



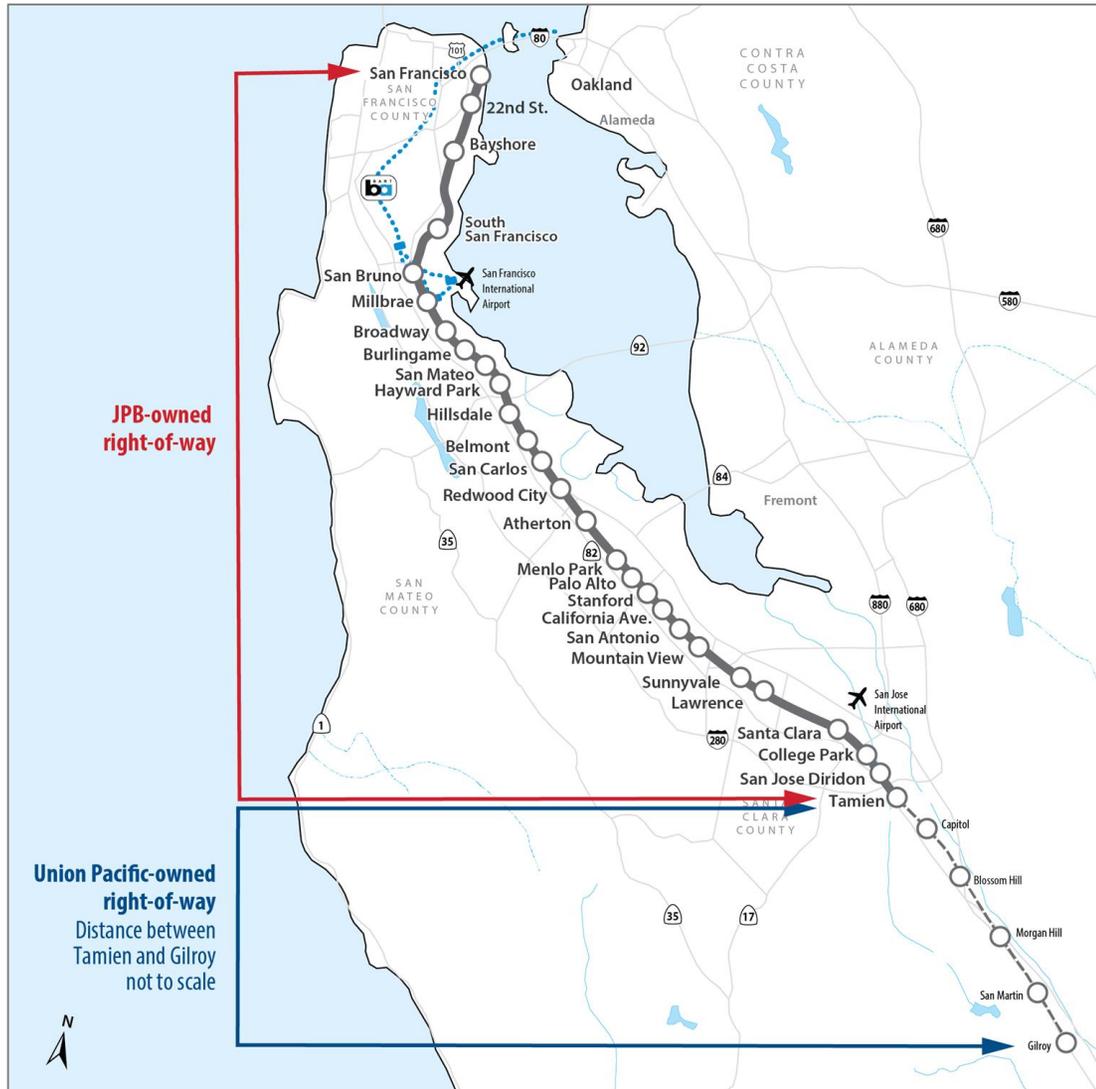
CALTRAIN ELECTRIFICATION UPDATE

TJPA CAC
January 12, 2021

AGENDA

- Caltrain System Overview
- Project Overview
- Electric Train Update
- Construction Update

