



# Capital Program

## Quarterly Status Report and DBE Status Report



**2nd Quarter Fiscal Year 2022  
(October to December 2021)**

Prepared for the March 03, 2022 Caltrain Board Meeting

## Projects in Focus

### Concerning (projects with red status lights)




1. 002088 - 25th Avenue Grade Separation - The schedule had slipped due to continued design issues and the lack of labor available to the contractor to perform the work. Additionally, materials for extra work were delayed. Further, the contractor has not completed some base contract work. Meeting with Executive Management from Shimmick/Disney JV to mitigate delays.
2. 002088 - 25th Avenue Grade Separation - Increased cost due to extension of work and added scope. Project team will meet with management to discuss measures.
3. 002113 - Guadalupe River Bridges Replacement and Extension - Schedule delay is due to arbitration and prolonged IFB process, grading revision to sequence operation MT1 to MT2 and delay in final design submittal. Arbitration held 12/13 - 12/16/21. Final ruling scheduled for 3/7/22.
4. 100244 - Burlingame Broadway Grade Separation - Continue to evaluate Value Engineering Option 3 with the City of Burlingame to revise center boarding platform to side boarding. Meeting set with executive leadership in early January 2022 to reach consensus.
5. 100278- Mary Avenue Traffic Signal Preemption - Waiting for the City of Sunnyvale to install their advance signal preemption circuit in their traffic controller cabinet.
6. 100403 - Broadband Project - The proposal due date has been extended due to requests by several proposers to be able to submit a well thought, comprehensive proposal.
7. 100439 - Bayshore Station Overpass Pedestrian Bridge Rehab - Budget and Funding reflect red status because the current budget is not enough to fund construction phase. Application for supplemental LPP funding in process.
8. 100445 - Automatic Passenger Counters at San Francisco 4th & King Station - The COVID-19 Pandemic caused delay in development and logistics. The schedule has been escalated within Centum Adetel and Caltrain. The Centum Team provided a revised Schedule for installation, commissioning and training by 3/31/2022.
9. 100482 - Rengstorff Grade Separation - 35% design submittal delayed due to additional geotechnical investigation and traffic studies.

### Watching (projects with yellow status lights)

1. 002088 - 25th Avenue Grade Separation - Increased cost due to extension of work and added scope. Project team will meet with management to discuss measures.
2. 002113 - Guadalupe River Bridges Replacement and Extension - Identified sources of funds cover the estimated final design and early construction portions of the project costs. Agency has not received or activated the entirety of those identified funds.
3. 002146 - South San Francisco Station Improvement Project - Schedule delayed to rebuild selected portions of ramp 1 and ramp 2 to meet ADA compliance. On schedule for 1/12/22 completion.
4. 100403 - Broadband Project - Some of the project's funding is pending activation. These funds will be activated for the construction phase.
5. 100426 - Churchill Avenue Grade Crossing - The city of Palo Alto delayed submitting their 100% design.
6. 100427 - San Francisquito Creek Bridge Replacement - Additional Board approved funding will be needed to complete the Design phase.
7. 100439 - Bayshore Station Overpass Pedestrian Bridge Rehab - Since we are adding more funds from LPP grants, LPP Grants require that we award the Construction contract after CTC action in March 2022.
8. 100564 - Enterprise Asset Management (EAM) Software System - Establishing new direction for project activities delayed the schedule. Will require a re-baseline once a new plan is completed.
9. 100565 - Update and Upgrade GIS System - Hiring process is taking longer as additional approvals are required to provide a competitive offer to the selected candidate. Updated project work plan approved at December 09, 2021 Management Committee meeting.
10. 100574 - Clipper Next Generation Validators Site Preparations - Some of the project's funding is pending activation. Activation of funds scheduled for February 2022 and aligns with construction award date.

## Performance Summary

**Table S1. Projects in each status light by performance category**

Status Light	Safety	Schedule	Budget	Funding
 Green	100.0%	53.8%	92.3%	76.9%
 Yellow	0.0%	19.2%	3.8%	15.4%
 Red	0.0%	26.9%	3.8%	7.7%

(Percentage of projects in each status light by performance category)

**Table S2. Summary of design and construction project changes from previous month**

Status Changes	Projects	Pct. Projects
All green	9	40.9%
Improved (except all green)	1	4.5%
Got worse	7	31.8%
Stayed the same (except all green)	5	22.7%
<b>Total Projects</b>	<b>22</b>	

**Table S3. Individual Projects**

Project Number	Title	Safety			Schedule			Budget			Funding			Page
		Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	
<b>CONSTRUCTION PHASE</b>														
<b>Grade Separations</b>														
002088	25th Avenue Grade Separation	●	●	●	●	●	●	●	●	●	●	●	●	6
<b>Stations</b>														
002146	South San Francisco Station Improvement	●	●	●	●	●	●	●	●	●	●	●	●	11
<b>ROW Bridges</b>														
002080	Marin and Napoleon Bridge Replacement	●	●	●	●	●	●	●	●	●	●	●	●	17
<b>ROW Grade Crossings</b>														
100333	FY2019 Grade Crossing Improvements	●	●	●	●	●	●	●	●	●	●	●	●	21
<b>ROW Communications &amp; Signals</b>														
100278	Mary Avenue Traffic Signal Preemption	●	●	●	●	●	●	●	●	●	●	●	●	25
<b>Fare Collection</b>														
100240	Ticket Vending Machines (TVM) Rehab	●	●	●	●	●	●	●	●	●	●	●	●	29
<b>Miscellaneous</b>														
100445	Automatic Passenger Counters at San Francisco 4th & King Station	●	●	●	●	●	●	●	●	●	●	●	●	33
<b>DESIGN PHASE</b>														
<b>Grade Separations</b>														
100244	Burlingame Broadway Grade Separation	●	●	●	●	●	●	●	●	●	●	●	●	37
100482	Rengstorff Grade Separation	●	●	●	●	●	●	●	●	●	●	●	●	41
100617	Mountain View Transit Center and Grade Separation & Access Project	●	●	●	●	●	●	●	●	●	●	●	●	45
<b>ROW Bridges</b>														
002113	Guadalupe River Bridges Replacement and Extension	●	●	●	●	●	●	●	●	●	●	●	●	50
100427	San Francisquito Creek Bridge Replacement	●	●	●	●	●	●	●	●	●	●	●	●	55
100439	Bayshore Station Overpass Pedestrian Bridge Rehab	●	●	●	●	●	●	●	●	●	●	●	●	59
<b>ROW Grade Crossings</b>														
100426	Churchill Avenue Grade Crossing	●	●	●	●	●	●	●	●	●	●	●	●	64
100522	Watkins Ave Grade Crossing Safety Improvements	●	●	●	●	●	●	●	●	●	●	●	●	67
100566	San Mateo Grade Crossing Improvements	●	●	●	●	●	●	●	●	●	●	●	●	70
<b>ROW Communications &amp; Signals</b>														
100403	Broadband Project	●	●	●	●	●	●	●	●	●	●	●	●	74
100432	Migration to Digital Voice Radio System	●	●	●	●	●	●	●	●	●	●	●	●	77
100449	Next Generation Visual Messaging Sign (VMS)	●	●	●	●	●	●	●	●	●	●	●	●	80
100572	Communication System SOGR	●	●	●	●	●	●	●	●	●	●	●	●	83
<b>Fare Collection</b>														
100574	Clipper Next Generation Validators Site Preparations	●	●	●	●	●	●	●	●	●	●	●	●	87
<b>Miscellaneous</b>														
TBD	San Mateo Replacement Parking Track		●			●			●			●		91



**Table S3. Individual Projects (Continued)**

Project Number	Title	Safety			Schedule			Budget			Funding			Page
		Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	Oct	Nov	Dec	
<b>PLANNING/ENVIRONMENTAL PHASE</b>														
<b>Managed Projects</b>														
002152	South Linden & Scott Grade Separation	●	●	●	●	●	●	●	●	●	●	●	●	95
100410	Whipple Avenue Grade Separation	●	●	●	●	●	●	●	●	●	●	●	●	97
100564	Enterprise Asset Management (EAM) Software System	●	●	●	●	●	●	●	●	●	●	●	●	100
100565	Update and Upgrade GIS System	●	●	●	●	●	●	●	●	●	●	●	●	103
<b>Projects with Informal Engagements Managed by Third Parties</b>														
TBD	Middle Avenue Undercrossing	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	107
100667	Bernardo Avenue Undercrossing	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	109
TBD	Mary Avenue Grade Separation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110

## Projects in Construction Grade Separations









25th Avenue Grade Separation

Project No.

002088

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Construction/Implementation**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	R 	Y 	R 
Previous	G 	Y 	G 	G 

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>97.76%</b>	<b>-1.00%</b>	100%

1. The schedule had slipped due to continued design issues and the lack of labor available to the contractor to perform the work. Additionally, materials for extra work were delayed. Further, the contractor has not completed some base contract work. Meeting with Executive Management from Shimmick/Disney JV to mitigate delays.
2. Increased cost due to extension of work and added scope. Project team will meet with management to discuss measures.

**SCOPE Summary**

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.

The work included the 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.

Project Manager: Andy Kleiber  
 Principal Designer: HDR Engineering, Inc.  
 Const. Contractor: Shimmick/Disney Joint Venture

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	16
Type II Incidents	0	2

25th Avenue Grade Separation

Project No.

002088

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Preliminary 35% Design	07/20/15	07/20/15	0	0
65% Design	01/28/16	01/28/16	0	0
95% Design	07/25/16	07/25/16	0	0
100% Design	10/26/16	10/26/16	0	0
IFB	12/09/16	12/09/16	0	0
Award	07/06/17	07/06/17	0	0
LNTP	08/10/17	08/10/17	0	0
NTP	12/08/17	12/08/17	0	0
28th Ave Opening Date	03/15/21	03/15/21	0	0
Station Opening	04/26/21	04/26/21	0	0
Construction Completion	09/10/21	01/31/22	-143	-62
Project Finish	01/31/22	04/30/22	-89	-89

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)	(D)	(E=C-D)	(F=E/C)
Engineering	2,410	5,860	8,270	8,270	0	0%
ROW/Utilities	0	35,296	35,296	35,386	-90	-0%
Construction	0	122,668	122,668	121,317	1,351	1%
CM & DSDC	0	17,885	17,885	18,918	-1,033	-6%
Administration	1,676	11,323	12,999	14,297	-1,298	-10%
Procurement	0	24	24	24	0	0%
Oper. Support	45	8,075	8,120	8,000	120	1%
<b>Subtotals</b>	<b>4,131</b>	<b>201,131</b>	<b>205,262</b>	<b>206,212</b>	<b>-950</b>	<b>-0%</b>
Unknown Risks	NA	NA	NA		638	100%
Unallocated Contingency	372	266	638	NA		
<b>Grand Totals</b>	<b>4,503</b>	<b>201,397</b>	<b>205,900</b>	<b>206,212</b>	<b>-312</b>	<b>-0%</b>

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding	Unactivated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)	(D)	(E=C-D)
SMCTA	Local	3,700	94,100	97,800	97,800	0
State (Section 190)	State		10,000	10,000	10,000	0
State (CAHSA)	State		84,000	84,000	84,000	0
City of San Mateo	Local	1,000	13,100	14,100	14,100	0
<b>Totals</b>		<b>4,700</b>	<b>201,200</b>	<b>205,900</b>	<b>205,900</b>	<b>0</b>

25th Avenue Grade Separation

Project No.

002088

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)**

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
Extend time to complete changes.	SDJV/JPB	JPB is limiting scope where possible.	\$ 100	Med
	Contractor is scheduling work, JPB is limiting scope wherever possible, and JPB is completing design. Now increasing overhead costs.			
Additional Changes (Design Related)	JPB/HDR	Working with HDR to resolve and looking for ways to not have SDJV do the work.	\$ 400	Med
	Continuing to find design issues requiring changes.			
Extent of Changes/Covid 19	JPB	Reviewed Contractors request. Not finding much factual information in the request.	\$ 3,700	Med
	Rejected the RFC.			
Excess soil at CP Lick	SDJV/JPB	Exploring options to control costs.	\$ 500	High
	Developing cost proposals.			
No ROW fencing at old Hillsdale Station	JPB/HDR	Exploring options to control costs.	\$ 100	High
	Procurement/Budgeting			

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Delays due to design issues and labor availability.	HDR & SDJV	HDR is working on design solutions; SDJV is attempting to add more crews. Meeting with Executive Management from Shimmick/Disney	2/15/2022
	JPB is tracking issues that are potentially the result of errors/omissions.		
Covid 19/Number of Changes.	SDJV	SDJV will need to respond. Meanwhile, JPB is continuing our review.	2/15/2022
	JPB has rejected this claim. Contractor erroneously claimed Covid as a DSC, and was late on submittal of claim.		
Increased cost due to extension of work and added scope.	Latest project financial evaluation resulted in a higher Estimate at Completion	Project team will meet with management to discuss measures.	TBD



25th Avenue Grade Separation

Project No.

002088

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Completed planting, grading and drainage north of 25th Ave.
2. Started work on slope at old Hillsdale Station east side access.
3. Completed various punch list items, access from Curiosity Way at Hillsdale Station.
4. Continued to meet with the Executive Management of the Shimmick/Disney JV to discuss negotiating a consolidated resolution to all outstanding commercial issues required to close out the contract.
5. Complete Grounding.

**NEXT KEY ACTIVITIES (top 5)**

1. Complete punch list items.
2. JPB will meet again with the Executive Management of the Shimmick/Disney JV this month to discuss negotiating a consolidated resolution to all outstanding commercial issues required to close out the contract.
3. Work on closing out issues.

**PROJECT NOTES**

1. Budget remains extremely tight. The contractor submitted a change request for \$3.7M for impacts from Covid and excessive change orders. The substantiation is extremely vague and based on theory only.
2. Although currently \$4.1M is allocated for the Parking Track construction, this scope will eventually be removed from the project and delivered under separate project.
3. Construction Management costs are accruing due to the extension of work both from added scope and prolonging of the closeout and punch list completion. This has increased the total project estimate.
4. The schedule had slipped due to continued design issues and the lack of labor available to the contractor to perform the work causing a decrease in the progress percentage. Additionally, materials for extra work were delayed.

**PROJECT PHOTOS**



Photo 1 - 31st Ave. Looking East



Photo 2 - Pump Station Testing



Photo 3 - New Driveway for Bike Path



Photo 4 - 25th Ave. Opening

## Projects in Construction Stations

South San Francisco Station Improvement Project

Project No. 002146

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Construction/Implementation**

Quarter	Safety	Schedule	Budget	Funding
Current	G	Y	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>91.5%</b>	-5.34%	91%

1. Schedule delayed as selected portions of ramp 1 and ramp 2 had to be rebuilt to meet ADA compliance. On schedule for 1/12/22 completion.

**SCOPE Summary**

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.

Project Manager: Hubert Chan  
 Principal Designer: RSE  
 Const. Contractor: ProVen Management, Inc.

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	22
Type II Incidents	0	2

South San Francisco Station Improvement Project

Project No. 002146

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Adv	04/12/17	04/12/17	0	0
Bid Opening	06/12/17	06/12/17	0	0
Award	08/03/17	08/03/17	0	0
LNTF	10/09/17	10/09/17	0	0
NTP	03/06/18	03/06/18	0	0
Project status update to JPB CAC	09/15/21	09/15/21	0	0
Project status update to TA CAC (Citizen Advisory Committee)	10/05/21	10/05/21	0	0
Project status update to TA Board	10/07/21	10/07/21	0	0
Construction Complete	11/30/21	02/10/22	-72	-72
Station Opening	01/10/22	01/13/22	-3	-3
Closeout	05/31/22	05/31/22	0	0

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(D)	(E=C-D)
Engineering	3,227	-457	2,770	2,770	0	0%
ROW/Utilities	200	6,240	6,440	6,440	0	0%
Construction	37,000	23,210	60,210	51,900	8,310	14%
CM & DSDC	4,432	9,358	13,790	13,790	0	0%
Administration	3,018	5,282	8,300	8,300	0	0%
Procurement	0	155	155	155	0	0%
Oper. Support	1,656	2,454	4,110	4,110	0	0%
<b>Subtotals</b>	<b>49,533</b>	<b>46,242</b>	<b>95,775</b>	<b>87,465</b>	<b>8,310</b>	<b>9%</b>
Unknown Risks	NA	NA	NA			
Unallocated Contingency	6,767	-5,942	825	NA	825	100%
<b>Grand Totals</b>	<b>56,300</b>	<b>40,300</b>	<b>96,600</b>	<b>87,465</b>	<b>9,135</b>	<b>9%</b>

South San Francisco Station Improvement Project

Project No. 002146

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding	Un-activated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)	(D)	(E=C-D)
Capital fund from operations source	Other		1,300	1,300	1,300	-
SMCTA Cap Contr to JPB/SAMTR	Other	49,100	(5,028)	44,072	44,572	(500)
CA-2017-057-01	Federal		38,828	38,828	38,828	-
CSSF MOU-SSF Caltrain Station	Local	5,900	6,500	12,400	9,900	2,500
<b>Totals</b>		<b>55,000</b>	<b>41,600</b>	<b>96,600</b>	<b>94,600</b>	<b>2,000</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
PG&E Permanent Power	Hubert Chan	PG&E has provided permanent power to the new station and Poletti Way still needs permanent power.	\$ 40	Med
	Resolved.			

