AGENDA

- Caltrain System Overview
- Project Overview
- San Francisco Construction Activities
- Questions
CALTRAIN SYSTEM

- 32 Stations Gilroy to San Francisco
- 92 Weekday Trains
- At-Grade Crossings, Viaducts, and Bridges
- Intermodal Connections
- Bike Commuters

PROJECT DESCRIPTION

Project Area

- 51 miles
- San Francisco to San Jose (Tamien Station)

Project Elements

Electrification
- Overhead Contact System (OCS)
- Traction Power Facilities

Electric Trains*
- 19 7-car train sets
- 133 electric cars

*Includes 2018 State TIRCP Funding
PROJECT DESCRIPTION

Service Elements

- **Speed**
  - Up to 79 mph

- **Service Increase**
  - 6 trains / hour / direction
  - More station stops / reduced travel time
  - Restore Atherton & Broadway service

- **Mixed-fleet Service**
  - (interim period)

- **Continue Tenant Service**
  - ACE, Capitol Corridor, Amtrak, Freight

PROJECT BENEFITS

- **Improved Train Performance, Increased Service and Greater Capacity**

- **Improved Regional Air Quality and Reduced Greenhouse Gas Emissions**

- **Positive Economic Benefits for the Region**

- **Reduced Engine Noise Emanating from Trains**

- **Increased Revenue and Reduced Fuel Cost**
**SCHEDULE**

**CONSTRUCTION PHASING**

- 51 Miles Corridor
- 4 Work Segments
- 3,000 Poles
- 10 Traction Power Facilities

*Note: Schedule subject to change*
# SAN FRANCISCO

![Map of San Francisco with various stations and tunnels marked](image)

## FIELD WORK PROGRESSION

<table>
<thead>
<tr>
<th>Work Completed</th>
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<tbody>
<tr>
<td>• Utility Survey</td>
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<tr>
<td>• Geotechnical Studies</td>
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<td>• Disposal of Soil from Geotechnical Investigations</td>
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<tr>
<td>• Soil Resistivity Testing</td>
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<tr>
<td>• Site Surveys</td>
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<td>• Signal Cable Inspections</td>
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<thead>
<tr>
<th>Work In Progress</th>
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<tr>
<td>• Tree Pruning/Removal</td>
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<tr>
<td>• Potholing</td>
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<tr>
<td>• Tunnel Work</td>
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<tr>
<th>Future Work</th>
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<tbody>
<tr>
<td>• Foundation Installation</td>
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<tr>
<td>• Pole Installation</td>
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<tr>
<td>• Wire Installation</td>
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<tr>
<td>• Paralleling Station</td>
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# FUTURE CONSTRUCTION

San Francisco

<table>
<thead>
<tr>
<th>Date</th>
<th>Work Activity</th>
<th>Expected Completion</th>
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<tbody>
<tr>
<td>In Progress</td>
<td>Tree Pruning/Removal</td>
<td>Summer 2020</td>
</tr>
<tr>
<td>In Progress</td>
<td>Potholing</td>
<td>Summer 2020</td>
</tr>
<tr>
<td>In Progress</td>
<td>Tunnel Work</td>
<td>Spring/Summer 2020</td>
</tr>
<tr>
<td>Summer/Fall 2020</td>
<td>Foundation Construction</td>
<td>Late 2020</td>
</tr>
<tr>
<td>Summer/Fall 2020</td>
<td>Pole/Wire Installation</td>
<td>Late 2020</td>
</tr>
<tr>
<td>Summer/Fall 2020</td>
<td>Paralleling Station Construction</td>
<td>Late 2020</td>
</tr>
</tbody>
</table>

*Expected duration indicates first and last day of activity. Number of actual work days will be fewer.

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# POTHOLING

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11

Caltrain

12
SAN FRANCISCO TUNNEL WORK

• Work on the four San Francisco Tunnels:
  – Overhead Contact System Installation
  – Grouting and Notching
  – Drainage and Track Work
• September 2018 through Summer 2020
• 24 hour weekend work
• Additional weekend shutdowns may be needed

FOUNDATION CONSTRUCTION

• Excavation
• Rebar and Anchor Installation
• Electrical Grounding
• Concrete Fill
FOUNDATION INSTALLATION

POLE INFORMATION

• 3,000 Installed throughout Corridor
  • Approx. 300 poles in San Francisco
• Pole Height: 30-50’
• Pole Spacing: ~180’ apart
POLE TYPES SAN FRANCISCO

Single Track Cantilever  Two Track Cantilever  Center

Example of Poles Planned for Use in San Francisco

POLE TYPES SAN FRANCISCO

Portal  Headspan

Example of Poles Planned for Use in San Francisco
POLE INSTALLATION

STRINGING WIRE
TRACTION POWER FACILITIES

- 10 Traction Power Facilities Installed throughout Corridor
  - 2 Paralleling Stations installed in San Francisco
  - Gantry structures up to 50’
- Provides electrical power to trains through the Overhead Contact System
- Unmanned station
- Day and weekend construction work
- Limited night work during construction

PARALLELING STATION-1 LOCATION
PARALLELING STATION-1

PARALLELING STATION-2 LOCATION
EXAMPLE PARALLELING STATIONS

CONSTRUCTION INFORMATION

- Work will occur during day and night
- Some 24 hour weekend work
- Crews will utilize acoustical barrier blankets and position lights away from homes
- Dedicated hotline for construction complaints
PUBLIC OUTREACH

• Subscribe to Weekly Updates
  – Visit www.calmod.org/get-involved
• Social Media
• Construction Outreach Office
• Additional Community Meetings
  • Pole Installation
WHAT’S NEXT

• Caltrain Business Plan
  – Caltrain2040.org
• High-Speed Rail Blended System
  – hsr.ca.gov
• Caltrain Downtown Extension
  – sfcta.org/transbay-transit-center
• Diridon Concept Plan
  – DiridonSJ.org

CALMOD CONTACT INFORMATION

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