



## **Quarterly Capital Program Status Report and DBE Status Report**

**Prepared for the June 07, 2018 Caltrain Board Meeting**

**3rd Quarter FY2018: January 01, 2018 – March 31, 2018**

# **Peninsula Corridor Joint Powers Board**





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## Caltrain - Capital Program - Budget Status Summary

3rd Quarter FY2018 - January 01, 2018 to March 31, 2018

All Costs in \$1,000's

Programs						
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018
1. Station and Intermodal Access	\$710	\$3,575	\$3,483	\$39,756	\$1,450	\$745
2. Right of Way / Signal & Communications	\$23,054	\$46,352	\$22,275	\$40,350	\$180,232	\$22,438
3. Rolling Stock	\$7,000	\$2,221	\$3,900	\$4,000	\$6,997	\$12,826
4. Operational Improvements/Enhancements	\$4,307	\$4,423	\$2,271	\$2,844	\$4,723	\$31,054
5. Planning and Studies	\$1,990	\$2,690	\$1,740	\$4,220	\$2,756	\$3,040
6. Caltrain Modernization Program	\$2,032	\$13,322	\$9,291	\$122,529	\$315,873	\$0
7. Legal Mandates & Required Enhancements	\$0	\$117,982	\$1,595	\$3,337	\$14,721	\$1,220
<b>Total Board Approved Budget by FY <sup>(1)</sup></b>	<b>\$39,093</b>	<b>\$190,565</b>	<b>\$44,555</b>	<b>\$217,036</b>	<b>\$526,752</b>	<b>\$71,323</b>

FY2018 - Planning and Studies program was increased by \$850K this quarter due to the agreement to fund the Project Study Report (PSR) for an alternative study on the grade separation at Whipple Avenue, Brewster Avenue and Broadway.

### Some of the major projects in progress or completed include, but are not limited to the following:

#### Currently in Progress

25th Avenue Grade Separation Project  
 Burlingame Broadway Grade Separation Project  
 CBOSS/PTC Project  
 Caltrain Right of Way Fencing Project  
 F-40 Locomotive Mid-Life Overhaul Project  
 Grade Crossing Improvement Projects  
 Los Gatos Bridge Replacement Project  
 Marin and Napoleon Bridge Closure Project  
 Mary Avenue Traffic Signal Project  
 New Control Point at Brittan Project  
 Right of Way Fencing Program  
 South San Francisco Station Improvements Project  
 Sunnyvale Station Rehabilitation Project  
 Systemwide Signal Rehabilitation Project  
 Systemwide Station Rehabilitation Project  
 Systemwide Track Rehabilitation Project

#### Completed Projects

Jerrold Avenue Bridge Replacement Project  
 Narrow Banding Project  
 Quint Street Bridge Project  
 Rail Grinding Project  
 Rail Operation Control System (ROCS) Project  
 Real Time Transit Information Project - Predictive Arrival/Departure System (PADS)  
 San Bruno Grade Separation Project  
 San Francisco Bridge Replacement Project  
 San Mateo Bridges Rehabilitation Project

Note: The "Total Board Approved Budget by FY" reflects the annual fiscal year capital budget approved by the Caltrain Board. This authorizes the amount that can be spent on projects. Unspent budget in a fiscal year may be carried forward to subsequent budget years.

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## TRAFFIC LIGHT REPORT

The following projects represent a sub-set of the total Capital Program and have been selected for inclusion into the Quarterly Report due to project value, operational significance, and/or impact on customers.

	SCOPE		SCHEDULE		BUDGET / COST		
	Q2 FY18	Q3 FY18	Q2 FY18	Q3 FY18	Q2 FY18	Q3 FY18	
25th Ave. Grade Separation Project							4
Burlingame Broadway Grade Separation Project (Preliminary Design/Environmental Clearance)							6
F-40 Locomotive Mid-Life Overhaul Project							8
Grade Crossing Improvement Project – FY2016							10
Grade Crossing Improvements in Redwood City Project							12
Guadalupe River Bridges Replacement and Extension Project (Preliminary Design/Environmental Clearance)							14
Inward Facing Cameras on Trains Project							16
Los Gatos Creek Bridge Replacement Project							18
Marin Street and Napoleon Avenue Bridge Closure Project							20
Mary Avenue Traffic Signal Project							22
MP-36 Locomotive Mid-Life Overhaul Project							24
New Control Point at Brittan Project							26
Railroad Communications System (SOG) Project - FY2013 & FY2014							28
Railroad Communications System Project - FY2017							30
Right Of Way Fencing Project							32
San Francisco Roadway Bridges Replacement Project							34
Santa Clara County Grade Crossing Medians Project							36
South San Francisco Station Improvement Project							38
South Terminal Phase II Project (Preliminary Design/Environmental Clearance)							40
Sunnyvale Station Platform Rehabilitation Project							42
Systemwide Signal System Rehabilitation Project - FY2013							44
Systemwide Signal System Rehabilitation Project - FY2016							46
Systemwide Signal System Rehabilitation Project - FY2017							48
Systemwide Station Improvements Project - FY2016							50
Systemwide Track Rehabilitation Project - FY2016							52
Upgrade CCF Equipment Room Cooling Project							54

Note: HSR is no longer reported.



= Project On-Hold



= No Issues



= Notable Issues



= Significant Issues

## 25th AVENUE GRADE SEPARATION PROJECT

## SCOPE



## SCHEDULE



## BUDGET/COST



## SCOPE:



This project will raise the vertical alignment and provide grade separations between Hillsdale Boulevard and SR-92 in the City of San Mateo, including:

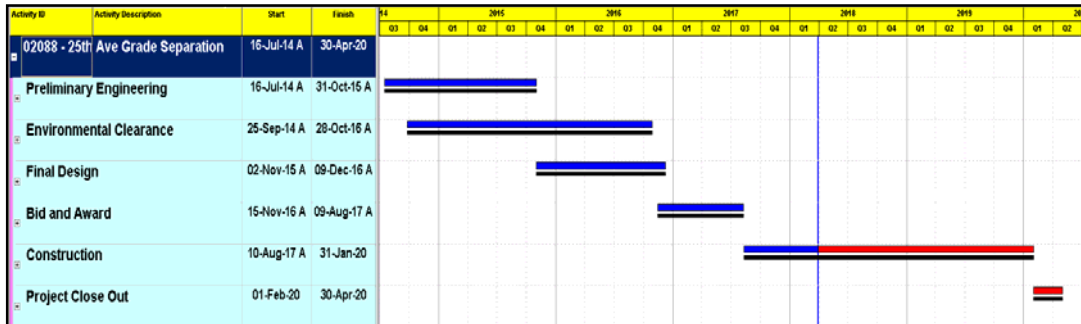
- Grade separating the 25th Avenue at-grade crossing.
- Construction of two new grade separated crossings at 28th and 31st Avenues.
- Perform relocation of the existing Hillsdale Caltrain station. The new station will be an elevated, center-board platform, located south of 28th Avenue.

Scope includes final design/environmental (CEQA and NEPA) clearance work and construction to replace the existing 25th Avenue at-grade crossing with a two-track elevated grade separation. The elevated rail alignment will require the relocation of the existing Hillsdale Caltrain Station northward to a location between 28th and 31st Avenues and will allow for new street connections between El Camino Real and Delaware Street at 28th and 31st Avenues in San Mateo, California.

## Issues:

None.

## SCHEDULE:



## Progress:

Jan - Mar 2018

- (1) Continued meeting with Stakeholders.
- (2) Continued discussion with property owners.
- (3) Continued order of possession for ROW.
- (4) Continued underground utility potholing
- (5) Completed clearing and grubbing.
- (6) Continued temporary utility relocation: PTC, PG&E OH, and Comcast.
- (7) Completed Cast in drilled hole (CIDH) installations at Pedestrian underpass, 28th avenue and Borel Creek.
- (8) Completed shoring & tie-back installation at 28th & 31st avenue.
- (9) Continued 31st avenue bridges shoring & tie-back installation.
- (10) Cut over to 25th avenue temporary intermediate signal installation.
- (11) Completed Beresford creek bridge abutments.
- (12) Continued pedestrian underpass bridge abutment and columns.
- (13) Began 25th ave bridge third party utility protection for abutment work.

## Future

## Activities:

Apr - Jun 2018

- (1) Continue meeting with Stakeholders.
- (2) Continue discussion with property owners.
- (3) Continue order of possession for ROW.
- (4) Continue underground utility potholing.
- (5) Install Beresford creek bridge girders.
- (6) Begin 25th avenue bridge abutment works.
- (7) Begin 28th avenue bridge third party utility protection for abutment work.
- (8) Continue pedestrian underpass bridge abutments and columns.
- (9) Begin ground improvements north of 28th ave.

## Issues:

None.

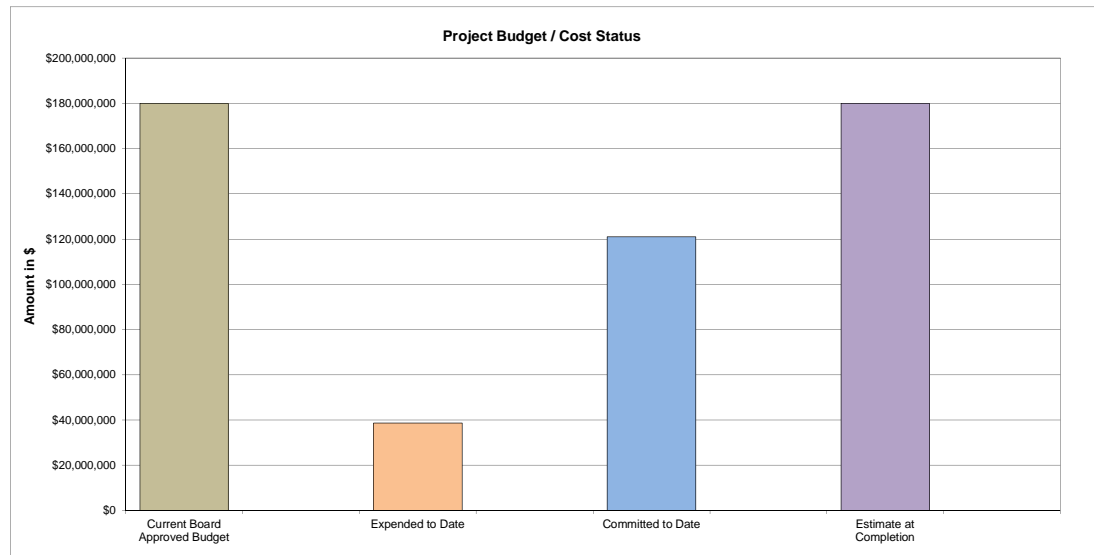


## 25th AVENUE GRADE SEPARATION PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$180,000,000</b>	<b>\$38,647,433</b>	<b>\$121,008,921</b>	<b>\$180,000,000</b>	<b>\$0</b>



**Issues:** None.

## BURLINGAME BROADWAY GRADE SEPARATION PROJECT (Preliminary Design/Environmental Clearance)

## SCOPE



## SCHEDULE



## BUDGET/COST

**SCOPE:**

The project will grade separate the Broadway railroad crossing in the City of Burlingame by partially elevating the rail and partially depressing the roadway. The elevated rail alignment will require the reconstruction of the Broadway Caltrain Station. Reconstruction of the Broadway Caltrain Station will remove the operational requirement of the hold-out rule.

The scope for this project specifically is to complete the 35% preliminary design and obtain CEQA and NEPA environmental clearance needed to grade separate the Broadway at-grade crossing as described above.

**Issues:**

The project scope will advance the design to 35% and environmentally clear the grade separation only.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2018				2019			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
100244 - Burlingame Broadway Grade Separation		18-Dec-17 A	29-Jun-19								
Preliminary Engineering		18-Dec-17 A	29-Jun-19								

**Progress:**

- Jan - Mar 2018
- (1) Continued meeting with stakeholders.
  - (2) Performed data collection/fieldwork for wetlands, floodplains, cultural resources, hazmat existing conditions.
  - (3) Prepared preliminary shoofly and track alignment plan.
  - (4) Began preparation of technical studies for environmental clearances.
  - (5) Began working on roadway profiles and lane configuration plans.
  - (6) Prepared station and parking lot layout.

**Future****Activities:**

- Apr - Jun 2018
- (1) Continue meeting with stakeholders.
  - (2) Continue technical studies for environmental clearances.
  - (3) Continue working on roadway profiles and lane configuration plans.
  - (4) Prepare community outreach plan.

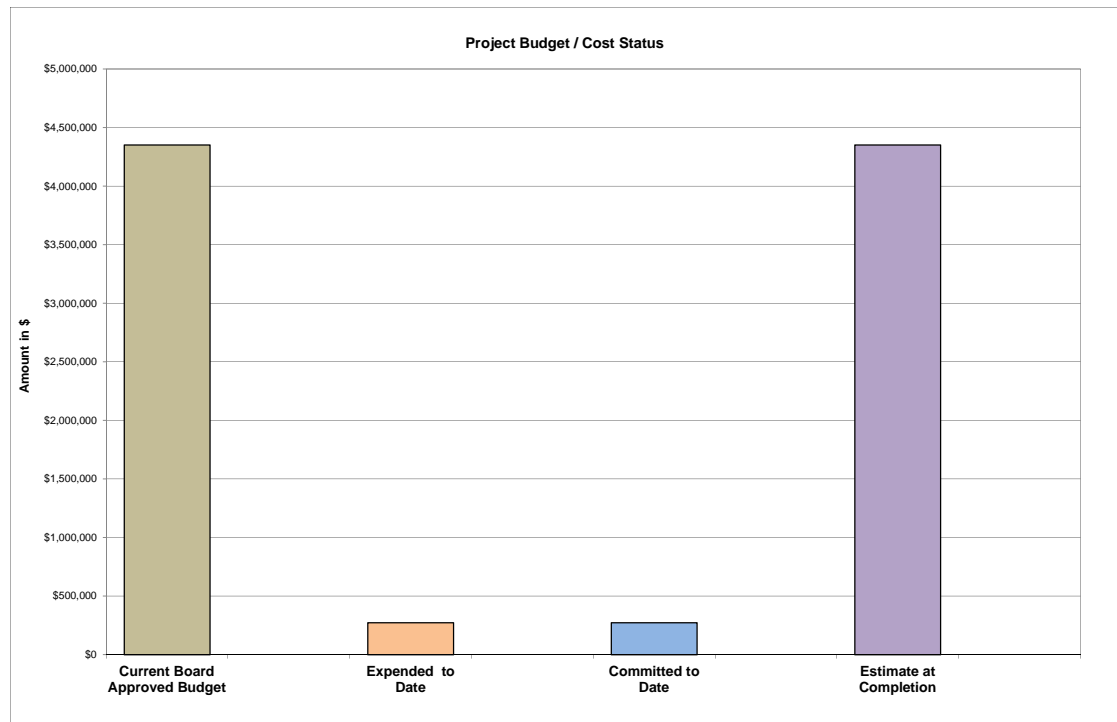
**Issues:**

None.

**BURLINGAME BROADWAY GRADE SEPARATION PROJECT**  
**(Preliminary Design/Environmental Clearance)**

**BUDGET:**

	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$4,350,000</b>	<b>\$273,117</b>	<b>\$273,117</b>	<b>\$4,350,000</b>	<b>\$0</b>



**Issues:** None.

**F-40 LOCOMOTIVE MID-LIFE OVERHAUL PROJECT**

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project will perform mid-life overhaul of three F40PH2C locomotives. The mid-life overhaul of the locomotives shall include complete disassembly of the main diesel engine, overhauling by reconditioning re-usable main frame components and re-assembly with new engine components and replacement of the Separate Head-End Power (SEP-HEP) unit and all electrical components of the SEP-HEP compartment. All areas of the locomotive carbody, trucks, wheels and electrical components shall be reconditioned to like-new condition or replaced with new material. The work shall be completed off-site at contractor's (Motive Power) facility location at Boise, Idaho. Project also includes onsite inspection and contract management by JPB's vehicle consultant. Final acceptance of the completed locomotive overhaul will be conducted at the JPB's CEMOF facility in San Jose. The three locomotives are:

1. Locomotive # 920
2. Locomotive # 921
3. Locomotive # 922

**Issues:** None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2017			2018					
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
100005 - F-40 Mid-Life Overhaul		31-Mar-17 A	30-Apr-19									
Technical Specs		31-Mar-17 A	31-Mar-17 A									
Bid and Award		01-Apr-17 A	02-Oct-17 A									
Construction		03-Oct-17 A	31-Jan-19									
Project Close Out		01-Feb-19	30-Apr-19									

**Progress:**

Jan - Mar 2018 (1) Began the overhaul of locomotive #920, delivered to Motive Power's facility plant in February 2018.  
 (2) Began the overhaul of locomotive #921, delivered to Motive Power's facility plant in March 2018.

