# BART SILICON VALLEY PHASE II EXTENSION PROJECT SANTA CLARA VALLEY TRANSPORTATION AUTHORITY CITIES OF SAN JOSÉ AND SANTA CLARA, CA

# FTA Region IX

Status as of April 30, 2025

#### PROJECT MONITORING REPORT

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PMOC Contract Number: 69319524D000004 Task Order Number: 69319524F30152N

Project Number: 2

Project Type: New Starts

Project Phase: Project Delivery

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OP Nos. Referenced: 1, 25



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## 1. Executive Summary

## A. Project Description

Bay Area Rapid Transit (BART) Silicon Valley Phase II (BSVII) is an approximately 6.0-mile extension of the BART system from the existing terminus at the Berryessa / North San José BART Station through downtown San José to the proposed Santa Clara Station in the City of Santa Clara.

BSVII includes four stations (three located in San José and one in Santa Clara) along with a maintenance facility at Newhall Yard. The project's easternmost station, 28th Street/Little Portugal, will be located underground near Santa Clara Street and U.S. 101. Two stations, also underground, are planned for downtown San José: Downtown San José Station at Santa Clara Street near Market Street; and Diridon Station at the Diridon Intermodal Transit Center. The westernmost station in the City of Santa Clara is planned to be at-grade adjacent to the Santa Clara Caltrain Station. The Newhall Yard and Maintenance Facility is planned to be located at the end of the alignment directly adjacent to the Santa Clara Station. Forty-eight vehicles will be paid for with project funds but are included in the procurement for BART Federal Transit Administration (FTA) Core Capacity grant program fleet upgrades.

VTA's BART Silicon Valley Phase II Extension Project includes the construction of a tunnel that will be approximately five-miles long. Tunnel construction will begin south of the Santa Clara Station within Newhall Yard and run underneath I-880 and the Caltrain tracks. It will be launched from the West Portal. From there, the tunnel will continue southeast and cross under the western side of the Caltrain tracks at Emory Street and then continue under Stockton Avenue and curve east before reaching Diridon Station. From Diridon Station, the tunnel will continue under Santa Clara Street for approximately one mile to the future Downtown San José Station. It will then curve northeast near 27th Street and Santa Clara Street to the future 28th Street/Little Portugal Station. From there, the tunnel will continue northeast under US 101 to McKee Road where it will run parallel to the highway until it surfaces at the East Portal, near Las Plumas Avenue and Marburg Way.

The project is being designed and constructed by the Santa Clara Valley Transportation Authority (VTA), will be owned by VTA, and operated and maintained by BART. Service is planned to operate in the opening year from 4:00 AM to 1:00 AM on weekdays and from 6:00 AM to 1:00 AM on weekends, with trains every 7.5 minutes during the weekday peak period, every 7.5-15 minutes off-peak during the weekday, and every 20 minutes on evenings and weekends.

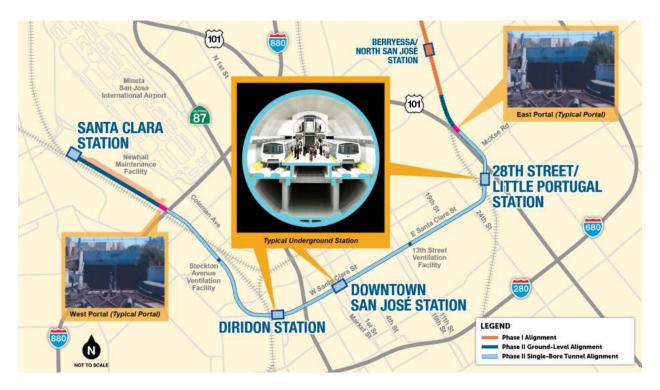


Figure 1– Proposed Alignment of the BSVII Extension

## **B.** Tunneling Construction

Construction of the subway tunnel is within the Tunnel and Trackwork contract (Contract Package 2). The tunnel will be built as a single, large-diameter tunnel, commonly called Single-Bore, and will contain two independent track ways, one for each direction of travel. The tunnel will be excavated by a Tunnel Boring Machine (TBM). The TBM is an electrically powered machine that removes soil, rocks, and debris to create the underground tunnel. It features a cutter-head, which rotates to dig through soil and rock. Excavated material is removed through a conveyor system within the machine. At the stations, mining techniques will be used to excavate the underground connections between the tunnel and stations (which contain the boarding platforms).

