

CalMod



Peninsula Corridor Electrification Update Meeting

Burlingame Community Meeting

August 1, 2018



Agenda

- Project Overview Recap
- Project Update
 - Progression & Changes
 - Construction Activities
- Electrification Infrastructure
 - Burlingame Activities
- Questions



Caltrain System

JBP owns right-of-way from SF to San Jose

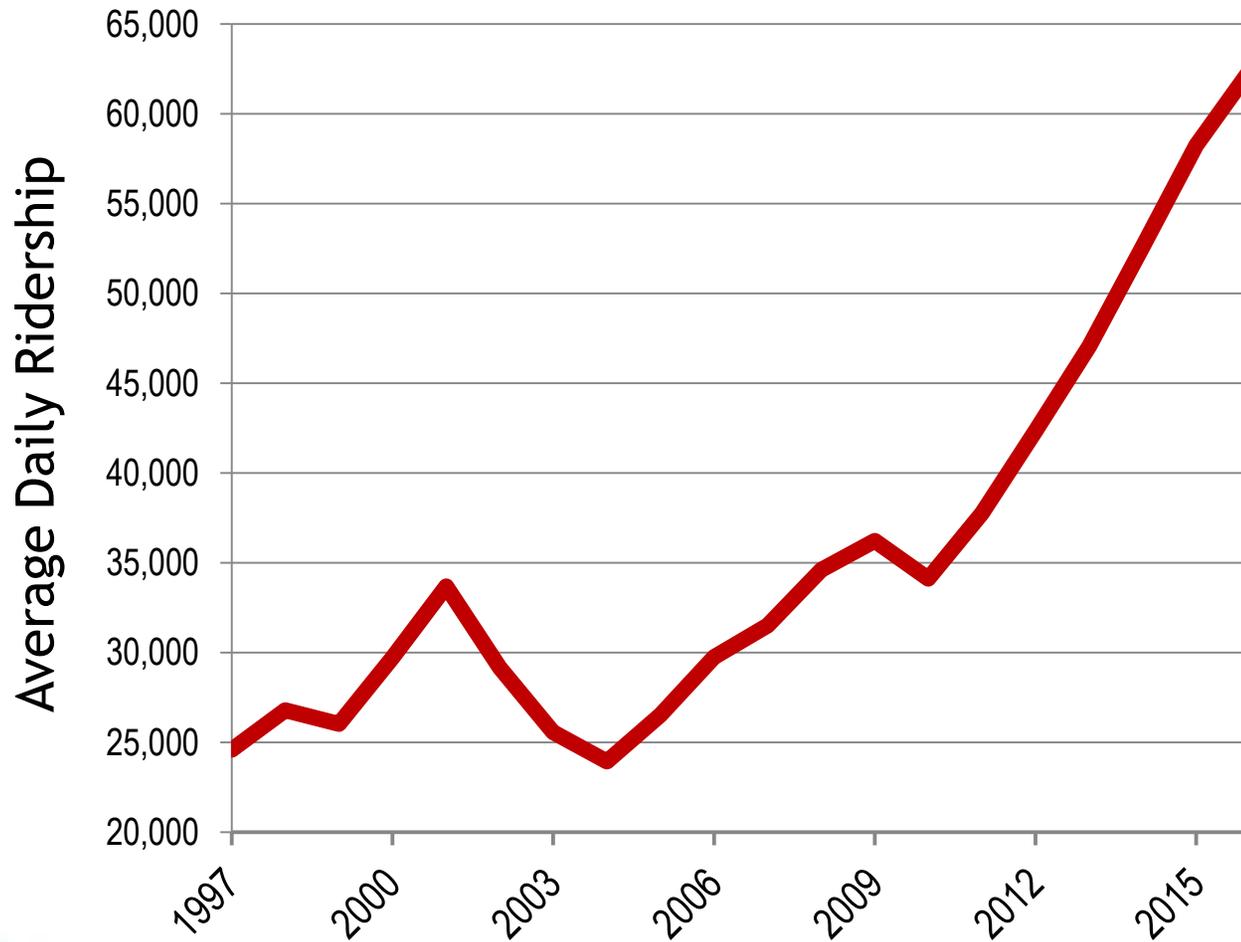


- 32 Stations Gilroy to San Francisco
- 92 Weekday Trains
- At-Grade Crossings, viaducts, and bridges
- Intermodal Connections
- Bike Commuters