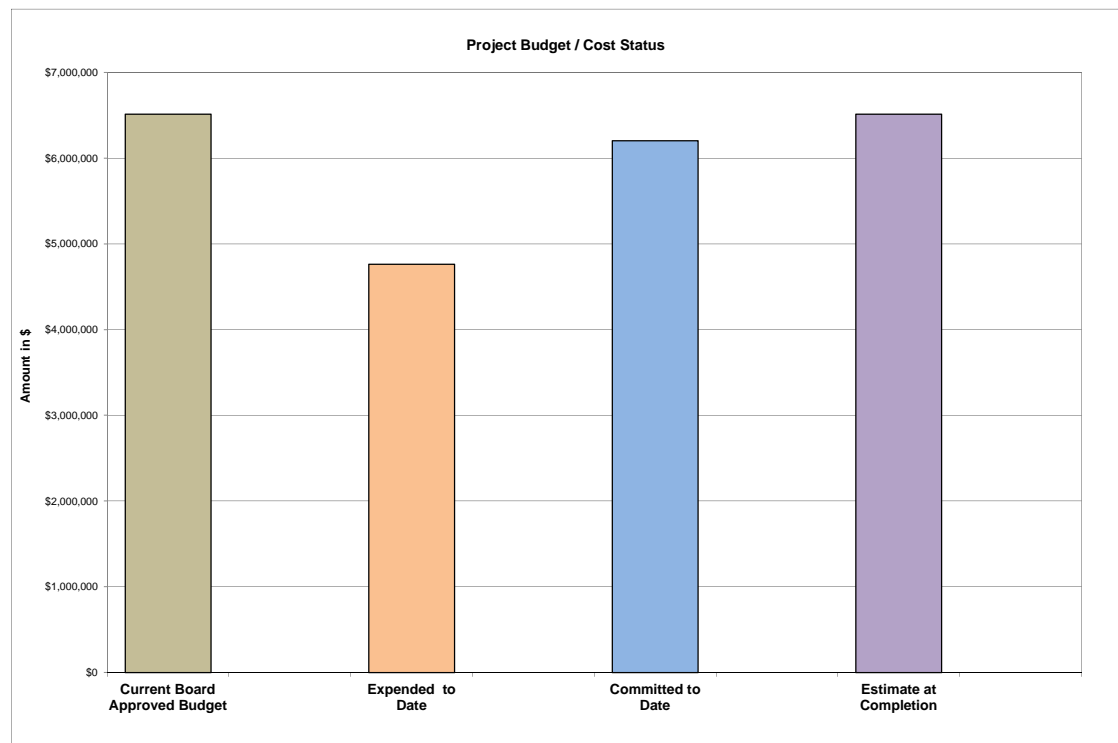
**Future****Activities:**

Apr - Jun 2018 (1) Continue the overhaul of locomotive #920. Return and final acceptance is expected in the Summer of 2018.  
 (2) Continue the overhaul of locomotive #921. Return and final acceptance is expected in the Summer of 2018.  
 (3) Locomotive #922 is expected to be shipped to contractor's facility in Boise, ID in June. Return is scheduled for January 2019.

**Issues:**

**F-40 LOCOMOTIVE MID-LIFE OVERHAUL PROJECT****BUDGET:**

	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$6,510,000</b>	<b>\$4,760,630</b>	<b>\$6,201,155</b>	<b>\$6,510,000</b>	<b>\$0</b>



**Issues:** None.

## GRADE CROSSING IMPROVEMENT PROJECT – FY2016

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

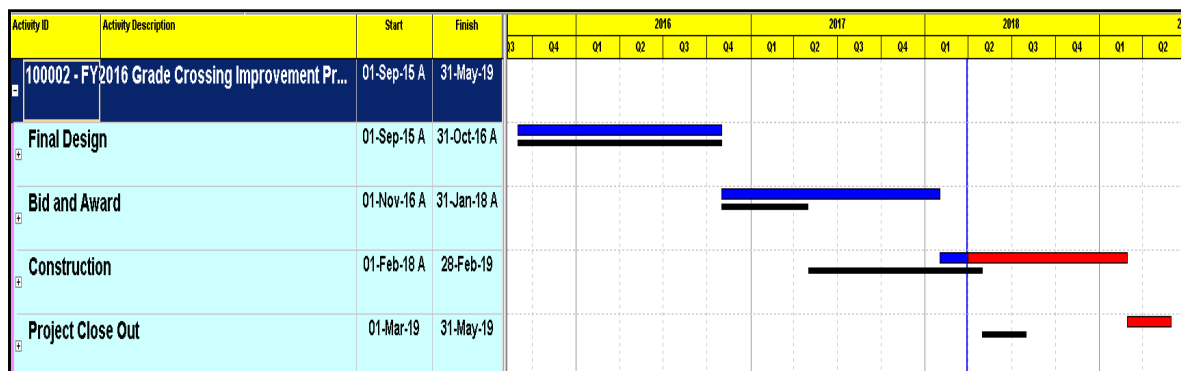
This project is the continuation of the Caltrain Grade Crossing Improvement Program. It will take the conceptual design of the following top 10 (out of 42) highest priority crossings identified in the Caltrain Grade Crossing Hazard Analysis Report and advance them to final design. The ten grade crossings were chosen because they had an average daily traffic count of 12,000 vehicles or more, which is considered high usage. Work items included are the installation of signals, fences, gates, curbs, lighting and signs. The existing grade crossing warning devices will be retrofitted to meet the latest California Public Utilities Commission standards.

The ten grade crossing are:

- |                                      |                                  |
|--------------------------------------|----------------------------------|
| 1. Broadway (Burlingame)             | 6. Castro Street (Mountain View) |
| 2. Mary Avenue (Sunnyvale)           | 7. Peninsula Avenue (Burlingame) |
| 3. Ravenswood Avenue (Menlo Park)    | 8. Alma Street (Palo Alto)       |
| 4. Rengstorff Avenue (Mountain View) | 9. 16th Street (San Francisco)   |
| 5. Charleston Road (Palo Alto)       | 10. 4th Street (San Mateo)       |

**Issues:**

Grade Crossing Improvement FY2016 construction contract has been combined with Santa Clara County Grade Crossing Medians Project for administrative efficiency.

**SCHEDULE:****Progress:**

Jan - Mar 2018

- (1) Received approval at the January 2018 Board meeting to award the construction contract.
- (2) Issued Limited Notice to Proceed (LTNP).
- (3) Began receiving submittals from contractor.

**Future****Activities:**

Apr - Jun 2018

- (1) Continue receiving submittals from contractor.
- (2) Review and approve contractor's baseline schedule.

**Issues:**

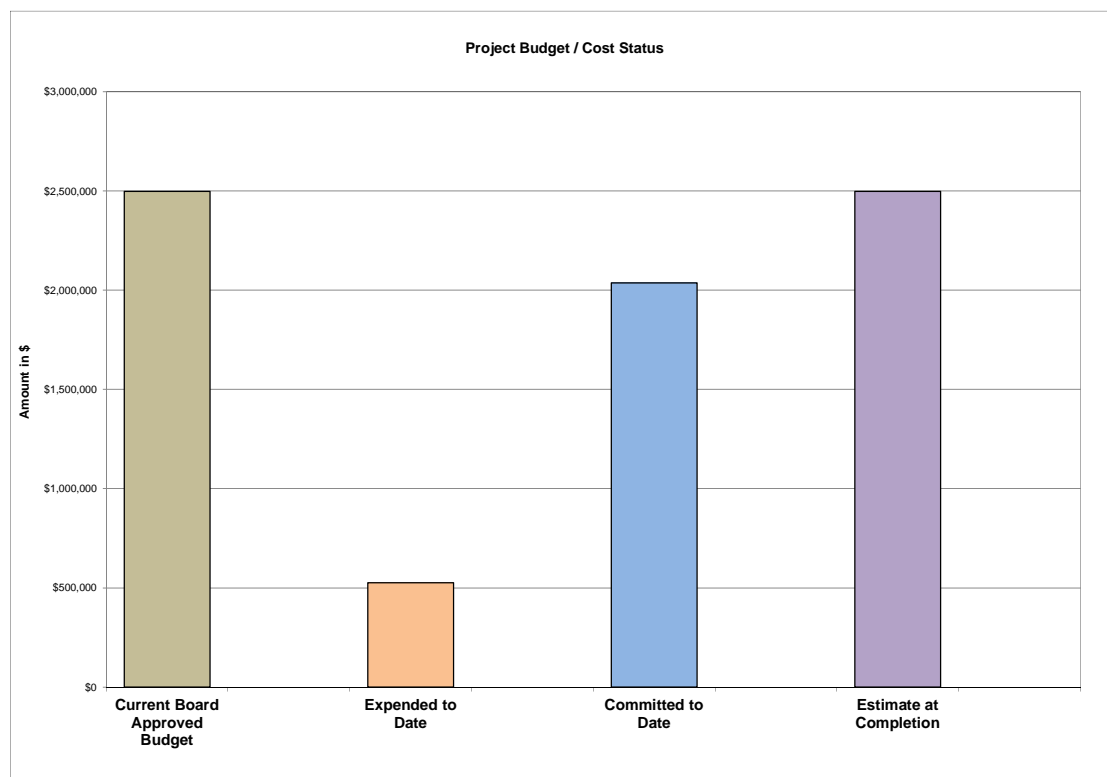
Schedule extension is due to delay in receiving FRA grant funding and high bid received in response to first IFB resulting in rejection of bid and subsequent re-scoping and re-advertising of the construction contract. The schedule will be re-baselined when contractor's approved baseline schedule is received.

## GRADE CROSSING IMPROVEMENT PROJECT – FY2016

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$2,499,000</b>	<b>\$526,581</b>	<b>\$2,036,646</b>	<b>\$2,499,000</b>	<b>\$0</b>



**Issues:** None.

## GRADE CROSSING IMPROVEMENTS IN REDWOOD CITY PROJECT

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project will make improvements to three grade crossings (Whipple Ave, Main St. and Broadway) in Redwood City according to the scope defined in the CPUC Section 130 program. The grade crossing improvements will cover railroad, traffic, and roadway safety systems. The design components at each grade crossing include but are not limited to the following:

- Replacing vehicle gate arms
- Channelized pedestrian crossing with fencing & rails
- Improve sidewalk markings
- Improve pavement markings (striping, stop bars, etc.)
- Install standalone pedestrian gates
- Upgrade traffic signal interconnect

**Issues:**

None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2016				2017				2018			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
100056 - Grade Crossing Improvements in Redwood City		01-Feb-16 A	30-Nov-18												
Engineering Design		01-Feb-16 A	31-Oct-16 A												
Bid and Award		01-Dec-16 A	31-Aug-17 A												
Construction		01-Sep-17 A	31-Aug-18												
Project Close Out		01-Sep-18	30-Nov-18												

**Progress:**

Jan - Mar 2018

- (1) Received all the necessary documents from the contractor and issued Notice to Proceed (NTP).
- (2) Surveyed and marked out all the existing utilities and signal lines.
- (3) Complete boring under Broadway and the tracks at Main Street.
- (4) Installed conduits and pull boxes for the signal cables at Broadway and Main Street.
- (5) Installed new concrete track ties and panel at Main Street.

**Future****Activities:**

Apr - Jun 2018

- (1) Install pedestrian gate foundations.
- (2) Pull signal cables from signal house to the new pedestrian gates.

**Issues:**

Schedule was rebaselined based on the contractor's baseline schedule.

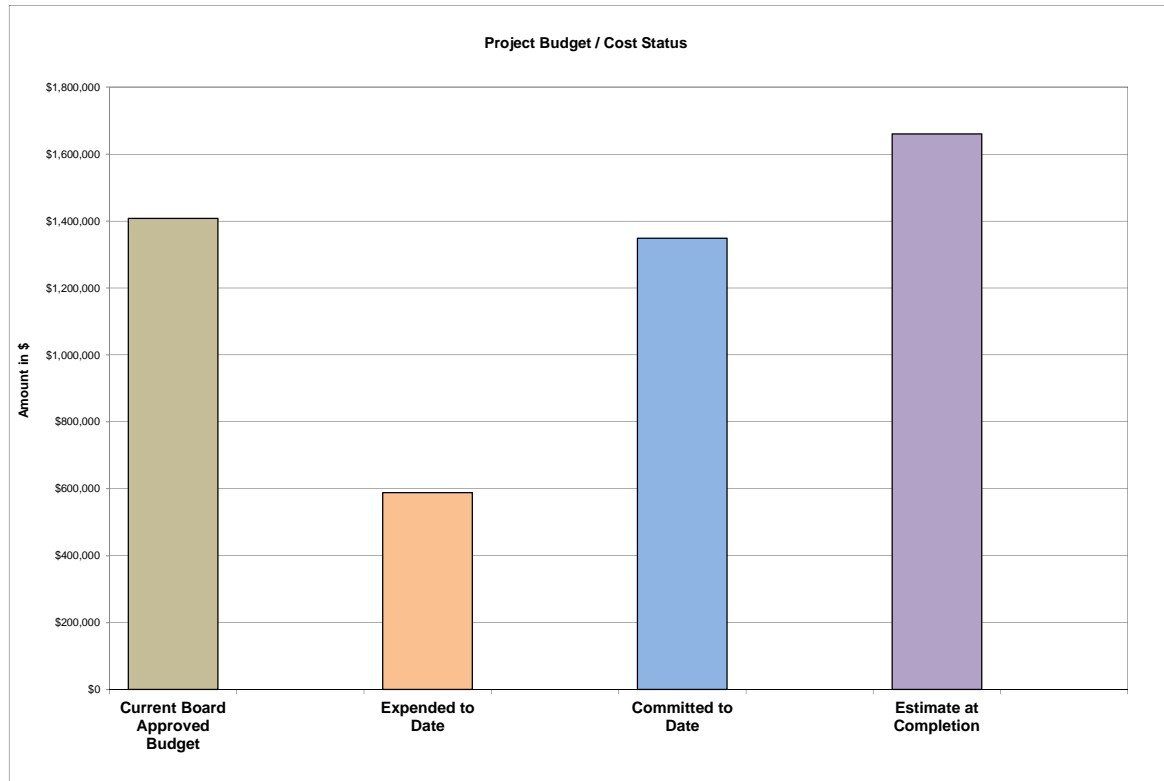


## GRADE CROSSING IMPROVEMENTS IN REDWOOD CITY PROJECT

BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$1,408,250</b>	<b>\$588,248</b>	<b>\$1,348,992</b>	<b>\$1,660,500</b>	<b>(\$252,250)</b>



**Issues:** Increase in Estimate at Completion is due to receiving higher than expected construction bids. Additional funding has been approved by CPUC and Caltrans but is not yet available.

## GUADALUPE RIVER BRIDGES REPLACEMENT AND EXTENSION PROJECT (Preliminary Design/Environmental Clearance)

**SCOPE****SCHEDULE****BUDGET/COST****SCOPE:**

Total project scope includes:

- 1) Coordination with the US Army Corps of Engineers (USACE) and the Santa Clara Valley Water District (SCVWD) regarding their flood control project, where two new railroad bridges (MT1 and MT2) over a new secondary flood plain adjacent to the existing Guadalupe River Bridges will be constructed.
- 2) Replacement of MT1 Bridge in the current location includes:
  - a. Prepare preliminary and Final Design.
  - b. Prepare environmental documents.
  - c. Construct MT1 Bridge.

**Issues:**

Current scope is for preliminary design only.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2018								2019		
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
02113 - Guadalupe River Bridge Replacement		21-Aug-17 A	30-Sep-19											
Preliminary Engineering		21-Aug-17 A	30-Sep-19											

**Progress:**

- Jan - Mar 2018
- (1) Began meeting with Stakeholders.
  - (2) Began right of way (ROW) records and mapping.
  - (3) Began track and bridge plans.

**Future****Activities:**

- Apr - Jun 2018
- (1) Continue meeting with Stakeholders.
  - (2) Continue ROW records and mapping.
  - (3) Continue track and bridge plans.
  - (4) Complete 35% design and begin review.

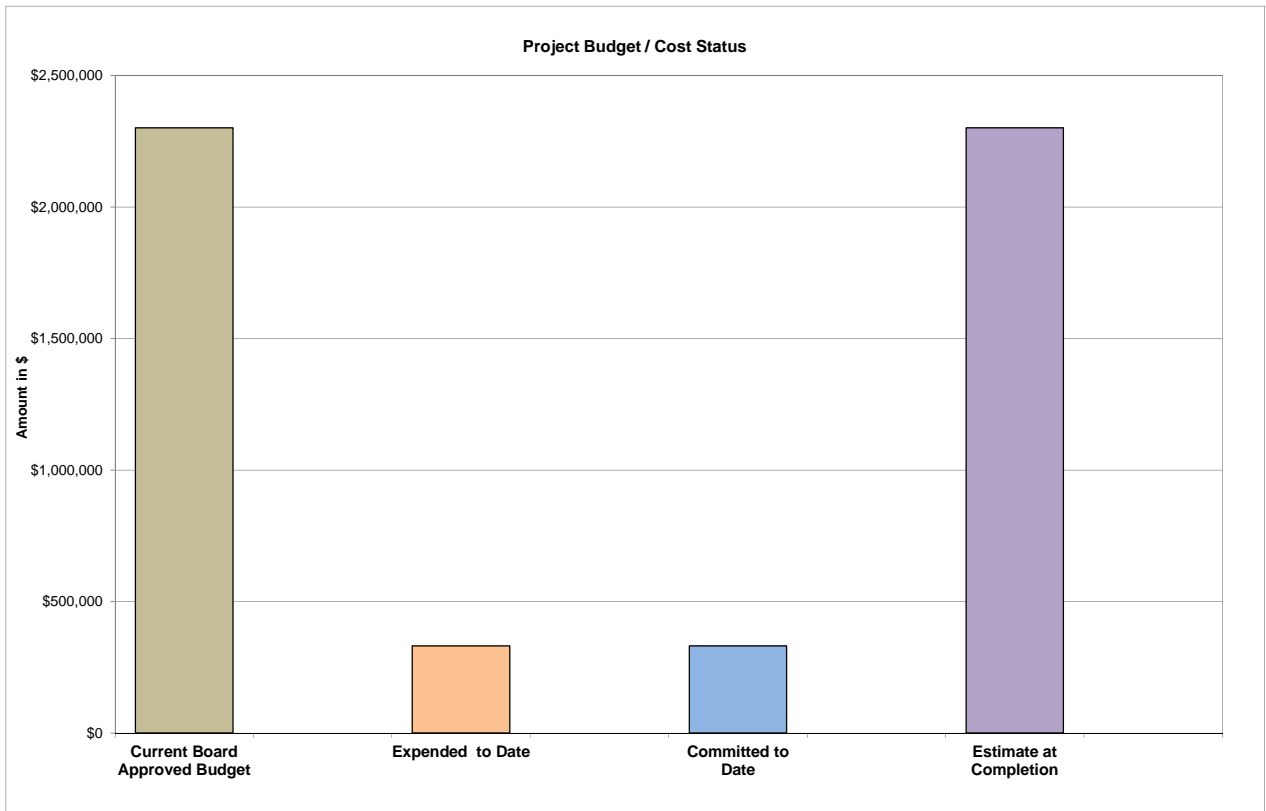
**Issues:**

None.