#### C. Project Status

BSVII is in the New Starts Project Development phase.

VTA selected the locally preferred alternative (LPA) in November 2001. The project originally entered the Capital Investment Grants (CIG) program Project Development phase in March 2016. The locally preferred alternative (LPA) was adopted into the Metropolitan Transportation Commission's financially constrained Long-Range Plan July 26, 2017.

VTA began pursuing FTA's Expedited Project Delivery (EPD) Pilot Program in early 2018. In April 2018, FTA agreed to extend CIG Project Development while VTA pursued funding through the EPD Pilot Program and stated the Project would be allowed to return to CIG Project Development without penalty should the EPD Pilot Program be determined to no longer be a

good fit. Per the National Environmental Policy Act of 1969 (NEPA), BSVII received a Record of Decision (ROD) from FTA on June 18, 2018. In April 2021, VTA submitted an EPD Pilot Program application to FTA. In October 2021, FTA issued a Letter of Intent (LOI) indicating it would obligate funds under the EPD Pilot Program on the condition that VTA demonstrate local funding commitment and readiness to receive a grant within two years.

In October 2022, VTA submitted a letter to FTA requesting the BSVII project be allowed to reenter the New Starts Project Development phase of the Capital Investment Grants (CIG) program and seeking a Letter of No Prejudice (LONP). On December 1, 2022, FTA agreed to move the project from the (EPD) Pilot Program back into the Project Development phase as a New Starts project. FTA also approved a LONP covering expenses VTA incurred when it started in New Starts Project Development in March 2016, through the Project's migration to the EPD Pilot Program, as well as for all remaining work on the project, thereby matching the pre-award authority VTA had been given while it was in the EPD Pilot Program for the 2022 New Starts Basis total project cost of \$9.318 Billion.

On October 11, 2023, VTA transmitted to FTA/PMOC the BSVII cost and schedule new baselines including a total project cost of \$12.237B and Revenue Service Date in October of 2036.

FTA/PMOC held a Risk Workshop with VTA on January 16-18, 2024. Risk review results advised an increase in costs to \$12.746B and a recommended RSD of February 2039 based on the use of 125% of the remaining critical path Stripped and Adjusted Base Schedule (SABS) duration.

VTA formally requested FTA's approval to enter Engineering Phase in a letter dated March 29, 2024, with a total project cost of \$12.746B in year-of-expenditure dollars and a Revenue Service Date (RSD) of February 2039. VTA requested \$6.296B (49.4 percent) in CIG program funds.

On August 1, 2024, FTA informed VTA of the approval of BSVII to enter the New Starts Engineering phase of the FTA CIG Program. Although VTA requested a 49.4 percent CIG share, FTA notified VTA that \$5.1B (40 percent) represents the maximum amount of CIG funds that will be provided by FTA for the Project should a Full Funding Grant Agreement (FFGA) be approved. The FTA approval to enter engineering letter is attached.

Since the FTA approval to enter engineering, BSVII staff have initiated a cost-saving effort to align the project with the funding available along with the pursuit of additional non-local funding sources. In late 2024, a BSVII Contracting Task Force was also established to evaluate various approaches to CP2 contract delivery including partial and full off-ramping of the current contractor KST, re-packaging of construction contracts to expedite schedule and reduce delays, and industry outreach. BSVII staff has provided updates to FTA, the BSVII Oversight Committee, and VTA Board of Directors including the latest BSVII Contracting Task Force timeline as shown in Figure 2.

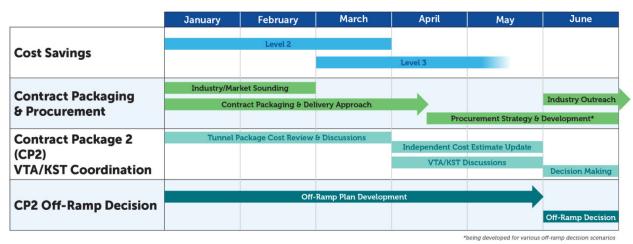


Figure 2–BSVII Contracting Task Force Timeline

The project implementation plan had previously been that BSVII would be delivered through four major design-build construction contract packages: Systems Construction Package 1 (CP1); Tunnel and Trackwork Construction Package 2 (CP2); Newhall Yard and Maintenance Facility and Santa Clara Station Construction Package 3 (CP3); and Underground Stations Construction Package 4 (CP4).

