

Caltrain Electrification Project Update

Peninsula Corridor Joint Powers Board

August 1, 2024

Agenda Item #12



Project Highlights

Project Highlights

- Schedule: No change to revenue service date – September 21, 2024
- Budget: No change to project budget - \$2.44B
 - \$60K June 2024 draw from “\$50M Shared Risk Pool”
 - No draw in June 2024 from “\$40M Project Contingency”
- Testing, Punchlist & Pre-Revenue Service
 - Substantial Completion – May 3, 2024
 - Successful Power Contingency Test on June 8 & 9, 2024
 - FTA OP54 Draft was issued on July 10, 2024, Caltrain has responded.
- Electric Trains
 - Nine Electric Trainset Completed 1,000-Mile Test
 - Fourteen Trainsets Delivered
 - Next Two Trainsets Expected Early September 2024

All Major Construction Complete



Safety and Security

Time Period	Reportable Injury Rate
January 1 to June 30, 2024	0.60
Since Project Start (2017)	1.85

Note: National Average Reportable Injury Rate is 2.4.

- Zero reportable injuries in June 2024
- 30 school outreach tabling/presentations completed
- Project Safety Awareness trainings ongoing for Local Fire and Police Departments (1,000 emergency responders trained to date)
- Completed 25kV training for all TASI and tenant railroad staff
- Development of emergency responder safety presentation for local first responders



Project Contingency and Shared Risk Pool

Item	Amount	Drawn in June 2024	Drawn To Date	Amount Remaining
BBII Shared Risk Pool	\$50.00M	\$0.06M	\$17.18M	\$32.82M
Project Contingency	\$40.00M	(\$0.24M)	\$37.93M	\$2.07M
Total	\$90.00M	(\$0.18M)	\$55.11M	\$34.89M

Note: Ongoing program needs beyond revenue service date to close out the project. Both parties need to agree to release the shared risk pool funds upon Final Acceptance.

Top Risks

- Theft of Impedance Bonds Cables
- Closeout of Open Traction Power System Items
- Closeout Punchlist and Documentation before Final Acceptance

Wireless Crossing Project Update

- Completed total of 43 (41 + 2 pedestrian) crossing cutovers with wireless technology
- Total 39 out of 43 are wireless active
- Staff is gathering the data for performance improvement of warning time. (e.g. Broadway Burlingame - 30% warning time reduction)
- Wireless crossing testing with electric trains is schedule for August 3rd

Service Changes and Customer Experience

Electrified Service Plan Benefits

Improved service for all riders



Get There Faster

Express from SF to SJ
in under an hour

Quicker local service,
77 minutes instead of
100

Save more than 20
minutes on trips from
Southern Santa Clara
County to SF



Ride More, Wait Less

20% more train service

26% more train service at
equity priority stations

Half-hourly service during
weekends and off-peak



First Class for Everyone

Free Wi-Fi

Smoother, quieter
experience

Outlets at every seat

Digital trip information
onboard

Spacious, accessible
bathrooms



Clean and Green

GHG emissions reduced
by 250K MTCO2
annually –equivalent to
taking 55,000 cars off
the road each year

Improves local air quality

Quieter trains, both
onboard and off

City Fact Sheets

www.caltrain.com/servicebenefits

FASTER, MORE FREQUENT CALTRAIN SERVICE COMING IN FALL 2024

ELECTRIFIED SERVICE PLAN: CITY OF SAN BRUNO

Electric trains enable Caltrain to run faster, more frequent service with the same number of weekday trains we run today. This handout shows the final plans for electric service in fall 2024. The schedule will be finalized in spring 2024, after the new electric trains are tested.



GET THERE FASTER

SAN FRANCISCO TO SAN JOSE IN UNDER AN HOUR
Compared to 65+ minutes today

75 MINUTES FOR THE SAN FRANCISCO TO SAN JOSE LOCAL TRAIN
Compared to 100 minutes today

21 MINUTES SAVED FOR THE SAN FRANCISCO TO GILROY TRIP
Compared to a 2+ hour trip today

CLEAN AND GREEN

ALL-ELECTRIC TRAIN SERVICE FROM SAN FRANCISCO TO SAN JOSE
Annual emissions reduced by 250K MTCO₂, equivalent to taking 55,000 cars off the road

RIDE MORE, WAIT LESS

TRAINS EVERY 30 MINUTES ON WEEKENDS
Compared to hourly service today

TRAINS EVERY 30 MINUTES DURING MID-DAY AND EVENINGS
Compared to hourly service at most stations today

TRAINS EVERY 15 TO 20 MINUTES DURING PEAK HOURS* AT 16 STATIONS
Compared to 7 stations today