CALTRAIN SYSTEM



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

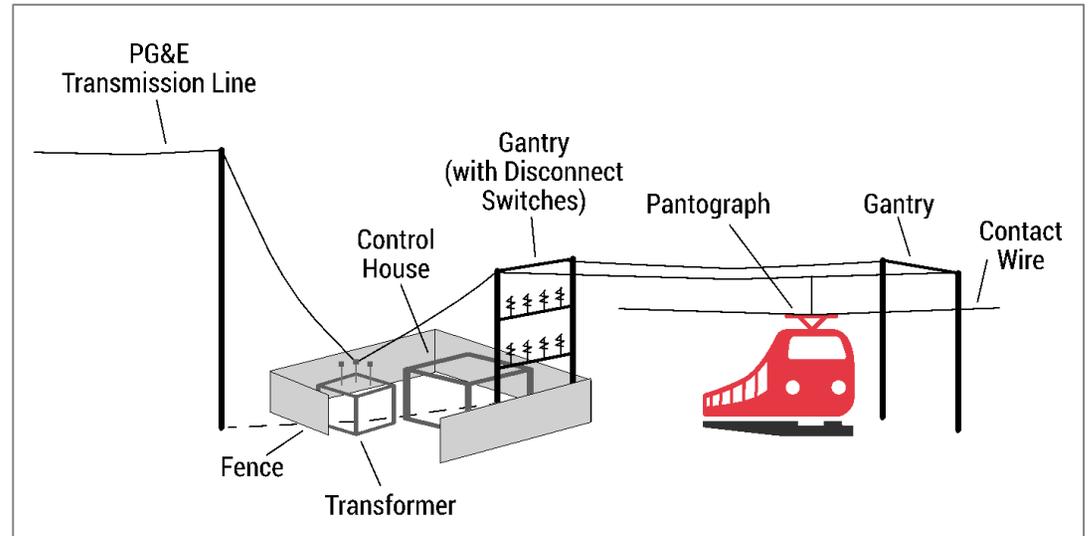
PROJECT DESCRIPTION

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



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

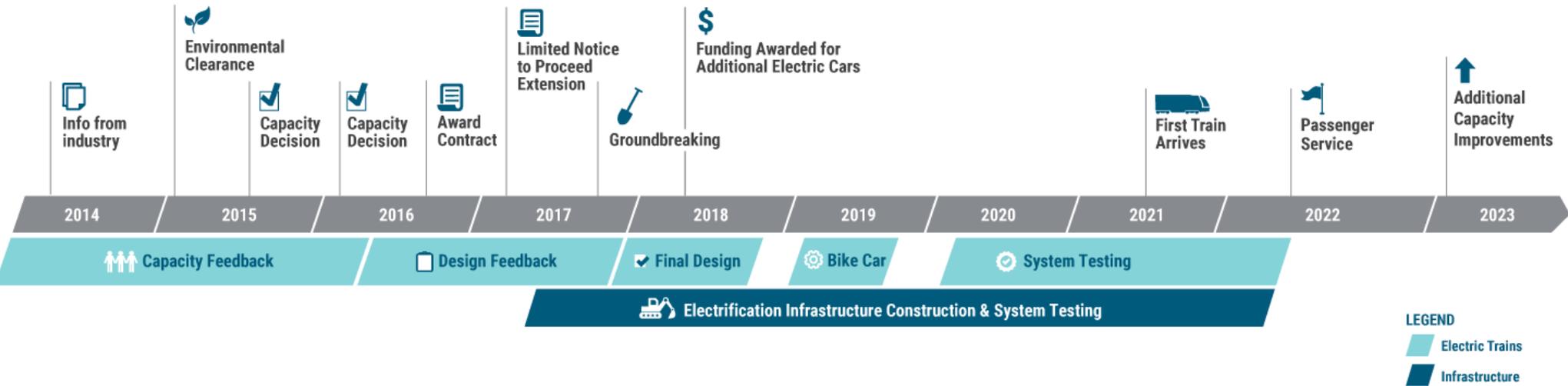


Reduced Engine Noise Emanating from Trains