Union Pacific owns



Ridership



Aging Fleet

Table 1.2: Caltrain Fleet Inventory

SERIES	QUANTITY	NUMBER OF SEATS	YEAR OF MANUFACTURE	MAKE	RETIRE DATE
Locomotives					
F40 PH-2	5	na	1985	GM - EMD	2015
F40PH-2-CAT	15	na	1985-1987	GM - EMD	2015-2017
F40 PH-2C	3	na	1998	Boise Locomotive	2028
MP36PH-3C	6	na	2003	Motive Power	2033
Passenger Cars					
Gallery Trailer	26	142	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	16	148	1985-1987	Nippon Sharyo	2015-2017
Gallery Trailer	14	120	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	10	108	1985-1987	Nippon Sharyo	2015-2017
Gallery Cab (Bike)	6	78	1999-2000	Nippon Sharyo	2030
Gallery Cab (Bike)	21	97	1985	Nippon Sharyo	2015
Bi-Level Trailer*	16	149	1997	Bombardier	2027
Bi-Level Trailer	9	144	2002	Bombardier	2032
Bi-level Trailer (Bike)	2	114	2002	Bombardier	2032
Bi-level Trailer (Bike)	5	114	2001-2002	Bombardier	2031-2032
Bi-level Trailer (Bike)	2	114	2008	Bombardier	2038
Bi-level Trailer (Bike)	1	127	2002	Bombardier	2032
Bi-Level Trailer	6	140	2008	Bombardier	2038

*Trailers recently acquired from Metrolink with refurbishment ongoing.



Project Description

Area	Project	Service
51 miles San Francisco to San Jose (Tamien Station)	Electrification: <ul style="list-style-type: none">• Overhead Contact System (OCS)• Traction Power Facilities Electric Trains (EMUs) <ul style="list-style-type: none">• 75 percent of fleet	Up to 79 mph Service Increase <ul style="list-style-type: none">• 6 trains / hour / direction• More station stops / reduced travel time• Restore Atherton & Broadway service Mixed-fleet service (interim period) Continue tenant service <ul style="list-style-type: none">• ACE, Capital Corridor, Amtrak, Freight