## GUADALUPE RIVER BRIDGES REPLACEMENT AND EXTENSION PROJECT (Preliminary Design/Environmental Clearance)

**BUDGET:**

	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$2,300,000</b>	<b>\$330,936</b>	<b>\$330,936</b>	<b>\$2,300,000</b>	<b>\$0</b>



**Issues:** None.

## INWARD FACING CAMERAS ON TRAINS PROJECT

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project will install one inward facing camera and one interior microphone on Caltrain locomotives and cab cars to capture in-cab action during critical incidents based on recent NTSB recommendations. The cameras and microphones will be compatible with the existing system installed in 2013.

In 2013, Caltrain installed outward facing cameras and exterior microphones in its locomotives and cab cars to provide the agency with a tool for post incident investigation. The existing system includes a digital video recorder (DVR) and 500 GB hard drive which can store up to 28 days of video footage.

**Issues:**

None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2016					2017				2018			
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
02148 - Inward Facing Cameras on Train		01-Nov-15 A	31-Jul-18													
Engineering Design		01-Nov-15 A	30-Apr-16 A													
Bid and Award		01-Mar-17 A	30-Nov-17 A													
Construction		10-Dec-17 A	30-Apr-18													
Project Close Out		01-May-18	31-Jul-18													

**Progress:**

Jan - Mar 2018

- (1) Contractor mobilized at CEMOF.
- (2) Camera equipment was delivered.
- (3) Contractor's baseline schedule was approved.
- (4) Initiated installation of camera equipment in locomotives and cab cars.

**Future****Activities:**

Apr - Jun 2018

- (1) Complete installation of camera equipment in locomotives and cab cars.
- (2) Initiate project close-out activities (including system testing and training).

**Issues:**

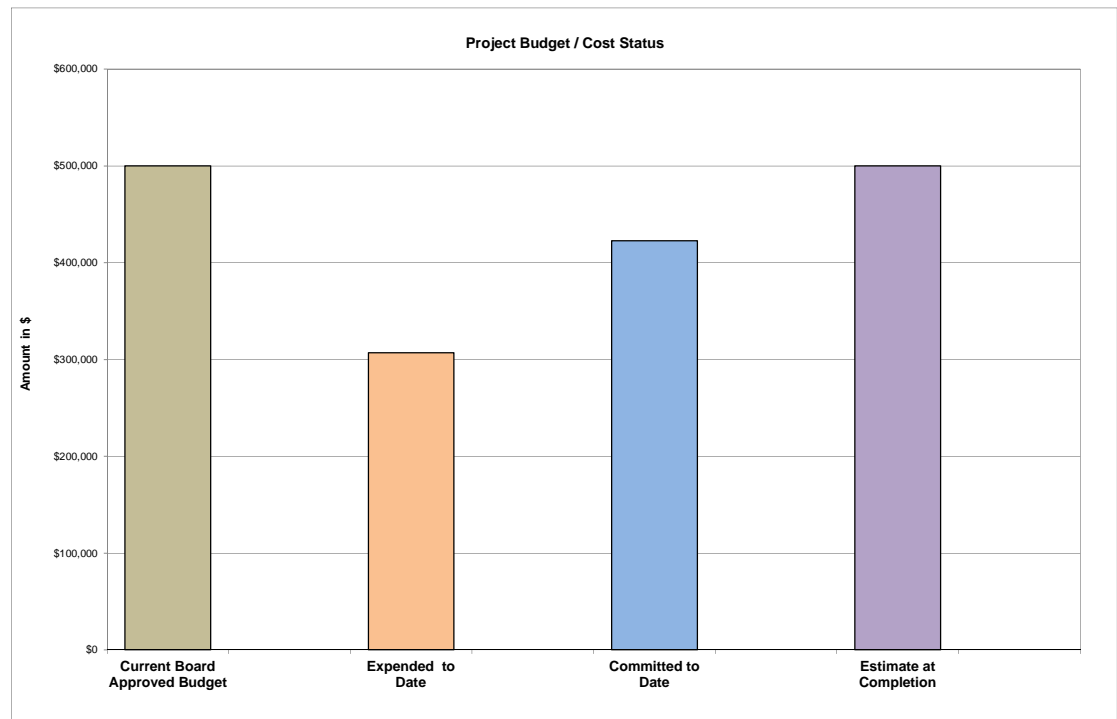
Schedule was re-baselined based on contractor's schedule.

## INWARD FACING CAMERAS ON TRAINS PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$500,000</b>	<b>\$306,899</b>	<b>\$422,791</b>	<b>\$500,000</b>	<b>\$0</b>



**Issues:** None.

## LOS GATOS CREEK BRIDGE REPLACEMENT PROJECT

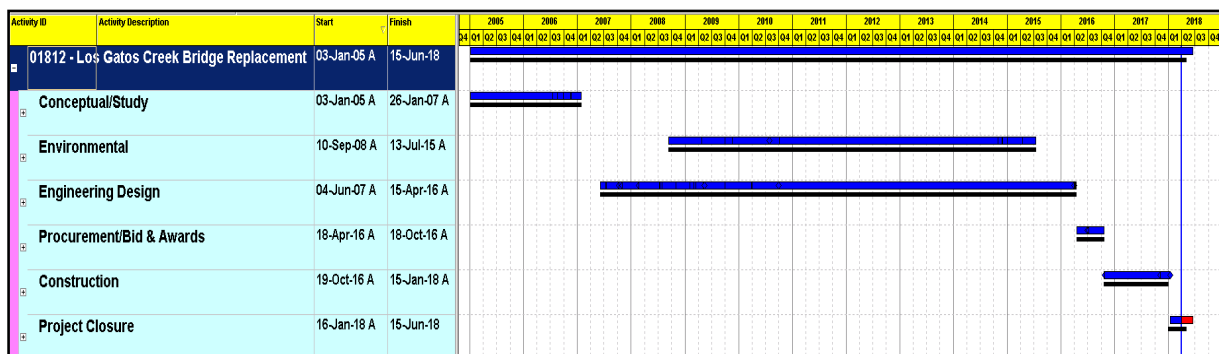
**SCOPE:**

Scope of the Los Gatos Creek Bridge Replacement Project includes:

Preliminary Design, Environmental Document, Final Design and Construction for removal and replacement of the existing MT-1 and MT-2 bridges crossing the Los Gatos Creek. As recommended in the PSR, the new replacement structure is to be a pre-stressed / pre-cast concrete bridge with new foundations and a new widened bridge deck that allows construction for a permanent tail track and signal work. The permanent tail track and signal work is being covered under the South Terminal Phase 3 project. Environmental Clearance is obtained through the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) process.

**Issues:**

None.

**SCHEDULE:****Progress:**

Jan - Mar 2018

- (1) Completed coordination and cost sharing agreement with the City of San Jose.
- (2) Completed coordination with the UPRR.
- (3) Completed punch list work.
- (4) Continued project close-out.
- (5) Continue processing of final change orders.

**Future****Activities:**

Apr - Jun 2018

- (1) Complete project close-out.
- (2) Achieve final acceptance.

**Issues:**

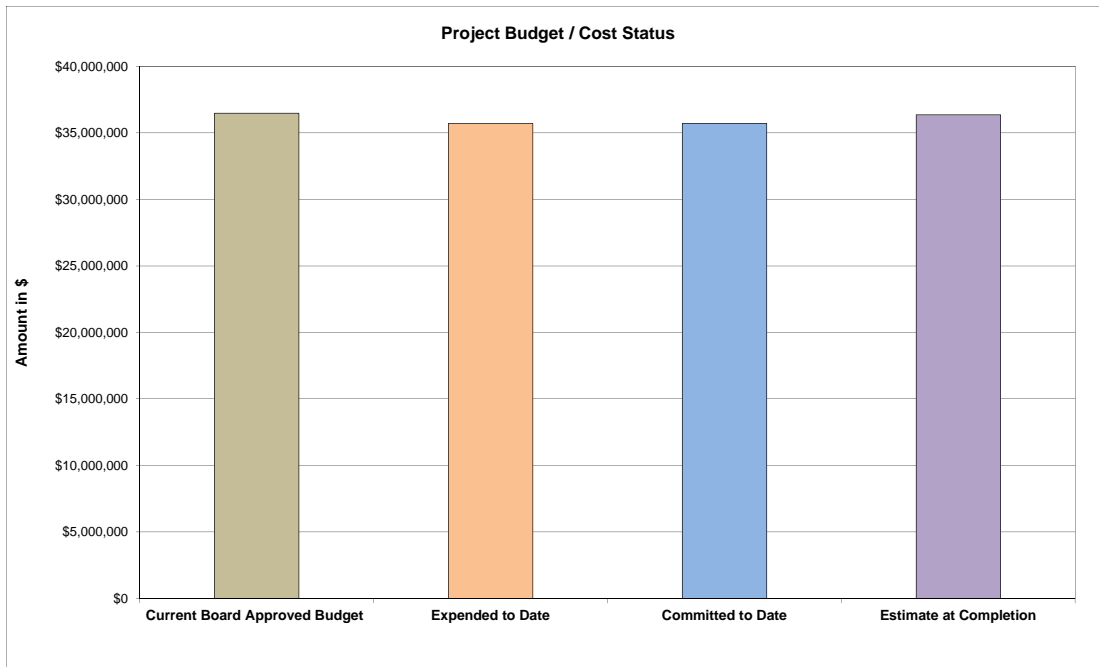
None.

## LOS GATOS CREEK BRIDGE REPLACEMENT PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$36,485,963</b>	<b>\$35,716,681</b>	<b>\$35,716,681</b>	<b>\$36,358,553</b>	<b>\$127,410</b>



**Issues:** None.

## MARIN STREET AND NAPOLEON AVENUE BRIDGE CLOSURE PROJECT

## SCOPE



## SCHEDULE



## BUDGET/COST



## SCOPE:



Marin Street and Napoleon Avenue bridges are located at MP 2.35 and MP 2.45 respectively in the City and County of San Francisco.

(1) Project Scope was revised due to the discovery of a city facility below the planned elevated berm that prohibits the original planned scope. The scope was revised so that instead of removing the existing bridges entirely, the revised work scope is to rehabilitate and replace the bridge components that are in need of repair, as well as remove several short spans that are no longer needed functionally.

(2) Track Geometry will not be altered; tracks will be reconstructed to the current alignment and profile.

## Issues:

A decision was made to include Marin Street scope.

## SCHEDULE:



Activity ID	Activity Description	Start	Finish	2015					2016					2017					2018					2019				
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1			
02080 - Marin & Napoleon Ave Bridge Closure		01-Dec-14 A	31-Dec-19																									
Preliminary Engineering		01-Dec-14 A	30-Apr-16 A																									
Engineering Design		01-May-16 A	31-Mar-17 A																									
Bid and Award		01-May-18	30-Sep-18																									
Construction		01-Oct-18	31-Aug-19																									
Project Close Out		01-Sep-19	31-Dec-19																									

## Progress:

Jan - Mar 2018

- (1) Continued out-reach to impacted stakeholders such as City and County of San Francisco and Caltrans regarding project.
- (2) Continued developing division 01 specifications.
- (3) Completed evaluating options for including Marin into construction package.
- (4) Began revising construction package to include Marin Street bridge maintenance.
- (5) Distributed package to design stakeholders to confirm no changes to existing condition prior to advertisement.
- (6) Continued coordination with PCEP to ensure sufficient on-track safety resources are available when work is done concurrently with Tunnel Rehabilitation project.

## Future

## Activities:

Apr - Jun 2018

- (1) Continue out-reach to impacted stakeholders such as city and county of San Francisco and Caltrans regarding project.
- (2) Continue developing division 01 specifications.
- (3) Address design stakeholder's comments.
- (4) Confirm allowable work windows to include in Division 01 Specifications.
- (5) Continue coordination with PCEP to ensure sufficient on-track safety resources are available when work is done concurrently with Tunnel Rehabilitation project.

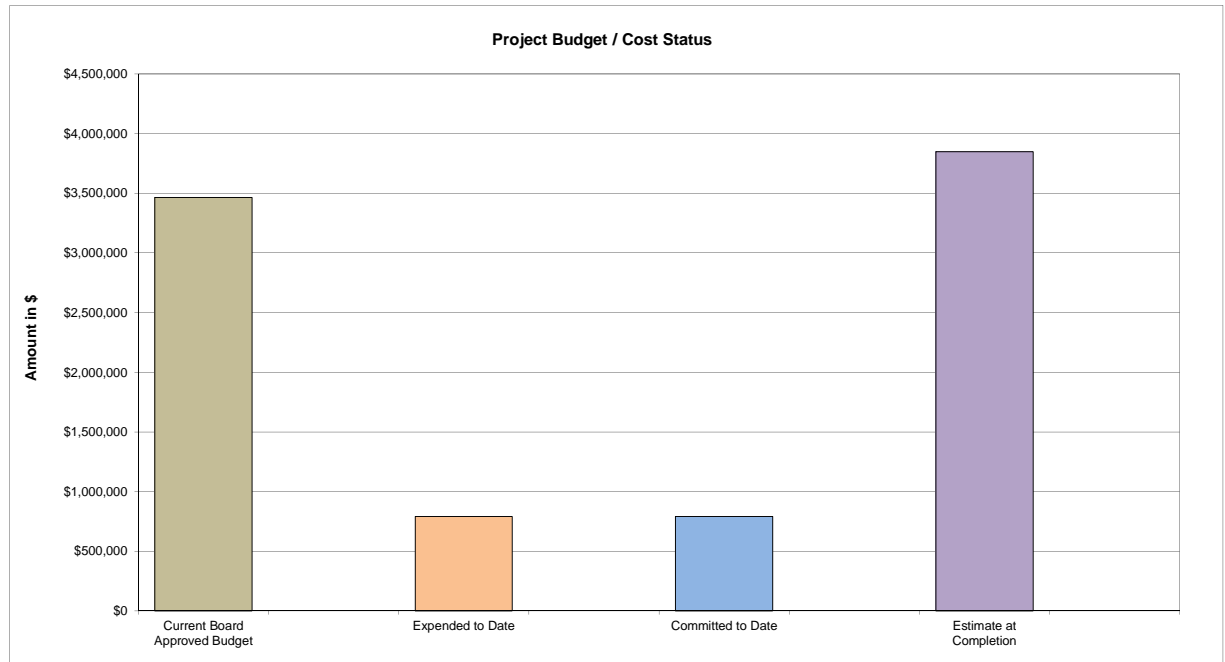
## Issues:

Project schedule has been extended due to insufficient funding to proceed to award of construction. Additional funding was approved in FY2018 sufficient for Napoleon Street Bridge, additional funding will be requested in FY2019 for Marin Street Bridge Maintenance. Schedule will be rebaselined when we approve contractor's baseline schedule.



**MARIN STREET AND NAPOLEON AVENUE BRIDGE CLOSURE PROJECT****BUDGET:**

	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$3,464,000</b>	<b>\$790,075</b>	<b>\$790,075</b>	<b>\$3,850,000</b>	<b>(\$386,000)</b>



**Issues:** Additional funding has been requested in FY2019 for Marin Street Bridge Maintenance work.

## MARY AVENUE TRAFFIC SIGNAL PROJECT

## SCOPE



## SCHEDULE



## BUDGET/COST



## SCOPE:



Caltrain will install an Advance Signal Preemption system at the Mary Avenue grade crossing to provide additional time for the City's traffic signals at Mary Avenue and Evelyn Avenue to respond to allow Caltrain to pass through.

## Issues:

None.

