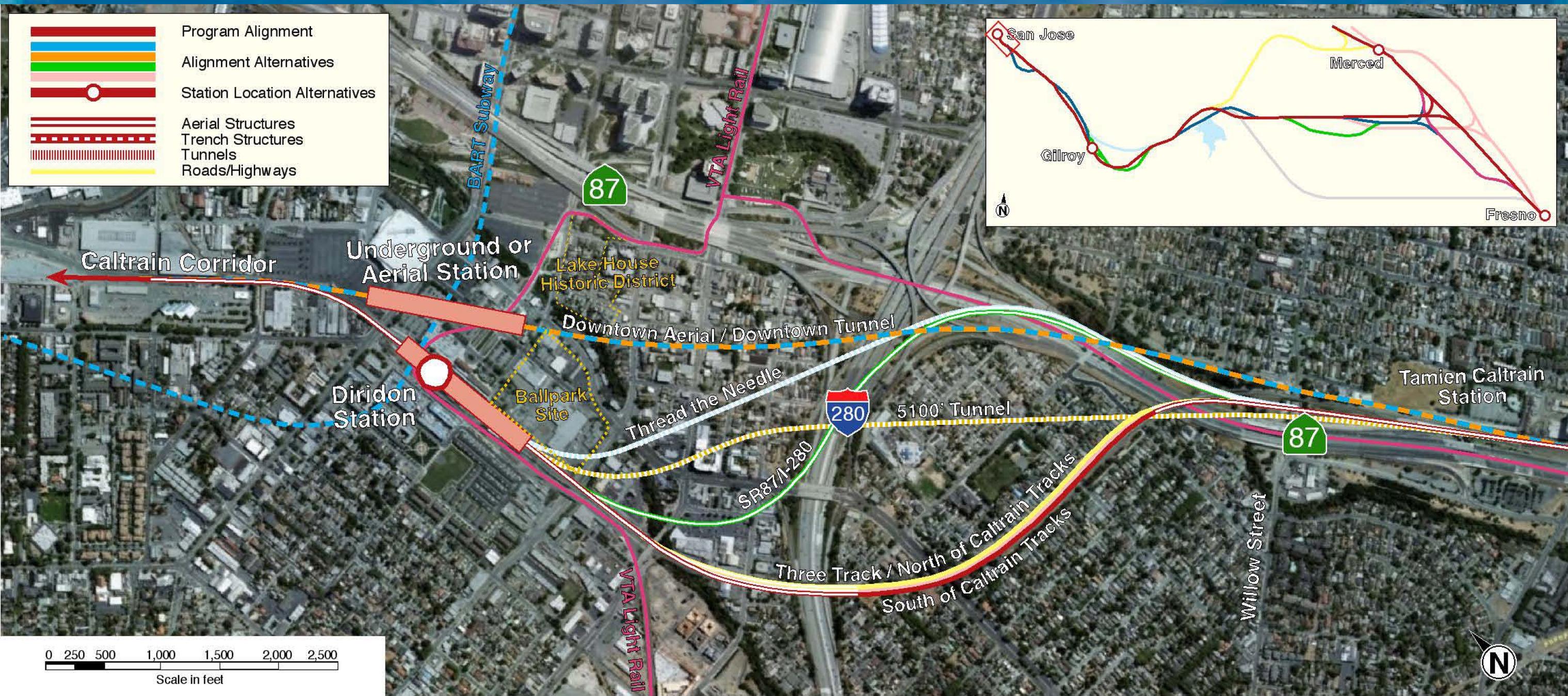




# San Jose Near Station Alignments



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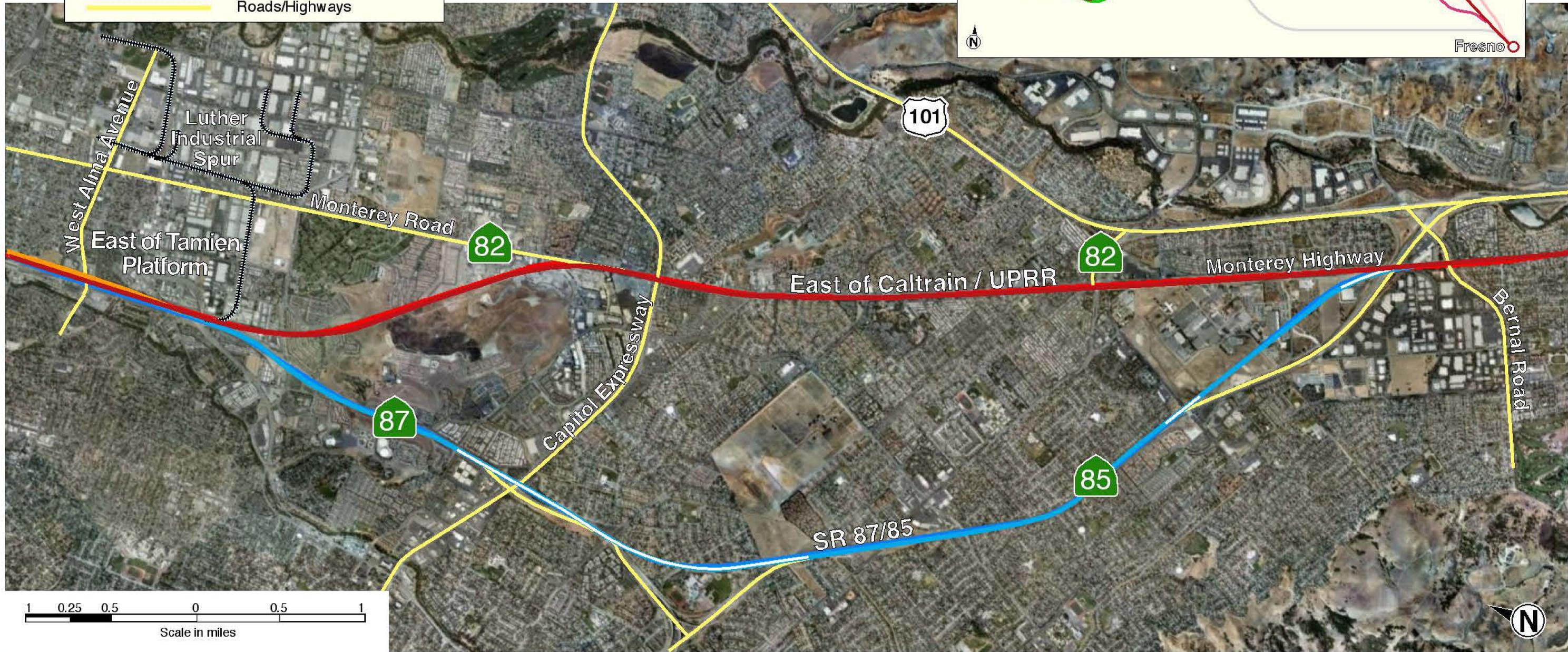


# Monterey Highway Alignments



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- Program Alignment
- Alignment Alternatives