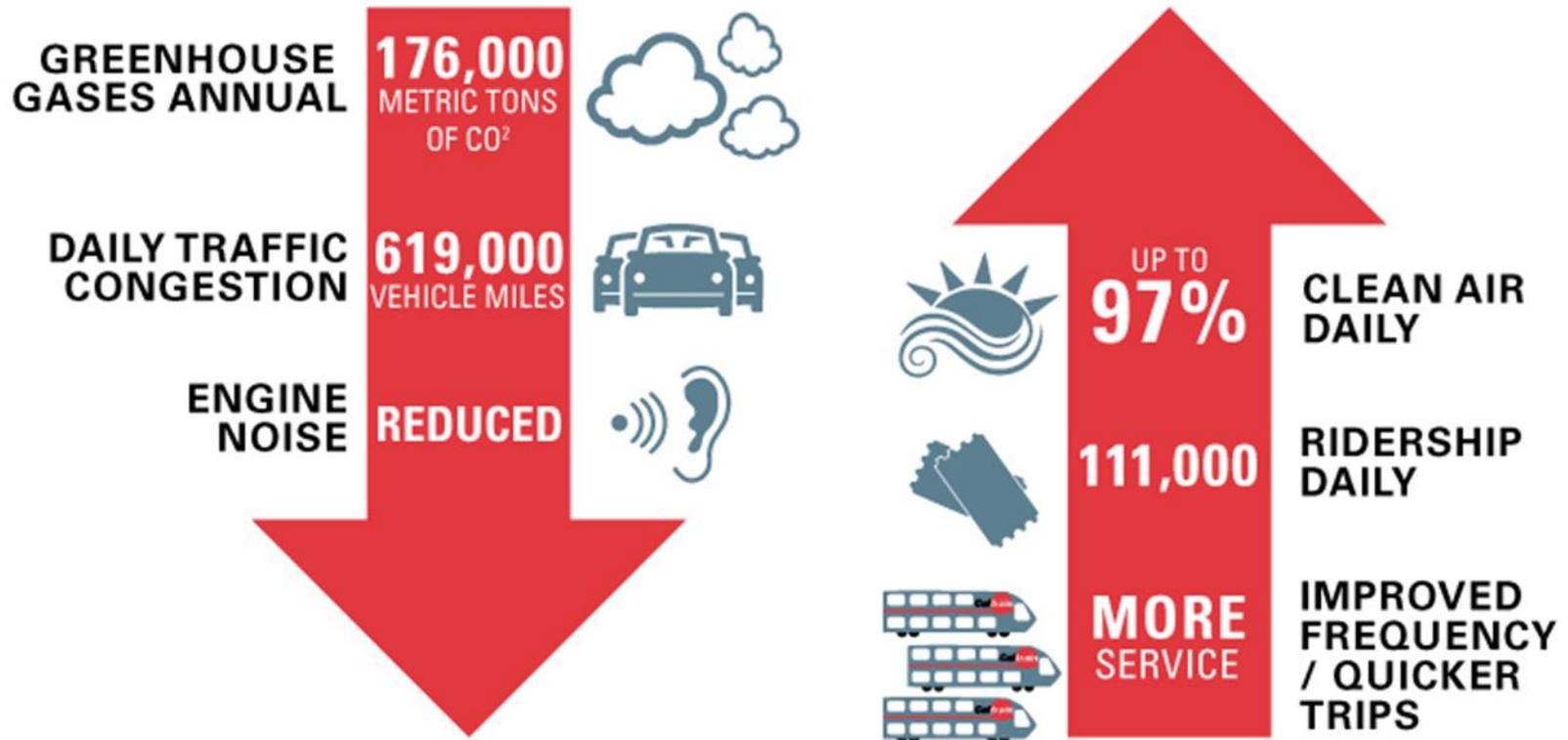
Service Benefits

Metric	Today	PCEP
Example Baby Bullet Train		
Retain 5-6 stops	60 minutes	45 minutes
Retain SF to SJ 60 minutes	6 stops	13 stops
Example Redwood City Station		
Train stops / peak hour	3	5



Note: Prototypical Train and Schedule

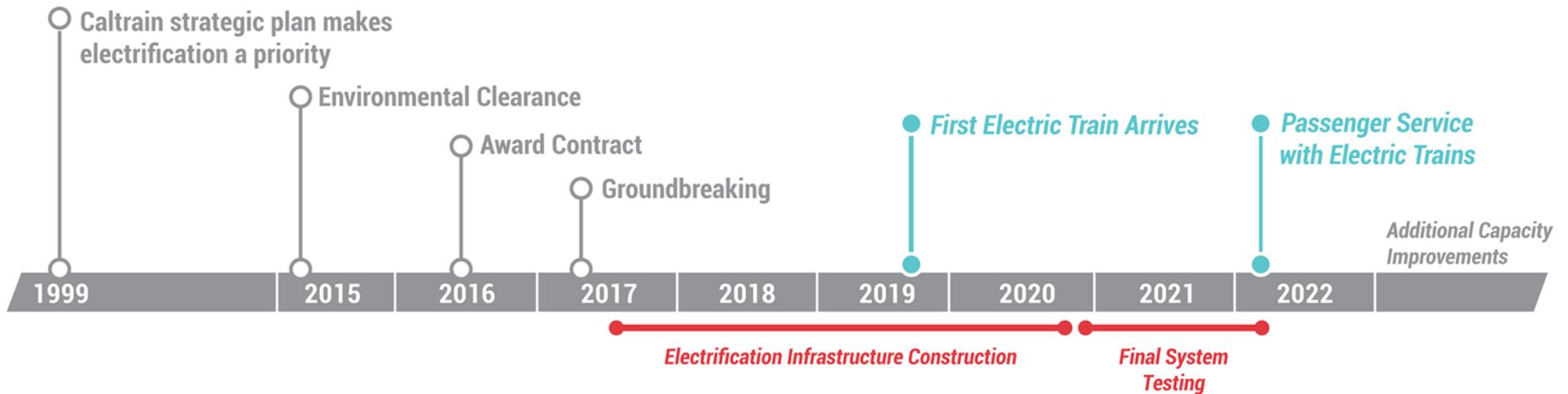
Key Regional Benefits (2040)