## SCHEDULE:



Activity ID	Activity Description	Start	Finish	2018				2019				2020			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
100278 - Mary Avenue Traffic Signal		01-Feb-18 A	31-Oct-20												
Final Design		01-Feb-18 A	30-Jun-19												
Construction		01-Jul-19	31-Jul-20												
Project Close Out		31-Jul-20	31-Oct-20												

## Progress:

Jan - Mar 2018 (1) Received funding from Caltrans.  
(2) Worked with City of Sunnyvale and CPUC to determine the amount advance signal preemption time required.

## Future

## Activities:

Apr - Jun 2018 (1) Continue to work with the City of Sunnyvale on the conceptual design for the advance signal preemption.

## Issues:

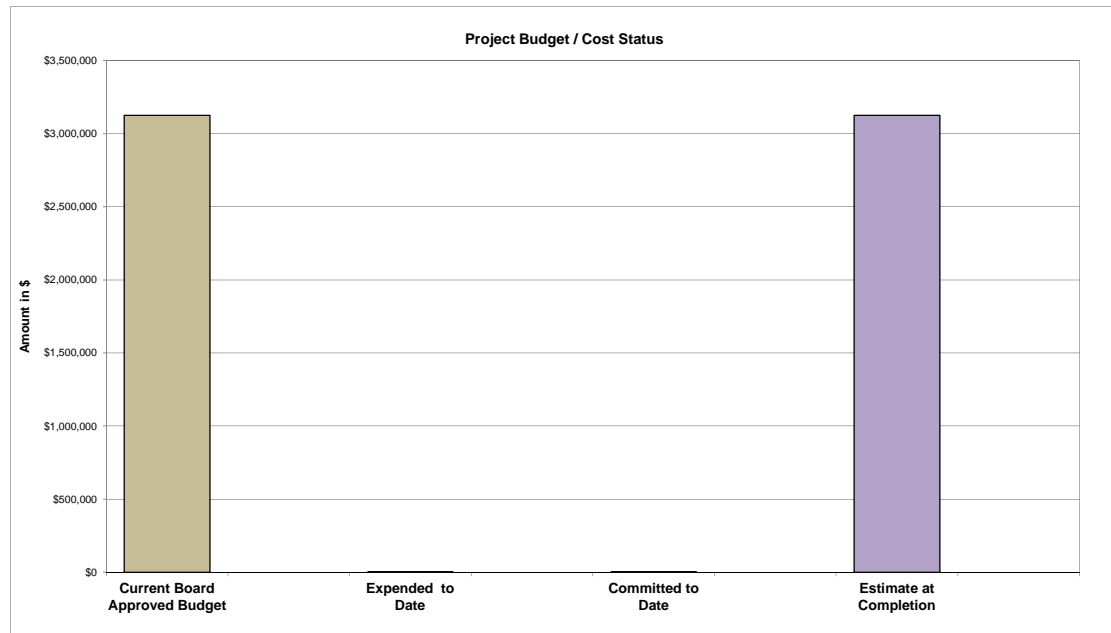
None.

## MARY AVENUE TRAFFIC SIGNAL PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
Total Project	\$3,125,000	\$2,500	\$2,500	\$3,125,000	\$0



**Issues:** None.

**MP-36 LOCOMOTIVE MID-LIFE OVERHAUL PROJECT**

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project will perform mid-life overhaul of six MP-36-3C Locomotives. The mid-life overhaul of the locomotives shall include complete disassembly of the main diesel engine, overhauling by reconditioning re-usable main frame components and re-assembly with new engine components and the replacement of the Separate Head-End Power (SEP-HEP) unit and all electrical components of the SEP-HEP compartment. All areas of the locomotive carbody, trucks, wheels and electrical components shall be reconditioned to like-new condition or replaced with new material. The project work shall be completed off-site at the contractor's facility location. Project also includes onsite inspection and contract management by JPB's vehicle consultant. Final acceptance of the completed locomotive overhaul will be conducted at the JPB's CEMOF facility in San Jose. The six locomotives are:

1. Locomotive # 923
2. Locomotive # 924
3. Locomotive # 925
4. Locomotive # 926
5. Locomotive # 927
6. Locomotive # 928

**Issues:**

None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2017				2018				2019				2020			
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
100218 - MP-36 Mid-Life Overhaul		01-Apr-17 A	31-Dec-20																
Technical Specs		01-Apr-17 A	28-Feb-18 A																
Bid and Award		01-Mar-18 A	30-Nov-18																
Construction		01-Dec-18	30-Sep-20																
Project Close Out		01-Oct-20	31-Dec-20																

**Progress:**

Jan - Mar 2018

- (1) Completed with technical specification.
- (2) Contract and Procurement (C&P) began reviewing technical specification.

**Future****Activities:**

Apr - Jun 2018

- (1) C&P to continue reviewing technical specification, and, potentially advertise the RFP.

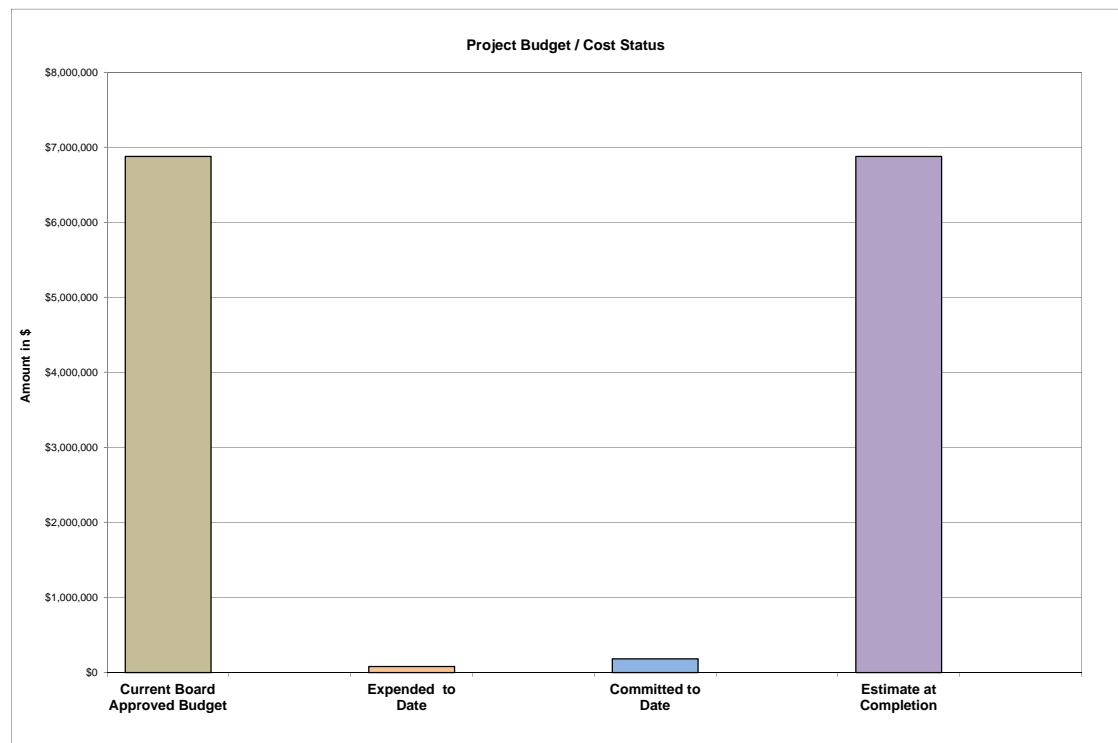
**Issues:**

## MP-36 LOCOMOTIVE MID-LIFE OVERHAUL PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$6,880,614</b>	<b>\$80,838</b>	<b>\$183,534</b>	<b>\$6,880,614</b>	<b>\$0</b>



**Issues:** None.

## NEW CONTROL POINT AT BRITTAN PROJECT

## SCOPE



## SCHEDULE



## BUDGET/COST



## SCOPE:



This project will design, procure and construct one new Control Point (CP) adjacent to the Brittan Avenue Underpass (MP 23.90). This CP will include a universal #20 crossover, two new signal houses, and the associated track and signal improvements. The new CP will increase operational flexibility system wide.

The new CP will help reduce delays due to single tracking and allow the Caltrain capital program to maximize operating flexibility for construction and emergency activities while maintaining public timetable commitments, both peak and off-peak, weekdays and weekends.

**Issues:** None.

## SCHEDULE:



Activity ID	Activity Description	Start	Finish	2015				2016				2017				01	02
				02	03	04	01	02	03	04	01	02	03	04			
002144	New Control Point at Brittan	15-Apr-15 A	05-Apr-18														
	Preliminary Engineering	15-Apr-15 A	01-Dec-15 A														
	Final Design	02-Dec-15 A	30-Sep-17 A														
	Bid and Award	01-Aug-17 A	05-Apr-18														
	Procurement	02-May-16 A	31-Mar-18 A														
	Construction	30-Mar-18 A	30-Mar-18 A														
	Project Close Out	30-Mar-18 A	30-Mar-18 A														

## Progress:

Jan - Mar 2018

- (1) Continued fabrication of universal #20 crossover.
- (2) Reviewed and rejected quote from the Electrification project to procure signal houses.
- (3) Continued bid and award phase for construction contract.
- (4) Completed evaluating bids and recommended rejection of all bids.

## Future

## Activities:

Apr - Jun 2018

- (1) Project to be deferred.

**Note:** This will be the last Quarterly report for this project.

## Issues:

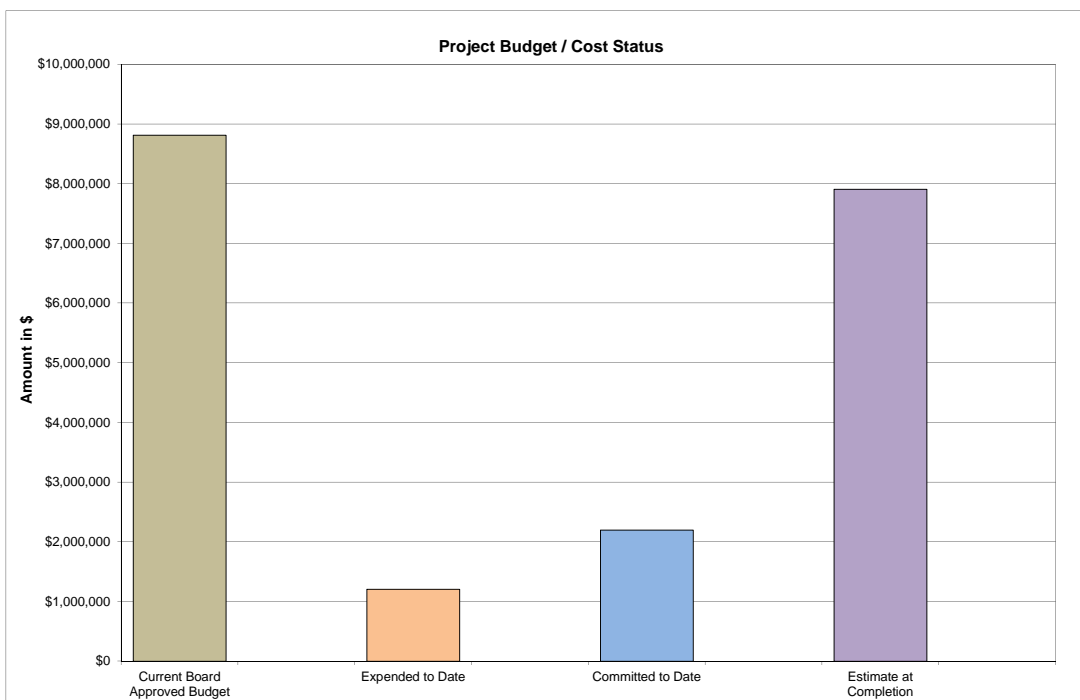
- (1) At the April Board Meeting, bids were rejected. The project is deferred indefinitely.
- (2) The schedule traffic light is being show as green due the deferring of the project.

## NEW CONTROL POINT AT BRITTAN PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$8,812,500</b>	<b>\$1,203,101</b>	<b>\$2,194,336</b>	<b>\$7,906,000</b>	<b>\$906,500</b>



**Issues:** None.

## RAILROAD COMMUNICATION SYSTEM PROJECT - FY2013/FY2014

SCOPE



SCHEDULE



BUDGET/COST



## SCOPE:



This project consists of the following tasks for maintenance of the Caltrain's Communication (COM) Systems.

## Design tasks:

All tasks related to assessment, design and drawings of railroad communication system. (Complete)

## Construction tasks:

Task 1: Install a new radio base station to improve voice radio coverage in the Mountain View and Sunnyvale area. (Complete)

Task 2: Improve voice radio coverage in the Brisbane area. (Complete)

Task 3: Remote reboot capability of channel 5 radio at Monument Peak. (Complete)

Task 4: Implementation of a Communication System for Track Department's Weather Sensors. (Complete)

Task 5: Install monitoring system for operation of the red obstruction light on top of the Central Control Facility (CCF) antenna tower. (Complete)

## Issues:

Penta testing of antenna and radio base station in the Mountain View and Sunnyvale area to be removed from scope due to contractual issues emanating from the termination of the CBOSS/PTC contract.

## SCHEDULE:



Activity ID	Activity Description	Start	Finish	2016				2017				2018	
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
02026/02090	Railroad Communications System (...)	01-May-13 A	15-Jun-18										
	Final Design	01-May-13 A	15-May-15 A										
	Bid and Award	29-Jan-16 A	09-Mar-17 A										
	Construction	09-Mar-17 A	15-Apr-18										
	Project Close Out	15-Mar-18 A	15-Jun-18										

## Progress:

Jan - Mar 2018

- (1) Completed installation of the new antenna and radio base station repeater in the Brisbane area.
- (2) Accepted the CCF Monitoring & Weather Station.
- (3) Tested & accepted the Remote Monitoring feature. Remaining minor work to be completed under warranty.
- (4) Waited for Penta modifications to test the new antenna and radio base station in the Mountain View and Sunnyvale area.
- (5) Initiated closeout of construction contract.

## Future

## Activities:

Apr - Jun 2018

- (1) Remove testing of the new antenna and radio base station in the Mountain View and Sunnyvale area from contract.
- (2) Complete closeout of construction contract.

## Issues:

Schedule extended due to modification of ROCS software, by Caltrain, to allow contractor's testing to be completed.

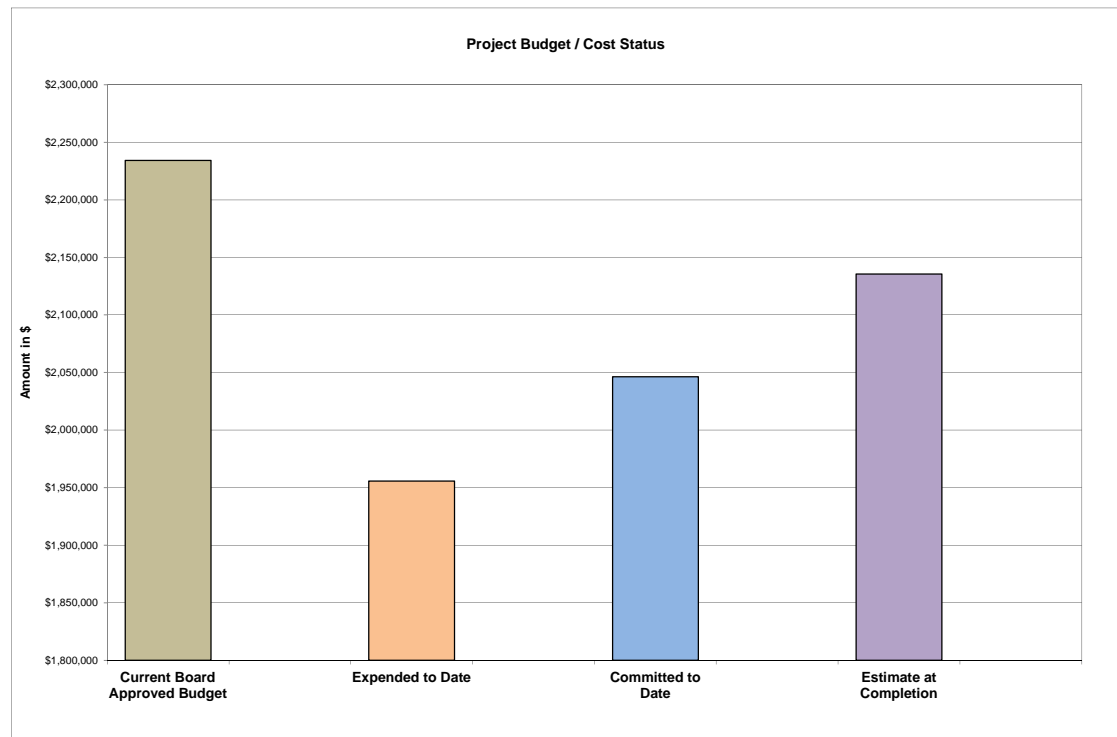


## RAILROAD COMMUNICATION SYSTEM PROJECT - FY2013/FY2014

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$2,234,211</b>	<b>\$1,955,577</b>	<b>\$2,046,402</b>	<b>\$2,135,640</b>	<b>\$98,571</b>



**Issues:** None.

## RAILROAD COMMUNICATION SYSTEM PROJECT - FY2017

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

The State of Good Repair (SOGR) project consists of the following tasks for maintenance of the Caltrain's Communication (COM) Systems.