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
1. West Plaza flat-work finish	Hubert Chan ----- Resolved.	Re-finish mockup constructed and approved - Re-finish flat work.	11/12/2021
2. West Plaza flat-work missing expansion joints	Hubert Chan ----- Extended Warranty for flatwork under negotiation with PMI.	Provide Extended Warranty from the contractor to the City of South San Francisco.	TBD
3. Underpass roof water leaks	Hubert Chan ----- Resolved.	Patch roof leaks.	11/29/2021
4. Ramps 1 & 2 ADA slope issue	Hubert Chan ----- Resolved.	Re-built Ramps 1 & 2 that were out of compliance.	1/6/2022



**South San Francisco Station Improvement Project**Project No. **002146****KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Ramp 3/West Plaza: Completed landscaping and installation of guard rails . Continued with negotiation to extend warranty for flatwork.
2. Ramp 2/Stair 2: Rebuilt selected portions of Ramp 2 to meet ADA compliance.
3. Ramp 1/Stair 1: Continued to rebuild selected portions of Ramp 1 to meet ADA compliance. Continued guard rails installation.
4. Poletti Way: PG&E provided power to ped traffic light.
5. Pedestrian Underpass: Repaired water leaks.
6. Completed re-finishing flat work at Ramp 3/West Plaza, Ramp 2/Stair 2, Ramp 1/Stair 1, Polletti Way and Pedestrian

**NEXT KEY ACTIVITIES (top 5)**

1. Ramp 3/West Plaza: Complete negotiation to extend warranty for flatwork.
2. Ramp 2/Stair 2: Complete guard rails installation.
3. Ramp 1/Stair 1: Complete rebuilding Ramp 1 to meet ADA compliance. Complete guard rails installation.
4. Poletti Way: Work with the City to program the ped traffic light.
5. Complete lessons learned session and revise ADA slopes at ramps and landing design criteria to require industry recommended construction tolerances.

**PROJECT NOTES**

1. Schedule delayed to rebuilt selected portions of ramp 1 and ramp 2 causing progress percentage to decrease.

South San Francisco Station Improvement Project

Project No. 002146

PROJECT PHOTOS



Photo 1 - West Plaza



Photo 2 - New platform signage



Photo 3 - Ramp 2



Photo 4 - Poletti way looking towards East Plaza

Projects in Construction  
ROW Bridges

**Marin and Napoleon Bridge Replacement Project**

Project No. **002080**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Close Out**

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>98.64%</b>	0.01%	92%

**SCOPE Summary**

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. Project Scope is for:

- Marin Street Bridge - Improve safety and security, maintain the bridge at a state of good repair, and improve worker safety.
- Napoleon Street Bridge - Improve safety and security, minimize future maintenance repairs, and replace deficient bridge components by removing the 4 short bridge spans not located over box culvert and replace with earth berm, replacing the main center steel bridge with precast concrete girders and adding new wing walls.

Additional trackwork to replace the rail on MT1 and MT2 from approximate MP 2.10 to MP 2.63.

Project Manager: Mike Chan

Principal Designer: RSE

Const. Contractor: Proven Management, Inc.

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	1
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	12/1/2014	12/1/2014	0	0
Preliminary 35% Design	3/31/2016	3/31/2016	0	0
95% Design	6/17/2019	6/17/2019	0	0
100% Design	8/30/2019	8/30/2019	0	0
Revised 95% Design	1/28/2020	1/28/2020	0	0
IFB	2/14/2020	2/14/2020	0	0
Revised 100% Design	2/14/2020	2/14/2020	0	0
Bid Opening	3/13/2020	3/13/2020	0	0
Award	7/9/2020	7/9/2020	0	0
LNTF	8/10/2020	8/10/2020	0	0
NTP	11/11/2020	11/11/2020	0	0
Interim Completion	4/30/2021	4/30/2021	0	0
Construction Complete	8/30/2021	8/25/2021	5	0
Project Finish	11/30/2021	2/28/2022	-90	0

Marin and Napoleon Bridge Replacement Project

Project No. 002080

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	650	750	1,400	1,300	100	7%
ROW/Utilities	15	95	110	192	-82	-74%
Construction	2,000	7,798	9,798	9,798	0	0%
CM & DSDC	545	1,952	2,497	2,700	-204	-8%
Administration	700	1,100	1,800	1,800	0	0%
Procurement	0		0	0	0	
Oper. Support	220	475	695	510	185	27%
<b>Subtotals</b>	<b>4,130</b>	<b>12,170</b>	<b>16,300</b>	<b>16,300</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA			
Unallocated Contingency	620	730	1,350	NA	1,350	100%
<b>Grand Totals</b>	<b>4,750</b>	<b>12,900</b>	<b>17,650</b>	<b>16,300</b>	<b>1,350</b>	<b>8%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
FTA	Federal	11,750		11,750	11,750	0
FY21 STA SOGR	State	1,351		1,351	1,351	0
Prop K - SFCTA & General	Local	3,278		3,278	3,278	0
FY20 AB664 Bridge Toll	Other	640		640	640	0
TBD	Other	631		631	0	631
<b>Totals</b>		<b>17,650</b>	<b>0</b>	<b>17,650</b>	<b>17,019</b>	<b>631</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
None.	-----		\$ -	

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
None.	-----		



**Marin and Napoleon Bridge Replacement Project**

Project No. **002080**

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Continued contract closeout activities.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue contract closeout activities and finish the project.

**PROJECT NOTES**

1. Some of the project's funding is pending activation. The project is concluding and the unactivated amount will not be needed.

**PROJECT PHOTOS**



Photo 1 - Marin Street New Walkways

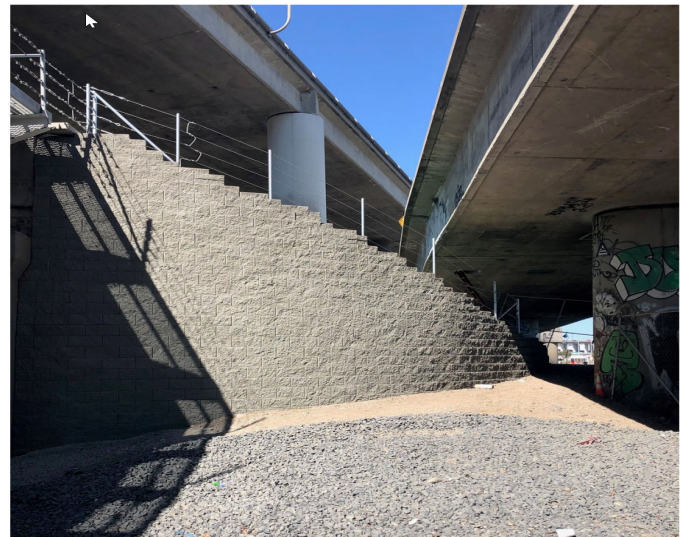


Photo 2 - Napoleon Northeast Retaining Wall



Photo 3 - Napoleon South Abutment



Photo 4 - New Napoleon Bridge

Projects in Construction  
ROW Grade Crossings

**FY2019 Grade Crossing Improvements**

Project No. **100333**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Closed**

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>100%</b>	3.02%	71%

**SCOPE Summary**

This project is the continuation of the Caltrain Grade Crossing Improvement Program which uses the Caltrain Grade Crossing Hazard Analysis to prioritize and ranks the potential risks for the Caltrain grade crossings. The previous FY16 Grade Crossing Improvements project made improvements at:

1. Broadway, Peninsula - Burlingame
2. Whipple Ave, Redwood City
3. 16th St, San Francisco
4. 4th Ave, San Mateo
5. Ravenswood, Menlo Park
6. Charleston, Alma - Palo Alto
7. Rengstorff, Castro - Mountain View
8. Mary Ave, Sunnyvale

This project will include the design, bid & award process, installation of medians, pavement markers and markings to deter motorists from driving around a down gate or stopping on top of the tracks and turning onto the tracks.

The FY2019 and FY2020 funding will be used to improve the safety at the following five grade crossings:

1. San Mateo: 1st Avenue, 2nd Avenue and 3rd Avenue
2. Menlo Park: Glenwood and Oak Grove.

The next round of grade crossing improvements will be done according to updated Grade Crossing Hazard Analysis being performed now with newly acquired data.

Project Manager: Robert Tam

Principal Designer: RSE

Const. Contractor: Sposeto Engineering

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

FY2019 Grade Crossing Improvements

Project No. 100333

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
35% Design	10/01/19	10/01/19	0	0
65% Design	12/31/19	12/31/19	0	0
100% Design	05/01/20	05/01/20	0	0
IFB	09/01/20	09/01/20	0	0
Bids Due	10/12/20	10/12/20	0	0
Contract Award	12/03/20	12/03/20	0	0
LNTF	02/08/21	02/08/21	0	0
Construction Complete	10/01/21	09/20/21	11	11
Project Finish	12/31/21	12/31/21	0	0

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)	(D)	(E=C-D)	(F=E/C)
Engineering	250		250	242	8	3%
ROW/Utilities	0		0	0	0	
Construction	450		450	358	92	20%
CM & DSDC	300		300	95	205	68%
Administration	250		250	210	40	16%
Procurement	0		0	0	0	
Oper. Support	125		125	93	32	26%
<b>Subtotals</b>	<b>1,375</b>	<b>0</b>	<b>1,375</b>	<b>998</b>	<b>377</b>	<b>27%</b>
Unknown Risks	NA	NA	NA	0	25	100%
Unallocated Contingency	25		25	NA		
<b>Grand Totals</b>	<b>1,400</b>	<b>0</b>	<b>1,400</b>	<b>998</b>	<b>402</b>	<b>29%</b>

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding	Unactivated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)	(D)	(E=C-D)
FY20 STA - Capital (PCJPB)	State	1,000		1,000	1,000	0
SAMTR Non CCF Contribution Prepaid	Local	353		353	353	0
Farebox Revenue for Capital	Other	47		47	47	0
<b>Totals</b>		<b>1,400</b>	<b>0</b>	<b>1,400</b>	<b>1,400</b>	<b>0</b>



**FY2019 Grade Crossing Improvements**

Project No. **100333**

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
None.			\$ -	

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
None.			

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Deactivated the activity codes for the project and completed the closeout of the project.

**NEXT KEY ACTIVITIES (top 5)**

1. This project is completed and closed.

**PROJECT NOTES**

1. This will be the last Quarterly status report for the project.

**PROJECT PHOTOS**



Photo 1 - New median on 1st Ave in San Mateo



Photo 2 - New LED pavement markers at Glenwood Ave in Menlo Park



Projects in Construction  
ROW Communications & Signals

Mary Avenue Traffic Signal Preemption

Project No. 100278

Table 1. Status Summary and Total Project Performance

Project Phase: Construction/Implementation

Quarter	Safety	Schedule	Budget	Funding
Current	G	R	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
93.7%	1.01%	55%

1. Waiting for the City of Sunnyvale to install their advance signal preemption circuit in their traffic controller cabinet.

SCOPE Summary

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 allow Caltrain to pass through.

Project Manager: Robert Tam  
 Principal Designer: TBD  
 Const. Contractor: Transamerica Services, INC.

Table 2. SAFETY INCIDENTS

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	02/01/18	02/01/18	0	0
35% Design	05/01/19	05/01/19	0	0
65% Design	12/05/19	12/05/19	0	0
100% Design	05/06/20	05/06/20	0	0
Construction Start	07/21/20	07/21/20	0	0
Materials Received	12/28/20	12/28/20	0	0
Construction Complete	06/30/21	06/30/21	0	0
System Testing	12/31/21	03/31/22	-90	-90
Project Finish	01/31/22	06/30/22	-150	-150

Mary Avenue Traffic Signal Preemption

Project No. 100278

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	200		200	25	175	88%
ROW/Utilities			0		0	
Construction	577		577	0	577	100%
CM & DSDC	225		225	160	65	29%
Administration	1,148		1,148	624	524	46%
Procurement	125		125	116	9	7%
Oper. Support	700		700	700	0	0%
<b>Subtotals</b>	<b>2,975</b>	<b>0</b>	<b>2,975</b>	<b>1,625</b>	<b>1,350</b>	<b>45%</b>
Unknown Risks	NA	NA	NA	100		
Unallocated Contingency	150		150	NA	50	33%
<b>Grand Totals</b>	<b>3,125</b>	<b>0</b>	<b>3,125</b>	<b>1,725</b>	<b>1,400</b>	<b>45%</b>

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding	Unactivated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
Caltrans Sec 130 Agmt #75LX315	State	3,125		3,125	3,125	0
<b>Totals</b>		<b>3,125</b>	<b>0</b>	<b>3,125</b>	<b>3,125</b>	<b>0</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)**

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
Coordination with the City of Sunnyvale	Robert Tam Waiting for the City to install their advance signal preemption circuit in their traffic controller cabinet.	Frequent meetings and communications about the city's installation schedule.	30	Med

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
City of Sunnyvale traffic controller installation delay	Robert Tam There is a delay for the City to receive the delivery of the interconnect cable. Scheduled to arrive at the end of March 2022.	Close and frequent communications with the City about their schedule. Funding agency Caltrans is aware of the City's delay.	3/31/2022

**Mary Avenue Traffic Signal Preemption**Project No. **100278****KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Continued the coordination and communications with the city of Sunnyvale.
2. The City of Sunnyvale indicated that their contractor is telling the city that the interconnect cable will not be delivered
3. Reviewed the city's Site Specific Work Plan and provided comments.

**NEXT KEY ACTIVITIES (top 5)**

1. Wait until the City of Sunnyvale has installed the intersection advance preemption circuit and cable and is ready for testing.

**PROJECT NOTES**

1. The EAC is lower than the budget because TASI is performing the construction instead of a separate contractor.

**PROJECT PHOTOS**

Photo 1 - New advance signal preemption equipment

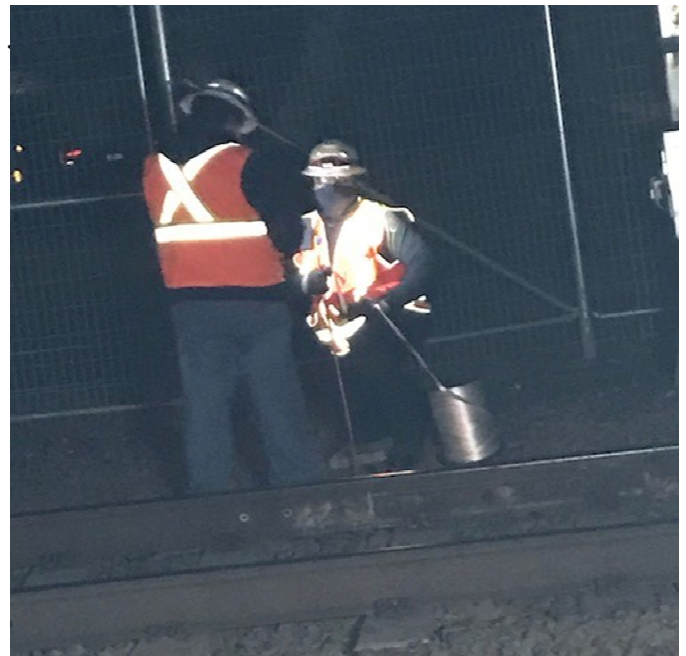


Photo 2 - Workers putting in new signal wires for the train detection in the rail

Projects in Construction  
Fare Collection

**Ticket Vending Machines (TVM) Rehab**

Project No. **100240**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Construction/Implementation**

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>38.38%</b>	<b>-23.72%</b>	99%

**SCOPE Summary**

The project will develop the central back office software necessary to upgrade the TVMs to have Clipper functionality and upgrade components which are obsolete. Additional scope to replace the credit card readers in all existing TVMs has been added to a separate construction contract and is being funded by the IT Department.

The current scope of this project is:

Phase 1 - Two prototype TVM's will be refurbished with Clipper functionality and upgraded components. The prototypes will be installed at Central for testing and development work "Complete".

Phase 2 - Based on the final upgraded prototype, 12 existing TVM's will upgraded at the stations "Complete".

Phase 3 will upgrade an additional 21 TVMs at the stations.

Phase 4 will upgrade an additional 27 TVMs at the stations.

Phase 5 will upgrade an additional 27 TVMs at the stations to complete all the TVM upgrades.

