

Commuter Rail Program

Caltrain Electrification – Tamien to Gilroy

Estimated Cost: \$301.7 million

Estimate Class 5 (see appendix)

Approved Budget: \$0

Year of Completion: 2036

Project Manager: Caltrain – Richard Schmedes
VTA – Kevin Connolly

Designer: TBD

Project Description:

The proposed Caltrain electrification project would convert the entire Caltrain system from the current diesel-electric locomotive power source to fully electric (25kV ac system) rolling stock. This portion of the project will be built as an extension to the initial phase (San Francisco to Tamien), and requires the installation of one power substation and two auto-transformer stations. Work will occur along the length of the rail corridor to string wires for the overhead contact system, which will provide power to trains at up to 90 mph, with the capability to adjust for 125 mph high speed rail.

Electric locomotives or electric multiple unit trainsets will be purchased and brought into revenue service, concurrently with this project. Options for the new electric rolling stock include electric locomotives with new or overhauled passenger cars, or electric multiple units.

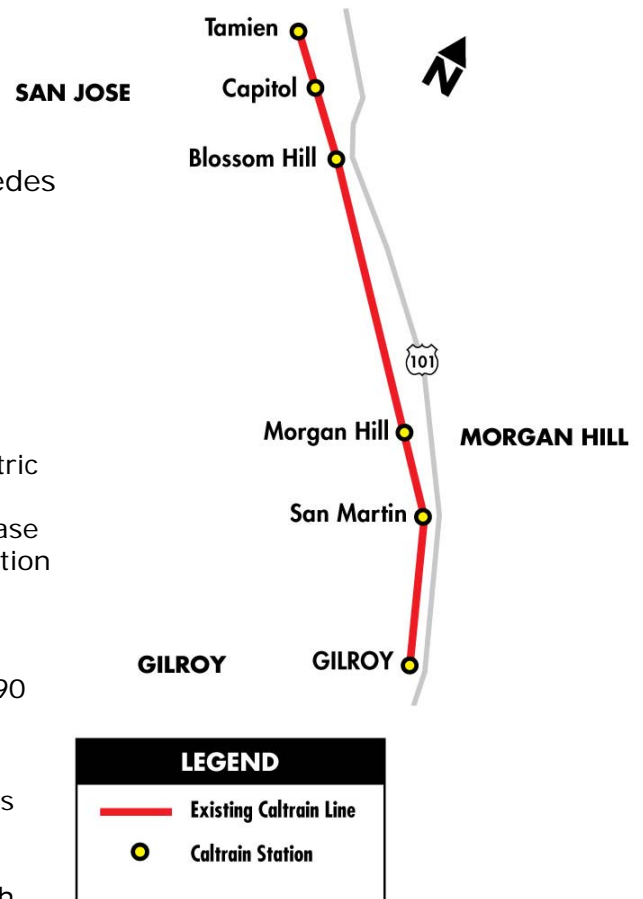
Project Status:

The electrification project was split into two phases, with first phase between San Francisco and Tamien in San Jose, and second phase between Tamien and Gilroy.

In June 2006, the VTA Board deferred Caltrain electrification from Tamien to Gilroy until 2036 based on the lower frequency of trains on this segment of the system.

Project Schedule:

Activity	Start	End	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
Environmental	Early 2028	Late 2029	█									
Design	Early 2028	Mid 2032	█									
Construction	Mid 2032	Mid 2035					█					
Testing & Commissioning	Mid 2035	Late 2036								█		
Revenue Service	Late 2036	N/A										◆
Closeout	Early 2037	Mid 2037										█



Approved Budget:

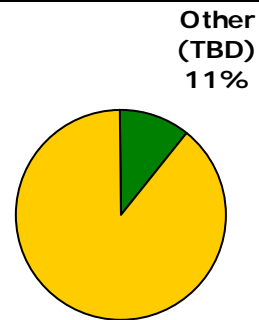
<u>Project Cost Element</u>	<u>Approved Project Budget</u> <i>a</i>	<u>Dec-07 Committed Costs</u> <i>b</i>	<u>Dec-07 Incurred Costs</u> <i>c</i>	<u>Budget Balance</u> <i>d = (a-c)</i>
Construction and Major Procurement	-	-	-	-
Real Estate	-	-	-	-
Labor, Services and Support	-	-	-	-
Contingency	-	-	-	-
Total Approved Budget	-	-	-	-

Approved Budget Incurred	X
Approved Budget Committed	X

NOTE: All amounts are Year Of Expenditure dollars in \$1,000's

Anticipated Funding:

<u>Funding Source</u>	<u>Amount</u>
Local (Measure A)	267.9 million
Other (TBD)	33.9 million
Total	\$301.7 million



Local
89%



Simulation of Electrified Caltrain at San Jose Diridon Station