CP2 has progressed based on its original procurement. The VTA Board of Directors approved the award of the CP2 Progressive Design Build contract on May 5, 2022. CP2 Limited Notice to Proceed (LNTP) for a 90-day innovations phase was issued on June 9, 2022; NTP1 was issued for Programming Services on September 7, 2022; and NTP1A was issued for Stage 1 Design Professional Services on February 21, 2023. Early Works Packages are progressing through design, pricing, and negotiations to support the launch of the Tunnel Boring Machine (TBM) that was ordered on October 31, 2023.

All major packages other than CP2 were re-evaluated and subject of a Peer Review in November 2022. Since then, VTA has selected Design-Bid-Build delivery for all work previously identified as CP1 – Systems, CP3 – Newhall Yard, Santa Clara Station, and Parking Garage, and CP4 – Underground Stations.

VTA conducted an extensive all-day Value Engineering brainstorming workshop in partnership with the FTA and the PMOC on December 18, 2024. Many alternatives and cost savings measures were discussed and examined to reduce costs and bring the project in line with the available funding. All modifications are within the evaluated and approved FEIS/FEIR and would not require or trigger a new or supplemental FEIS/FEIR. The environmental revisions that may be required could be accomplished within a four-to-six-month time span. The objective of the value engineering brainstorming workshop was to explore cost savings to eliminate the current shortfall (\$700 million to \$1.2 billion). A draft Value Engineering brainstorming workshop report is being prepared to document the proceedings of the workshop.

VTA is in the process of evaluating the various alternatives considered at the value engineering workshop and also exploring approaches for contract delivery including partial and full off ramp for the CP2 Contract, re-packaging of the construction contracts with considerations of contract package sizes, procurement types, construction interfaces, and contracts biddability.

## D. Major Issues and/or Concerns

Below are PMOC's issues, concerns, and observations with VTA's updates:

- PMOC is concerned about the delay in executing the UPRR draft Mitigation and Reimbursement Agreement (formerly called the Final Engineering Cost Reimbursement Agreement) prior to the Support of Excavation Early Works at the West portal. The VTA sent its comments on the revised Mitigation and Reimbursement Agreement for the West Portal and anticipates the agreement to be executed in May 2025 upon the resolution of comments with UPRR.
- PMOC is concerned that the order of magnitude cost saving ideas VTA is considering is not adequate to address the BSVII program funding gap, which could further delay application for the FFGA. The VTA is including tunnel configuration and Sequential Excavation Method construction ideas for stations from the VE workshop in Level 3 of the cost savings process.
- PMOC is concerned with the potential of CP2 off-ramp requiring new procurement with insufficient bidding competition with impacts on CP2 contract scope, increased interface risk, design completion delays, construction escalation costs, etc. The VTA continues to negotiate with KST. The VTA is also exploring off-ramp steps, including reaching out to the industry for recommendations on off-ramping, contract packaging, project delivery, procurement, etc.
- PMOC is concerned with the continuous high level burn rate for Professional Services fees while the construction activities are limited to West Portal, design is paused, and there is limited progress in the cost savings efforts.
- PMOC is concerned that the VTA is continuing to take more time to refine the cost savings estimates from the identified design options and this extra time may result in losing any savings due to potential inflationary and market condition increases in the overall project costs.

Table 1 Core Accountability Items

			(EPD Letter Star		'A New ts Basis ot 2022)	New Baseline Ne Starts – Entry t Engineering (Oct 2023)		
Cost	Capital Co	st Estimate	\$9.148B	\$9	.318B	\$12.237B	\$12.746B	
Contingency	Allocated a Unallocate Contingen	d	\$2.653B	\$1.729B		\$2.878B	\$3.119B <sup>1</sup>	
Schedule	Revenue S	ervice Date	June 21, 2034	Marc	h 1, 2033	October 22, 203	6 February 28, 2039 <sup>2</sup>	
	Pro	oject Progress			An	nount (\$M)	Percent of Total	
Total Expendit	tures	Actual cost of expenditures	f all eligible completed to date <sup>3</sup>	3		\$1,424	11.20%	
Planned Value	to Date	Estimated val	lue of work planne	d to	N/A		N/A	
Actual Value to	Actual Value to Date Actual value			of work completed to		N/A	N/A	
	Co	ontract Status			An	nount (\$M)	Percent	
Total Contracts  Value of all c support, cons			contracts (design, struction, equipment) of total value to be		\$2,068		N/A	
Construction Contracts		Value of construction contracts awarded: % of total construction value to be awarded			0		0	
Completed		(infrastructur	of physical construction ructure) completed: % of total action value completed		0		0	
Rolling Stock Status	Vehicle	D	ate Awarded		No. Ordered		No. Delivered	
Heavy Rail Ve	hicles		May 2024		48	(planned)	0	