Project Manager: Robert Tam  
 Principal Designer: NA  
 Const. Contractor: Ventek

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	01/01/18	01/01/18	0	0
Bid Opening	09/21/18	09/21/18	0	0
LNTF	12/06/18	12/06/18	0	0
Phase 1 NTP	04/01/19	04/01/19	0	0
Contract Award	04/30/19	04/30/19	0	0
Phase 2 NTP	02/25/20	02/25/20	0	0
Phase 1 Complete	10/31/20	10/31/20	0	0
Phase 2 Complete	03/18/21	03/18/21	0	0
Phase 3 NTP	08/27/21	09/14/21	-18	0
Phase 3 Complete	03/01/22	03/01/22	0	0
Phase 4 NTP	03/01/22	03/01/22	0	30
Phase 4 Complete	08/31/22	08/31/22	0	0
Phase 5 NTP	09/01/22	09/01/22	0	0
Phase 5 Complete	03/31/23	03/31/23	0	0
Project Finish	06/30/23	06/30/23	0	0

**Ticket Vending Machines (TVM) Rehab**

Project No. **100240**

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering			0		0	
ROW/Utilities			0		0	
Construction	3,288		3,288	3,288	0	0%
CM & DSDC			0		0	
Administration	508		508	508	0	0%
Procurement			0		0	
Oper. Support	40		40	40	0	0%
<b>Subtotals</b>	<b>3,836</b>	<b>0</b>	<b>3,836</b>	<b>3,836</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	0	56	100%
Unallocated Contingency	56		56	NA		
<b>Grand Totals</b>	<b>3,892</b>	<b>0</b>	<b>3,892</b>	<b>3,836</b>	<b>56</b>	<b>1%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
CA-54, CA-2017, CA-2020, CA-2021, Cash Flow for tunnel	Federal	1,216	800	2,016	2,016	0
STA Capital, VTA STA	State	160	245	405	405	0
SFCTA, VTA, SAMTR, Prop K, Fare box	Other	55	377	431	431	0
<b>Totals</b>		<b>1,431</b>	<b>1,422</b>	<b>2,852</b>	<b>2,852</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
Material Delays.	Robert Tam ----- Ordered the materials.	Look for alternative suppliers.	----- 60	Med

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
Issuance of Contract delayed.	Robert Tam ----- The Phase 3 contract has been signed and executed.	Sign and execute agreement for Phase 3.	9/14/2021

**Ticket Vending Machines (TVM) Rehab**

Project No. **100240**

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Ordered the materials for the Phase 3 upgrades for 21 TVMs. Some of the materials will not be delivered until Feb 2022.
2. Received the new printers for the upgrade. Still waiting on the rest of the components for the upgrade.
3. Worked with Contracts & Procurement on Staff Report to exercise the option for Phase 4.
4. Obtained approval from Management Committee at Phase gate to proceed with Phase 4 & 5 of the project.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue to monitor the delivery dates of the materials.
2. Work with C&P on Staff Report for the February Board to exercise option in contract for Phase 4.

**PROJECT NOTES**

1. Phase 4 & 5 have been added to the project, therefore, the progress % decreased from the last quarter.

**PROJECT PHOTOS**



Photo 1 - Palo Alto TVM 106

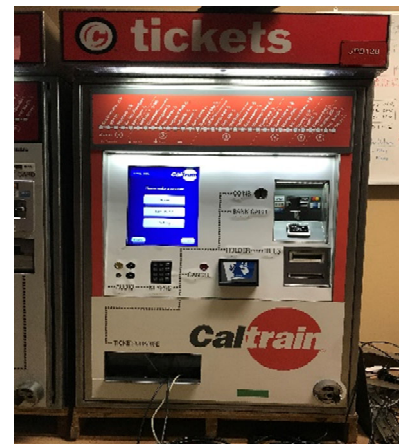


Photo 2 - Prototype TVM Door Graphics



Photo 3 - RWC TVM 65



Photo 4 - San Jose











Projects in Construction  
Miscellaneous

Automatic Passenger Counters at 4th & King

Project No. 100445

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Construction/Implementation**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	R 	G 	G 
Previous	G 	Y 	G 	G 

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>76.26%</b>	-5.32%	88%

1. The COVID-19 Pandemic caused delay in development and logistics. The schedule has been escalated within Centum Adetel and Caltrain. The Centum Team provided a revised Schedule for installation, commissioning and training by 3/31/2022.

**SCOPE Summary**

This project will be for the design and installation of Automatic Passenger Counters (APC) at the platform doors at the Caltrain 4th & King station. Included will be the design of the hardware installation of the APC at 4th & King and the software implementation to retrieve the APC data and analyze it remotely. A contractor will be selected through an IFB process to install the APC equipment at 4th & King.

Project Manager: Njomele Hong  
 Principal Designer: NA  
 Const. Contractor: Centum Adetel Transportation

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	12/01/19	12/01/19	0	0
Issue RFP	05/01/20	05/01/20	0	0
Award Contract	02/03/21	02/03/21	0	0
Complete Construction	10/31/21	06/30/22	-242	-212
Project Finish	12/15/21	09/30/22	-289	-289

Automatic Passenger Counters at 4th & King

Project No. 100445

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	15		15	15	0	0%
ROW/Utilities			0		0	
Construction	85		85	85	0	0%
CM & DSDC			0		0	
Administration	140		140	140	0	0%
Procurement			0		0	
Oper. Support	110		110	110	0	0%
<b>Subtotals</b>	<b>350</b>	<b>0</b>	<b>350</b>	<b>350</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA		50	100%
Unallocated Contingency	50		50	NA		
<b>Grand Totals</b>	<b>400</b>	<b>0</b>	<b>400</b>	<b>350</b>	<b>50</b>	<b>13%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SFCTA Prop K	Local	400		400	400	0
<b>Totals</b>		<b>400</b>	<b>0</b>	<b>400</b>	<b>400</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
System installation	Centum Adetel Android Interface and server schedule for installation slip schedule and APC integration to satisfy Caltrain.	No Mitigation, only this provider can do this work. The provider cannot add more people or resources.	12	Med

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
Access Points installation and verification	Joshua Chao TASI Resolved.	Elevated the situation to the supplier's management (Greybar) & Subcontractor Management (Morrow Meadows).	11/09/21
The COVID-19 Pandemic caused delay in development and logistics	Njomele Resolved.	The schedule has been escalated within Centum Adetel and Caltrain. The Centum Team provided a revised Schedule for installation, commissioning and training by 3/31/2022.	12/21/21

**Automatic Passenger Counters at 4th & King**

Project No. **100445**

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. APC Android tablet interface example provided by Centum Adetel.
2. Worked with Centum Adetel (CA) to provide Comma Separated Values (CSV) and recovery schedule.
3. Construction has been completed and system integration is remaining.
4. Met with Centum and Caltrain Stakeholders to clarify the demands of the project.
5. Centum Adetel provided a new schedule for the completion of the project.

**NEXT KEY ACTIVITIES (top 5)**

1. Confirm expectations of APC Configure and test APC.
2. Review new catch up schedule expected by Centum Adetel.
3. Receive and discuss the data file Comma Separated Values (CSV).
4. Expect validation of APC report to Caltrain January 31, 2021.
5. Seek Management Committee approval to re-baseline project schedule.

**PROJECT NOTES**

None

**PROJECT PHOTOS**



Photo 1 - Thumbnail



Photo 2 - Doors 1, 2, 3 and 4



Photo 3 - Doors 9, 10, 11 and 12



Photo 4 - Doors 5, 6, 7 and 8 APC









Projects in Design  
Grade Separations

**Burlingame Broadway Grade Separation**

Project No. **100244**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Final Design**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	R 	G 	G 
Previous	G 	R 	G 	G 

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>3.3%</b>	0.6%	100%

1. Continue to evaluate Value Engineering Option 3 with the City of Burlingame to revise center boarding platform to side boarding. Meeting set with executive leadership in early January 2022 to reach consensus.

**SCOPE Summary**

This 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.

Currently the project is funded up to "Final Design" phase. The Estimate at Completion (EAC) is for up to "Final Design" phase only. Project is evaluating Value Engineering Options.

Project Manager: Alex Acenas  
 Principal Designer: Mark Thomas  
 Const. Contractor: NA

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

## Burlingame Broadway Grade Separation

Project No. 100244

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	12/18/17	12/18/17	0	0
Preliminary Design 35%	06/28/19	06/28/19	0	0
DCE application to FTA for NEPA clearance	01/31/20	01/31/20	0	0
Environmental Clearance	03/31/20	03/31/20	0	0
Final Design Award	11/05/20	11/05/20	0	0
Final Design NTP	01/04/21	01/04/21	0	0
Burlingame/Broadway Paralleling Station - PS-3 MOU	09/02/21	09/02/21	0	0
Finish Value Engineering Work	08/30/21	01/31/22	-154	-92
65% Design	01/03/22	05/31/22	-148	-148
95% Design	01/02/23	05/31/23	-149	-149
All Permits Received	07/25/23	12/25/23	-153	-153
Final Design IFB	09/30/23	01/31/24	-123	-123
Utility Relocation Complete	12/31/23	03/31/24	-91	-91
Construction Award	03/31/24	06/30/24	-91	-91
Construction NTP	04/01/24	07/01/24	-91	-91
Construction Complete	07/31/27	07/31/27	0	0
Project Finish	10/31/27	10/31/27	0	0

Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)	(D)	(E=C-D)	(F=E/C)
Engineering	2,975	14,300	17,275	17,275	0	0%
ROW/Utilities	80	20	100	100	0	0%
Construction		0	0	0	0	
CM & DSDC		100	100	100	0	0%
Administration	901	2,899	3,800	3,800	0	0%
Procurement		0	0	0	0	
Oper. Support	164	401	565	565	0	0%
<b>Subtotals</b>	<b>4,120</b>	<b>17,720</b>	<b>21,840</b>	<b>21,840</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	2,548	0	0%
Unallocated Contingency	230	2,318	2,548	NA		
<b>Grand Totals</b>	<b>4,350</b>	<b>20,038</b>	<b>24,388</b>	<b>24,388</b>	<b>0</b>	<b>0%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Burlingame Broadway Grade Separation**

Project No. **100244**

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SMCTA Cap Contr	Local	4,550	18,863	23,413	23,413	0
City of Burlingame MOU Grad Sep	Other	1,500	500	2,000	2,000	0
<b>Totals</b>		<b>6,050</b>	<b>19,363</b>	<b>25,413</b>	<b>25,413</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
None.	-----		\$ -	Med

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
1. VE Option #3: Center vs side boarding platform	Alex A, Caltrain PM ----- As agreed upon at the 11/16/21 meeting, JPB will provide the City a pros/cons matrix and updated cost estimates.	Develop a pros and cons matrix, perform independent review of cost estimates by 3rd party consultant, review schedule implications of re-doing NEPA clearance.	1/7/2022

**KEY ACTIVITIES - Current Reporting Quarter** (top 5)

1. JPB is preparing a pros and cons matrix, performing an independent cost review and determining the schedule implications of having to re-do environmental clearance.
2. Meetings with the City and the TA continued to be held to resolve the issue re VE Option #3.
3. Geotechnical investigation, analysis of Easton Creek and Sanchez Creek hydraulics and design development on those elements of the project that are not impacted by VE Options.

**NEXT KEY ACTIVITIES** (top 5)

1. JPB to meet with the City and the TA to resolve VE Option #3 issue.

**PROJECT NOTES**

1. VE Option #3 issue has been resolved in January 2022.



Burlingame Broadway Grade Separation

Project No. 100244

PROJECT PHOTOS



Photo 1 - After construction (rendering)



Photo 3 - Pedestrian Station Entrance East (rendering)



Photo 3 - Broadway/California Dr. (rendering)











Photo 4 - Center Board Platform (rendering)

Rengstorff Grade Separation

Project No. 100482

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Preliminary Design**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	R 	G 	G 
Previous	G 	Y 	G 	G 

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>1.28%</b>	0.04%	100%

1. 35% design submittal delayed due to additional geotechnical investigation and traffic studies.

**SCOPE Summary**

The project proposes to replace the existing at-grade train crossing at Renstorff Avenue with a grade separated crossing in the City of Mountain View. In 2014, the City of Mountain View completed a Renstorff Avenue Grade Separation Design Concepts – Final Report. Of the three design concepts that were presented in the Final Report, the City was in favor of the Complete Street Concept which includes a Rengstorff Avenue Underpass and the construction of a new elevated pedestrian walkway parallel to the Caltrain tracks connecting Crisanto Avenue to the commercial area east of Rengstorff Avenue. The grade separation will require the lowering of approximately 1,200 feet of Rengstorff Avenue and connecting roadways, including Central Expressway.

The current scope of work includes the evaluation of the design concepts that are presented by the City of Mountain View and preparation of preliminary design at 35% for a design validation and constructability review, and preparation of environmental studies for CEQA and NEPA clearance. The goal of the current preliminary design phase is to reach consensus with the project stakeholders in the project definition and approach to advance the project to final design.

Project Manager: Mehdi Arbabian

Principal Designer: AECOM

Const. Contractor: N/A

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Rengstorff Grade Separation

Project No. 100482

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Δ Prev Quarter
	(A)	(B)	(C=A-B)	(D)
Preliminary Design	12/15/21	03/15/22	-90	0
MOU/ CO-OP Agreement with COM for Final Design	12/15/21	06/30/22	-197	-147
65% Design	03/06/23	08/01/23	-148	-148
95% Design	08/02/23	02/01/24	-183	-183
100% Design	02/02/24	05/01/24	-89	-89
All Permits Received	02/03/24	05/01/24	-88	-88
Construction Contract Award - Board Approval	01/02/25	12/01/24	32	32
Construction Completion	10/01/27	09/01/27	30	30
Project Finish	12/21/27	12/01/27	20	20

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)	(D)	(E=C-D)	(F=E/C)
Engineering	2,500		2,500	2,500	0	0%
ROW/Utilities	70		70	70	0	0%
Construction	0		0	0	0	
CM & DSDC	0		0	0	0	
Administration	875		875	875	0	0%
Procurement	0		0	0	0	
Oper. Support	55		55	55	0	0%
<b>Subtotals</b>	<b>3,500</b>	<b>0</b>	<b>3,500</b>	<b>3,500</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA		0	
Unallocated Contingency			0	NA		
<b>Grand Totals</b>	<b>3,500</b>	<b>0</b>	<b>3,500</b>	<b>3,500</b>	<b>0</b>	<b>0%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

Rengstorff Grade Separation

Project No. 100482

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding	Un-activated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
City of Mountain View MOU	Other	3,500		3,500	3,500	0
<b>Totals</b>		<b>3,500</b>	<b>0</b>	<b>3,500</b>	<b>3,500</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
1- County not on board w/ full depressed intersection	City/JPB/ AECOM Working through Engineering issues regarding sight & breaking distances as well as transition grades.	Prepared reference & engineering data to support grade & alignment	\$ 10,000 None	Med

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
1 - Delay in conducting traffic analysis and Geo-technical Investigation may impact the design schedule.	AECOM/City Obtained additional data from the County & City.	Resolved	10/1/2021
2 - Develop multi-party Memorandum Of Understanding among JPB, VTA, City of Mountain View.	JPB/City/County/VTA Pending City negotiations with VTA for funding.	Mehdi A./ Joy H.	2/1/2022

**Rengstorff Grade Separation**Project No. **100482****KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Working on AECOM past invoices issues... BIC - Contracts and Budgets.
2. Continued monthly meeting updates with the City and AECOM.
3. City of Mountain View working on draft cooperative agreement expected to be submitted to JPB in January 2022.
4. Review and comment on 35% design submittal.
5. Performed Geotechnical Investigation.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue working on AECOM past invoices issues.
2. Continue monthly meeting updates with the City and AECOM.
3. Continue working on draft cooperative agreement expected to be reviewed and completed by June 2022.
4. Review and conduct meeting with the City and AECOM to reconcile comments on 35% design.

**PROJECT NOTES****PROJECT PHOTOS**

Photo 1 - Project Rendering

**Mountain View Transit Center and Grade Separation & Access Project**

Project No. **100617**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Procurement**

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>1.28%</b>	0.59%	100%

**SCOPE Summary**

In May 2017, Mountain View City Council adopted the Transit Center Master Plan as the first step in a multi-year process to plan, design and construct the new station area and improve Castro Street. The master planning process considered interrelated options for station access, expressway crossing, grade separation, platform extension, bus/shuttle circulation, vehicle parking and joint development with a view to supporting future Downtown vitality, station access, and multimodal Circulation.

The conceptual plan adopted by Council includes redirection of Castro Street at West Evelyn Avenue; construction of a new ramp from West Evelyn Avenue to Shoreline Boulevard; installation of pedestrian and bicycle undercrossings across the expressway and Caltrain tracks; changes to Moffett/Central intersection; and platform widening and extension to the west. Update the Milestone list for the project and only include major milestones. The co-op agreement between VTA, JPB, and Mountain View has been signed, as JPB is the lead implementing agency to delivery final design, and construction. VTA is the funding sponsor, as Mountain View is a vital partner in reviewing final design deliverables and coordinating activities within its right of way.