Note: 2013 BAC Report, generates \$2.5B economic activity and 9,600 jobs

Schedule

MILESTONES



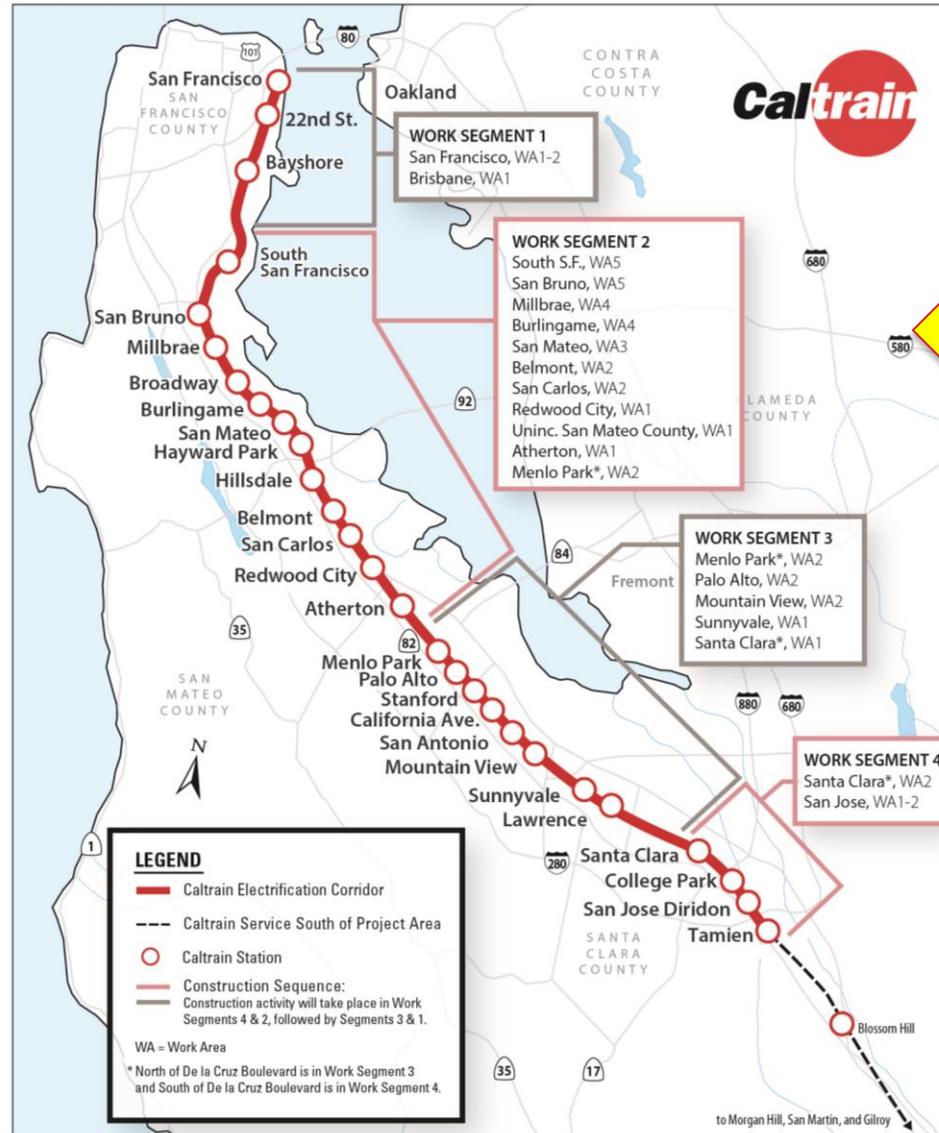
*Please keep in mind that testing and construction will overlap as each Segment will be tested individually, prior to final system testing.