Increased Revenue and Reduced Fuel Cost

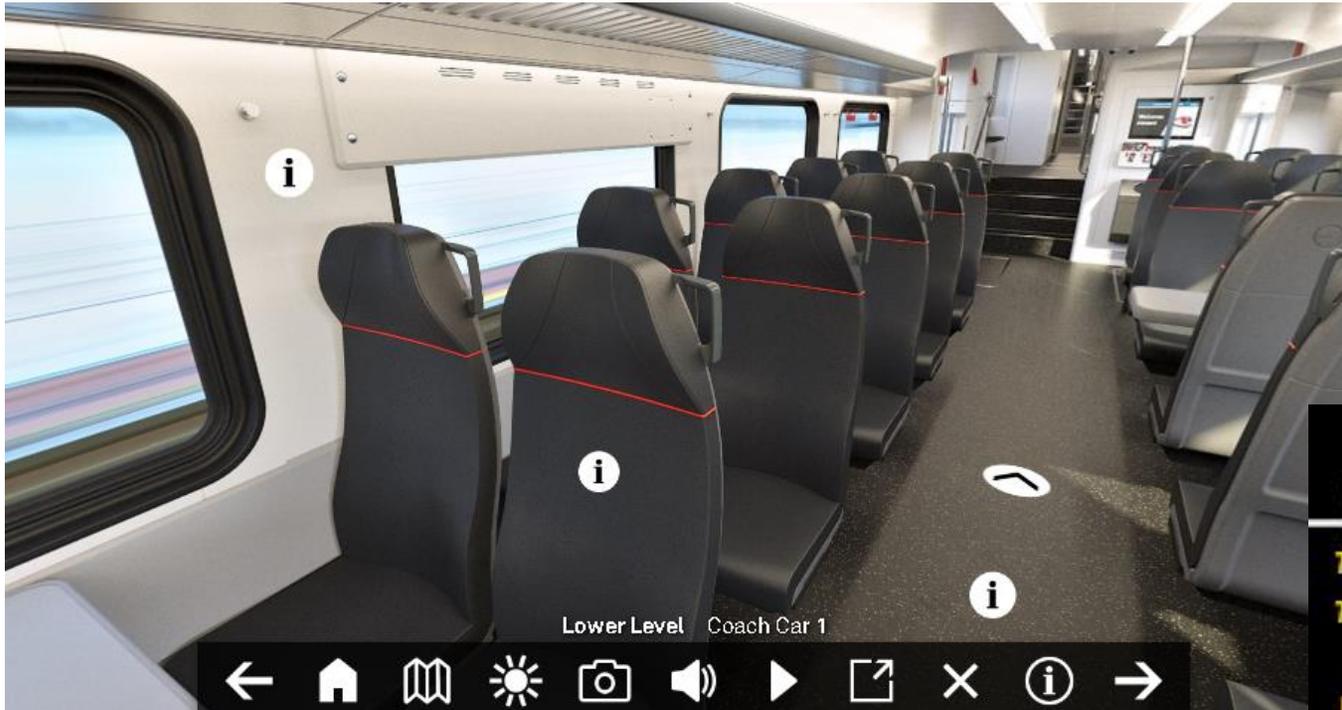
SCHEDULE



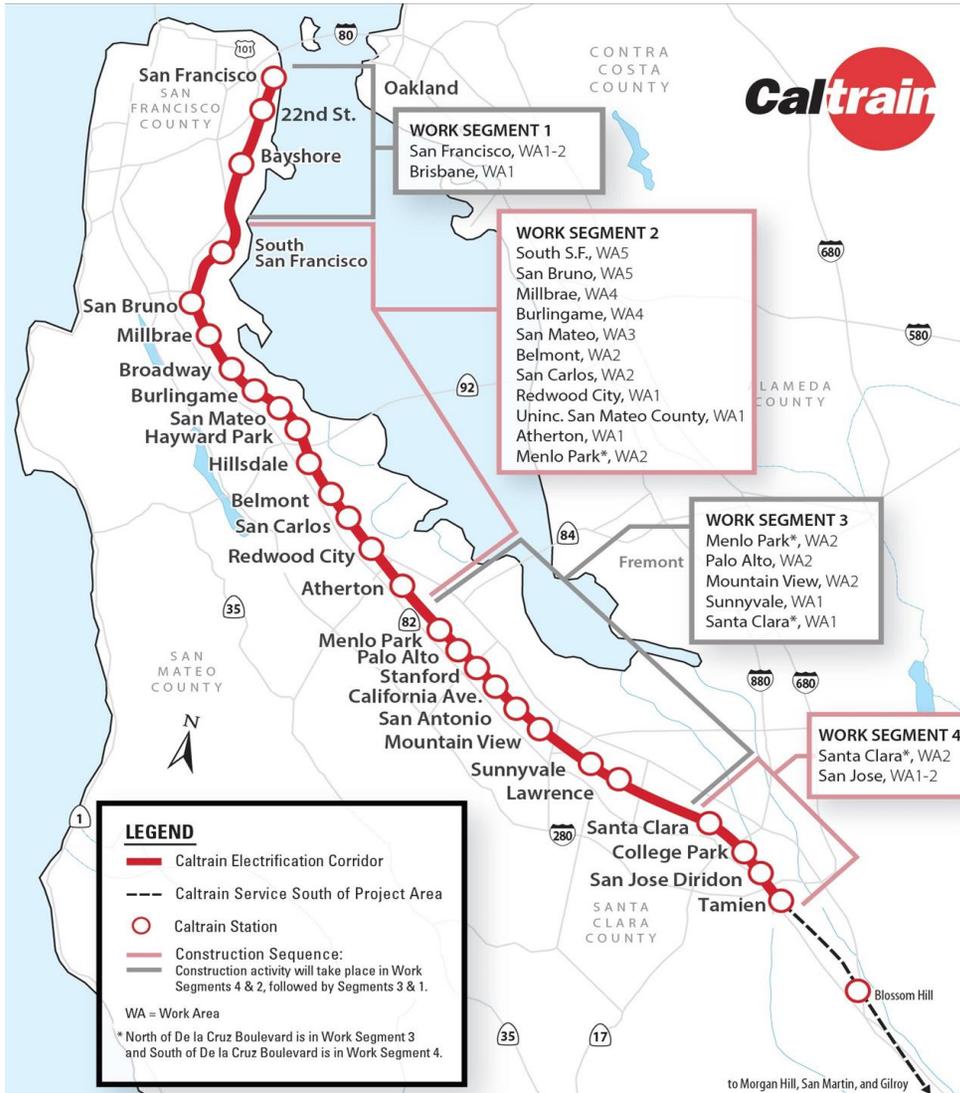
ELECTRIC TRAIN PROGRESS



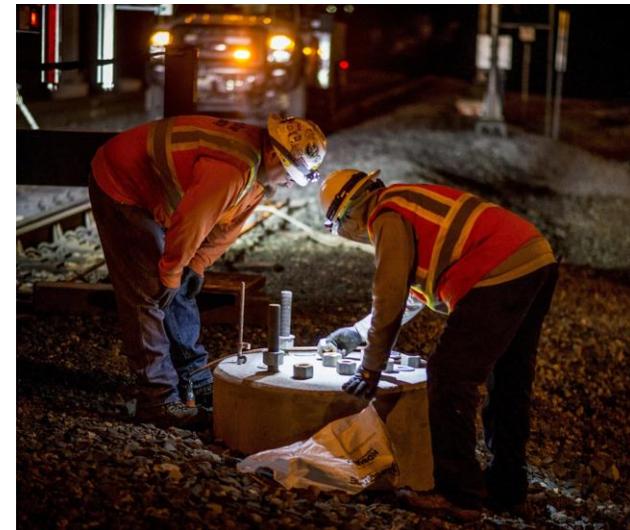
VIRTUAL REALITY EXPERIENCE



CONSTRUCTION OVERVIEW



- 51 Miles Corridor
- 4 Work Segments
- 2,600 Poles
- 10 Traction Power Facilities