Project Manager: Alvin Piano  
 Principal Designer: TBD  
 Const. Contractor: TBD

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	01/01/20	01/01/20	0	0
Award Design Contract	07/07/22	07/07/22	0	0
NTP for Final Design	07/08/22	07/08/22	0	0
Final Design Completion	07/31/23	07/31/23	0	0
All Permits Received	07/31/23	07/31/23	0	0
Award Construction Contract	04/15/24	04/15/24	0	0
NTP for Construction	06/01/24	06/01/24	0	0
Construction Completion	06/30/26	06/30/26	0	0
Project Closeout	09/30/26	09/30/26	0	0

**Mountain View Transit Center and Grade Separation & Access Project**

Project No. **100617**

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	7,000		7,000	7,000	0	0%
ROW/Utilities	200		200	200	0	0%
Construction			0		0	
CM & DSDC	291		291	291	0	0%
Administration	788		788	788	0	0%
Procurement	200		200	200	0	0%
Oper. Support	200		200	200	0	0%
<b>Subtotals</b>	<b>8,679</b>	<b>0</b>	<b>8,679</b>	<b>8,679</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	1,456		
Unallocated Contingency	1,456		1,456	NA	0	0%
<b>Grand Totals</b>	<b>10,135</b>	<b>0</b>	<b>10,135</b>	<b>10,135</b>	<b>0</b>	<b>0%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
City of Mountain View	Other	135		135	135	0
VTA	Other	10,000		10,000	10,000	0
<b>Totals</b>		<b>10,135</b>	<b>0</b>	<b>10,135</b>	<b>10,135</b>	<b>0</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)**

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
Final Design GEC Estimates are of high value.	External Stakeholders ----- JPB to work with VTA and Mountain View.	Project to discuss next steps with funding partners.	-----	Med



**Mountain View Transit Center and Grade Separation & Access Project**

Project No. **100617**

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Co-Op Agreement - final design non-compliance	TBD ----- Executed co-op agreement shows final design to start in July 2021.	Project to internally discuss next steps and further evaluate project delivery method. Resolved.	12/31/2021
Environmental CEQA determination	TBD ----- Resolved.	JPB Environmental must conduct a CEQA Evaluaton on the City of Mountain Views Environmental documents.	10/01/21
FY2022 Budget Set Up	TBD ----- Resolved.	FY2022 Budget has been approved, which reflects \$10M for the project to support final design activities.	11/10/21
Third Party service agreement with County of Santa Clara	External Stakeholders ----- Agreement is required for future design review with County of Santa Clara Engineering Department.	PCJPB to coordinate with the County of Santa Clara on Third Party service cost.	TBD
Future maintenance and operations agreement	Caltrain & External Stakeholders ----- Agreement is required for future maintenance and operations for this project's after construction.	Caltrain to coordinate with Real Estate, Legal and External Stakeholders for further discussion.	TBD

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Continued to reach out to County of Santa Clara to engage in third party service agreement for future design review.
2. Continued to work with C&P for RFP Advertisement.
3. Continued to work with Real Estate for Utility Memo's and maintenance and operations agreement.
4. Worked with third party cost estimating team to verify and determine approximate design and construction cost.
5. Worked with government and community affairs division for public outreach activities.
6. Met with funding partners to provide monthly updates to the project

**NEXT KEY ACTIVITIES (top 5)**

1. Continue to reach out to County of Santa Clara to engage in third party service agreement for future design review.
2. Continue to work with C&P for RFP Advertisement.
3. Continue to work with Real Estate for Utility Memo's and maintenance and operations agreement.
4. Work with Capital Project Delivery group and consultant staff to develop project delivery analysis method.
5. Continue to work with government and community affairs division for public outreach activities.
6. Continue to meet with funding partners to provide monthly updates to the project

**PROJECT NOTES**



Mountain View Transit Center and Grade Separation & Access Project

Project No. 100617

PROJECT PHOTOS



Photo 1 - Ariel view of Castro Street in Mountain View, CA



Photo 2- Project rendering of overall project



Photo 3 - Project rendering of undercrossing



Photo 4 - Project rendering of pedestrian flow via undercrossing









Projects in Design  
ROW Bridges

**Guadalupe River Bridges Replacement and Extension**

Project No. **002113**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Final Design**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	R 	G 	Y 
Previous	G 	Y 	G 	Y 

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>13.0%</b>	-0.13%	100%

1. Schedule delay is due to arbitration and prolonged IFB process, grading revision to sequence operation MT1 to MT2 and delay in final design submittal. Arbitration held 12/13 - 12/16/21. Final ruling scheduled for 3/7/22.
2. Identified sources of funds cover the estimated final design and early construction portions of the project costs. Agency has not received or activated the entirety of those identified funds.

**SCOPE Summary**

The purpose of the project is to address the instability of the Guadalupe River channel in the vicinity of the two rail road bridges, MT1 and MT2 over the Guadalupe River in San Jose and addressing the long-term public safety and service reliability. The work consists of:

- Full replacement of MT1 bridge built in 1935 on wooden piles from a 187-foot in length to new 265-foot bridge with center span of 110 foot over the river.
- Partial Replacement of MT2 bridge which was built in 1990 by replacing the south abutment and extending it from an existing of 195 feet bridge to approximately 250 feet.
- Relocation of communications and Fiber Optic lines and extensive channel grading that causes major erosion and scour during the high flow events.

Project Manager: Mehdi Arbabian  
 Principal Designer: HDR Engineering, Inc.  
 Const. Contractor: N/A

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Guadalupe River Bridges Replacement and Extension

Project No. 002113

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	08/21/17	08/21/17	0	0
Preliminary Design (35%)	04/30/20	04/30/20	0	0
65% Design	11/30/20	11/30/20	0	0
Environmental Clearance NEPA	04/27/21	04/27/21	0	0
95% Design	11/01/21	11/01/21	0	0
100% Design	11/20/21	11/20/21	0	0
Completion of Arbitration with UPRR	12/16/21	04/07/22	-112	-112
All Permits Received	03/02/22	05/24/22	-83	-83
Completion of IFB & Board Award	04/07/22	08/04/22	-119	-63
Executing Contract & LNTP	05/09/22	11/04/22	-179	-63
Construction Completion	01/09/24	12/01/24	-327	30
Project Closing	03/31/25	03/31/25	0	0

Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(D)	(E=C-D)
Engineering	1,800	4,000	5,800	5,800	0	0%
ROW/Utilities	0	1,500	1,500	1,500	0	0%
Construction	0	0	0	0	0	0%
CM & DSDC	0	2,000	2,000	2,000	0	0%
Administration	500	2,050	2,550	2,550	0	0%
Procurement	0	0	0	0	0	0%
Oper. Support	0	900	900	900	0	0%
<b>Subtotals</b>	<b>2,300</b>	<b>10,450</b>	<b>12,750</b>	<b>12,750</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	1,639		
Unallocated Contingency	0	1,639	1,639	NA	0	0%
<b>Grand Totals</b>	<b>2,300</b>	<b>12,089</b>	<b>14,389</b>	<b>14,389</b>	<b>0</b>	<b>0%</b>

Estimate at Completion in this table applies only to scope that has approved budget. Construction budget has not been approved yet.

Guadalupe River Bridges Replacement and Extension

Project No. 002113

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding	Un-activated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SAMTR Non CCF Prepaid	Local	100		100	100	0
VTA Non CCF Prepaid	Other	400		400	400	0
SFCTA Prop K	Other	1,828		1,828	1,828	0
FTA	Federal	9,880	1591	11,471	9,880	1,591
VTA STA SOGR Cap	State	193	397.8	590	193	398
<b>Totals</b>		<b>12,400</b>	<b>1,989</b>	<b>14,389</b>	<b>12,400</b>	<b>1,989</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
1- Missing 2022 construction season	JPB Legal	Seek settlement authority from JPB Board – tender settlement offer to avoid arbitration. The offer was not accepted by UPRR.	\$ 20,000	High
	Awaiting the outcome of arbitration		365	
2- 3rd Party Fiber Optic (leases thru. UPRR)	JPB Legal	Developing strong case with supporting documents and help from senior management, technical group and our attorneys to prevail in the arbitration proceeding	\$ 1,000	Med
	Pending resolution on Arbitration		TBD	
3- Potential MT-1 Bridge failure	JPB	UPRR design by Benesch is being evaluated by AECOM & HDR (done).	\$ 20,000	Med
	Proceeding with 100% design. Resolved.		TBD	

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
UPRR Arbitration	JPB legal & Sr. Management	Work with Technical/Legal team to build strong case to present to Arbitration Panel on 12/13/21 - 12/16/21.	4/7/2022
	Awaiting the outcome of arbitration		

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**Guadalupe River Bridges Replacement and Extension**Project No. **002113**

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**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Settlement offer to be made to UPRR after closed session consultation with the Board. Offer not accepted by UPRR.
2. Continued to finalize the design documents and IFB process with C&P.
3. Agreed with PCEP team to supply the needed construction material for the project from the spare parts being supplied to JPB by Balfour Beatty. The listed material will be included in the contract documents as Owner-furnished equipment/material.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue to finalize the design documents and the IFB process with C&P.
2. Prepare and present the IFB phase gate to management committee and resolve project funding.
3. Seek Management Committee approval to re-baseline project schedule and budget after arbitration ruling on 3/7/22.

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**PROJECT NOTES**

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**Guadalupe River Bridges Replacement and Extension**

Project No. **002113**

**PROJECT PHOTOS**



Photo 1 - Aerial View Caltrain MT1 & MT2 Bridges near SR 87 in San Jose

San Francisquito Creek Bridge Replacement

Project No. **100427**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Preliminary Design**

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	Y
Previous	G	G	G	Y

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>0.33%</b>	0.14%	91%

1. Additional Board approved funding will be needed to complete the design phase.

**SCOPE Summary**

This project includes a detailed inspection conditions assessment of the San Francisquito Creek Bridge located in Palo Alto, California. The information from the inspection report will determine the potential options the project may consider. Please also note, this bridge is 119 years old (built in 1902) and is approaching the end of its design life.

Project Manager: Alvin Piano  
 Principal Designer: AECOM  
 Const. Contractor: TBD

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Δ Prev Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	03/02/21	03/02/21	0	0
Planning Start	08/01/21	08/01/21	0	0
Preliminary Design Complete	08/31/23	08/31/23	0	0
Final Design Complete	10/31/31	10/31/31	0	0
All Permits Received	11/01/31	11/01/31	0	0
IFB	10/31/31	10/31/31	0	0
Main Contract Award	05/31/32	05/31/32	0	0
NTP	06/01/32	06/01/32	0	0
Construction Complete	07/03/34	07/03/34	0	0
Close Project	01/02/35	01/02/35	0	0

San Francisquito Bridge Inspection and Due Diligence

Project No. **100427**

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	2,222		2,222	2,222	0	0%
ROW/Utilities	53		53	53	0	0%
Construction			0		0	
CM & DSDC	57		57	57	0	0%
Administration	1,543		1,543	1,543	0	0%
Procurement			0		0	
Oper. Support	205		205	205	0	0%
<b>Subtotals</b>	<b>4,080</b>	<b>0</b>	<b>4,080</b>	<b>4,080</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA			
Unallocated Contingency	425		425	NA	425	100%
<b>Grand Totals</b>	<b>4,505</b>	<b>0</b>	<b>4,505</b>	<b>4,080</b>	<b>425</b>	<b>9%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
CA-2020-133	Federal	480	1,600	2,080	2,080	0
FY20 SFCTA Prop K 122	Other	120		120	120	0
<b>Totals</b>		<b>600</b>	<b>1,600</b>	<b>2,200</b>	<b>2,200</b>	<b>0</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in \$Ks)**

ID - Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
None				

San Francisquito Bridge Inspection and Due Diligence

Project No. **100427**

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Bridge Inspection Schedule Extension due	Alvin Piano ----- Resolved	Inspections are complete.	11/1/2021
Homeless Encampment Debris Clean Up	Alvin Piano ----- Resolved	Bridge staff to clean up debris prior to inspection activities.	11/1/2021
SF Creek JPA Creek Permits	Alvin Piano ----- Resolved	No need for permits since inspections was completed prior to rainy seasons.	11/1/2021

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Coordinate meeting with JPB Planning Team for project updates.
2. The inspection report and the loading report is going through QA/QC review.
3. Obtain comments from Caltrain staff for inspection report review.
4. Continued working with Government and Community Affairs division for public outreach activities.
5. Continued meeting with funding partners to provide monthly updates to the project.

**NEXT KEY ACTIVITIES (top 5)**

1. Caltrain Engineering to review inspection report and loading report and provide comments.
2. Coordinate with Planning Team for project updates.
3. Coordinate with Capital, Engineering, Operations, Environmental and Planning Team for next phase of project.
4. Continue to work with Government and Community Affairs division for public outreach activities.
5. Re-baseline budget, schedule, and funding after MTC approval for supplemental Local Partnership funding and bid opening.

**PROJECT NOTES**

San Francisquito Bridge Inspection and Due Diligence

Project No. 100427

PROJECT PHOTOS



Photo 1 - Inspection crews via underside of bridge via south side



Photo 2 - Inspection crew cleaning up debris



Photo 3 - Inspection crew setting ladder via north side



Photo 4 - Inspection crew via north side abutment











**Bayshore Station Overpass Pedestrian Bridge Rehab**

Project No. **100439**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Procurement**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	Y 	R 	R 
Previous	G 	G 	R 	R 

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>4.44%</b>	0.90%	<b>260%</b>

1. Budget and Funding reflect red status because the current budget is not enough to fund construction phase. Application for supplemental LPP funding in process.
2. Since we are adding more funds from LPP grants, LPP Grants require us to award the Construction contract after CTC action in March 2022.

**SCOPE Summary**

The Project scope consists of the removal and replacement of existing paint coatings on the steel surfaces of the pedestrian bridge and stairs at the Caltrain Bayshore Station in San Francisco.

Project Manager: Alvin Piano  
 Principal Designer: TBD  
 Const. Contractor: TBD

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Δ Prev Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	01/01/20	01/01/20	0	0
100% IFB Package	07/01/21	07/01/21	0	0
IFB Advertising	12/01/21	12/01/21	0	0
Award	03/03/22	04/07/22	-35	-35
LNTP	04/01/22	05/01/22	-30	-30
NTP	05/31/22	07/31/22	-61	-61
Construction Complete	12/30/22	12/30/22	0	0
Project Finish	03/31/23	03/31/23	0	0

**Bayshore Station Overpass Pedestrian Bridge Rehab**

Project No. **100439**

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	200		200	80	120	60%
ROW/Utilities	0		0	206	-206	
Construction	925		925	3,126	-2,201	-238%
CM & DSDC	660		660	1,401	-741	-112%
Administration	265		265	657	-392	-148%
Procurement	27		27	501	-474	-1769%
Oper. Support	90		90		90	100%
<b>Subtotals</b>	<b>2,167</b>	<b>0</b>	<b>2,167</b>	<b>5,971</b>	<b>-3,804</b>	<b>-176%</b>
Unknown Risks	NA	NA	NA			
Unallocated Contingency	134		134	NA	134	100%
<b>Grand Totals</b>	<b>2,300</b>	<b>0</b>	<b>2,300</b>	<b>5,971</b>	<b>-3,671</b>	<b>-160%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
FY20 STA VTA SOGR Cap Membr Co	State	1,208		1,208	1,208	0
FY20 SFCTA Prop K 120-911065 & VTA SOGR	Local	1,092		1,092	965	127
<b>Totals</b>		<b>2,300</b>	<b>0</b>	<b>2,300</b>	<b>2,173</b>	<b>127</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

ID - Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
None.	-----		-----	

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
Secure additional funding	Caltrain Grants Division ----- Project to coordinate with Rail Operations and Grants teams for next steps.	Work with Rail Ops to secure \$1.15M of funding and Grants to apply for LPP for remaining delta of funds.	3/16/2022



**Bayshore Station Overpass Pedestrian Bridge Rehab**Project No. **100439****KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Coordinate with management for additional funds for the project to support a construction (notice to proceed date is in May 2022).
2. Coordinate with Real Estate to start the permits process to secure ROW access on East and West Side.
3. Continue to work with C&P division for procurement activities.
4. Continue to work with Rail Contracts and Budget divisions to procure Construction Management supports.
5. Continued working with government and community affairs division for public outreach activities.

**NEXT KEY ACTIVITIES (top 5)**

1. Conduct pre-bid meeting with future contractors.
2. Conduct pre-bid field walkthrough with future contractors.
3. Work with C&P division to evaluate and review bids and to determine most qualified bidder for project.
4. Work with C&P division to prepare staff report and board resolution documents.
5. Re-baseline budget, schedule, and funding after MTC approval for supplemental Local Partnership funding and bid opening.