Note: Schedule Subject to Change

CalMod Construction Phasing

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



Burlingame Field Work

Work Completed	<ul style="list-style-type: none">• Utility Survey• Geotechnical Investigations• Disposal of Soil from Geotechnical Investigations• Soil Resistivity Testing• Site Surveys• Signal Cable Inspections
Work In Progress	<ul style="list-style-type: none">• Tree Pruning/Removal• Potholing• Foundation Installation
Future Work	<ul style="list-style-type: none">• Overhead Contact System Pole Installation• Overhead Contact System Wire Installation• Paralleling Station



Future Construction Activities

Burlingame

Date	Work Activity	Expected Duration*
In Progress	Potholing	1-2 months
In Progress	Tree Pruning/Removal	1-2 months
In Progress	Foundation Installation	1-2 months
Fall 2018	Pole/Wire Installation	4-5 months
Fall 2018	Paralleling Station	3-5 months



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

Paralleling Station

- A Paralleling Station balances the voltage through the Overhead Contact System
- Key Timeline:
 - January 2015 - Peninsula Corridor Electrification Project (PCEP) Final Environmental Impact Report (EIR) approved with original Paralleling Station 3 (PS-3) location at California/Lincoln
 - January 2017 - Burlingame Grade Separation Final Project Study Report issued setting aside budget to relocate PS-3 at California/Lincoln
 - Spring 2018 - Detailed coordination on relocating PS-3 began between the Burlingame Grade Separation Project (BGSP) team and the Electrification team



Relocating PS-3

- Relocating now will avoid future Broadway Grade Separation construction activities (including temporary track)
 - Save \$8m- \$10m (FY18 dollars)
- April 2018 - Caltrain staff started working w/ Burlingame staff to identify three additional alternative locations for PS-3



Mills Ave

- June 2018, Mills Ave location was identified and selected as a new potential site
 - The other two options were not advanced because schedule, cost and operation/maintenance concerns