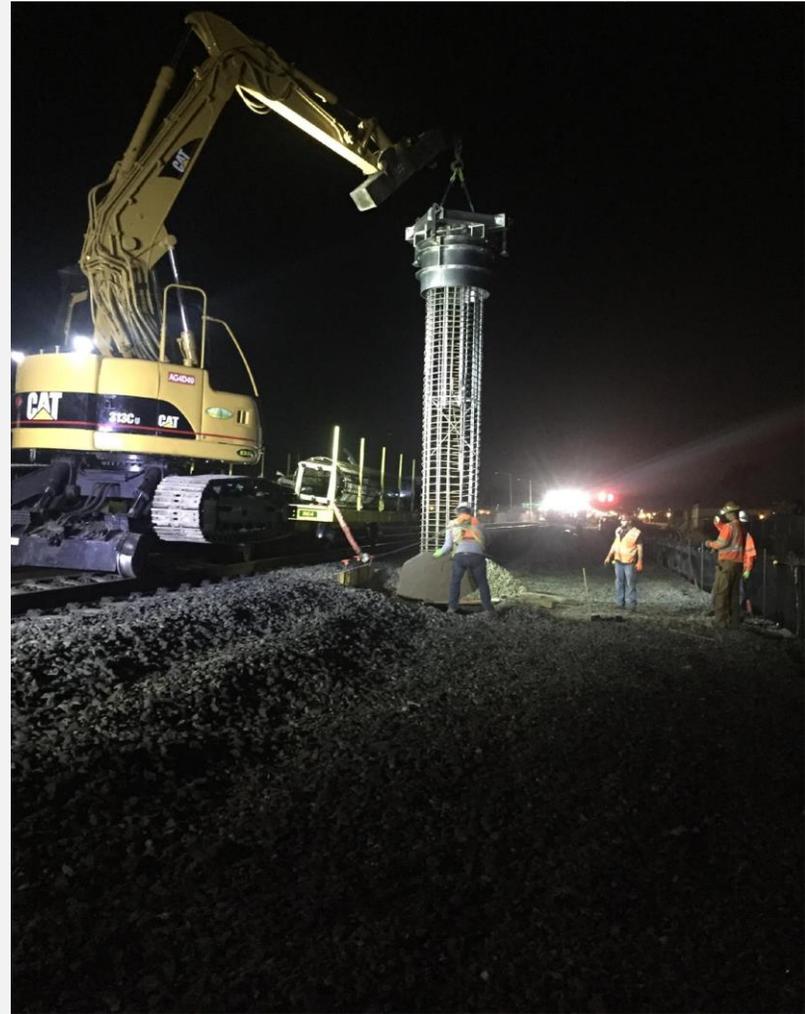
CONSTRUCTION PROGRESS



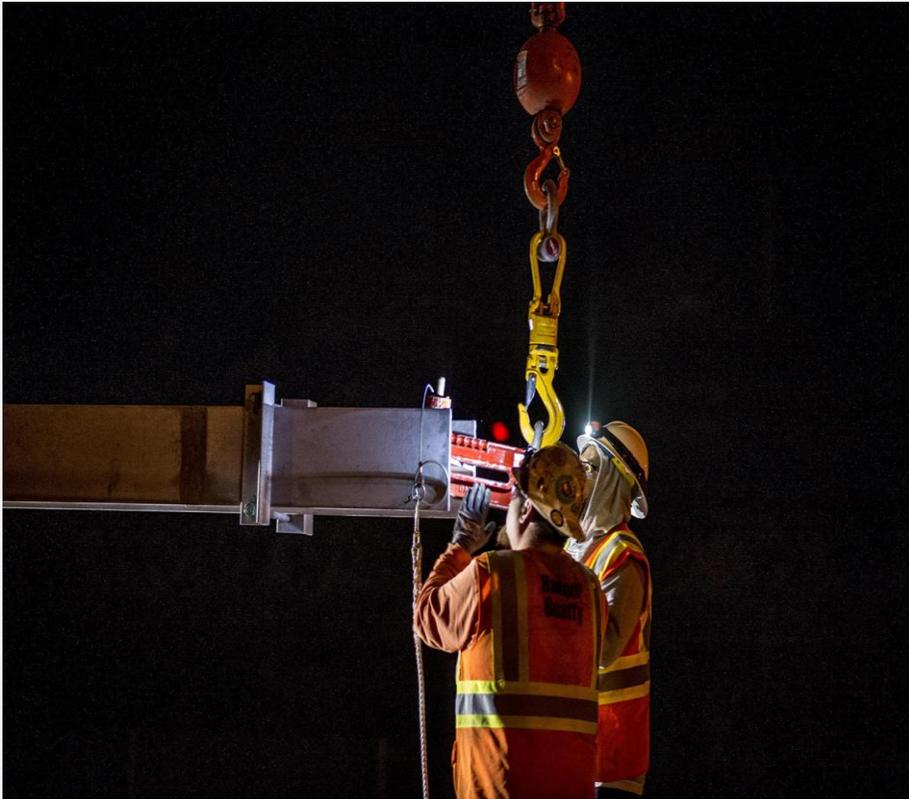
FOUNDATION CONSTRUCTION

- Excavation
- Rebar and Anchor Installation
- Electrical Grounding
- Concrete Fill