Task 1: Upgrade UPS system at CCF.

Task 2: Upgrade high priority Control Points (CPs) with generator plugs.

Task 3: Enhance radio coverage around CP Lick area.

Task 4: Update voice radio communications path between Sign Hill and San Bruno Mountain.

Task 5: Software Configuration Management Study and Implementation.

**Issues:**

The current scope is for design only.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2018				2019					
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
100147 - FY2017 Railroad Communication SOGR		31-Mar-18	30-Apr-20										
Final Design		31-Mar-18	31-Dec-18										
Bid and Award		01-Jan-19	30-Jun-19										
Construction		01-Jul-19	31-Jan-20										
Project Close Out		01-Feb-20	30-Apr-20										

**Progress:**

Jan - Mar 2018 (1) Began developing Work Directive Proposal (WDPR) for design.

**Future****Activities:**

Apr - Jun 2018 (1) Continue developing WDPR for design.

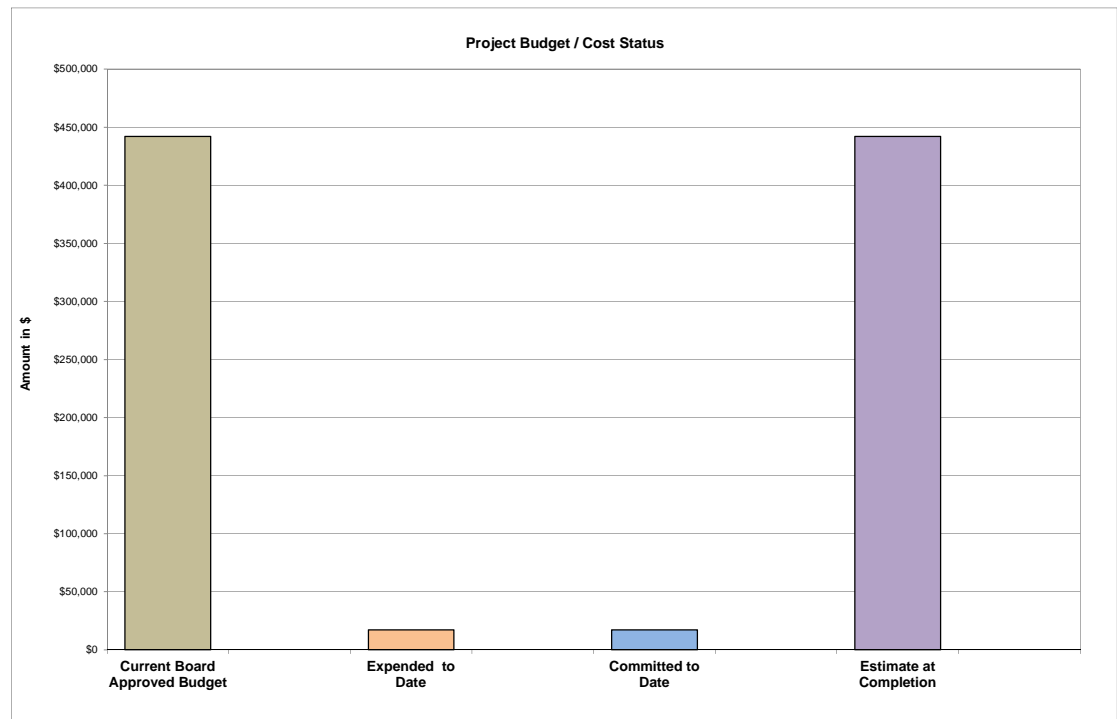
**Issues:**

## RAILROAD COMMUNICATION SYSTEM PROJECT - FY2017

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$442,000</b>	<b>\$17,255</b>	<b>\$17,255</b>	<b>\$442,000</b>	<b>\$0</b>



**Issues:** None.

## RIGHT OF WAY FENCING PROJECT

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project is a part of the ongoing program to keep Caltrain's fencing in a State of Good Repair (SOGR). The goal of this project is to reduce trespassing on the Caltrain right of way by installing fence on at least one side of the property between San Francisco MP 0.2 to Lick MP 52.

Caltrain will install vandal resistant fencing at key locations along the main line rail corridor to deter trespassing. This work will include a base contract and three optional contracts which may be exercised with the General Manager's approval. These contracts includes site clearing, fence demolition, fence installation and vegetation removal.

**Issues:** The current scope is for the base contract only.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2016			2017				2018		
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
100053 - Right of Way Fencing Project		01-Jun-16 A	30-Jun-18										
Bid and Award		01-Jun-16 A	01-Jun-16 A										
Construction (Base)		01-Jun-16 A	31-Mar-18 A										
Project Close Out		31-Mar-18	30-Jun-18										

**Progress:**

Jan - Mar 2018 (1) Completed base contract.  
(2) Continued executing option 1.

**Future Activities:**

Apr - Jun 2018 (1) Issue NTP for option 1.  
(2) Begin Option 1 fencing work.

**Issues:**

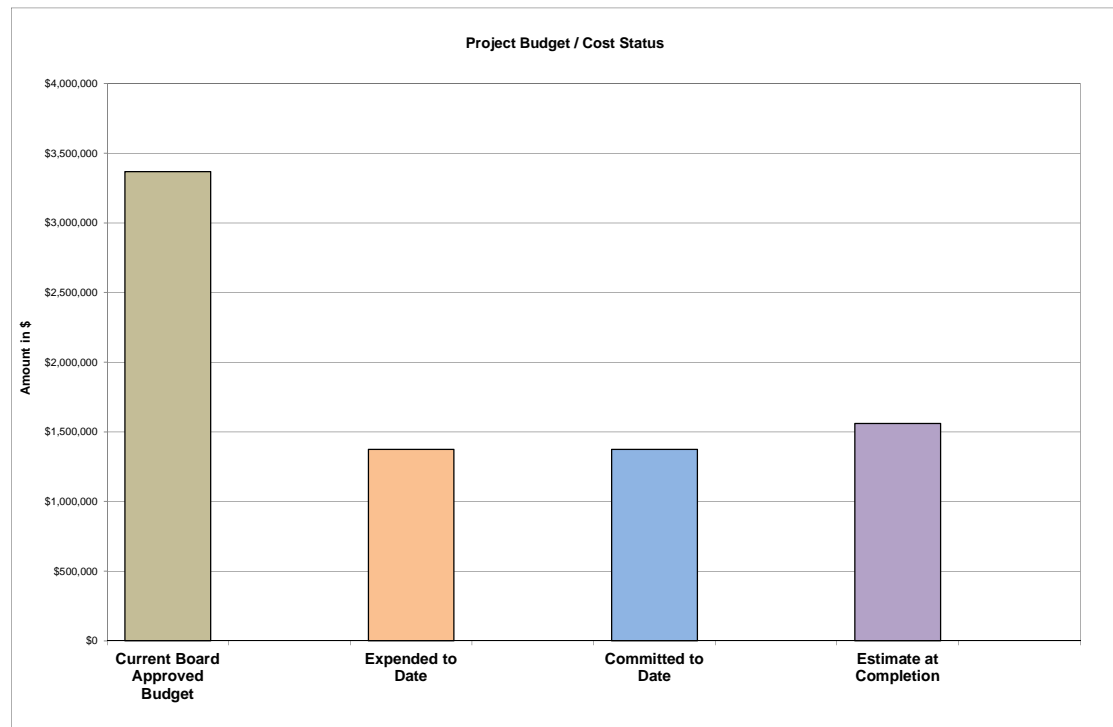
Schedule has been extended due to lack of flagging resources which were allocated to other capital projects and problems verifying the locations of fiber optic lines. The schedule extension for base contract does not impact project cost as work is released by task order as issues and requirements are identified.

## RIGHT OF WAY FENCING PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$3,366,958</b>	<b>\$1,372,982</b>	<b>\$1,372,982</b>	<b>\$1,560,000</b>	<b>\$1,806,958</b>



**Issues:** Current Board approved budget reflects total authorized budget through option 1. The committed and estimate at completion currently reflect the base contract without options. As options are executed these values will be revised.

## SAN FRANCISCO ROADWAY BRIDGES REPLACEMENT PROJECT

SCOPE



SCHEDULE



BUDGET/COST



## SCOPE:



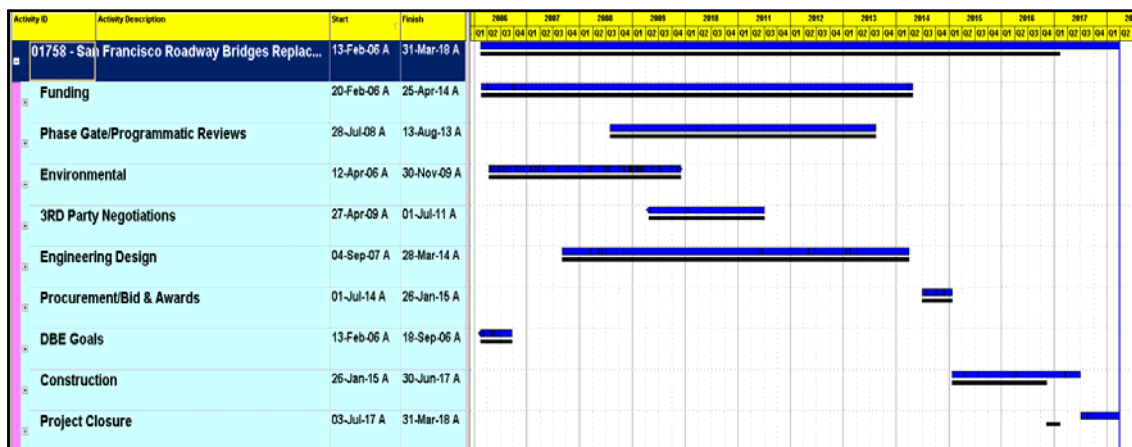
The San Francisco Roadway Bridges Replacement project upgrades the Caltrain owned vehicular bridges located at 22nd Street, 23rd Street and Paul Avenue and includes:

- (1) Remove and replace the existing two-span steel-through girder superstructures as the bridges have reached the end of their useful lives, allowing sufficient vertical clearance to accommodate future projects such as electrification.
- (2) Remove and reconstruct the existing utility lines attached to the bridges. Provide temporary supports until the bridges are reconstructed.

## Issues:

None.

## SCHEDULE:



## Progress:

Jan - Mar 2018 (1) Replaced fire hydrant at 22nd street to comply with Buy America standards.  
 (2) Completed project closeout.

## Future

## Activities:

Apr - Jun 2018 None.

## Issues:

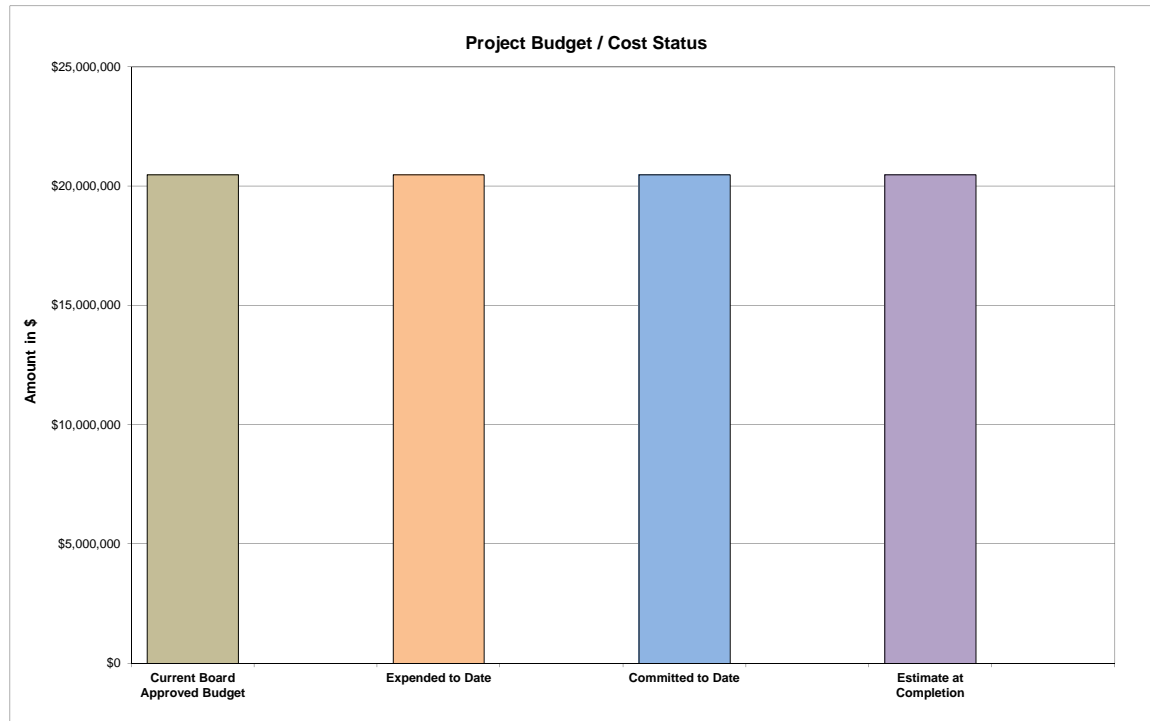
This will be the last Quarterly report for the project.

## SAN FRANCISCO ROADWAY BRIDGES REPLACEMENT PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
Total Project	\$20,480,449	\$20,480,449	\$20,480,449	\$20,480,449	\$0



**Issues:** None

## SANTA CLARA COUNTY GRADE CROSSING MEDIANS PROJECT

## SCOPE



## SCHEDULE



BUDGET/COST



**SCOPE:**



This project will install medians at six grade crossings in Santa Clara County (MP 31 to MP 49) including Churchill Avenue, East Meadow Avenue, Charleston Road, Sunnyvale Avenue, Auzerias Avenue and Virginia Street.

The project will be conducted in two phases:

PHASE I: will analyze the feasibility of installing medians (or other means to prevent vehicles from crossing the railroad tracks when the crossing gates are down) at the grade crossings identified above in Santa Clara County. Investigate items needed to install safety medians at the grade crossings.

PHASE II: will incorporate the recommendations of Phase I, refine the project schedule & estimate and develop associated construction documents for installation.

**Issues:**

Santa Clara County Grade Crossing Medians construction contract has been combined with Grade Crossing Improvement Project – FY2016 for administrative efficiency.

**SCHEDULE:**

[illegible]

**Progress:**

Jan - Mar 2018 (1) Issued Limited Notice to Proceed (LTNP).  
(2) Began receiving submittals from contractor.

## Future

### Activities:

Apr - Jun 2018 (1) Continue receiving and reviewing submittals from contractor.  
(2) Review and approve contractor's baseline schedule.

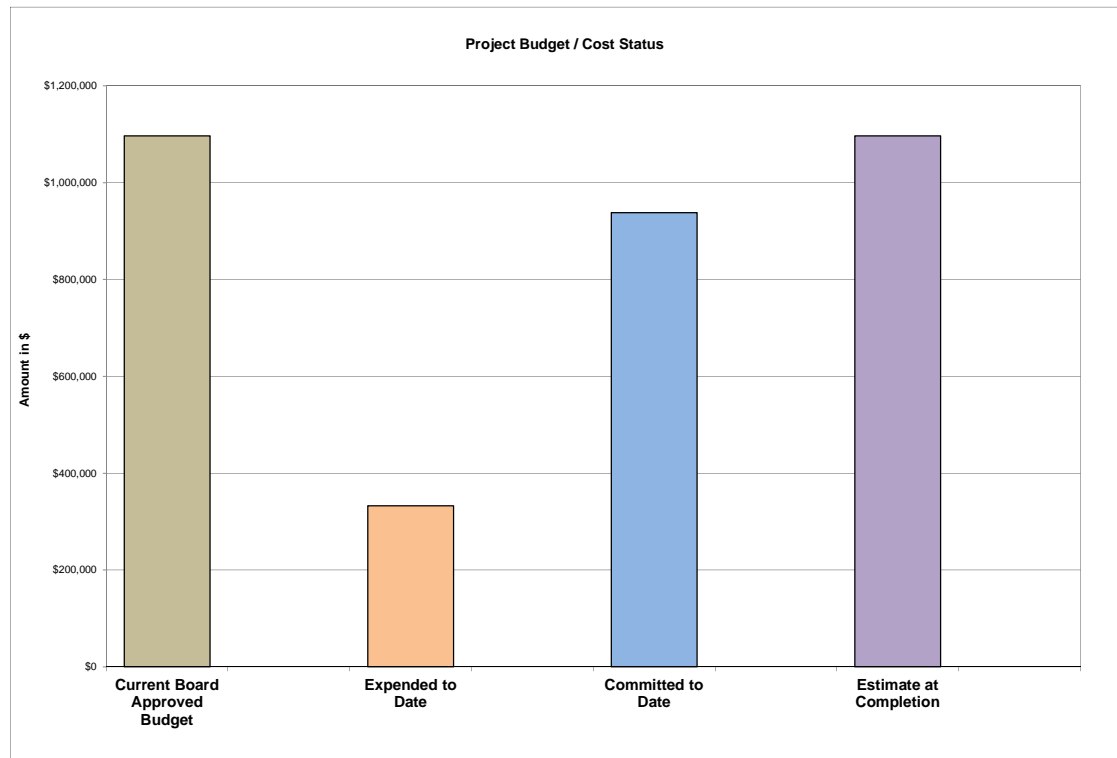
**Issues:**

Schedule extension is due to delay in receiving FRA grant funding for FY2016 Grade Crossing Improvement Project and having to re-advertise construction contract. The schedule will be re-baselined after award of construction contract.