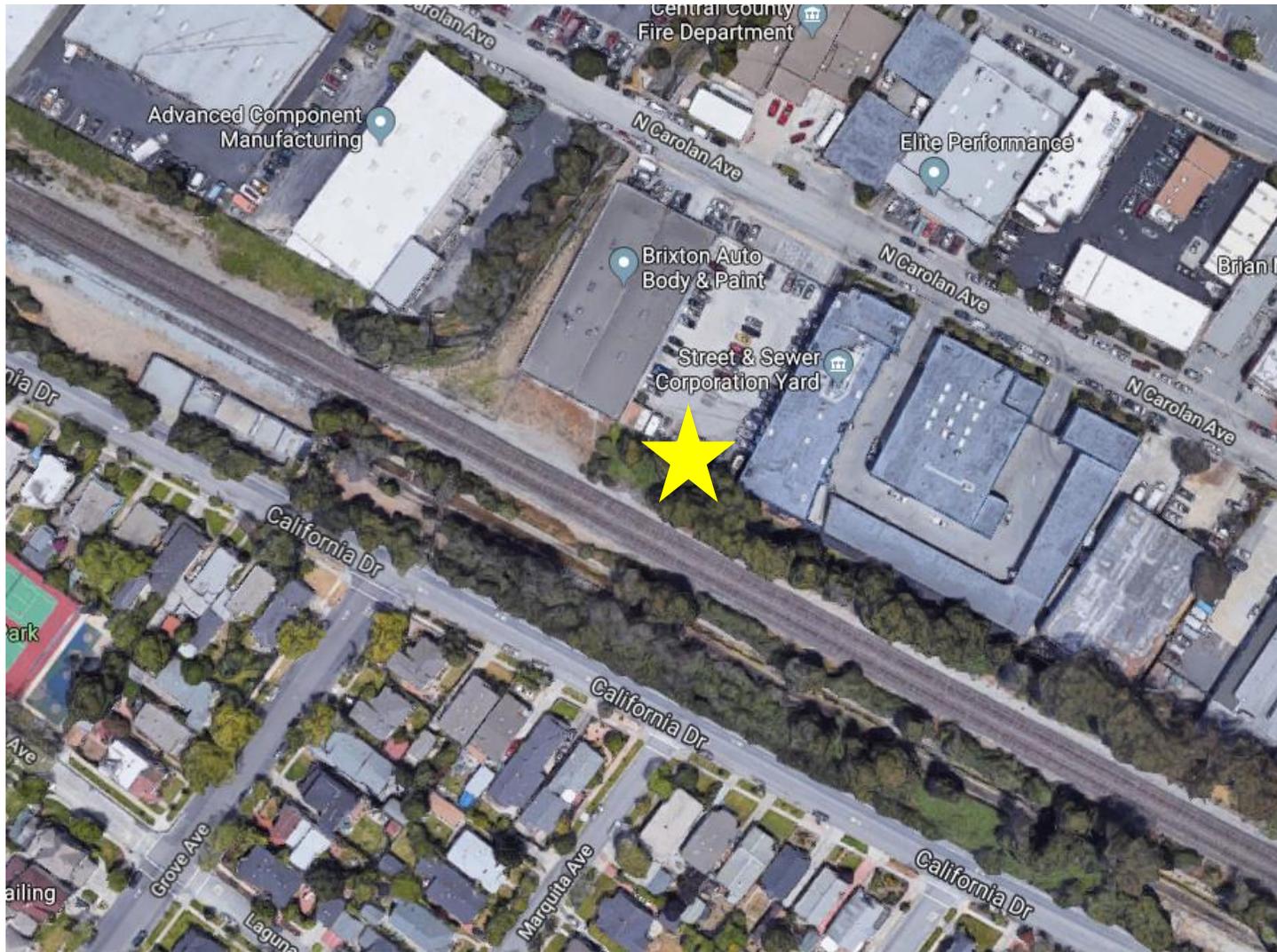
Existing View of New Location for PS-3 at California/Mills



Existing View of New Location for PS-3 at California/Mills



CalMod New (Preferred) Location



Burlingame's Corporation Yard at 1361 N. Carolan



CalMod New Corp Yard Location

- On July 31, 2018, City of Burlingame offered a new site for consideration at 1369 North Carolan Avenue
- Burlingame and Caltrain staff met and agreed to explore this option provided that Burlingame provide:
 - Temporary construction easement
 - Permanent access and maintenance easement
 - Property necessary to accommodate the paralleling station
- Move to this location will be conditioned upon Burlingame providing the above land by August 21