FOUNDATION INSTALLATION



POLE INSTALLATION



STRINGING WIRE



CONSTRUCTION INFORMATION

- Occurs during day and night
- Some around the clock weekend work
- Crews will utilize acoustical barrier blankets and position lights away from homes
- Dedicated hotline for construction complaints

PUBLIC OUTREACH

CalMod
CALTRAIN MODERNIZATION PROGRAM
 Test Pile Construction Activities

DAY TIME WORK
08/28/17 - 09/1/17

ANTICIPATED WORK HOURS
 7:00 a.m. - 5:00 p.m.

CREWS CONDUCTING WORK IN YOUR AREA TO INSTALL AND TEST FOUNDATION PILES

During the week of August 28, Caltrain electrification crews will be working in your area to construct one test pile foundation for integrity testing. The piles will be installed within the Caltrain right-of-way.

Crews will be conducting the work over a two day period between Monday, August 28 and Friday, September 1, between the hours of 7 a.m. and 5 p.m. Crews will return at a later date to test the integrity of the installed piles.

Main construction activities include:

- Survey and layout of proposed pile test location
- Trucks and equipment working near Caltrain right of way
- Drill holes for placement of test piles
- Pour concrete and install rebar
- Backfill holes to cover work areas

We apologize for any inconvenience this may cause. The field team will work as quietly as possible. Thank you for your patience and understanding as we deliver these critical benefits to our communities.

Please visit our website at www.caltrain.com/PCPEConstruction to sign-up for weekly construction updates.

We appreciate your patience during construction.

Doorhanger

CALTRAIN ELECTRIFICATION PROJECT
 STATUS UPDATE | January 2018

MILESTONES

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

KEY REGIONAL BENEFITS 2040

- GREENHOUSE GASES (ANNUAL)** 176,000 (M TONS CO₂)
- DIESEL TO ELECTRIC** LOWER FUEL COSTS
- TRAFFIC CONGESTION** 619,000 (VEHICLE MILES)
- 21% INCREASE** DAILY RIDERSHIP
- \$2.5 BILLION** ECONOMIC BENEFITS
- MORE SERVICE** MORE FREQUENT & FASTER TRIPS

FOR MORE INFORMATION

- www.calmod.org
- 650.399.9659
- Para traducción llame al 1.800.660.4287
- 175 888 4287
- Para traducción llame al 1.800.660.4287
- 175 888 4287

Project Outreach Office
 9:00a.m. to 5:00p.m.
 2121 S. El Camino Real, Bldg A, Ste A-100
 San Mateo, CA 94403

Factsheet

CALTRAIN MODERNIZATION

- IMPROVING CONVENIENCE**
 An electrified system means the trains can run more frequently and more efficiently.
- INCREASING CAPACITY**
 CalMod upgrades give us room to grow, initially increasing capacity by over 30%.
- BOOSTING ECONOMIES**
 CalMod will also provide economic benefits, including creating nearly 10,000 jobs across the country.
- ADVANCING SUSTAINABILITY**
 Replacing old diesel trains with new electric trains will reduce GHG and improve air quality.

These are just a few examples of how Caltrain and the CalMod program are innovating to better serve the Bay Area. Learn more at CalMod.org and stay in touch with us on social media!

Caltrain

Postcard

CALMOD CONTACT INFORMATION

WEEKLY UPDATES  CalMod.org/get-involved

EMAIL  CalMod@caltrain.com

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800-660-4287 (Toll Free)

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San Mateo, CA 94403

WEBSITE  CalMod.org

FACEBOOK  www.facebook.com/caltrain

TWITTER  @caltrain

Caltrain & Covid Update on Response and Recovery

TJPA CAC
Jan 12, 2021



Multiple Phases of Crisis & Response

Initial Triage

March 2020 – May 2020

Surviving the Pandemic

May 2020 – 2021 (?)