**PROJECT NOTES**

1. The EAC was revised this quarter.

Bayshore Station Overpass Pedestrian Bridge Rehab

Project No. 100439

PROJECT PHOTOS

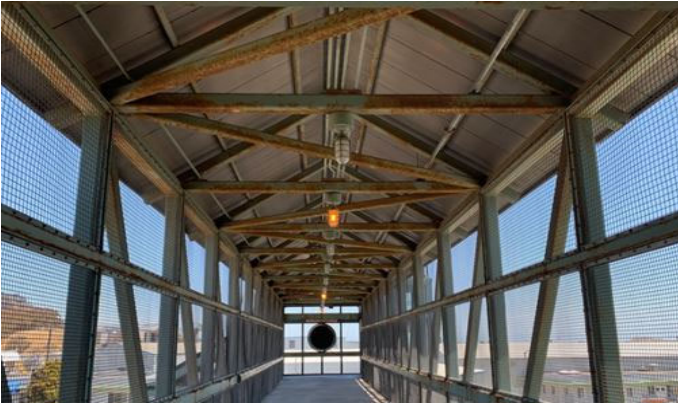


Photo 1 - Pedestrian bridge



Photo 2 - Pedestrian bridge (underside)



Photo 3 - Stair Case (west side)

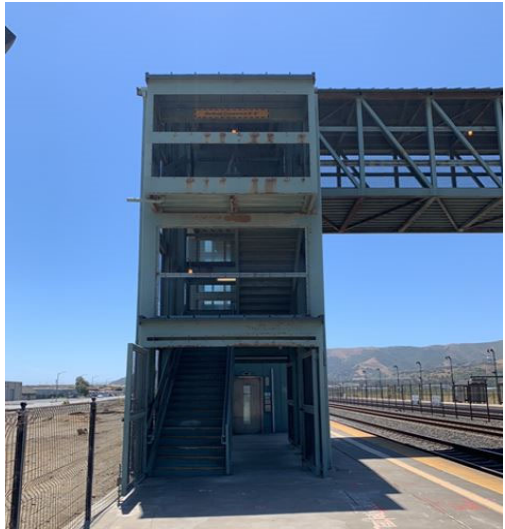


Photo 4 - Stair Case (east side)

Projects in Design  
ROW Grade Crossings

**Churchill Avenue Grade Crossing**

Project No. **100426**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Final Design**

Quarter	Safety	Schedule	Budget	Funding
Current	G	Y	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>15.69%</b>	2.24%	96%

The City of Palo Alto delayed submitting their 100% design. Working with the City's design contractor to obtain design documents.

**SCOPE Summary**

The scope includes the widening of the sidewalk to accommodate heavy bike and pedestrian traffic from local schools; relocate the pedestrian crossing gates due to the widened sidewalk; install new pavement marking and markers for vehicular traffic at the Churchill avenue grade crossing in Palo Alto.

Project Manager: Robert Tam  
 Principal Designer: RSE  
 Const. Contractor: N/A

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
35% Design	03/02/20	03/02/20	0	0
65% Design	07/01/21	07/01/21	0	0
100% Design	11/01/21	11/01/21	0	0
IFB	01/03/22	01/11/22	-8	-8
Construction Contract Award	04/07/22	05/05/22	-28	-28
LNTF	05/13/22	06/13/22	-31	-31
Construction Complete	12/30/22	01/30/23	-31	-31
Project Finish	03/31/23	03/31/23	0	0

Churchill Avenue Grade Crossing

Project No. 100426

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	150		150	150	0	0%
ROW/Utilities			0		0	
Construction	1,500		1,500	1,500	0	0%
CM & DSDC	230		230	230	0	0%
Administration	455		455	455	0	0%
Procurement	0		0	0	0	
Oper. Support	80		80	80	0	0%
<b>Subtotals</b>	<b>2,415</b>	<b>0</b>	<b>2,415</b>	<b>2,415</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA			
Unallocated Contingency	105		105	NA	<b>105</b>	<b>100%</b>
<b>Grand Totals</b>	<b>2,520</b>	<b>0</b>	<b>2,520</b>	<b>2,415</b>	<b>105</b>	<b>4%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
Sec 130 Grant 75LX334	State	2,520		2,520	2,520	0
<b>Totals</b>		<b>2,520</b>	<b>0</b>	<b>2,520</b>	<b>2,520</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
Coordination with the city of Palo Alto.	Robert Tam ----- Received the city's 100% design.	Monthly meetings with the city of Palo Alto.	\$ - ----- 30	Med

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
City of Palo Alto design delays.	Robert Tam ----- The city of Palo Alto finished their 100% design in November 2021.	Close coordination and monthly meetings with City of Palo Alto and their design consultant.	11/30/2021

**Churchill Avenue Grade Crossing**

Project No. **100426**

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Received the 100% design from the City of Palo Alto.
2. Received comments for the JPB 100% design and provided the comments to the designer RSE.
3. Revised the technical plans and specification according to the received comments from the review.
4. Developed the Invitation For Bid package with Contracts & Procurement.
5. Attended the regular monthly meeting with the city.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue coordinate the design with the City of Palo Alto.
1. Advertise and issue the IFB package.

**PROJECT NOTES**

None.

**PROJECT PHOTOS**



Photo 1 - Churchill Ave

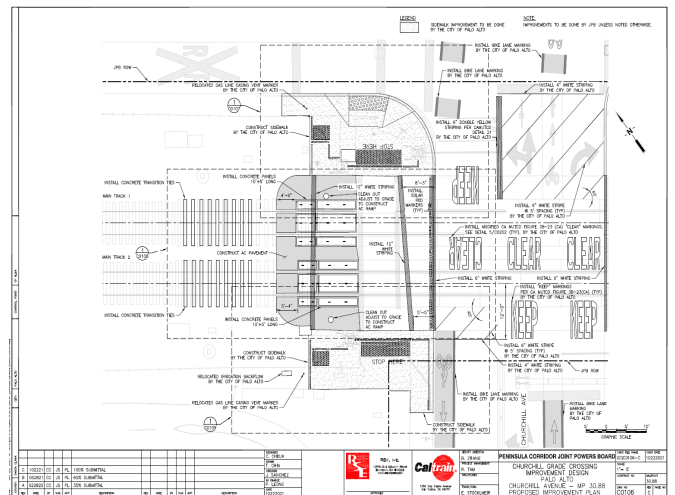






Photo 2 - Churchill Ave Grade Crossing Improvements

Watkins Ave Grade Crossing Safety Improvements

Project No. 100522

Table 1. Status Summary and Total Project Performance

Project Phase: Final Design

Month	Safety	Schedule	Budget	Funding
Current	G 	G 	G 	G 
Previous	NA	NA	NA	NA

Progress (%)	Change Prev. Qtr.	EAC/Budget
6.96%	NA	100%

SCOPE Summary

This project will design and implement safety improvements to the Watkins Ave grade crossing. Safety improvements will include installing quad gates, railings, pavement markings and markers.

Project Manager: Robert Tam

Principal Designer: HNTB

Const. Contractor: TBD

Table 2. SAFETY INCIDENTS

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	07/01/21	07/01/21	0	0
Preliminary (35%) Design Complete	09/30/21	09/30/21	0	0
65% Design Complete	02/01/22	02/01/22	0	0
100% Design Complete	06/30/22	06/30/22	0	0
IFB	09/22/22	09/22/22	0	0
All Permits Received	12/07/22	12/07/22	0	0
Award Construction Contract	01/05/23	01/05/23	0	0
NTP	02/06/23	02/06/23	0	0
Substantial Completion	12/31/23	12/31/23	0	0
Construction Complete	02/01/24	02/01/24	0	0
Close Project	05/01/24	05/01/24	0	0



Watkins Ave Grade Crossing Safety Improvements

Project No. 100522

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	630		630	630	0	0%
ROW/Utilities			0		0	
Construction	2,000		2,000	2,000	0	0%
CM & DSDC	350		350	350	0	0%
Administration	385		385	385	0	0%
Procurement	25		25	25	0	0%
Oper. Support	100		100	100	0	0%
<b>Subtotals</b>	<b>3,490</b>	<b>0</b>	<b>3,490</b>	<b>3,490</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	685	0	0%
Unallocated Contingency	685		685	NA		
<b>Grand Totals</b>	<b>4,175</b>	<b>0</b>	<b>4,175</b>	<b>4,175</b>	<b>0</b>	<b>0%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SMCTA	Local	4,125		4,125	4,125	0
VTA	Other	50		50	50	0
<b>Totals</b>		<b>4,175</b>	<b>0</b>	<b>4,175</b>	<b>4,175</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
None.	-----		-----	

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
None.	-----		

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**Watkins Ave Grade Crossing Safety Improvements**

Project No. **100522**

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**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Received comments for the 35% design and provided comments to the designer HNTB.
2. Conducted a field diagnostic meeting with the Town of Atherton, CPUC and FRA.
3. HNTB worked on the 65% design package.
4. HNTB presented some street lighting scenarios for the crossing to JPB and the Town of Atherton.

**NEXT KEY ACTIVITIES (top 5)**

1. Receive the 65% design package from HNTB.
2. Project team seeks funding from MTC from Local Partnership Program to support a spring 2022 construction contract award date.

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**PROJECT NOTES**

None.

San Mateo Grade Crossing Improvements

Project No. 100566

Table 1. Status Summary and Total Project Performance

Project Phase: Final Design

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	G
Previous	G	G	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
9.79%	3.67%	100%

SCOPE Summary

This project will design and implement safety improvements including quad gates or exit gates at the 4th and 5th Ave grade crossings in San Mateo. This project will make the two grade crossings safer for the train, motorist and pedestrians. The project is funded by the CPUC/Caltrans Section 130 program.

Project Manager: Robert Tam  
 Principal Designer: RSE  
 Const. Contractor: TBD

Table 2. SAFETY INCIDENTS

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	02/26/21	02/26/21	0	0
Work Plan and SMRC Approval	02/26/21	02/26/21	0	0
Issue Design Work Directive	03/22/21	03/22/21	0	0
35% Design	06/30/21	06/30/21	0	0
65% Design	09/30/21	09/30/21	0	0
100% Design	12/31/21	01/10/22	-10	-10
IFB	03/01/22	03/01/22	0	0
Award Construction Contract	07/07/22	07/07/22	0	0
NTP	09/01/22	09/01/22	0	0
Construction Complete	09/01/23	09/01/23	0	0
Close Project	01/02/24	01/02/24	0	0

San Mateo Grade Crossing Improvements

Project No. 100566

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	900		900	900	0	0%
ROW/Utilities			0		0	
Construction	3,000		3,000	3,000	0	0%
CM & DSDC	220		220	220	0	0%
Administration	1,090		1,090	1,090	0	0%
Procurement			0		0	
Oper. Support	50		50	50	0	0%
<b>Subtotals</b>	<b>5,260</b>	<b>0</b>	<b>5,260</b>	<b>5,260</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	211		
Unallocated Contingency	211		211	NA	0	0%
<b>Grand Totals</b>	<b>5,471</b>	<b>0</b>	<b>5,471</b>	<b>5,471</b>	<b>0</b>	<b>0%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
Section 130 Grant EA#75280A	State	2,000		2,000	2,000	0
<b>Totals</b>		<b>2,000</b>	<b>0</b>	<b>2,000</b>	<b>2,000</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
Coordination with PCEP signal work at the crossings.	Robert Tam ----- PCEP is schedule to perform and complete their work in early 2022.	Monthly meetings with PCEP to coordinate our schedules.	\$ -	
Obtain construction funding from Caltrans	Robert Tam ----- Will submit funding request after final design is complete.	Regular meetings with Caltrans Local assistance	\$ - 60	

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
None	-----		

**San Mateo Grade Crossing Improvements**

Project No. **100566**

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Received comments for the 65% design package.
2. Continued working on the 100% design package. The design will be completed and submitted in early January 2022.
3. Met with the city of San Mateo to coordinate designs at the crossings.

**NEXT KEY ACTIVITIES (top 5)**

1. Receive the 100% design and send it out for review.
2. Complete the 100% final design.

**PROJECT NOTES**

1. Currently, Project funding has been approved for the design phase only. Construction funding has not been approved yet.

**PROJECT PHOTOS**

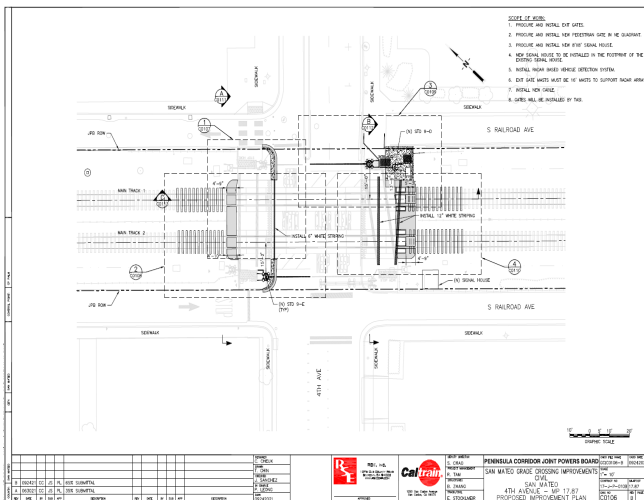


Photo 1 - San Mateo Grade Crossing Improvements

Projects in Design  
ROW Communications & Signals

**Broadband Wireless Communications System**

Project No. **100403**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Procurement**

Quarter	Safety	Schedule	Budget	Funding
Current	G	R	G	Y
Previous	G	Y	G	Y

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>4.99%</b>	1.53%	100%

1. The proposal due date has been extended due to requests by several proposers to be able to submit a well thought out, comprehensive proposal.
2. Some of the project's funding is pending activation. These funds will be activated for the construction phase.

**SCOPE Summary**

The project will design a broadband wireless communications system along the Caltrain corridor for the wayside train maintenance diagnostics and passenger Wi-Fi service. The project will investigate leveraging the existing infrastructure such as the Overhead Contact System (OCS) poles and JPB fiber network to communicate with passing trains. Wayside antennas may be mounted on the OCS poles at a constant interval to communicate with moving trains that will be equipped with radios and antennas.

Project Manager: Robert Tam  
 Principal Designer: Xentrans  
 Const. Contractor: TBD

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	11/11/19	11/11/19	0	0
Notice to Proceed	11/11/19	11/11/19	0	0
Requirements Gathering	02/13/20	02/13/20	0	0
RF Study	08/10/20	08/10/20	0	0
Rough Cost Estimate	08/21/20	08/21/20	0	0
Conceptual Design	11/19/20	11/19/20	0	0
Issue RFP	09/15/21	10/08/21	-23	0
Live Demonstration	11/15/21	02/18/22	-95	-45
Award Construction Contract	02/03/22	05/05/22	-91	-63
Complete Construction	09/30/23	09/30/23	0	0
Project Finish	12/31/23	12/31/23	0	0



Broadband Wireless Communications System

Project No. 100403

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	560		560	560	0	0%
ROW/Utilities			0		0	
Construction	10,000		10,000	10,000	0	0%
CM & DSDC	800		800	800	0	0%
Administration	1,000		1,000	1,000	0	0%
Procurement	50		50	50	0	0%
Oper. Support	500		500	500	0	0%
<b>Subtotals</b>	<b>12,910</b>	<b>0</b>	<b>12,910</b>	<b>12,910</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	1,090		
Unallocated Contingency	1,090		1,090	NA	0	0%
<b>Grand Totals</b>	<b>14,000</b>	<b>0</b>	<b>14,000</b>	<b>14,000</b>	<b>0</b>	<b>0%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
FY19 TIRCP	State	14,000		14,000	2,000	12,000
<b>Totals</b>		<b>14,000</b>	<b>0</b>	<b>14,000</b>	<b>2,000</b>	<b>12,000</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority)** (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
1 - No reasonable proposals from the RFP	Robert Tam ----- Extended RFP date at request of proposers.	Worked with consultant to develop a RFP that is aligned with the industry standards and existing systems.		Low
2 - Utilizing OCS poles and modifying EMU cars.	Robert Tam ----- Working with PCEP team	Frequent communications with the PCEP team about schedule and use of infrastructure.		Med

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Long review time for RFP	Robert Tam ----- Issued the RFP on Oct 8, 2021	Resolved.	10/8/2021

**Broadband Wireless Communications System**

Project No. **100403**

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Answered questions from the proposers and provided additional reference information on Caltrain assets.
2. Received 4 proposals from the RFP.

**NEXT KEY ACTIVITIES (top 5)**

1. Review and score the proposals.
2. Seek Management Committee approval to re-baseline the project budget, funding and schedule after selection of the highest ranked proposer to align with the technology selected and their implementation schedule.

**PROJECT NOTES**

None.

**PROJECT PHOTOS**







Photo 1 - Broadband Wireless Communications System Conceptual Design

Migration to Digital Voice Radio System

Project No. 100432

Table 1. Status Summary and Total Project Performance

Project Phase: Final Design

Quarter	Safety	Schedule	Budget	Funding
Current	G 	G 	G 	G 
Previous	NA	NA	NA	NA

Progress (%)	Change Prev. Qtr.	EAC/Budget
NA	NA	100%

SCOPE Summary

This project is part of the continual effort of Caltrain to migrate toward a digital voice radio system. The project includes procurement and installation of new Digital VHF voice Base station radios, repair of Microwave dish covers, procurement of digital communications test equipment, and inspecting and repairing associated antennas and cables. This is in-kind replacement of no longer supported equipment.