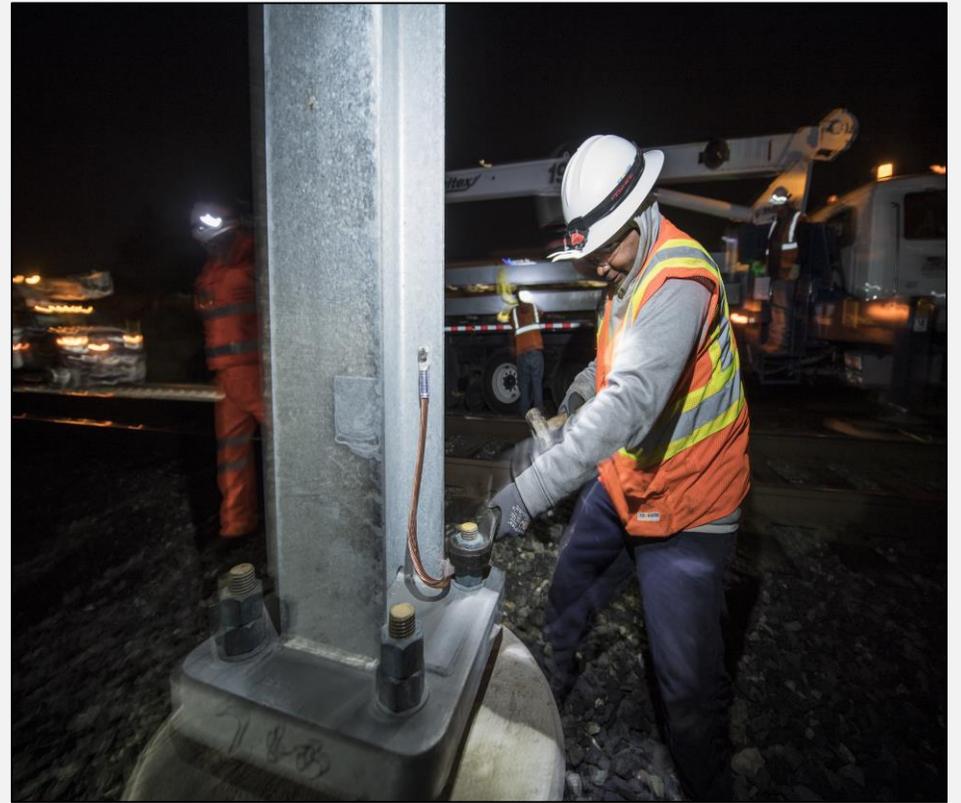


Pole Information

- 3,000 Installed throughout Corridor
 - 139 poles in Burlingame
- Pole Spacing: ~180' apart
- Pole Height: 30-45.5'

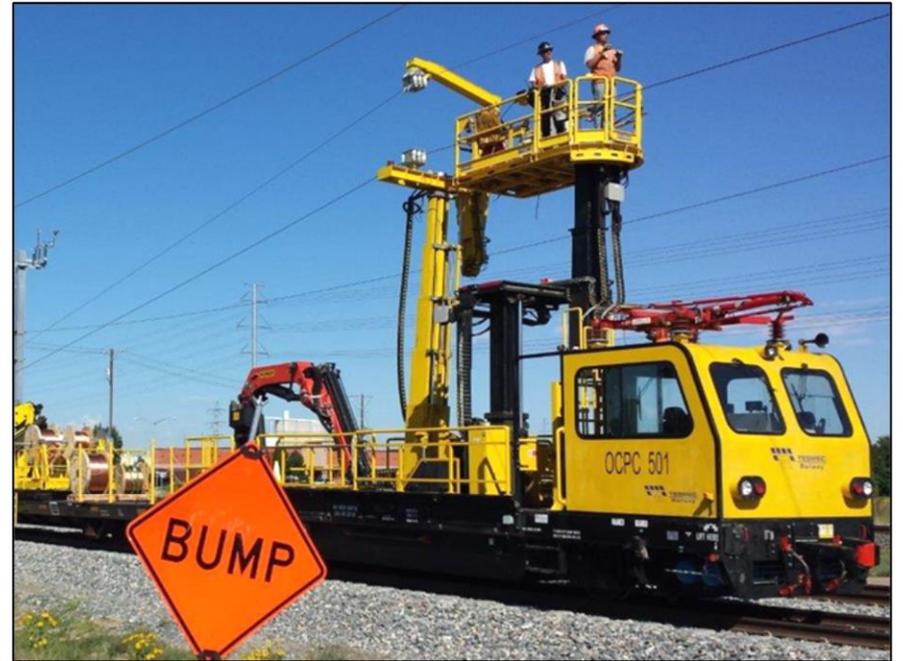


Pole Installation



Current Pole Installation

Stringing Wire



On-track Equipment

Construction Impacts

- Daytime work and night work from 8 p.m.- 6 a.m.
- Some 24 hour weekend work
- Crews will utilize acoustical barrier blankets and position lights away from homes
- Dedicated hotline for construction complaints