Preparing for the Next Reality

2021 and Beyond

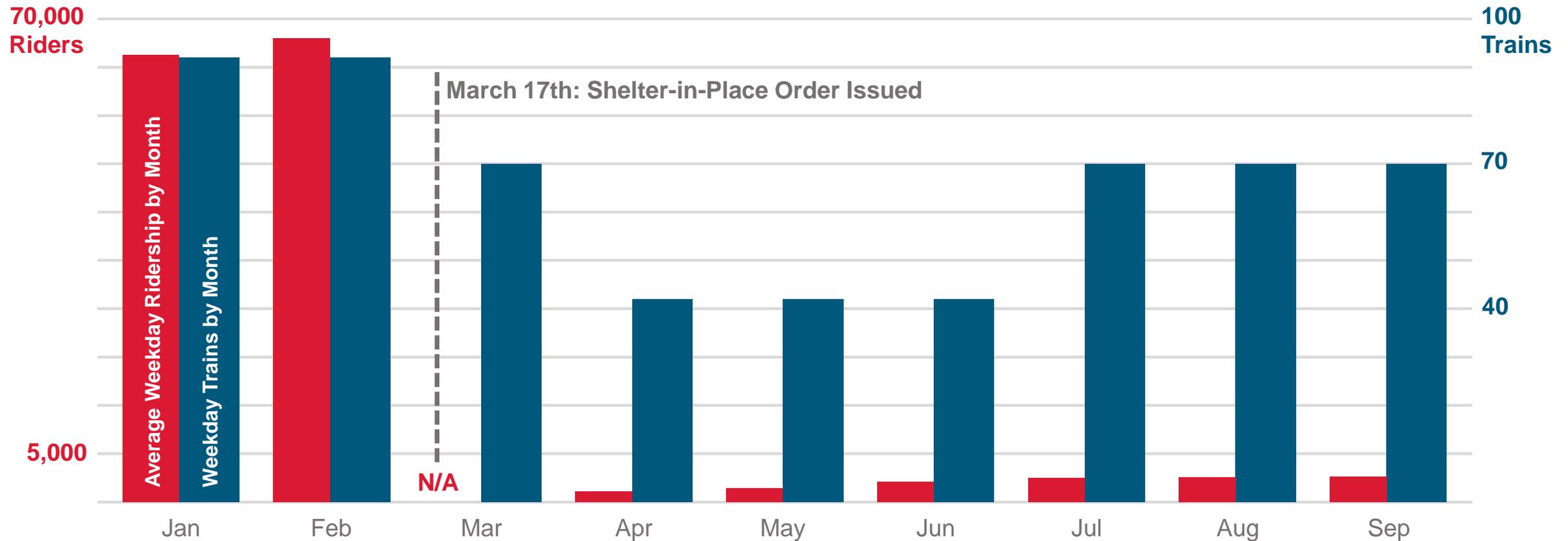


Initial crisis and immediate triage response by Caltrain

Extended period where Pandemic is ongoing and Caltrain ridership and operations remain deeply impacted and in a state of dynamic flux. Railroad's financial position is precarious

Long-term resolution of pandemic through vaccine or other permanent public health approaches. Caltrain adjusts to new Business Environment

Changes in Caltrain Service and Ridership



Health & Safety

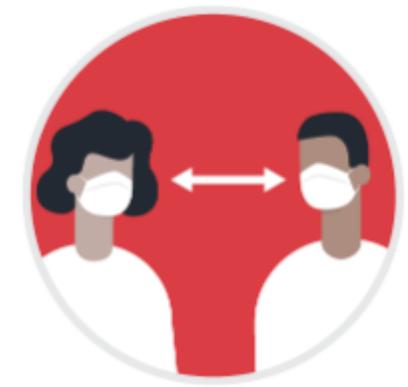
Enhanced Cleaning



Face Coverings



Physical Distancing



Since the start of the pandemic, Caltrain has aggressively implemented enhanced safety protocols with an emphasis on frequent cleaning, mask requirements for all employees and passengers, and physical distancing onboard trains. Caltrain has partnered with other Bay Area transit agencies to develop common commitments and expectations for employees and passengers – and the JPB adopted the [**Riding Together—Bay Area Healthy Transit Plan**](#) at its September meeting

Equity, Connectivity, Recovery & Growth Framework

The Caltrain Board adopted the Equity, Connectivity, Recovery & Growth Framework in September of 2020 as part of its ongoing Business Plan process. The policy framework seeks to guide the railroad in addressing both the impacts of the COVID Pandemic as well as the urgent call for racial and social equity.

[Full text of ECRG Framework at Caltrain.com](#)

Guiding Principles

Caltrain shall make a priority of addressing the specific needs of riders and communities who depend on transit for essential travel. In particular, the railroad will work to enhance **equity** in its system, making its services more accessible and relevant to lower income people and members of racial groups and communities who have historically been marginalized and overlooked in planning and government processes.

Caltrain recognizes its unique position as a critical link within the Bay Area's passenger rail network. The railroad will undertake policies and actions that improve its **connectivity** to other transit systems strengthen its role as part on a regionally integrated network.

Caltrain must address the needs of the pandemic present while simultaneously planning for and working toward a long-term future. The railroad will endeavor to proceed on a path of **recovery and growth** that anticipates, advances and, where possible, accelerates the incremental delivery of the 2040 Long Range Service Vision.



Caltrain Finances

Historically, Caltrain has been highly dependent on fare revenue. With ridership devastated by the pandemic, the system was on the brink of considering a shutdown and throughout 2020, Caltrain relied heavily on CARES Act federal relief funding.

The passage of Measure RR in November, followed by further federal relief funding has insured Caltrain's survival. Regardless, with ridership remaining extremely low, Caltrain anticipates that the railroad will be significantly financially constrained for some time.