- Station Location Alternatives
- Aerial Structures
- Trench Structures
- Tunnels
- Roads/Highways

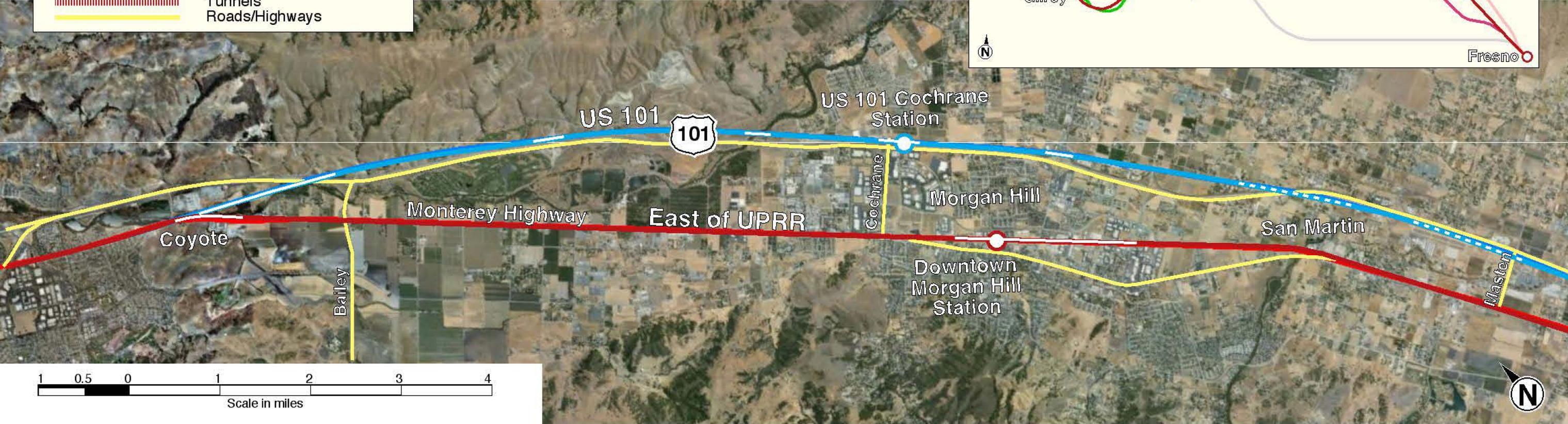




# Morgan Hill Alignments



- Program Alignment
- Alignment Alternatives
- Station Location Alternatives
- Aerial Structures
- Trench Structures
- Tunnels
- Roads/Highways