Project Manager: Njomele Hong  
 Principal Designer: TBD  
 Const. Contractor: TBD

Table 2. SAFETY INCIDENTS

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	11/02/21	11/02/21	0	0
Final Design	03/01/22	03/01/22	0	0
IFB	04/01/22	04/01/22	0	0
Main Contract Award	08/15/22	08/15/22	0	0
NTP	10/01/22	10/01/22	0	0
Substantial Completion	10/01/23	10/01/23	0	0
Construction Completion	12/01/23	12/01/23	0	0
Close Project	03/01/24	03/01/24	0	0

Migration to Digital Voice Radio System

Project No. 100432

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	0		0	0	0	
ROW/Utilities	0		0	0	0	
Construction	243		243	243	0	0%
CM & DSDC	30		30	30	0	0%
Administration	122		122	122	0	0%
Procurement	5		5	5	0	0%
Oper. Support	270		270	270	0	0%
<b>Subtotals</b>	<b>670</b>	<b>0</b>	<b>670</b>	<b>670</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	30		
Unallocated Contingency	30		30	NA	0	0%
<b>Grand Totals</b>	<b>700</b>	<b>0</b>	<b>700</b>	<b>700</b>	<b>0</b>	<b>0%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
JPB CA-2020-133	Federal	428		428	428	0
Bridge Toll Funds	Local	272		272	272	0
<b>Totals</b>		<b>700</b>	<b>0</b>	<b>700</b>	<b>700</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
New Radio & Interfaces Non Functional	Farid Ardakani ----- Meetings and planning in process for implementation.	Test Radios prior to cutover and implement solutions. This should eliminate the risk of issues during cutover as the complete system would be tested in field like conditions.	6	Low
Covid Delays Base Station Radio	Njomele Hong ----- Manufacturer notes 30 - 60 day lead time for products packaged with interfaces (Base Station and Power Supply).	Investigate PS purchased separately if lead time is critical.	6	Low

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
Covid Delays	Mike Lepow ----- Resolved.	Wait on supplier.	11/29/22

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**Migration to Digital Voice Radio System**Project No. **100432**

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**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Reviewed proposals from vendors for 5 radio to buyout by Caltrain for initial test.
2. Discussed project billing with Communications Systems.
3. Procurement was working with PM and IKOM to set up initial contract for Base Station Radio Purchase.
4. Created Work Directive Proposal Request for Installation of Radios for TASI review.
5. TASI Communications and Caltrain Systems Engineering performed technical review of additional radio interfaces.

**NEXT KEY ACTIVITIES (top 5)**

1. Drum Antennae Cover & Cable deliveries expected in January 2022.
2. Schedule Drum Antennae Cover installation.
3. Contract with vendor for 5 Base Station Radio and interfaces & update lead time.
4. Document Test Criteria via site specific work plan with TASI.

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**PROJECT NOTES**

1. No expenses have been registered in PeopleSoft yet.

Next Generation Visual Messaging Sign (VMS)

Project No. 100449

Table 1. Status Summary and Total Project Performance

Project Phase: Final Design

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	G
Previous	G	R	G	G

Progress (%)	Change Prev. Qtr.	EAC/Budget
2.27%	N/A	100%

SCOPE Summary

This project will determine the new visual message signs (VMS) and passenger information system for the Caltrain stations. The current VMS signs are no longer supported by the manufacturer and the predictive arrival and departure system (PADS) is becoming obsolete. Research will be done to determine whether it's best to replace the signs that will work with the current predictive arrival and departure system (PADS) or replace signs for the next generation passenger information system.

Project Manager: Njomele Hong  
 Principal Designer: TBD  
 Const. Contractor: TBD

Table 2. SAFETY INCIDENTS

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	05/01/20	05/01/20	0	0
Requirement Documents/Design Study	12/30/21	12/30/21	0	0
RFP	03/14/22	03/14/22	0	0
Award construction	09/15/22	09/15/22	0	0
NTP	11/15/22	11/15/22	0	0
Construction / System Integration complete	03/14/24	03/14/24	0	0
Project Finish	06/14/24	06/14/24	0	0

Next Generation Visual Messaging Sign (VMS)

Project No. 100449

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering			0		0	
ROW/Utilities			0		0	
Construction	5,000		5,000	5,000	0	0%
CM & DSDC			0		0	
Administration	410		410	410	0	0%
Procurement			0		0	
Oper. Support	25		25	25	0	0%
<b>Subtotals</b>	<b>5,435</b>	<b>0</b>	<b>5,435</b>	<b>5,435</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	65	0	0%
Unallocated Contingency	65		65	NA		
<b>Grand Totals</b>	<b>5,500</b>	<b>0</b>	<b>5,500</b>	<b>5,500</b>	<b>0</b>	<b>0%</b>

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SFCTA Prop K	Local	500		500		500
<b>Totals</b>		<b>500</b>	<b>0</b>	<b>500</b>	<b>0</b>	<b>500</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)**

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
5 Stations do not have VMS, cost and implementation	Njomele Hong ----- Gather Budget for infrastructure and signs along with Schedule for Management review.	Use existing structure as baseline and the selected VMS sign. Site visit for RFP development.	TBD	Low

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
RFP Address Dog Bones as VMS	Larry Dewit ----- TBD	Determine if the 12 VMS Signs at 4th and king shall be upgraded or replaced. The VMS 6700 is not obsolete.	01/15/22



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**Next Generation Visual Messaging Sign (VMS)**Project No. **100449**

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**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Alternative Matrix reviewed and decided to create new separate PADS project.
2. Decided that a web style interface is preferred.
3. Gathered cost for related construction and estimate cost for VMS system implementation.
4. Met with VMS system OEM and Display OEM, interfaces are considered standard work product.

**NEXT KEY ACTIVITIES (top 5)**

1. Finish the system requirements document for RFP.
2. Complete and share CONOPS.
3. Develop Cost estimates for new communications with Arinc signs.
4. Develop cost estimates for new sign post and connection to station infrastructure at 5 locations without VMS.

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**PROJECT NOTES**





None.

Communication System SOGR

Project No. 100572

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Preliminary Design**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	G 	G 	G 
Previous	NA	NA	NA	NA

Progress (%)	Change Prev. Qtr.	EAC/Budget
NA	NA	96%

**SCOPE Summary**

This project is the annual state of good repair (SOGR) program for Caltrain’s communication systems. The project includes design and installation of networking/telecommunication equipment and another design to update the migration to digital voice radio design.

Project Manager: Njomele Hong  
 Principal Designer: TBD  
 Const. Contractor: TBD

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	11/02/21	11/02/21	0	0
Conceptual Design Complete	12/15/21	12/15/21	0	0
Preliminary (35%) Design Complete	01/15/22	01/15/22	0	0
Final Design Complete	04/01/22	04/01/22	0	0
IFB	05/15/22	05/15/22	0	0
All Permits Received	05/15/22	05/15/22	0	0
Main Contract Award	11/15/22	11/15/22	0	0
NTP	01/15/23	01/15/23	0	0
Substantial Completion	08/01/23	08/01/23	0	0
Construction Complete	12/01/23	12/01/23	0	0
Close project	02/01/24	02/01/24	0	0

Communication System SOGR

Project No. 100572

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	440		440	440	0	0%
ROW/Utilities			0		0	
Construction	540		540	540	0	0%
CM & DSDC			0		0	
Administration	250		250	250	0	0%
Procurement	10		10	10	0	0%
Oper. Support	10		10	10	0	0%
<b>Subtotals</b>	<b>1,250</b>	<b>0</b>	<b>1,250</b>	<b>1,250</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA			
Unallocated Contingency	50		50	NA	50	100%
<b>Grand Totals</b>	<b>1,300</b>	<b>0</b>	<b>1,300</b>	<b>1,250</b>	<b>50</b>	<b>4%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
JPB CA-2021	Federal	900		900	900	0
VTA STA SOGR Cap	State	400		400	400	0
<b>Totals</b>		<b>1,300</b>	<b>0</b>	<b>1,300</b>	<b>1,300</b>	<b>0</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)**

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
Radio Coverage	Farid A. Simulation shows good coverage.	Test five radio at various sites for complete coverage.		Low
Protocol Conversion	Farid A. Select solution to convert from Radio NXDN to AT&T Fiber T1 or Equivalent.	Equipment will be tested on small scale to confirm compatibility.		Low
Cutover Plan	Farid A. This will not be a risk until after the system has been test implemented and is operating in stable fashion.	The Cutover will occur at low demand night time and will be thoroughly tested before commencement.		Low
Testing	Farid A. The test plan is in development. Will likely require multiple radio technicians.	Test plan will be developed and discussed with everyone impacted by the test.		Low

**Communication System SOGR**

Project No. **100572**

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Update DVR Drawings	Farid A. Identified several drawings per station for radio that shall be updated with redlines for new and disposed equipment. (Resolved)	Weekly Meeting to ensure interfaces are aware of activities.	

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Configured Base Station Radio and Interfaces.
2. Completed 35% Design.
3. Identified likely Consultant for Drawing development.

**NEXT KEY ACTIVITIES (top 5)**

1. Review 35% design.
2. Discuss 65% - 100% design effort.
3. Create Work Directive for Consultant.

**PROJECT NOTES**

1. No expenses have been registered in PeopleSoft yet.

Projects in Design  
Fare Collection

Clipper Next Generation Validators Site Preparations

Project No. 100574

Table 1. Status Summary and Total Project Performance

Project Phase: Procurement

Quarter	Safety	Schedule	Budget	Funding
Current	G	G	G	Y
Previous	G	G	G	Y

Progress (%)	Change Prev. Qtr.	EAC/Budget
15.4%	3.37%	100%

1. Some of the project's funding is pending activation. These funds have not been received.

SCOPE Summary

MTC is replacing their Clipper Card Interface Device (CID) with the Next Generation Clipper Validator. This project will develop a design and procure a contractor for the construction to prep Caltrain stations for the new Clipper Next Generation Validators.

Project Manager: Robert Tam

Principal Designer: NA

Const. Contractor: NA

Table 2. SAFETY INCIDENTS

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	04/01/21	04/01/21	0	0
Final Design Complete	10/30/21	10/30/21	0	0
Award Contract	03/17/22	02/03/22	42	42
NTP	04/01/22	04/01/22	0	0
Construction Complete	12/30/22	12/30/22	0	0
Project Finish	03/31/23	03/31/23	0	0

Clipper Next Generation Validators Site Preparations

Project No. 100574

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	600		600	600	0	0%
ROW/Utilities	0		0	0	0	
Construction	1,500		1,500	1,500	0	0%
CM & DSDC	350		350	350	0	0%
Administration	710		710	710	0	0%
Procurement	30		30	30	0	0%
Oper. Support	20		20	20	0	0%
<b>Subtotals</b>	<b>3,210</b>	<b>0</b>	<b>3,210</b>	<b>3,210</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	931	0	0%
Unallocated Contingency	931		931	NA		
<b>Grand Totals</b>	<b>4,141</b>	<b>0</b>	<b>4,141</b>	<b>4,141</b>	<b>0</b>	<b>0%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SAMTR Non CCF Prepaid	Local	81		81	81	0
FY20 STA - Capital	State	500		500	500	0
Sect 5337 JPB CA-2021-121	Federal	1,500		1,500	1,500	0
FY21 VTA STA SOGR Capital	State	500		500	500	0
Measure RR	Local	312		312	0	312
FTA	Federal	1,248		1,248	0	1,248
<b>Totals</b>		<b>4,141</b>	<b>0</b>	<b>4,141</b>	<b>2,581</b>	<b>1,560</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
No bids for construction.	Robert Tam	Outreach to potential bidders	\$ 10	Low
	Working on outreach.		90	
Schedule coordination with MTC Clipper validator installation.	Robert Tam	Frequent communications with MTC about scheduling	\$ -	Med
	Ongoing coordinations.			



**Clipper Next Generation Validators Site Preparations**

Project No. **100574**

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
None.			

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Issued the Invitation For Bid package.
2. Conducted a pre-bid meeting and site visit for the IFB.
3. Received 2 bids from the IFB.
4. Performed a reference check on the lowest bidder.

**NEXT KEY ACTIVITIES (top 5)**

1. Prepare Staff Report for the February Board for award.

**PROJECT NOTES**

None.

**PROJECT PHOTOS**



Photo 1 - Old Clipper CID



**VALIDATOR  
(NOTE 1)**

Photo 2 - New Clipper Validator





Projects in Design  
Miscellaneous

San Mateo Replacement Parking Track

Project No. **TBD**

**Table 1. Status Summary and Total Project Performance**

Project Phase: Design

Quarter	Safety	Schedule	Budget	Funding
Current	G 	G 	G 	G 
Previous				

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>NA</b>	NA	100%

**SCOPE Summary**

The project involves the preparation of an amendment to the previously-obtained environmental clearance report and final design of a "set out track" to replace the one that was removed in the Bay Meadows area to facilitate the construction of the 25th Avenue Grade Separation Project. The track, which will be located between 10th and 14th Aves., will be accessed from 9th Ave., approximately 1,000 feet in length, electrified, have a single switch.

Project Manager: Alexander Acenas  
 Principal Designer: TBD  
 Const. Contractor: TBD

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Month	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Δ Prev Month
	(A)	(B)	(C=A-B)	(D)
Environmental Clearance	03/31/22	03/31/22	0	0
Final Design	12/31/22	12/31/22	0	0
ROW Acquisition / Utilities Relocation	02/28/23	02/28/23	0	0
Procurement	04/30/23	04/30/23	0	0
Construction	12/31/23	12/31/23	0	0
Closeout	03/31/24	03/31/24	0	0

San Mateo Replacement Parking Track

Project No.

TBD

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	600		600	600	0	0%
ROW/Utilities	217		217	217	0	0%
Construction	6,042		6,042	6,042	0	0%
CM & DSDC	810		810	810	0	0%
Administration	567		567	567	0	0%
Procurement	130		130	130	0	0%
Oper. Support	65		65	65	0	0%
<b>Subtotals</b>	<b>8,431</b>	<b>0</b>	<b>8,431</b>	<b>8,431</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA	1,579		
Unallocated Contingency	1,579		1,579	NA	0	0%
<b>Grand Totals</b>	<b>10,010</b>	<b>0</b>	<b>10,010</b>	<b>10,010</b>	<b>0</b>	<b>0%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding	Un-activated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
		0	0	0	0	0
<b>Totals</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)**

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
	-----		-----	

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
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**San Mateo Replacement Parking Track**

Project No.

**TBD**

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**KEY ACTIVITIES - Current Reporting Month** (top 5)

1. Project was authorized by the Management Committee at its Dec. 9, 2021 meeting.

**NEXT KEY ACTIVITIES** (top 5)

1. Environmental Planning will prepare an amendment to the environmental clearance report.
  2. The services of a General Engineering Consultant will be procured for the Final Design.
- 

**PROJECT NOTES**

1. \$4.1M to be transferred from 25th Ave Grade Separation project once this project has been created in PeopleSoft.
2. This is the first report for this project. Any missing information will be added in the future reports.
3. Project requires additional funding. Project seeks 50% match from MTC's Local Partnership Program funding to support a spring 2023 construction procurement schedule.







Projects in Planning/Environmental  
Managed Projects

South Linden Avenue and Scott Street Grade Separation

Project No. **002152**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Planning**

Quarter	Schedule	Budget	Funding
Current	G 	G 	G 
Previous	G 	G 	G 

**PROJECT SCOPE Summary**

The South Linden Avenue and Scott Street Grade Separation Project is proposed to improve safety and decrease expected future traffic delays due to growth in vehicle traffic, greater frequency of Caltrain service, and the eventual addition of high speed rail. South Linden Avenue is located in South San Francisco; Scott Street is in San Bruno. Although located in different cities, the two grade separations are proposed to be undertaken as a combined effort. Since the two crossing locations are located only 1,850 feet apart, the grade separation of one crossing could affect the other.

The Cities of South San Francisco and San Bruno are co-sponsors of the Project.

**PLANNING SCOPE Summary**

Staff of the two cities provided input on alternatives as well as existing data on infrastructure maintained by the cities. City staff also facilitated and participated in public outreach efforts. The JPB is the implementing agency and contracted with a consultant (AECOM) to prepare the planning and Project Study Report with alternatives for the Scott Street and South Linden Avenue. The Project Study Report for the South Linden Avenue grade separation was completed in April, 2021. The PSR evaluated four build alternatives. Multiple City Council meetings and public meetings were held to present the project and receive feedback from elected officials, residents and business owners from both cities. Outreach included three community workshops, three South San Francisco City Council meetings, and five San Bruno City Council meetings.