A Challenging Fiscal Outlook



Fiscal Year 2021 Budget

- The JPB has incrementally approved balanced quarterly operating budgets for Q1 and Q2
- A deficit of at least \$18.5 million is projected for the remainder of the fiscal year
- Deficit could be higher if ridership recovery is slow or GoPass participation drops further
- Fiscal year 2022 will present additional financial challenges



Analyzing Options

- Caltrain is exploring a variety of deficit closure options related to both revenue generation and cost reduction

Caltrain Winter Service Change:

Caltrain continues to navigate a period of extreme uncertainty relative to both the financial health of the system as well the trajectory of the pandemic and its impact on ridership recovery. Consequently, Caltrain implemented a significant service change in December of 2020 and expects to implement further adjustments and changes in 2021

Context

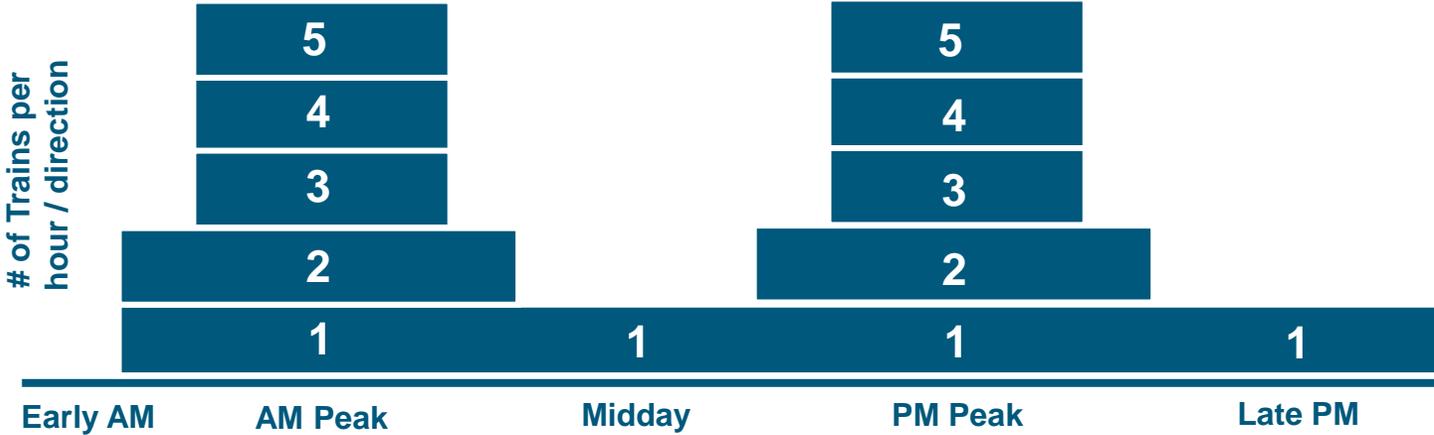
- The COVID-19 Pandemic is ongoing and the path to recovery and resolution is uncertain. Reopening of the region has been slow and uneven
- Initial CARES Act funding was exhausted in December timeframe. Further federal relief still forthcoming and Measure RR revenues not yet flowing.

Goals

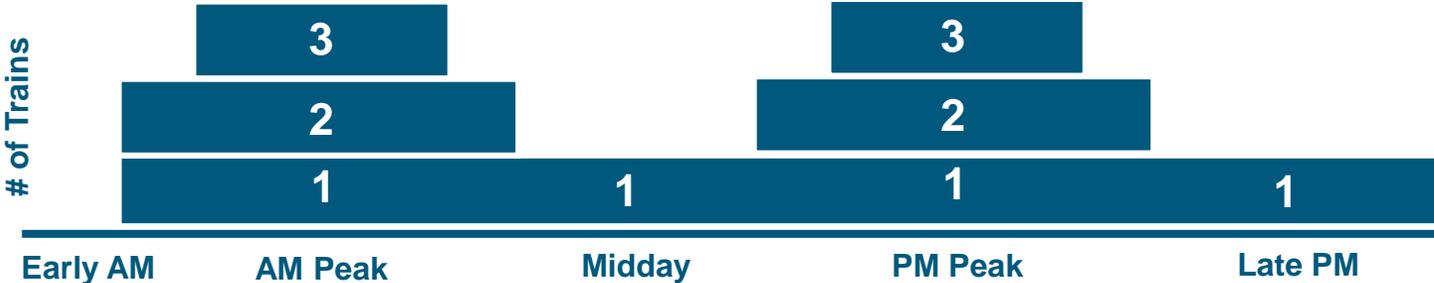
- Develop a consistent service framework that can be scaled up (and down) based on demand and funding availability while minimizing disruption and confusion for riders and connecting transit
- Focus on serving the riders who need Caltrain most, with an emphasis on implementing key elements of the Equity Connectivity Recovery and Growth policy
- Balance travel time and coverage goals while also maintaining capacity for social distancing

Previous Service Levels

Pre-COVID Service Plan
92 Trains/Day
65,000 Daily Riders



Summer/ Fall 2020 Service Plan
70 Trains/Day
~3,500 Daily Riders



Base Service Plan – Implemented December 2020

**Base
Service Plan**
68 Trains/Weekday

	AM Peak	Midday	PM Peak	Evening
# of Trains	2	2	2	
	1	1	1	1

Weekend
Hourly Service All Day
(28-32 Trains/Day)