**SANTA CLARA COUNTY GRADE CROSSING MEDIANS PROJECT****BUDGET:**

	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$1,097,000</b>	<b>\$332,748</b>	<b>\$938,191</b>	<b>\$1,097,000</b>	<b>\$0</b>



**Issues:** None.

## SOUTH SAN FRANCISCO STATION IMPROVEMENT PROJECT

## SCOPE



## SCHEDULE



## BUDGET/COST



## SCOPE:



This project will replace the existing South San Francisco Station. The scope includes track work, signal work, a new 700 foot center board platform with new amenities, new shuttle drop-off, and connectivity to a new pedestrian underpass from the platform to Grand Avenue/Executive Drive. This project will improve safety by eliminating the hold out rule; in addition, the project provides connectivity along Grand Avenue for the City of South San Francisco (CSSF).

Key elements of the project include:

1. New center platform.
2. New at-grade pedestrian crossing at the north end of station.
3. New pedestrian underpass at the south end of the station.
4. New pedestrian plaza area at west and east end of the pedestrian underpass.
5. Inclusion of CSSF design modifications for the west and east plaza and ramps.
6. Funding of UPRR for replacement of tracks being removed as part of this project.

## Issues:

None.

## SCHEDULE:



Activity ID	Activity Description	Start	Finish	2015				2016				2017				2018				2019			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
02146 - South San Francisco Improvement Project		01-Apr-15 A	10-Oct-19																				
Engineering Design		01-Apr-15 A	17-Mar-17 A																				
Contracts & Procurement (C&P)		18-Mar-17 A	06-Oct-17 A																				
Construction		09-Oct-17 A	10-Jun-19																				
Project Close Out		11-Jun-19	10-Oct-19																				

## Progress:

Jan - Mar 2018

- (1) Continued relocation coordination with Caltrans.
- (2) Continued coordination with third party utilities that need to be relocated.
- (3) Established staging area within station parking lot.
- (4) Restricted Notice to Proceed granted to start track removals/relocations.
- (5) Demobilized PCEP foundation work train from SSF Site.
- (6) Rehabilitated west yard tracks for UPRR. Allows east yard track to be used for Shoofly.
- (7) Continued coordination with electrification on site access for Traction Power Substation (TPSS) construction.
- (8) Completed temporary platform work.
- (9) Initiated Poletti way street improvements.

## Future

## Activities:

Apr - Jun 2018

- (1) Continue relocation coordination with Caltrans.
- (2) Continue coordination with remaining third party utilities that need to be relocated.
- (3) Continue coordination with electrification on site access for TPSS construction.
- (4) Rehabilitate subgrade for shoofly.
- (5) Begin construction for Shoofly.

## Issues:

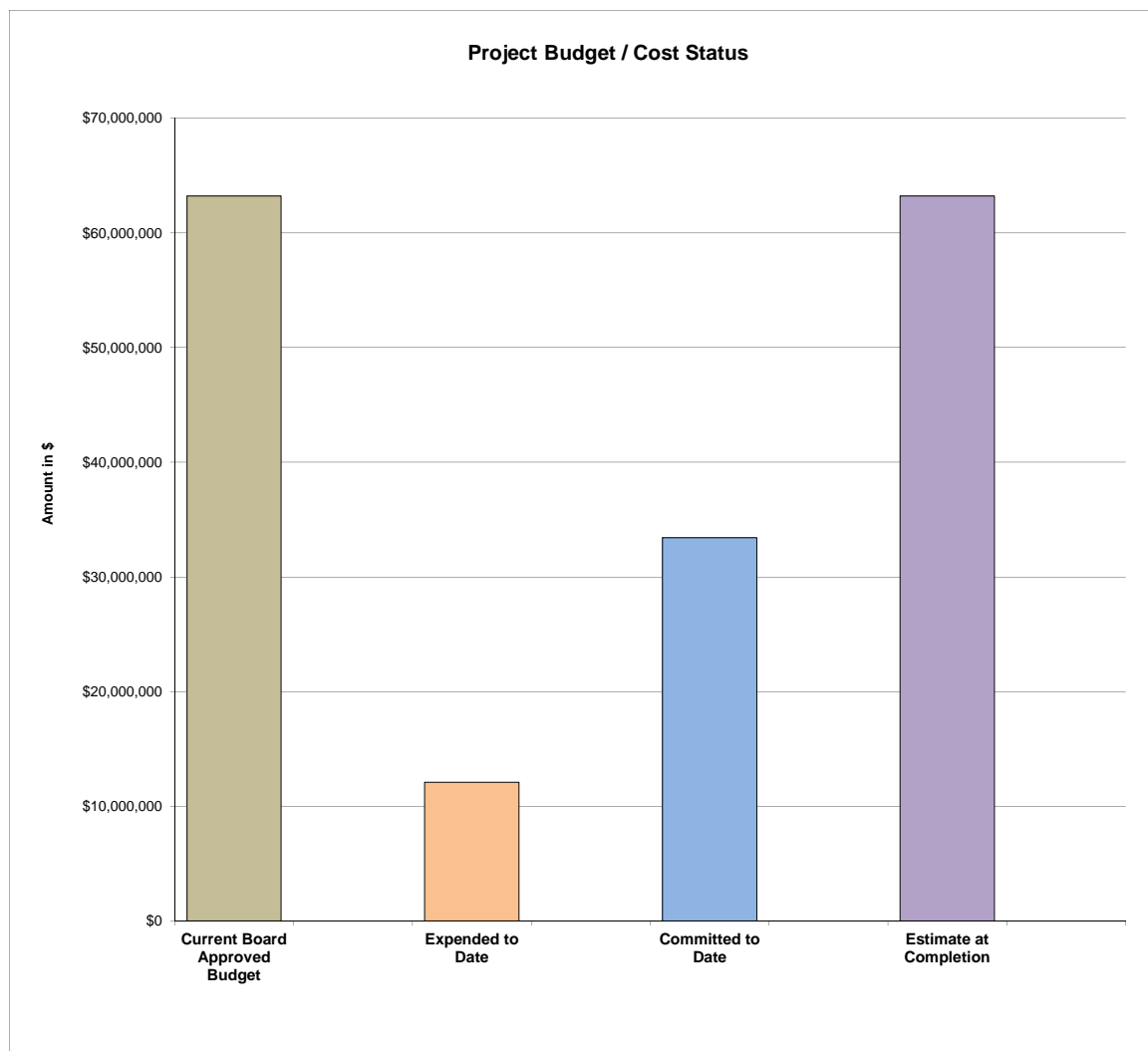
Baseline construction schedule has been approved and the project schedule was rebaselined this quarter. Utilities have not been relocated yet. Caltrans has not approved the intersection design which could impact the schedule.

## SOUTH SAN FRANCISCO STATION IMPROVEMENT PROJECT

## BUDGET:



	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Project Total</b>	<b>\$63,200,000</b>	<b>\$12,096,536</b>	<b>\$33,428,954</b>	<b>\$63,200,000</b>	<b>\$0</b>



**Issues:** None.

## SOUTH TERMINAL PHASE II PROJECT (Preliminary Design/Environmental Clearance)

## SCOPE



## SCHEDULE



## BUDGET/COST

**SCOPE:**

This project will include planning, design and construction of a 4th mainline track, new signal controls, and new cross overs and slip switches, between the south end of Centralized Equipment Maintenance and Operation Facility (CEMOF) and the north end of the South Terminal Diridon Station.

The purpose of this additional track is to increase corridor flexibility and capacity, increase reliability of service which will allow more frequent non-revenue operations between the South Terminal and CEMOF.

**Issues:**

Current scope is for Preliminary Engineering in support of obtaining environmental clearance.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2015				2016				2017				2018
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
002055 - South Terminal Phase II		02-Feb-15 A	31-May-18													
Preliminary Engineering		02-Feb-15 A	31-May-18													

**Progress:**

Jan - Mar 2018

- (1) Awaiting NEPA clearance.
- (2) Working with FTA to get State Historic Preservation Officer (SHPO) review/feedback.

**Future****Activities:**

Apr - Jun 2018

- (1) Await NEPA clearance.
- (2) Receive the SHPO feedback, FTA/SHPO will initiate consultation to determine need for a Programmatic Agreement (PA). FTA will communicate to JPB when SHPO has made a determination on the PA.

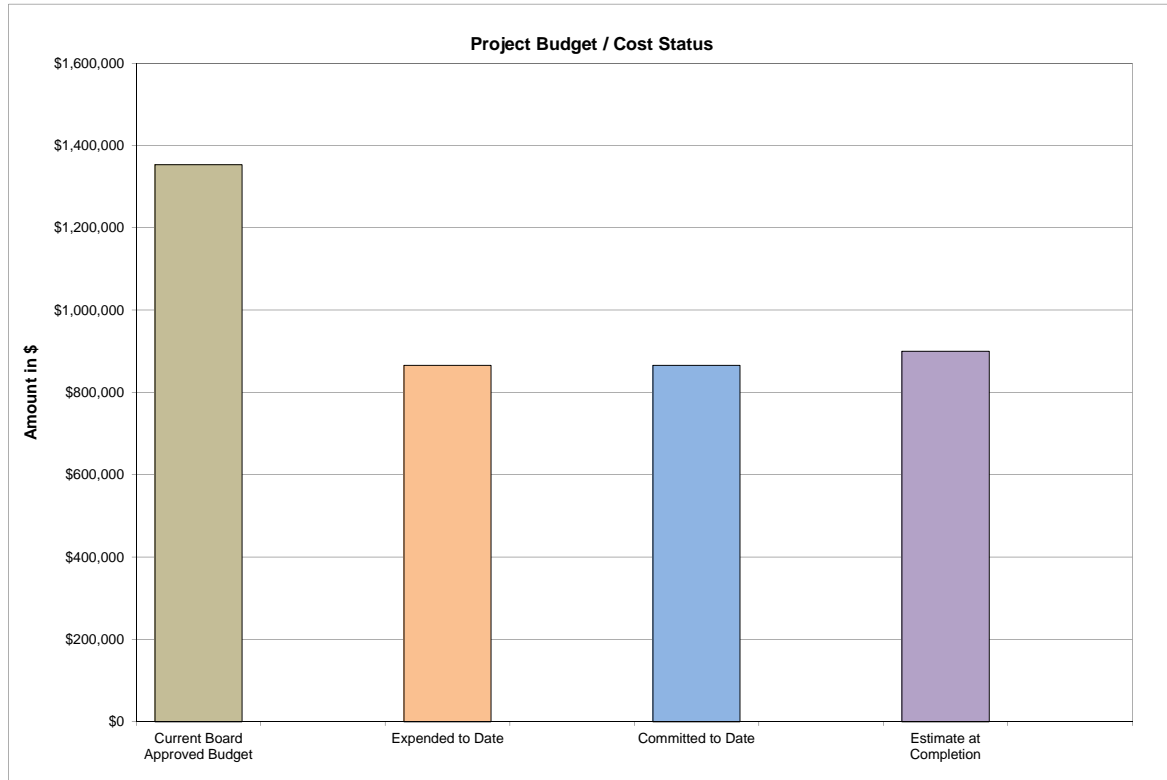
**Issues:**

Preliminary Engineering has been extended to reflect the additional time to acquire NEPA clearance based on new questions raised by the FTA and requirements from FTA for a Caltrain/SHPO programmatic agreement.

## SOUTH TERMINAL PHASE II PROJECT (Preliminary Design/Environmental Clearance)

**BUDGET:**

	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$1,353,236</b>	<b>\$866,030</b>	<b>\$866,030</b>	<b>\$900,000</b>	<b>\$453,236</b>



**Issues:** None.

**SUNNYVALE STATION PLATFORM REHABILITATION PROJECT**

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project will reconstruct a portion of both existing platforms at Sunnyvale Station. Due to differential settlement the pavers used in the original construction are creating multiple tripping hazards. The reconstruction will remove the existing pavers, backfill and prepare the subgrade, insert #4 rebar into the existing concrete slabs and place new tinted concrete that will be stamped with a smooth finish similar to what was done at the Burlingame Station.

**Issues:** None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2017								2018		
				Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3		
02149 - Sunnyvale Station Platform Rehab		01-Aug-16 A	10-Sep-18											
Final Design		01-Aug-16 A	30-Nov-16 A											
Bid and Award		01-Dec-16 A	30-Sep-17 A											
Construction		01-Oct-17 A	10-Jun-18											
Project Close Out		11-Jun-18	10-Sep-18											

**Progress:**

Jan - Mar 2018 (1) Issued Notice to Proceed (NTP).  
 (2) Began construction.  
 (3) Began reviewing submittals.

**Future Activities:**

Apr - Jun 2018 (1) Suspend construction temporarily to address additional grounding requirements for the Electrification project.  
 (2) Determine overall impact to project schedule caused by suspension of construction work.

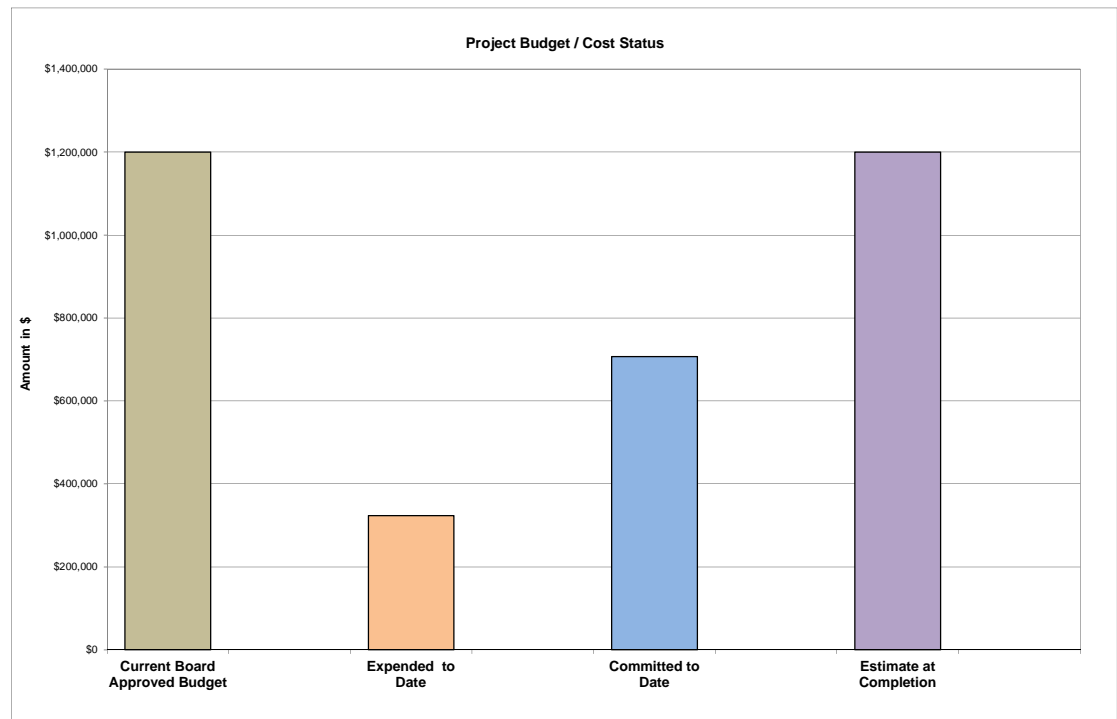
**Issues:** Schedule was re-baselined based contractor's baseline schedule.

## SUNNYVALE STATION PLATFORM REHABILITATION PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$1,200,000</b>	<b>\$323,248</b>	<b>\$707,248</b>	<b>\$1,200,000</b>	<b>\$0</b>



**Issues:** None.

## SYSTEMWIDE SIGNAL SYSTEM REHABILITATION PROJECT - FY2013

**SCOPE:**

This project provides for the maintenance oversight by Caltrain to ensure that the signal system is maintained in a State of Good Repair (SOGR) and complies with all required regulations. Design and construction components are as follows:

**Design:**

- 1) Design to retrofit the signal bridge at South San Francisco with safety improvements.
- 2) Design to retrofit all railroad signal lights (including replacement of the current outdated unilense signal lights) with LEDs.
- 3) Design to rehab Control Point (CP) Stockton signal house, update equipment & replace low speed switch machines with high speed machines.

**Construction:**

- 1) Procure LED signal light retrofit kits.
- 2) Retrofit all incandescent railroad signal lights with LEDs. (By TASI).
- 3) Additional scope - separate pedestrian gates arms from vehicular gates to meet CPUC standards at five stations.

**Issues:**

None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2013				2014				2015				2016				2017				2018		
				1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
02031 - FY2013 Systemwide Signal Rehabilitation		21-Mar-13 A	31-Jul-18																							
Construction		21-Mar-13 A	31-Mar-18 A																							
Project Close Out		01-Apr-18	31-Jul-18																							

**Progress:**

Jan - Mar 2018

- (1) Completed internal wiring of new pedestrian gates and setting of foundations.
- (2) Completed negotiation with TASI's directional boring subcontractor on changes.
- (3) TASI completed pre-cutover testing at 4th Avenue, Peninsula Avenue and 16th Street crossings.
- (4) TASI continued with pre-cutover testing at Peninsula Avenue crossing.