FIRST CLASS SERVICE

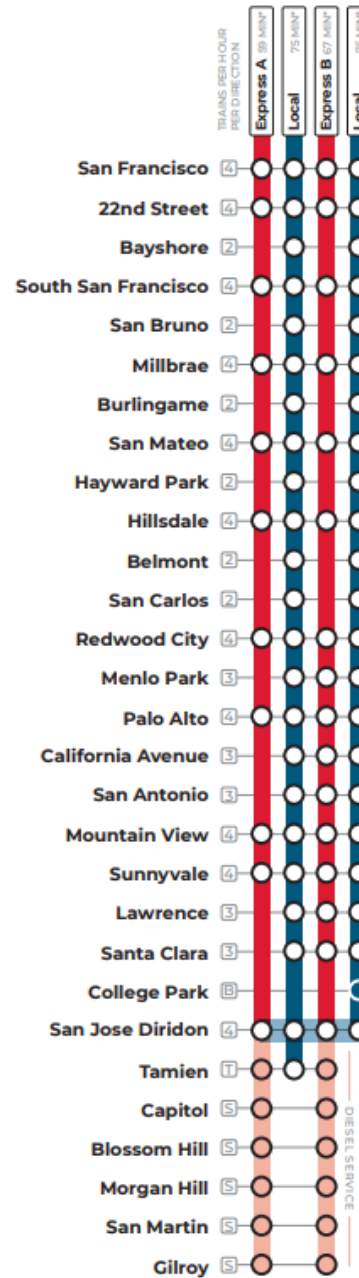
STATE-OF-THE-ART VEHICLES FOR SMOOTHER RIDES
Free Wi-Fi, outlets at every seat, spacious accessible bathrooms, and digital displays with trip information

FINAL ELECTRIFIED CALTRAIN SERVICE FOR SAN BRUNO

STATIONS	STATION STOPS	CURRENT SERVICE	ELECTRIFIED SERVICE
SAN BRUNO	Stops per Weekday	61	75
	Weekday Stops per Peak Hour*	2	2
	Weekday Stops per Off Peak Hour	1	2
	Weekend Stops per Hour	1	2

*PEAK HOURS VARY BY STATION, GENERALLY COVERING 6:30AM-9:30AM AND 3PM-7PM ON WEEKDAYS. NOTE: TRAVEL TIMES MAY CHANGE PENDING FURTHER ELECTRIC TRAIN TESTING.

FALL 2024 ELECTRIFIED SERVICE WEEKDAY PEAK 1-HOUR SNAPSHOT



GET THERE FASTER

Most people will have quicker rides compared to service today.

Trip travel times below compare the fastest diesel trip today to the fastest trip with electrified service.

SAN BRUNO STATION LOCAL

17 min 0 MINUTES SAVED
To / from San Francisco

30 min 2 MINUTES SAVED
To / from Palo Alto

57 min 3 MINUTES SAVED
To / from San Jose Diridon

B **Bellarmine Service**
2 STOPS PER DAY IN EACH DIRECTION

T **Tamien Service**
2-3 STOPS PER HOUR IN THE PEAK DIRECTION*, AND 1 STOP PER HOUR IN THE REVERSE-PEAK DIRECTION

S **South County Connector Service**
4 DAILY BOUND TRIPS WITH 1-2 DIESEL TRAINS PER HOUR IN THE PEAK DIRECTION*, WITH TIMED 3-MINUTE CROSS-PLATFORM TRANSFER AT DIRIDON

*TRAIN TIMES SHOWN ARE FOR TRAVEL BETWEEN SAN FRANCISCO 4TH AND KING TO SAN JOSE DIRIDON STATION.

**PEAK DIRECTION IS NORTHBOUND IN THE MORNING AND SOUTHBOUND IN THE AFTERNOON.

NOTE: BROADWAY STATION PROVIDES WEEKEND SERVICE ONLY. TRAVEL TIMES MAY CHANGE PENDING FURTHER TESTING AS NEW ELECTRIC TRAINS ARRIVE AND ARE PREPARED FOR SERVICE.

Soft Launch & Project Celebration

- Mid-August: Soft Launch
 - Mixed fleet running same schedule as today
 - Gradually introducing electric trains into service every week to allow for operational testing and crew adaptation
- September 21, 2024: Launch New All Electric Schedule
 - 14 electric trains providing all electric mainline service
 - 4 diesel trains between San Jose and Gilroy with 3-minute cross platform transfer
 - Schedule is finalized and will be posted online for the public by mid-August
 - Corridor-wide celebrations on September 21 & 22

Passenger Information System

- Components
 - Digital Displays – 4-6 per car, depending on configuration
 - Automated Announcements
 - External Signage – front cab and sides
 - Public Address System for Manual Announcements
- Automated Visual and Audio Announcements:
 - Train Number, Direction, Stopping Pattern and Terminus
 - Station Transit Connections
 - Safety, Fare, and Courtesy Information






Passenger Information System – Samples


Northbound 207 LOCAL 12:30p

NEXT STOP

Station Name


CONNECTIONS

 BART  Muni & SamTrans  SFO



Northbound 207 LOCAL 12:30p

ALL STOPS





Northbound 207 LOCAL 12:30p

NEXT STOPS



Safety First

Please hold on during your ride as trains brake & accelerate quickly



Upcoming Board Items

Upcoming Board Items

- Monthly Updates on PCEP Project

PCEP Project – Construction Update

Board of Directors Update

August 1, 2024



Focus Areas

- Continue viewing everything thru the Zero Harm lens
 - YTD RIR – .55
 - Project Total - 1.62
 - 1 - Recordables and 0 - Lost Times for June/July
- Pre-Revenue Testing
 - Power Scenario Testing – June 8 – 9 – Complete
- Training Schedule
 - Traction Power – Complete
- Punchlist Execution
 - 100% of the areas walked & punch list established
 - 95.4% punch list items complete
- Closeout Execution
 - Final Acceptance – September 6th, 2024
- Continue to measure what we do every day

Final Acceptance Path

- Track Access to Complete Punchlist Timely
- Resolving Legacy QC Issues
- Punchlist Completion/Acceptance
 - 95.5% - Work to Complete (784)
 - 84.8% Signed Off Completed
- As-Built Finalization
 - Target 8/10 Completion
 - 28 of 41 Packages – 68% Complete

Balfour Beatty