In November 2019, the City of San Bruno decided that closure of Scott Street to motor vehicles and construction of a pedestrian/bicycle-only grade separated crossing is preferred. In August/September 2020, both Cities selected Alternative 1 (rail elevated approximately 15.5 feet at South Linden Avenue and 2.5 feet at Scott Street) as the preferred alternative. Additionally, in November 2020, the San Bruno City Council provided direction to City staff that a pedestrian/bicycle undercrossing, versus an overcrossing, is the preferred option at Scott Street.

Project Manager: Dennis Kearney  
 Study Consultant: AECOM  
 Sponsors: Cities of South San Francisco and San Bruno

**Table 2. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Completion (A = Actual)	Variation (days)	Δ Prev Quarter
	(A)	(B)	(C=A-B)	(D)
Draft PSR	01/31/21	01/31/21	0	0
Final PSR	04/30/21	04/30/21	0	0
Project Approval & Environmental Document (PA&ED)	10/31/24	10/31/24	0	0
Plans, Specs & Estimate (PS&E) (Final Design)	04/30/28	04/30/28	0	0
Utility Relocations	10/31/29	10/31/29	0	0
ROW/Easements	04/30/30	04/30/30	0	0
Begin Construction	05/01/30	05/01/30	0	0
Complete Construction	03/31/33	03/31/33	0	0

South Linden Avenue and Scott Street Grade Separation

Project No. 002152

**Table 3. PROJECT BUDGET, COST, and EAC (thousands of \$)**

	Budget			Estimate at Completion (EAC) (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
<b>Totals</b>	<b>750</b>	<b>60</b>	<b>810</b>	<b>810</b>	<b>0</b>	<b>0%</b>

**Table 4. FUNDING (thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
San Mateo County TA	Local	650		650	650	0
City of San Bruno	Local	60		60	60	0
City of South San Francisco	Local	100		100	100	0
<b>Totals</b>		<b>810</b>	<b>0</b>	<b>810</b>	<b>810</b>	<b>0</b>

**Table 5. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Varying design standards between Caltrain and California High Speed Rail on the curve between Colma Creek and South Linden Avenue.	Melissa Reggiardo/Dennis Kearney ----- Caltrain standards for 110 mph operations would cause significant impacts to adjacent property. High Speed Rail assumes no track changes in this area but assumes speeds could reach up to 110 mph.	The design in the PSR was modified to allow for reduced speeds. Caltrain versus High Speed Rail curve design and speed assumptions must be revisited during the next phase of project development to determine what standards should be used in more detailed design phases.	TBD
Internal project budget has been exhausted and additional funds are required to complete the current phase of work and develop and RFP for the next phase of work.	Dennis Kearney  Resolved.	Additional budget for interim work was approved by the Management Committee (12/9/21).	(12/9/2021)

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Held monthly meeting with the cities to clarify roles and responsibilities and the process and timing to establish agreements.
2. Internal Caltrain Planning and Engineering discussions regarding project agreements and project funding.
3. Presented Interim budget request and workplan at December 9, 2021 Management Committee. Interim budget approved; workplan approved with revisions.
3. Reviewed various Caltrain MOU examples for use in developing the project's MOU.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue to meet with the cities to establish roles and responsibilities that will be rolled into a four-party agreement.
2. Discuss with C&P to clarify procurement strategy.
3. Coordinate with Cities to submit formal funding request to the TA for PE/Environmental.
4. Continue to work with cities to agree to language for the MOU and legal review process.

**PROJECT NOTES**

1. Project milestones and budget will be updated based on project workplan approved at December 2021 Management Committee meeting in the next quarterly report.









**Whipple Avenue Grade Separation**

Project No. **100410**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Planning**

Quarter	Schedule	Budget	Funding
Current	G 	G 	G 
Previous	G 	G 	G 

The overarching schedule has been extended due to the complexity of alternatives being examined in combination with a potential four-track station and new development occurring in close proximity to the potential grade separations. COVID also required a more extensive and time-intensive public outreach strategy than initially envisioned. The schedule was adjusted as Redwood City requested and received additional funding from the TA to account for the considerations above as well as the need to perform additional outreach in equity priority communities. The JPB approved the additional budget at the October 2021 Board meeting and an amended MOU followed. The consultants work directive amendment was executed in November 2021 to reflect additional scope and budget. Work has commenced around targeted community outreach anticipated in the winter timeframe.

**PROJECT SCOPE Summary**

A potential grade separation at Whipple Avenue in Redwood City is proposed to improve safety and decrease expected future traffic delays due to growth in vehicle traffic, accommodate greater frequency of Caltrain service, and the eventual addition of high-speed rail service. Whipple Avenue is not the only at-grade crossing in Redwood City, however, and thus a potential grade separation at Whipple Avenue is being studied with potential grade separations at Brewster Avenue, Broadway, Maple Street, Main Street, and Chestnut Street. There is a high likelihood that multiple streets would be integrated into one grade separation project.

**PLANNING SCOPE Summary**

The Whipple Avenue Grade Separation Planning Study builds upon previously completed studies. The alternatives analysis and design work in this Study considers and incorporates where appropriate, design work done in the 2009 Footprint Study for the six at grade crossings mentioned above. The scope of work also focuses on alternatives for grade separation that accommodate a four track station to allow for transfers between Caltrain local and express trains, as well as for the future high-speed rail service, per the Long-Range 2040 Service Vision. Much consideration is also being given to multiple near-term development projects in close vicinity to the potential grade separations and station expansion as additional land adjacent to the Corridor is needed to ensure the viability of the future transit infrastructure projects. Given the complexity of the planning context in the vicinity of the potential grade separations, there may be multiple alternatives selected as preferred at the end of the Study, unless there is strong preference for just one.

Redwood City serves as the Project Sponsor for the Study, providing input on the alternatives and informing the Study in terms of new development in close proximity to the potential grade separations. City staff are the public face of the project, and help promote, facilitate and participate in public outreach efforts in coordination with the JPB. The JPB is the implementing agency and contracts with AECOM, the project consultant, to conduct the planning work and to prepare a project summary upon completion of the scope of work.

Project Manager: David Pape

Study Consultant: AECOM

Sponsors: City of Redwood City

Whipple Avenue Grade Separation

Project No. 100410

**Table 2. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Completion (A = Actual)	Variation (days)	Δ Prev Quarter
	(A)	(B)	(C=A-B)	(D)
Project Coordination	08/31/20	08/31/20	0	0
Set-Up Work Directive	09/15/18	09/15/18	0	0
Project Kick-Off/Mobilization	09/30/18	09/30/18	0	0
Data Collection	01/31/19	01/31/19	0	0
Review of Previous Studies	01/31/19	01/31/19	0	0
Alternative Development and Screening Criteria	02/28/22	02/28/22	0	0
Alternative Analysis and Recommendation	03/31/22	03/31/22	0	0
Draft Report Production	05/31/22	05/31/22	0	0
Final Report Production	06/30/22	06/30/22	0	0

**Table 3. PROJECT BUDGET, COST, and EAC (in thousands of \$)**

	Budget			Estimate at Completion (EAC)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)	(D)	(E=C-D)	(F=E/C)
<b>Totals</b>	<b>850</b>	<b>301</b>	<b>1,151</b>	<b>1,151</b>	<b>0</b>	<b>0%</b>

**Table 4. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding	Un-activated Amount
		Original	Changes	Current		
		(A)	(B)	(C=A+B)	(D)	(E=C-D)
San Mateo County TA	Local	750	301	1,051	1,051	0
City of Redwood City	Local	100	50	150	150	0
<b>Totals</b>		<b>850</b>	<b>351</b>	<b>1,201</b>	<b>1,201</b>	<b>0</b>

**Table 5. NOTABLE ISSUES (Top 5 in order of priority)**

ID – Issue Title	Responsibility Status	Action	Resolution Date
Difficult to obtain feedback from the communities around the southern at-grade crossings.	Jessica Manzi (Redwood City) ----- Redwood City requested and received additional funding from SMCTA for additional, more targeted outreach in these communities of concern.	The consultant scope of work and budget have been updated with additional outreach activities with JPB approval of the capital budget amendment in October.	TBD

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**Whipple Avenue Grade Separation**

Project No. **100410**

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**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Executed consultant's work directive amendment to reflect the additional scope & budget as approved by the SMCTA.
2. Continued outreach work with targeted community outreach scheduled for the winter timeframe.
3. Received capital budget amendment for the additional funding at the Oct 2021 JPB Board meeting.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue and conduct additional outreach work with targeted community outreach scheduled for the winter timeframe.

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**PROJECT NOTES**

Enterprise Asset Management (EAM) Software System

Project No. 100564

Table 1. Status Summary and Total Project Performance

Project Phase: **Planning**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	Y 	G 	G 
Previous	NA	NA	NA	NA

Progress (%)	Change Prev. Qtr.	EAC/Budget
NA	NA	97%

1. Establishing new direction for project activities delayed the schedule. Will require a re-baseline once a new plan is completed.

SCOPE Summary

This project is for the implementation of Caltrain’s Transit Asset Management (TAM) Program. Activities include asset data gathering and organization, and EAM software system implementation (requirement gathering, procurement, and deployment).

Project Manager: Aaron Lam  
 Principal Designer: TBD  
 Const. Contractor: TBD

Table 2. SAFETY INCIDENTS

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

Table 3. MILESTONE SCHEDULE

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	01/10/22	01/21/22	-11	0
Planning Complete	10/19/22	11/19/22	-31	0
Award Contract	07/19/23	08/19/23	-31	0
NTP	08/09/23	09/09/23	-31	0
Implementation Complete	10/19/25	11/19/25	-31	0
Project Finish	01/19/26	02/19/26	-31	0

Enterprise Asset Management (EAM) Software System

Project No. 100564

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION** (in thousands of \$)

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	1,660		1,660	1,660	0	0%
ROW/Utilities			0		0	
Construction	6,020		6,020	6,020	0	0%
CM & DSDC	297		297	297	0	0%
Administration	1,386		1,386	1,386	0	0%
Procurement	50		50	50	0	0%
Oper. Support	310		310	310	0	0%
<b>Subtotals</b>	<b>9,723</b>	<b>0</b>	<b>9,723</b>	<b>9,723</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA		<b>277</b>	100%
Unallocated Contingency	277		277	NA		
<b>Grand Totals</b>	<b>10,000</b>	<b>0</b>	<b>10,000</b>	<b>9,723</b>	<b>277</b>	<b>3%</b>

**Table 5. FUNDING** (in thousands of \$)

Fund Source	Type	Board Approved			Activated Funding (D)	Un-activated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SFCTA Prop K	Local	750		750	750	0
<b>Totals</b>		<b>750</b>	<b>0</b>	<b>750</b>	<b>750</b>	<b>0</b>

**Table 6. NOTABLE RISKS** (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood
None.				

**Table 7. NOTABLE ISSUES** (Top 5 in order of priority)

Issue Title	Responsibility Status	Action	Resolution Date
Establishing new direction for project activities will impact project schedule and project scope may be impacted.	Zouheir Farah ----- Per direction from Management, this project to be placed on hold and re-evaluated after GIS software system implementation.	Management to provide further direction pending GIS software system implementation.  Project Work Plan to be updated accordingly for review and approval by Management Committee.	TBD

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**Enterprise Asset Management (EAM) Software System**

Project No. **100564**

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**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Scope of Work for consultant services developed per Management Committee Project Work Plan.
2. Direction received from management to not circulate for internal review, and to regroup to establish new approach.

**NEXT KEY ACTIVITIES (top 5)**

1. Update Project Work Plan scope and approach per management direction.
2. Update Project Work Plan schedule and cost estimate accordingly.
3. Resubmit to Management Committee for approval of updated scope, approach, etc. (TBD).

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**PROJECT NOTES**





1. No expenses have been registered in PeopleSoft yet.

**Update and Upgrade GIS System**

Project No. **100565**

**Table 1. Status Summary and Total Project Performance**

Project Phase: **Planning**

Quarter	Safety	Schedule	Budget	Funding
Current	G 	Y 	G 	G 
Previous	NA	NA	NA	NA

Progress (%)	Change Prev. Qtr.	EAC/Budget
<b>NA</b>	NA	83%

1. Hiring process for a needed GIS Analyst III position is taking longer as additional approvals are required to provide a competitive offer to the selected candidate.
2. Updated project work plan approved at December 09, 2021 Management Committee meeting.

**SCOPE Summary**

This project will implement a Geographic Information Software (GIS) System which will centralize, modernize, map, integrate, and augment existing tools and resources. The goal is to deliver: comprehensive, current and accurate data about Caltrain’s assets and right-of-way to staff and decision makers at their desks or on their mobile devices via GIS.

Project activities include asset location data collection and GIS requirements evaluation, procurement, and implementation.

Project Manager: Aaron Lam  
 Principal Designer: TBD  
 Const. Contractor: TBD

**Table 2. SAFETY INCIDENTS**

Safety Incidents by type	This Quarter	Total to Date
Type I incidents	0	0
Type II Incidents	0	0

**Table 3. MILESTONE SCHEDULE**

Milestones	Baseline Completion	Est. or Actual Completion	Variation (days)	Change Prev. Quarter
	(A)	(B)	(C=A-B)	(D)
Project Start	01/10/22	02/10/22	-31	0
Planning Complete	06/30/22	07/31/22	-31	0
Award Contract	12/28/22	01/28/23	-31	0
NTP	01/12/23	02/12/23	-31	0
Implementation Complete	07/13/23	08/13/23	-31	0
Project Finish	10/10/23	11/10/23	-31	0

Update and Upgrade GIS System

Project No. 100565

**Table 4. PROJECT BUDGET / ESTIMATE AT COMPLETION (in thousands of \$)**

Type of Work	Budget			Estimate at Completion (D)	Variation	
	Original	Changes	Current		Amount	Percentage
	(A)	(B)	(C=A+B)		(E=C-D)	(F=E/C)
Engineering	149		149	149	0	0%
ROW/Utilities			0		0	
Construction	2,659		2,659	2,659	0	0%
CM & DSDC			0		0	
Administration	380		380	380	0	0%
Procurement	21		21	21	0	0%
Oper. Support	96		96	96	0	0%
<b>Subtotals</b>	<b>3,305</b>	<b>0</b>	<b>3,305</b>	<b>3,305</b>	<b>0</b>	<b>0%</b>
Unknown Risks	NA	NA	NA		<b>696</b>	100%
Unallocated Contingency	696		696	NA		
<b>Grand Totals</b>	<b>4,001</b>	<b>0</b>	<b>4,001</b>	<b>3,305</b>	<b>696</b>	<b>17%</b>

Estimate at Completion in this table applies only to scope that has approved budget.

**Table 5. FUNDING (in thousands of \$)**

Fund Source	Type	Board Approved			Activated Funding (D)	Unactivated Amount (E=C-D)
		Original	Changes	Current		
		(A)	(B)	(C=A+B)		
SAMTRNCCFP	Local	23		23	23	0
SFCTA Prop K	Local	477		477	477	0
<b>Totals</b>		<b>500</b>	<b>0</b>	<b>500</b>	<b>500</b>	<b>0</b>

**Table 6. NOTABLE RISKS (Top 5 in order of priority) (Budget Impact in thousands of \$, Schedule Impact in days)**

Risk Title	Responsibility Status	Mitigation	Impact Bud/Sched	Likelihood

**Table 7. NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Establishing new direction for work will impact project schedule.	Zouheir Farah  Management has provided direction to Project Manager that: (1) Scope of Work as outlined in the Project Work Plan is to be performed by an in-house GIS Analyst (currently being hired). (2) Implementation will require specific and focused data collection effort.	Project Manager to update Project Work Plan scope, methodology, and schedule accordingly for review and approval by Management Committee.	12/09/22



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**Update and Upgrade GIS System**Project No. **100565**

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**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Scope of Work for consultant services developed per Management Committee Project Work Plan.
2. Direction received from management to not circulate for internal review, and to regroup to establish new approach – hire in-house GIS expert to perform majority of work, supplemented by consulting and/or specialty services as needed for implementation.
3. Revised Project Work Plan approved by Management Committee at Dec 2021 meeting.
4. GIS Analyst III position recruitment in progress. First and second round interviews completed. Engineering selected the preferred candidate and HR began preparing a compensation package to offer the candidate.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue with GIS Analyst III hiring process.

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**PROJECT NOTES**

1. No expenses have been registered in PeopleSoft yet.

Projects in Planning/Environmental  
Projects with Informal Engagements Managed by Third Parties

**Middle Avenue Undercrossing**

Project No. **TBD**

**STATUS SUMMARY**

Coordinating with City and Caltrain Engineering and Capital Delivery departments to finalize a third party service agreement scope and budget, which will dictate Caltrain's technical review of project alternatives. Internal Caltrain Phase Gate process underway in preparation for presentation to January Management Committee.

**PROJECT SCOPE Summary**

The Middle Avenue Undercrossing (Project) is a proposed bicycle and pedestrian undercrossing that would improve safety and connectivity in the area around Middle Avenue in Menlo Park. The Project would serve a new Stanford development, which is adjacent to Middle Avenue, as well as middle school children in the area. Menlo Park is the Project sponsor.