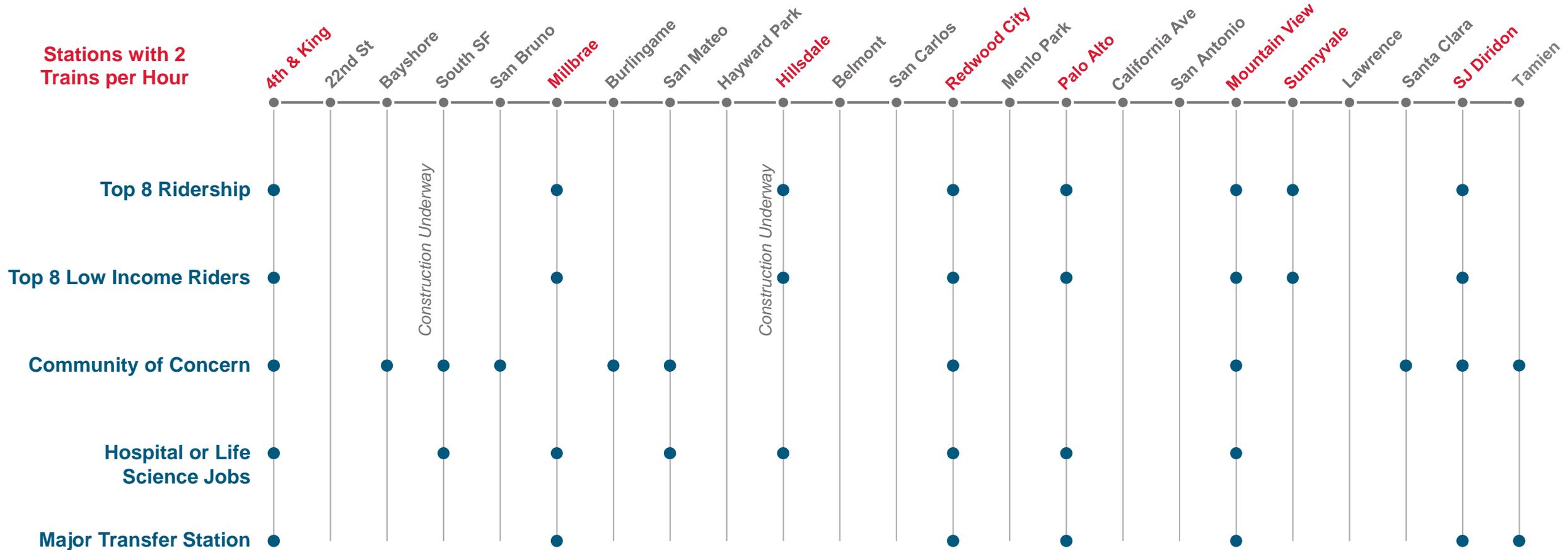
2 Trains per Hour, Per Direction – All Day

Caltrain is providing 2 trains per hour per direction in the peak- sufficient to meet demand. By expanding service to 2 trains through the midday period, Caltrain can better serve unmet needs of essential workers and lower income riders.

Hourly All-Day Weekend Service

Caltrain would increase weekend service to hourly frequencies to better serve weekend riders, especially essential workers and low-income riders.

Travel Markets & Equity



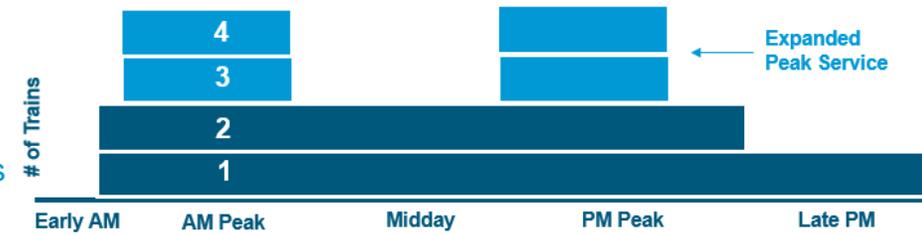
A Framework For Service

Ridership is not expected to fully recover in 2021. Depending on public health conditions and the railroad's finances, Caltrain may need to make further service adjustments including scaling service levels up or down to meet changing needs.

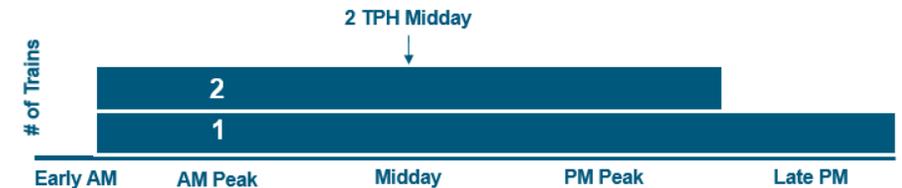
An Expanded Service Plan could restore service back to 92 trains per day.

An Austerity Service Plan could reduce service to as little as 44 trains per day and suspend weekend service.

Expanded Service Plan
92 Weekday Trains
28-32 Weekend Trains



Base Service Plan
68 Weekday Trains
28-32 Weekend Trains



Austerity Service Plan
44 Weekday Trains
No Weekend Trains