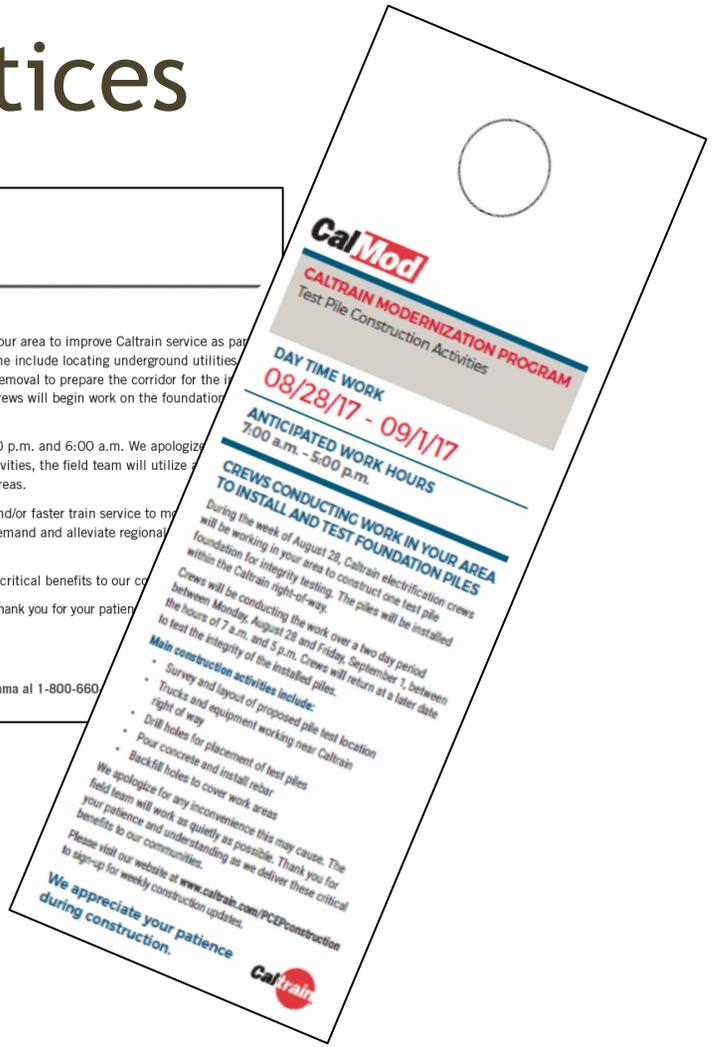
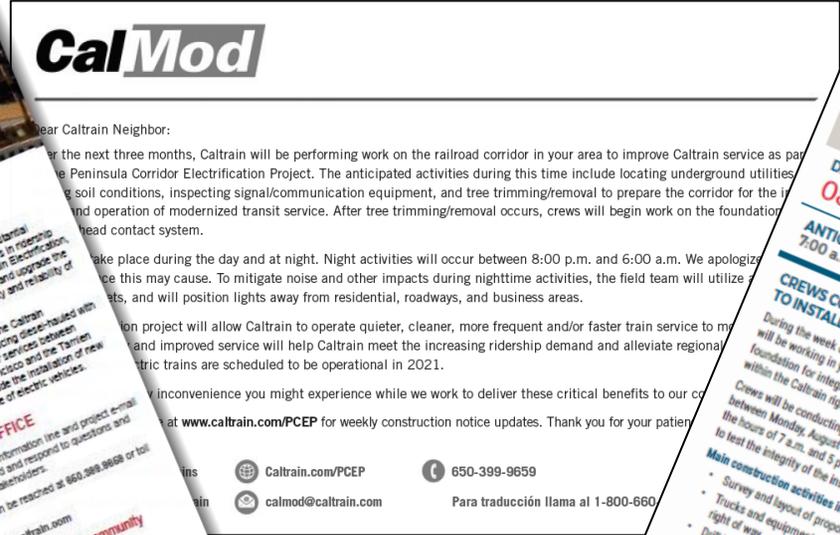
Public Outreach

- Subscribe to Weekly Updates
 - Visit www.calmod.org/get-involved
- Additional Community Meetings
- Social Media
- Construction Outreach Office



Public Outreach

Physical Notices



Contact Information

Email: calmod@caltrain.com

Phone: 650.399.9659

Toll Free: 800.660.4287

2121 S. El Camino Real, Suite A-100

San Mateo, CA 94403

9 a.m. - 5 p.m. Monday - Friday

www.calmod.org