**Future Activities:**

Apr - Jun 2018

- (1) Begin project closeout.

**Issues:**

Traffic light changed to green this quarter to reflect completion of construction in March 2018.

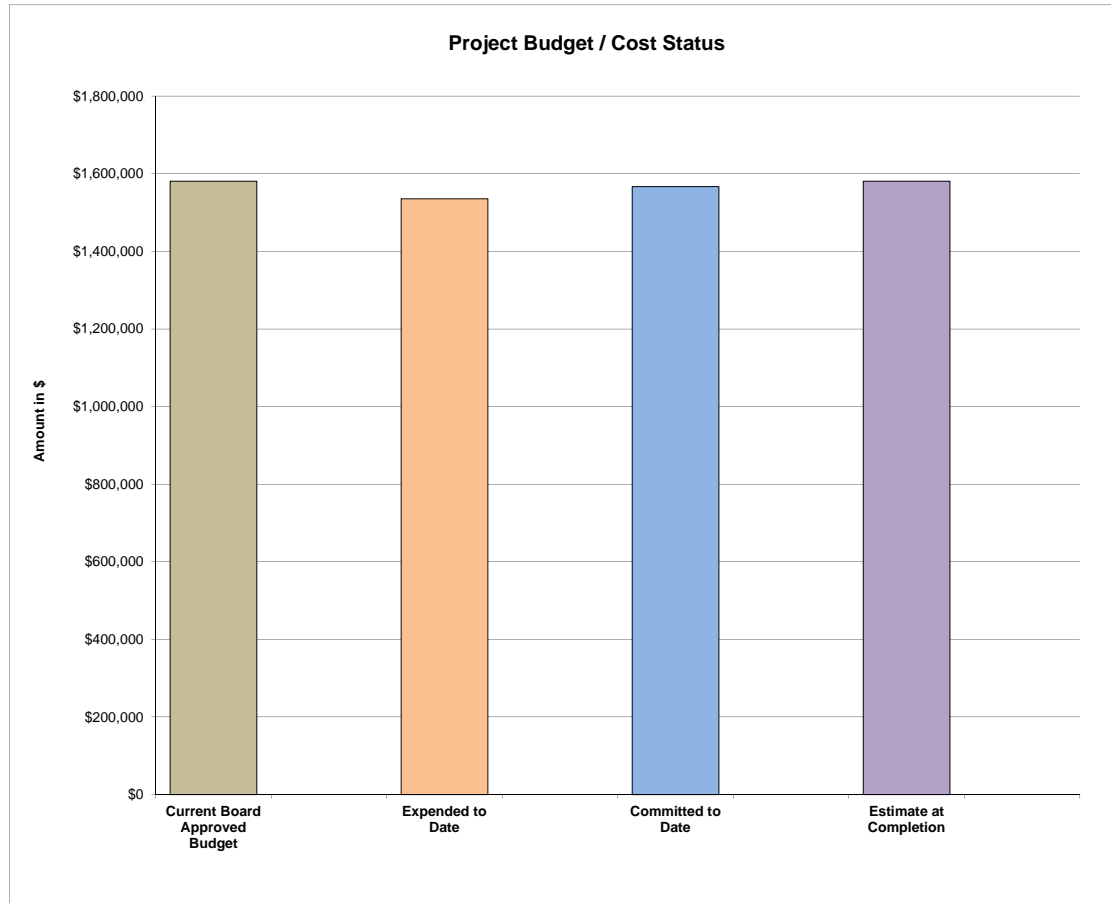


## SYSTEMWIDE SIGNAL REHABILITATION PROJECT - FY2013

## BUDGET:



	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Project Total</b>	<b>\$1,581,000</b>	<b>\$1,535,416</b>	<b>\$1,566,451</b>	<b>\$1,581,000</b>	<b>\$0</b>



**Issues:** None.

## SYSTEMWIDE SIGNAL SYSTEM REHABILITATION PROJECT - FY2016

SCOPE



SCHEDULE



BUDGET/COST



## SCOPE:

This project scope includes the following tasks:

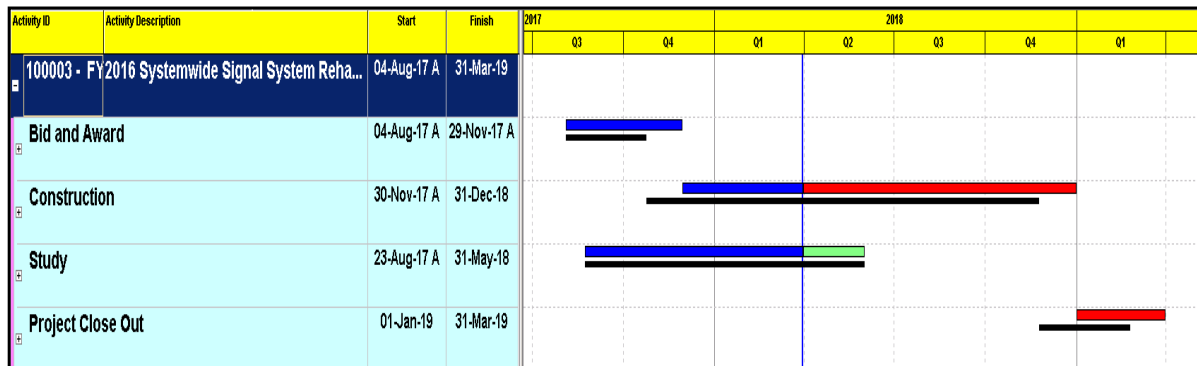


1. Procure and replace incandescent crossing gate lights with LEDs.
2. Replace gate mechanisms at eight grade crossings.
3. Investigate the synchronization issues between the railroad signals in the field and the dispatch software.

## Issues:

None.

## SCHEDULE:



## Progress:

Jan - Mar 2018

- (1) Put syncing study on hold to explore other options.
- (2) TASI continued with procurement of new gate mechanisms and LED gate lights.

## Future

## Activities:

Apr - Jun 2018

- (1) Continue exploring other options for signal syncing.
- (2) Begin receiving new gate mechanisms.

## Issues:

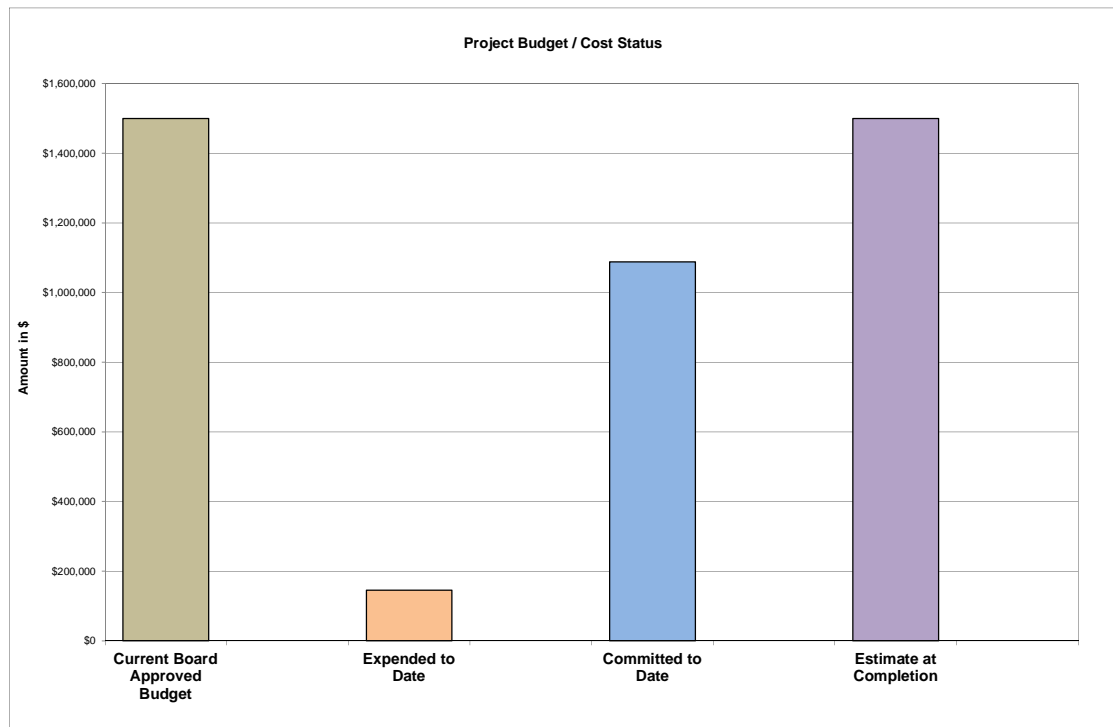
None.

## SYSTEMWIDE SIGNAL SYSTEM REHABILITATION PROJECT - FY2016

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$1,500,000</b>	<b>\$145,138</b>	<b>\$1,088,482</b>	<b>\$1,500,000</b>	<b>\$0</b>



Issues: None.

## SYSTEMWIDE SIGNAL SYSTEM REHABILITATION PROJECT - FY2017

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

Procure 22 switch kits to retrofit 15 existing air switch machines in San Francisco Yard and seven M23 switch machines on the Right of Way in order to reduce operational delays resulting from switch failures.

**Issues:**

None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2018					
				Q4	Q1	Q2	Q3	Q4	Q1
100148 - FY2018 Signal Rehab SOGR		17-Nov-17 A	28-Feb-19						
	Bid and Award	17-Nov-17 A	17-Nov-17 A						
	Construction	01-Dec-17 A	01-Dec-18						
	Project Close Out	02-Dec-18	28-Feb-19						

**Progress:**

Jan - Mar 2018 (1) Received shipment of switch kits.

**Future****Activities:**

Apr - Jun 2018 (1) Inventory switch machines to be rehabbed by TASI.  
(2) Develop schedule for rehabilitating of switch machines.

**Issues:**

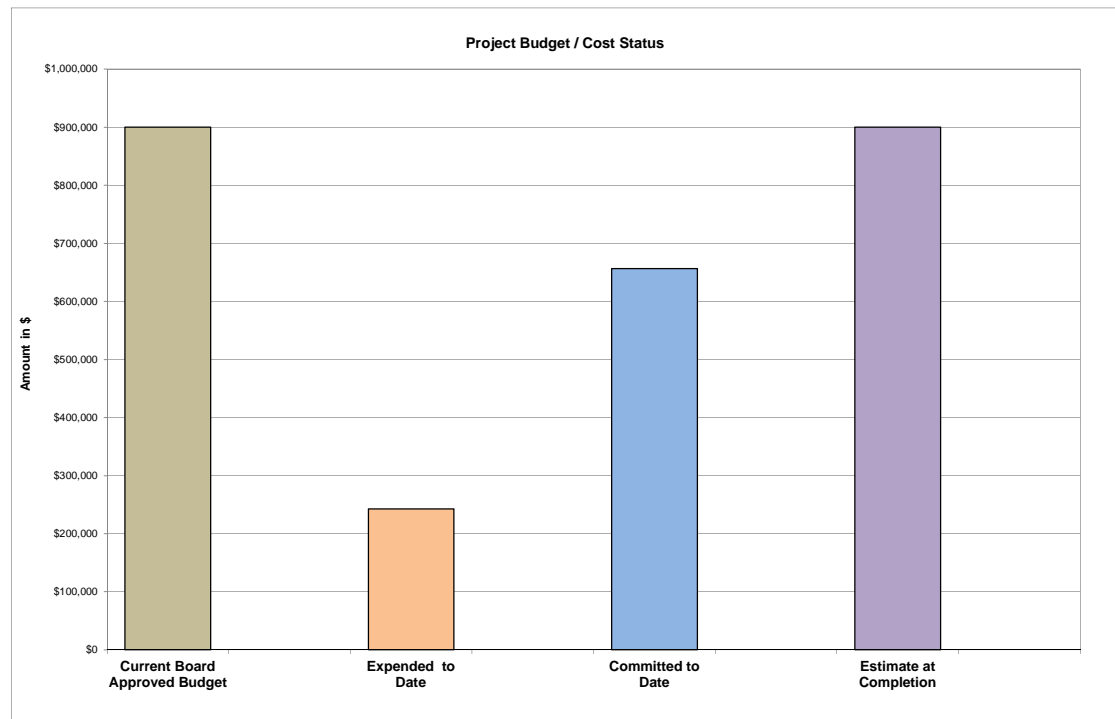
None.

## SYSTEMWIDE SIGNAL SYSTEM REHABILITATION PROJECT - FY2017

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$900,000</b>	<b>\$242,634</b>	<b>\$656,695</b>	<b>\$900,000</b>	<b>\$0</b>



**Issues:** None.

**SYSTEMWIDE STATION IMPROVEMENTS PROJECT – FY2016**

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project provides improvements at various passenger stations along the Caltrain right of way.



The project is divided into the following two modules :

1. Module 75 - San Francisco 4th & King Station Floor Rehabilitation. (Complete)
2. Module 76 - San Carlos Station LED Replacement. (Complete)
3. Module 77 - Redwood City Station LED Replacement.

**Issues:**

Added Module 77 this months.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2017				2018		
				Q1	Q2	Q3	Q4	Q1	Q2	Q3
100001 - FY2016 Systemwide Station Improvement...		01-Jan-17 A	30-Sep-18							
Final Design		01-Jan-17 A	15-Feb-17 A							
Bid and Award		16-Feb-17 A	15-Mar-17 A							
Construction		16-Mar-17 A	30-Jun-18							
Project Close Out		01-Jul-18	30-Sep-18							

**Progress:**

Jan - Mar 2018 (1) Added new module for Redwood City station LED replacement.  
(2) Began Redwood City station LED replacement.

**Future****Activities:**

Apr - Jun 2018 (1) Complete Redwood City station LED replacement.

**Issues:**

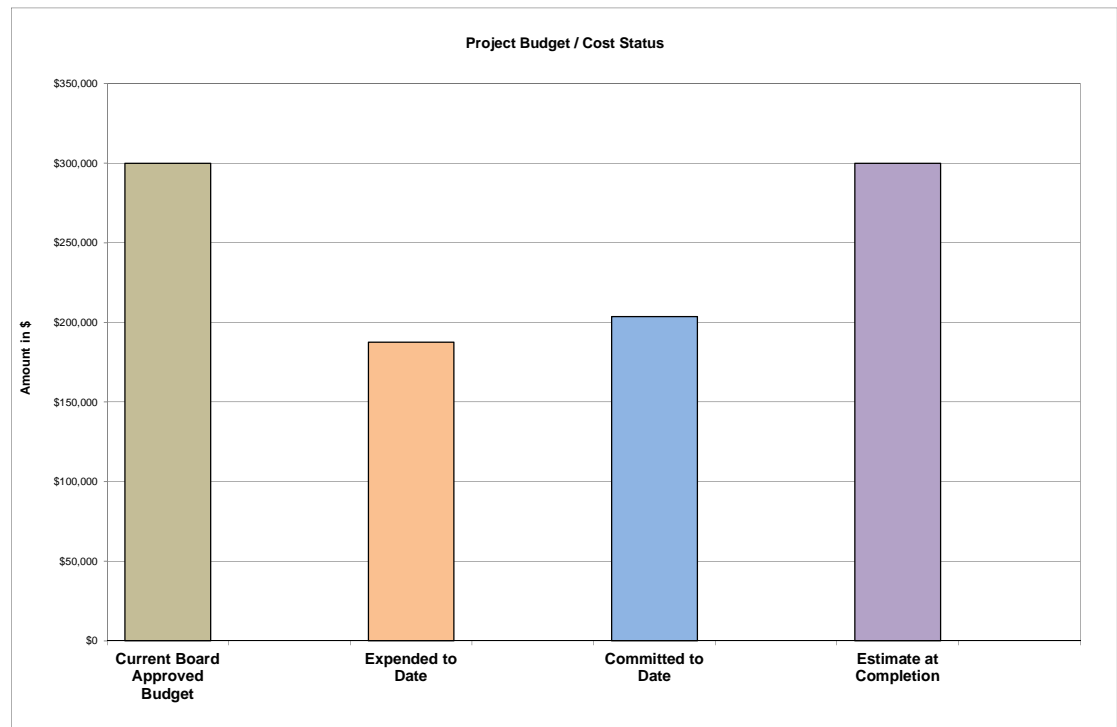
Schedule was revised to reflect including Module 77.

## SYSTEMWIDE STATION IMPROVEMENTS PROJECT – FY2016

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$300,000</b>	<b>\$187,546</b>	<b>\$203,662</b>	<b>\$300,000</b>	<b>\$0</b>



**Issues:** The additional scope will be performed within the current approved budget limits.

## SYSTEMWIDE TRACK REHABILITATION PROJECT - FY2016

SCOPE



SCHEDULE



BUDGET/COST



## SCOPE:



This project covers the work required to keep the Caltrain railroad in a state of good repair. The type and scope of work scheduled for each fiscal year is based upon the condition of the railroad as reflected in Caltrain's State of Good Repair database. This database is updated regularly with input from track inspections and tests that are performed throughout the year. Each fiscal year, a new project is set up to cover the track work performed that year. The scope proposed for FY2015 system wide track rehabilitation includes the following:

1. Replace stock rails and points on an as-needed basis.
2. Production rail joint replacement at approximately 50 locations.
3. Remove old or bonded over insulated joints at about 50 locations, approximately 100 welds.
4. Replacement of standard ties and switch ties on main tracks and yards, approximately 1,500 ties.
5. Surfacing 30 miles of curve and tangent track, 25 turn outs at various locations.
6. Upgrade rail lubricators.
7. Purchase of small tools and equipment required for track maintenance activities.
8. Work in South San Francisco Yard, billable to UP.
9. Rebuild 3 grade crossings: Charleston, Meadow, Churchill
10. Minor repairs to bridges, culverts and structures.
11. Leased equipment and facilities.
12. Purchased services – rail detector, geometry inspections, weed abatement.
13. Fence repairs and graffiti removal.