**PLANNING SCOPE Summary**

This proposed capital project is in the conceptual design phase, with the City having selected a preferred design that has been advanced to 30% design. Planning, Capital Development and Delivery staff are coordinating with the City to finalize a third party service agreement to begin design concept review by Caltrain Engineering. Future coordination with the City will include the development of an RFP for 35 % design that would utilize the City’s consultant bench; and development of funding agreements documenting roles and responsibilities to guide the above activities as well as 35% design.

Project Manager: Dennis Kearney  
 Capital Development and Delivery Project Manager: Njomele Hong  
 Sponsors: City of Menlo Park

**NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
Design Exception	TBD ----- The City will be seeking a design exception for the distance between the underground structure and top of rail.	Staff need to walk the City through the process to obtain such a design exception. (The exception has been verbally approved.)	TBD
Right of Way	TBD ----- The City would like to place ramps and stairs on JPB property.	Staff need to discuss the impacts of such stair and ramp placement and explore if there are other more desirable options.	TBD

**Middle Avenue Undercrossing**Project No. **TBD****KEY ACTIVITIES - Current Reporting Month (top 5)**

1. Coordinated with internal staff to prepare and distribute 12/17/21 meeting agenda.
2. Facilitated 12/17/21 meeting with City regarding City's review of draft third party service agreement.
3. Drafted, distributed draft 12/17/21 meeting notes.
4. Revised draft third party service agreement based on outcomes of 12/17/21 meeting.
5. Coordinated with internal Caltrain staff regarding project's need for January 2022 Management Committee Meeting.

**NEXT KEY ACTIVITIES (top 5)**

1. Coordinate with City to finalize draft third party service agreement and budget.
2. Follow up with City on outcomes of 12/17/21 meeting and any action items.
3. Prepare for and present to January Management Committee.
4. Coordinate with City to execute third party service agreement implement ACH funds transfer to Caltrain.
5. Coordinate with City to determine schedule/timing for review and comment of design concepts.

**PROJECT NOTES**

**Bernardo Avenue Undercrossing**

Project No.

**TBD**

**STATUS SUMMARY**

Coordinating with the project sponsors and Caltrain Engineering and Capital Delivery departments to develop a third party service agreement scope and budget that will dictate Caltrain's technical review of project alternatives.

**PROJECT SCOPE Summary**

The Cities of Sunnyvale and Mountain View and VTA are project sponsors for a proposed new bicycle and pedestrian undercrossing of the Caltrain right-of-way (ROW) at Bernardo Avenue (Project), on the border of the two cities. The proposed undercrossing would provide key access across/under the ROW as well as Central Expressway.

**PLANNING SCOPE Summary**

This proposed capital project is in the initial stages of conceptual design, with multiple alternative designs currently in development and under consideration. Sunnyvale, Mountain View and VTA are seeking technical guidance from Caltrain staff after the JPB granted the Project a Use Variance under the Caltrain Rail Corridor Use Policy.

Project Manager: Dennis Kearney

Capital Development and Delivery Project Manager: Andy Kleiber

Sponsors: Cities of Sunnyvale and Mountain View, VTA

**NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
VTA Funding	Dennis Kearney VTA awarded the Project \$18m in construction funding, and thus the project must start expending Measure B design funding prior to July 2022.	Caltrain staff will coordinate with the sponsors to see if the funding timelines can be met or if the expenditure deadline can be extended.	TBD

**KEY ACTIVITIES - Current Reporting Quarter (top 5)**

1. Commenced review of the project alternatives by Caltrain Engineering.
2. Established timeline for concept alternatives review and comment.
3. Coordinated with Cities and VTA on project status and timeline.
4. Facilitated internal project information meeting with new Engineering staff.
5. Coordinated with Cities and VTA on project status and timeline.

**NEXT KEY ACTIVITIES (top 5)**

1. Commence review of the project alternatives.
2. Facilitate internal meeting with Planning and Engineering to discuss Caltrain comments on design concepts.
3. Prepare/distribute summary of comments by Caltrain Engineering team to cities.
4. Facilitate meeting with cities/VTA regarding Caltrain comments on design concepts.
5. Coordinate with cities regarding cities comment review and next steps.

**PROJECT NOTES**

None

**Mary Avenue Grade Separation**

Project No. **TBD**

**STATUS SUMMARY**

Planning, Engineering and Capital Delivery staff have been coordinating with the City of Sunnyvale to understand where they are in the grade separation planning process. The City has shared some conceptual alternatives for a grade separation at Mary Avenue as well as Sunnyvale Avenue. The City would like technical guidance from Caltrain staff so they can select preferred alternatives by winter 2021/22. A third party service agreement between the City and Caltrain was executed on December 8, 2021, which will lead to Caltrain taking on PE and Environmental for Mary Avenue - the City's priority grade separation project.

**PROJECT SCOPE Summary**

There are two at-grade crossings in the City of Sunnyvale - Mary Avenue and Sunnyvale Avenue. The City of Sunnyvale is prioritizing a potential grade separation at Mary Avenue, though they are interested in separating Sunnyvale Avenue as well. For the past couple years, the City has been investigating a number of conceptual alternatives for both crossings. The City would like to identify a preferred alternative for each crossing by winter 2021/22 and advance the Mary Avenue grade separation into PE and Environmental with Caltrain leading the effort.

**PLANNING SCOPE Summary**

The City of Sunnyvale is investigating two conceptual alternatives at Mary Avenue including an underpass with a jughandle and a full underpass. In the first option (underpass with a jughandle) Mary Avenue would be depressed with the railroad and Evelyn Avenue at grade. Bike lanes and a sidewalk would be constructed along the depressed Mary Avenue. In the second option (full underpass) Evelyn and Mary Avenues would be depressed with the railroad remaining at grade. Bike lanes and a sidewalk would be constructed along the depressed roadways. Sunnyvale is seeking technical guidance from Caltrain staff on the conceptual alternatives so they can select a preferred alternative by winter 2021/22.

Project Manager: Dennis Kearney  
 PC Specialist: Sher Ali  
 Capital Development and Delivery Project Manager: Andy Robbins  
 Sponsors: City of Sunnyvale

**NOTABLE ISSUES (Top 5 in order of priority)**

Issue Title	Responsibility Status	Action	Resolution Date
None			

**KEY ACTIVITIES - Current Reporting Month (top 5)**

1. JPB signed/executed third party service agreement with City of Sunnyvale.
2. Caltrain coordinated with sponsor regarding timing of draft Mary Avenue concepts.
3. Funds received from sponsor-project package sent to Finance.

**NEXT KEY ACTIVITIES (top 5)**

1. Continue coordination w/sponsor re: potential for Caltrain to take on PE and Environmental when planning phase complete.
2. Continue coordination with sponsor to discuss potential delivery strategies for project and project funding.
3. Coordinate with sponsor on any revised conceptual alternatives and/or schedule.

**PROJECT NOTES**

## Appendices

**Appendix A - Disadvantaged Business Enterprise (DBE)**

Disadvantaged Business Enterprise (DBE)

*To be updated*



**Appendix B - Project Performance Status Light Criteria**

Status Light	Event Trigger	Range & Limits	Light
<b>Budget</b> <sup>(1)</sup>	(a) CPI	CPI < 0.95	<b>Red</b>
		CPI >= 0.95 and < 0.98	<b>Yellow</b>
		CPI >= 0.98	<b>Green</b>
	(b) EAC greater than Approved Budget	10% or more; or \$2M or more	<b>Red</b>
		Up to 10% or less or up to \$2M or less	<b>Yellow</b>
		EAC <= budget	<b>Green</b>
<b>Schedule</b> <sup>(1)</sup>	(a) SPI	SPI < 0.95	<b>Red</b>
		SPI >= 0.95 and < 0.98	<b>Yellow</b>
		SPI >= 0.98	<b>Green</b>
	(b) Major Milestones delay (Forecasted vs. Baseline) <sup>(2)</sup>	Delay of 3 months or more	<b>Red</b>
		Delay between 1 day and 3 months	<b>Yellow</b>
		On time or early	<b>Green</b>
<b>Funding</b> <sup>(1)</sup>	EAC vs. Activated Funds	Activated Funds are less than EAC and cannot cover Projected Costs for next 6 months	<b>Red</b>
		Activated Funds are less than EAC but can cover Projected Costs at least the next 6 months	<b>Yellow</b>
		EAC Equal or less than Activated Funds	<b>Green</b>
<b>Safety</b>	Occurrence of one or more safety incidents during reporting period	One or more Type II incidents (injury of worker or passenger requiring a report to the Federal Railroad Administration); or two or more Type I incidents (Near Miss or incident requiring written report based on contract requirements)	<b>Red</b>
		One Type I incident (Near Miss or incident requiring written report based on contract requirements)	<b>Yellow</b>
		No incidents	<b>Green</b>

Notes:

1. For lights with more than one event trigger, the worst performing light will be shown.
2. Light color is based on the worst performing pending milestone (completed milestones are not considered).

## Appendix C - Definition of Terms

**Δ Prev**

Change from previous period.

**Accruals**

An estimated or known cost for the work performed, equipment, or materials received, through the current reporting period that hasn't been recorded in the financial system as expended.

**Activated Funding (in Funding)**

The portion of the total approved project funding that is available and ready to be expended. See Un-activated Amount and Board Approved.

**Allocated Contingency**

The portion of the project's contingency budget allocated to contracts or specific types of work. See Contingency and Unallocated Contingency.

**Baseline**

The currently approved plan that includes the project scope, budget and schedule. Performance indicators are calculated by comparing the current progress against the planned progress according to the baseline.

**Baseline Completion (in Milestone Schedule)**

The milestone planned date of completion in the currently assigned project baseline.

**Board Approved (in Funding)**

The funding approved by the Board for the completion of the project. It includes approved current and previous years capital budgets and capital budget amendments.

**Board Authorized (in Major Contracts)**

The budget amount approved by the Board of Directors for a particular contract. Includes contingency.

**Budget Changes (in Project Budget/Estimate at Completion)**

Changes to the original budget that have been approved by management through the change management process.

**Budget Original (in Project Budget/Estimate at Completion)**

The budget approved in the first or original project baseline.

**Committed**

The amount of authorized contracts, P.O.s, agreements, settlements, or other instruments that obligate the District to expend project funds.

**Completion (in Milestone Schedule)**

The current estimated or actual date of completion for a milestone.

**Contingency**

An estimated amount based on the uncertainty and risk to cover unforeseen events during the course of the project. See Unallocated and Allocated Contingency.

**Contract Change Orders (CCOs)**

Contract budget changes approved through the change management process.

**CPI (Cost Performance Index)**

A measure of the financial effectiveness and efficiency of a project. It represents the amount of completed work for every unit of cost spent. As a ratio it is calculated by dividing the budgeted cost of work completed, or Earned Value (EV), by the Actual Cost (AC) of the work performed.

**Current Contract Amount**

This is the original contract amount plus any approved Contract Change Orders (CCOs). The current contract amount is the approved obligation to the construction contractor. Does not include any contingency approved for the contract.

**EAC (Estimate at Completion)**

The estimated final cost of the project, or a particular type of work, based on actual expenses to date and estimated expenses of remaining work.

**EAC/Budget (in Status Summary)**

The percent of the Estimate at Completion covered by the current project budget.

**Earned Value (EV)**

The physical work accomplished in terms of the cost estimates for activities fully or partially completed at the end of a reporting period.

**Earned Value Progress (in Status Summary)**

The Earned Value of completed works expressed as a percentage of the project's current budget without contingency. See Earned Value.

**Executed CCOs (Executed Contract Change Orders)**

The portion of a contract's contingency budget used in executed (approved) Contract Change Orders.

**Executed Changes**

The portion of the project's contingency budget used in executed (approved) Change Orders. Includes Executed CCOs.

**Expended + Accruals**

The project or contract costs that have been recorded in the financial system plus the accrual cost for the work performed through the current period. See Accruals.

**High Likelihood Risks (in Contingency)**

Project risks that have a high likelihood to result in changes.

**In-Process CCOs (In-Process Contract Change Orders)**

Contract Change Orders pending approval.

**In-Process Changes**

Project Change Orders pending approval. Includes CCOs.

**Interfaces**

Refers to points of connection to other projects, programs, or other entities that if not managed may lead to conflicts and issues.

**Key Activities**

Lists activities performed in the current month and activities anticipated for next month.

**Milestone Schedule**

Lists the project's significant events or important achievements in the project lifecycle. It is considered a high level summary schedule for the project.

**Notable Issues**

Most important project issues that are currently affecting the objectives, scope, schedule, budget and/or the adequate funding of the project.

**Notable Risks**

Most important project risks that may impact the objectives, scope, schedule, budget and/or the adequate funding of the project.

**Phase**

Refers to the current project phase. For the Capital Program, the project phases are: Planning, Preliminary Design, Final Design, Procurement, Construction, Closing, Closed.

**Planned Value (PV)**

The estimated cost of work planned to be accomplished at a given period based on the project assigned baseline.

**Planned Value Progress (in Status Summary)**

The Planned Value of work that is expected to be completed this period, according to the baseline, expressed as a percentage of the project's current budget without contingency. See Planned Value.

**Potential and In-Process Changes**

Change Orders where impacts are being evaluated or determined, or Change Orders in process for approval. Includes Contract Change Orders.

**Resolution Date (in Notable Issues)**

The latest date an issue needs to be resolved before it begins to affect the objectives, scope, schedule, budget and/or the adequate funding of the project.

**Safety Incidents**

Reported safety incidents related to the execution of project work, that occurred during the reporting period.

**Scope Summary**

High level description of the objectives and principal deliverables of the project.

**SPI (Schedule Performance Index)**

A measure of the actual project progress compared to its planned progress at the closing of the current period based on the current assigned baseline. It is calculated by dividing the budgeted cost of work performed, or Earned Value (EV), by the budgeted cost of work planned, or Planned Value (PV) for the current period.

**Type I Incidents (in Safety)**

Near Miss or incident requiring written report based on contract requirements.

**Type II Incidents (in Safety)**

Injury of worker or passenger requiring a report to the Federal Railroad Administration.

**Type of Work**

Categories defined for classifying project costs.

**Un-activated Amount (in Funding)**

Portion of the Board Approved funding for the project that has not been Activated. See Activated Funding.

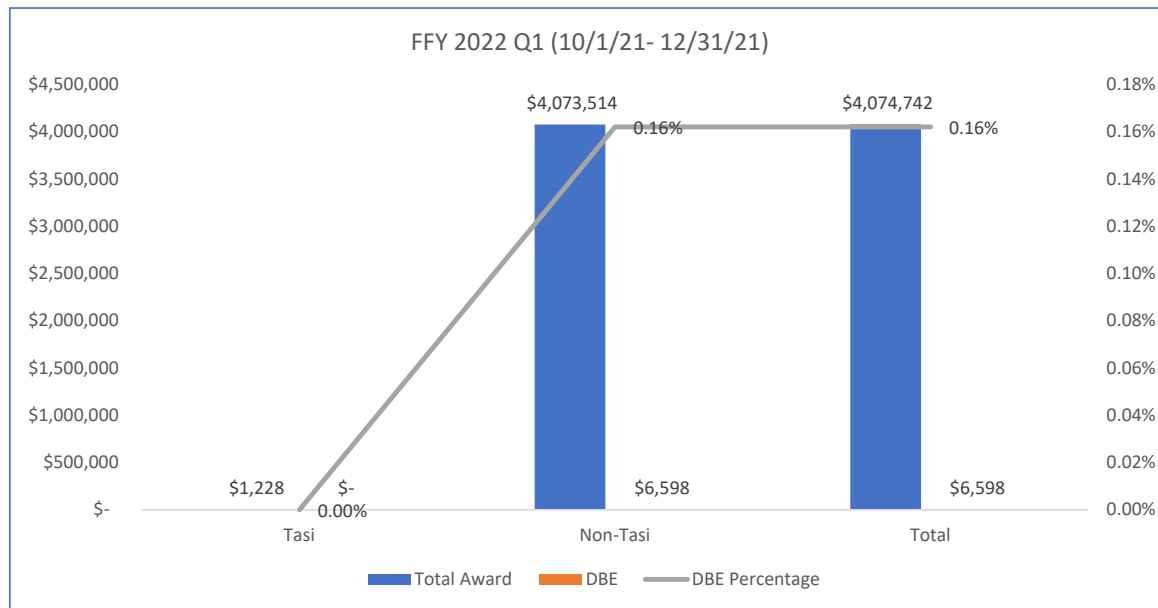
**Unallocated Contingency**

Portion of total project contingency budget not allocated to specific Type of Work or contracts. For Estimate At Completion (EAC), it refers to the portion of the Unallocated Contingency that is estimated to be used by the end of the project. In Risk Management this is referred to as "Unknown Unknowns".

**Appendix D - Capital Program Major Milestones by Project**

Capital Program Major Milestones by Project

# JPB Award



Note: The total DBE attained Year-to-date is \$0 for TASI and \$6,598 for Non-TASI projects for JPB.

