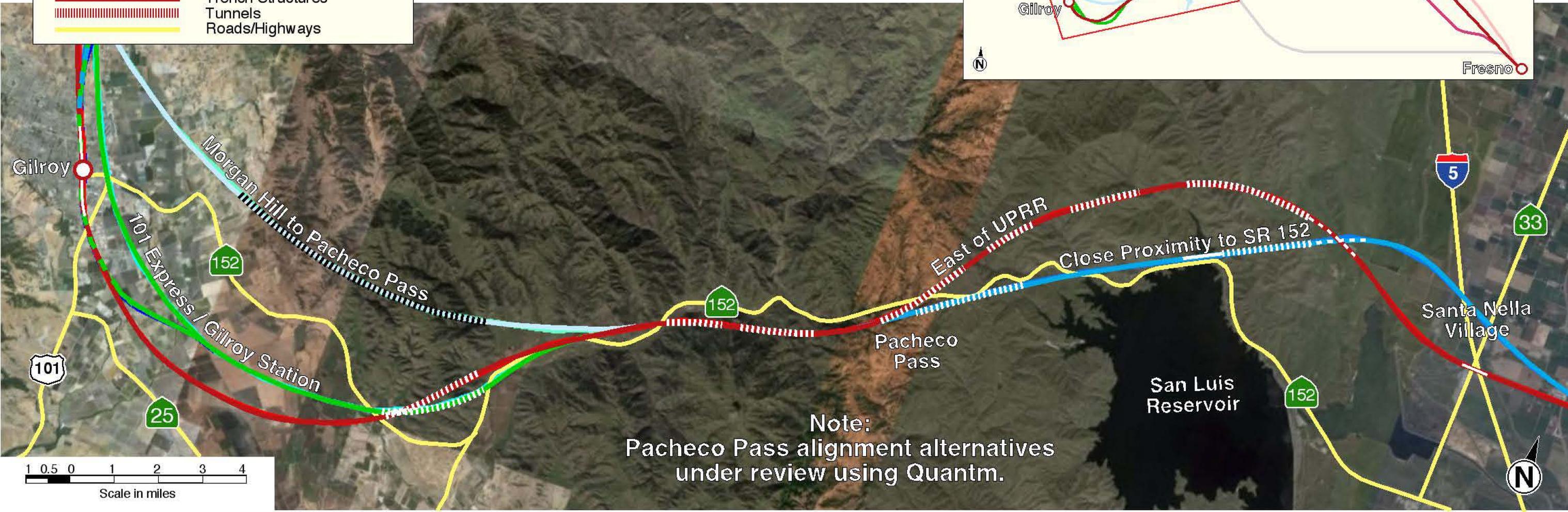
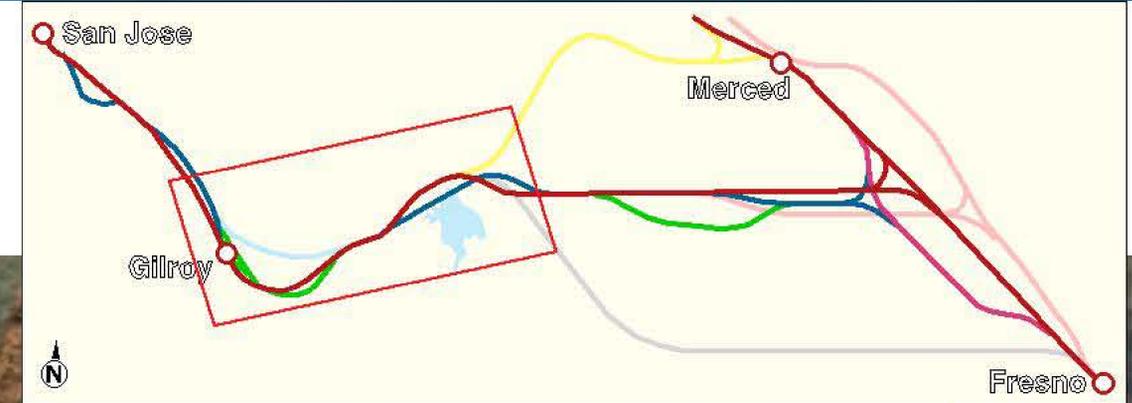




# Pacheco Pass Alignments



- Program Alignment
- Alignment Alternatives
- Station Location Alternatives
- Aerial Structures
- Trench Structures
- Tunnels
- Roads/Highways



Note:  
Pacheco Pass alignment alternatives  
under review using Quantm.



# San Joaquin Valley Alignments



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