## Issues:

None.

## SCHEDULE:



Activity ID	Activity Description	Start	Finish	2017					2018	
				Q4	Q1	Q2	Q3	Q4	Q1	Q2
100004 - FY2016 Systemwide Track Rehabilitation ...		01-Oct-16 A	30-Jun-18							
Construction		01-Oct-16 A	31-Mar-18 A							
Project Close Out		31-Mar-18	30-Jun-18							

## Progress:

Jan - Mar 2018

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>(1) Placed 490 tons of ballast.</li> <li>(2) Surfaced 6.1 miles of main line track.</li> <li>(3) Stabilized 5.4 miles of track</li> <li>(4) Regulated 5.6 miles of ballast.</li> <li>(5) Surfaced 29 turnouts.</li> <li>(6) Built up 27 frog inserts.</li> <li>(7) Grounded 81 switches.</li> <li>(8) Performed seven thermite welds.</li> <li>(9) Replaced one stock rail.</li> <li>(10) Installed 350 anchors.</li> </ol> | <ol style="list-style-type: none"> <li>(11) Changed out 57 feet of rail</li> <li>(12) FRA conducted three site visits.</li> <li>(13) Installed 357 cross ties.</li> <li>(14) Installed five switch tie.</li> <li>(15) Performed ultrasonic (UT) weld testing.</li> <li>(16) Ran the geometry car.</li> <li>(17) Performed tree trimming.</li> <li>(18) Performed fencing.</li> </ol> |
|--|--|

## Future

## Activities:

Apr - Jun 2018

- (1) This will be the last report for this project. FY2017 System Wide Track Rehabilitation Project will be included in the next quarterly report.

## Issues:

None.

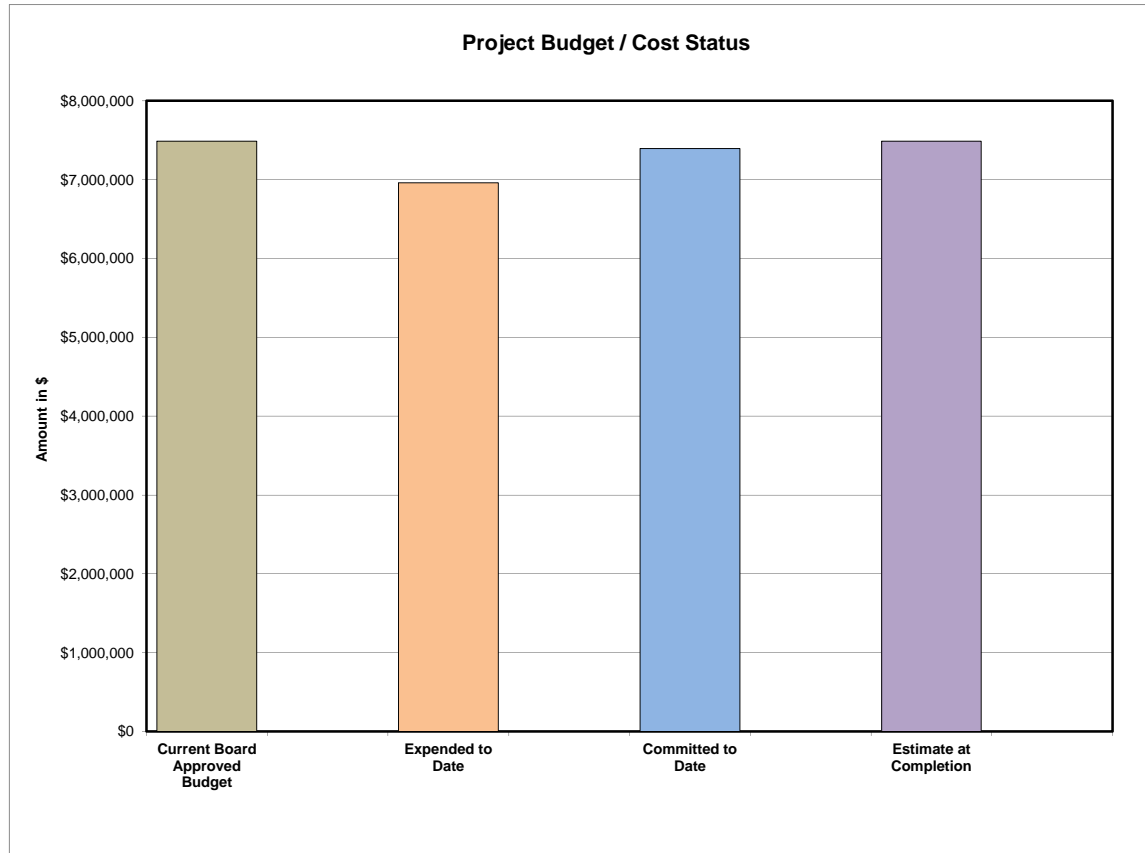


## SYSTEMWIDE TRACK REHABILITATION PROJECT - FY2016

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Project Total</b>	<b>\$7,490,000</b>	<b>\$6,961,585</b>	<b>\$7,396,135</b>	<b>\$7,490,000</b>	<b>\$0</b>



**Issues:** None.

## UPGRADE CCF EQUIPMENT ROOM COOLING PROJECT

SCOPE



SCHEDULE



BUDGET/COST

**SCOPE:**

This project will provide larger A/C equipment and high temperature alarms at Central Control Facility (CCF). Currently, the HVAC system in the CCF equipment room does not have adequate capacity for existing or future equipment, redundancy, or alarming.

**Issues:** None.

**SCHEDULE:**

Activity ID	Activity Description	Start	Finish	2017					2018		
				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
100152 - Upgrade CCF Equipment Room		30-Nov-16 A	31-Aug-18								
Procurement		30-Nov-16 A	30-Nov-17 A								
Construction		01-Dec-17 A	30-Jun-18								
Project Close Out		30-Jun-18	31-Aug-18								

**Progress:**

Jan - Mar 2018 (1) Reviewed contractor's HVAC equipment submittals and detailed work plans.  
(2) Contractor's mobilized at CEMOF.

**Future****Activities:**

Apr - Jun 2018 (1) Install HVAC equipment at the CCF Building  
(2) Construct protective barriers in CCF server room to protect this equipment during installation of new HVAC ducts (above the suspended ceiling).

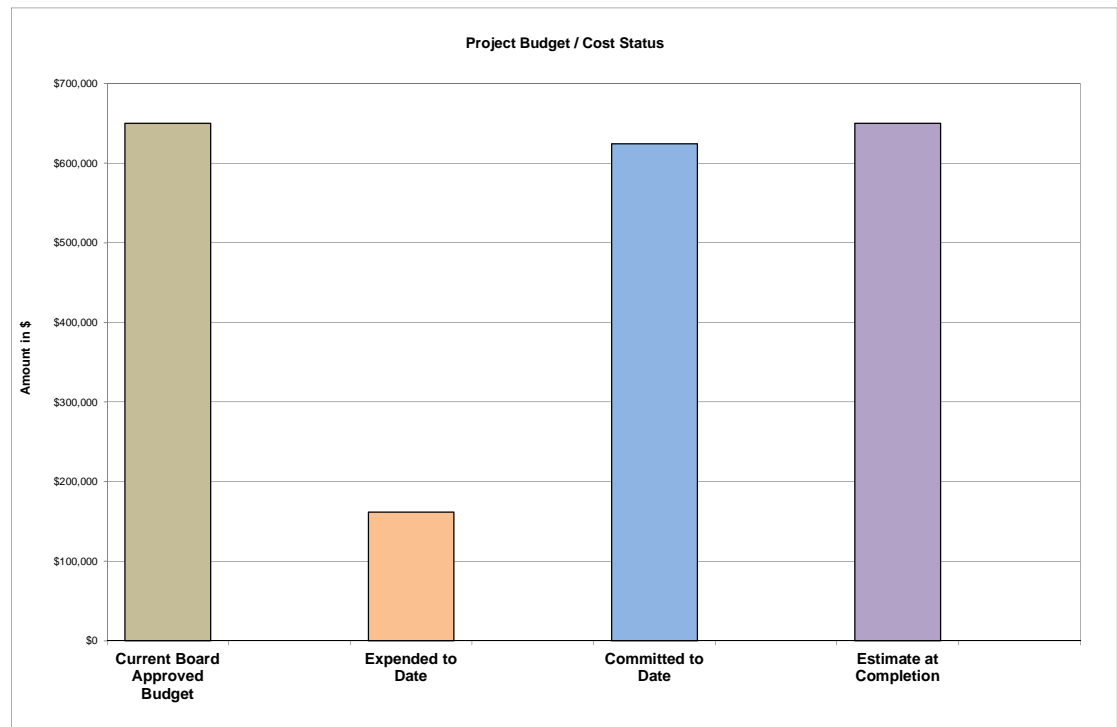
**Issues:** None.

## UPGRADE CCF EQUIPMENT ROOM COOLING PROJECT

## BUDGET:



	(a)	(b)	(c)	(d)	(e) = (a - d)
	Current Board Approved Budget	Expended to Date	Committed to Date	Estimate at Completion	Variance at Completion
<b>Total Project</b>	<b>\$650,000</b>	<b>\$161,835</b>	<b>\$624,170</b>	<b>\$650,000</b>	<b>\$0</b>



Issues: None.

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# Caltrain

## Disadvantaged Business Enterprise (DBE)

### Quarterly Status Report

Based on Contracts through 2nd Quarter Federal Fiscal Year 2018  
January 1, 2018 to March 31, 2018

The following is a summary of Caltrain's Federal Fiscal Year to date DBE Status:

<u>Contract Type</u>	<u>Total Contracts Awarded</u>	<u>DBE Contracts Awarded</u>	<u>% DBE Awarded</u>
Construction/Design Contracts (1)	\$19,584,403	\$1,093,043	5.6%
TASI Contracts	\$5,274,514	\$0	0.0%
<b>Total</b>	<b>\$24,858,917</b>	<b>\$1,093,043</b>	<b>4.4%</b>

**Overall Annual Goal in %      14.0%**

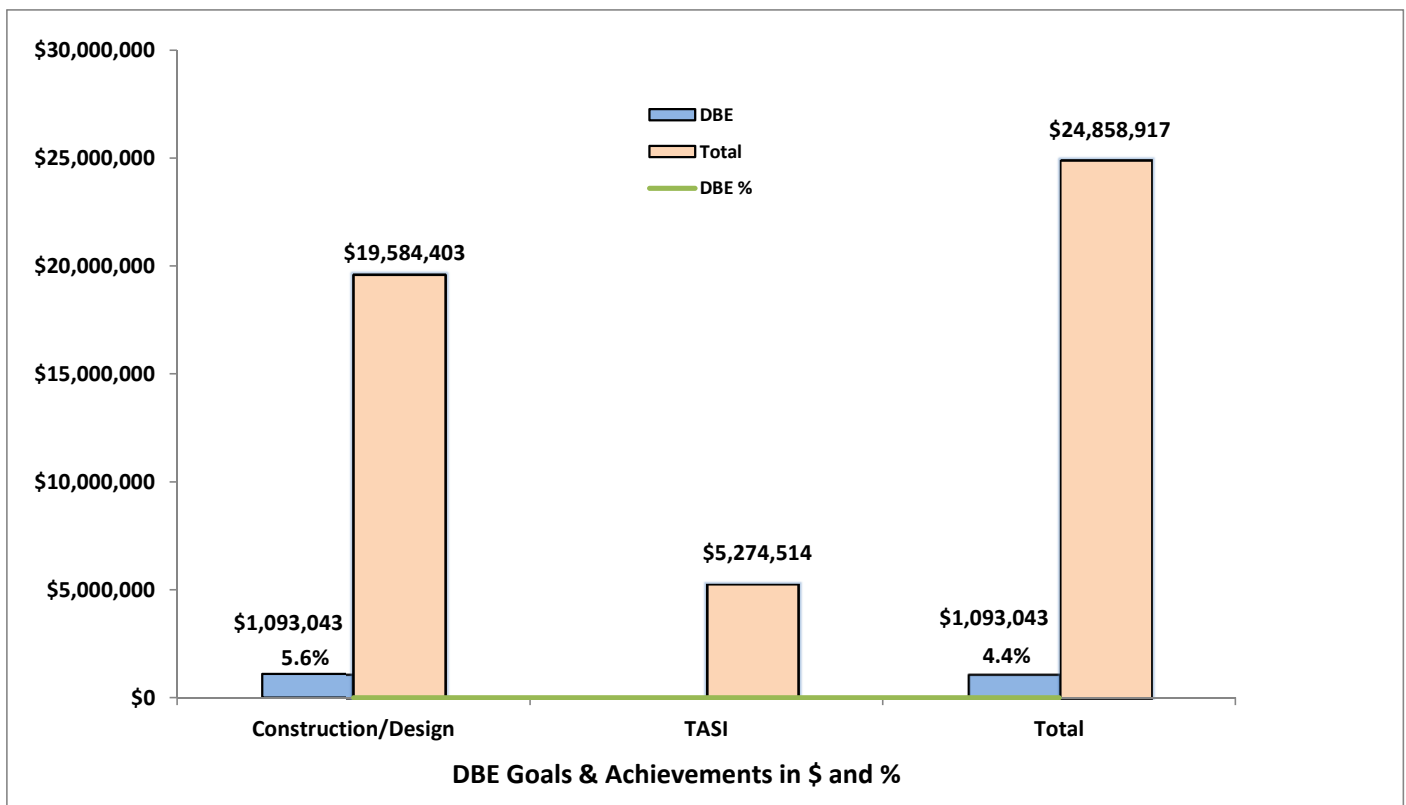
**% Over/(Under) Goal      -9.6%**

Low DBE awards due to most of the federal dollars are going to on-call contracts . Also, there were change orders awarded on construction contracts which had no DBE participation.

Remedies : Contract specific DBE goals have been set for the upcoming awards of CP Brittan and Tunnel Notching projects.

(1) Also includes On-Call Consultants, Rent and Misc. Contracts.

\*Contract-Specific DBE goals will be instituted on upcoming Capital Projects to increase DBE utilization.



### Definition of Terms

**Committed to Date** – The committed to date amount includes all actual expenditure of agency labor, other direct costs, the awarded amount of a work directive, a contract, or a purchase order which have been committed in the PeopleSoft accounting system.

**Current Board Approved Budget** – The current board approved budget includes the original board approved budget plus approved changes and internal budget transfers.

**Estimate at Completion** – The forecasted final cost of the project. The estimate at completion can be different from the Current Board Approved Funding, which indicates a variance at completion.

**Expended to Date** – The cumulative project costs that have been expended through the current reporting period as reported in PeopleSoft + the accrual cost of the work performed that has not been recorded in PeopleSoft.

**Variance at Completion** – The difference between the Current Board Approved Funding and the Estimate at Completion. A negative variance indicates that additional funding is needed.

## Performance Status (Traffic Light) Criteria

SECTIONS	On Target (GREEN)	Moderate Risk (YELLOW)	High Risk (RED)
<b>1. SCOPE</b>	<p>(a) Scope is consistent with Budget or Funding.</p> <p>(b) Scope is consistent with other projects.</p> <p>(c) Scope change has been mitigated.</p>	<p>(a) Scope is NOT consistent with Budget or Funding.</p> <p>(b) Scope appears to be in conflict with another project.</p> <p>(c) Scope changes have been proposed.</p>	<p>(a) Significant scope changes / significant deviations from the original plan.</p>
<b>2. BUDGET</b>	<p>(a) Estimate at Completion forecast is within plus /minus 5% of the Current Approved Budget.</p>	<p>(a) Estimate at Completion forecast exceeds Current Approved Budget between 5% to 10% or by \$1,000K.</p>	<p>(a) Estimate at Completion forecast exceeds Current Approved Budget by more than 10%.</p>
<b>3. SCHEDULE</b>	<p>(a) Project milestones / critical path are within plus/minus four months of the current baseline schedule.</p> <p>(b) Physical progress during the report period is consistent with incurred expenditures.</p> <p>(c) Schedule has been defined.</p>	<p>(a) Project milestones / critical path show slippage. Project is more than four to six months behind the current baseline schedule.</p> <p>(b) No physical progress during the report period, but expenditures have been incurred.</p> <p>(c) Detailed baseline schedule NOT finalized.</p>	<p>(a) Forecast project completion date is later than the current baseline scheduled completion date by more than six months.</p>

## Schedule Legend

	<b>Completed</b>
	<b>Critical path</b>
	<b>Baseline/target schedule</b>