<sup>&</sup>lt;sup>1</sup> Includes \$1.657B of Unallocated Contingency.

<sup>2</sup> Recommended Revenue Service Date of February 28, 2039, based on the use of 125% of the remaining critical path Stripped and Adjusted Base Schedule (SABS) duration.

<sup>3</sup> Includes standard cost categories (SCC) 10, 40, 60, 70 and 80 expenditures in Project Development, reported through March 31, 2025, based on accruals.

## 2. PMOC Observations and Findings

# A. Summary of Monitoring Activities

The PMOC oversight commenced in July 2020. PMOC has since received documents and coordinated with VTA via email and telephone conversations. *This report covers project status, and documents received through April 30, 2025, including the March 2025 monthly progress report received May 1, 2025. The monthly PMOC oversight call was conducted on May 8, 2025.* 

VTA submitted their Expedited Project Delivery (EPD) Pilot Program application on April 7, 2021, and FTA/PMOC Risk Workshops were held on May 10-12, 2021. FTA selected the Bay Area Rapid Transit (BART) Silicon Valley Phase II (BSVII) project to advance in the EPD Pilot Program in September 2021 and on October 25, 2021, FTA issued a Letter of Intent (LOI) to obligate funds for BSVII contingent upon VTA meeting specified conditions by October 25, 2023.

In October 2022, VTA submitted a letter to FTA requesting the BSVII project be allowed to re-enter the New Starts Project Development phase of the Capital Investment Grants (CIG) program and seeking a Letter of No Prejudice (LONP). On December 1, 2022, FTA agreed to move the project from the EPD Pilot Program back into the Project Development phase as a New Starts project. FTA also approved a LONP allowing the extension of pre-award authority to the activities that are not allowed under Project Development phase of the New Starts (NS) CIG program, activities such as long lead procurement and construction.

On October 11, 2023, VTA transmitted to FTA/PMOC the BSVII cost and schedule new baselines including a total project budget of \$12.237B and Revenue Service Date (RSD) in October of 2036.

FTA/PMOC held a Risk Workshop with VTA on January 16-18, 2024. Risk review results advised an increase in costs to \$12.746B and a recommended RSD of February 2039.VTA adopted the results of January 2024 risk review and formally requested FTA's approval to enter Engineering Phase in a letter dated March 29, 2024, with a total project cost of \$12.746B in year-of-expenditure dollars and a Revenue Service Date (RSD) of February 2039. VTA requested \$6.296B (49.4 percent) in CIG program funds.

On August 1, 2024, FTA informed VTA of the approval of BSVII to enter the New Starts Engineering phase of the FTA CIG Program. Although VTA requested a 49.4 percent CIG share, FTA notified VTA that \$5.1B (40 percent) represents the maximum amount of CIG funds that will be provided by FTA for the Project should a Full Funding Grant Agreement (FFGA) be approved.

On December 18, 2024, BSVII staff, FTA and the PMOC held an all-day informal Value Engineering (VE) brainstorming workshop to review cost saving ideas along with discussion on environmental, technical and stakeholder considerations. The PMOC presented and brainstormed with FTA and VTA cost savings ideas and concepts related to tunnel diameter optimization. The

following are the cost savings candidates that VTA reported at the December 18, 2024, VE workshop:

- a. Tunnel interior reconfiguration;
- b. Concurrent Tunneling from the East;
- c. Newhall Yard reconfiguration;
- d. Criteria / Requirements variances;
- e. Refining station design; and
- f. Conversion of station parking structure to surface.

In late 2024, a BSVII Contracting Task Force was established to evaluate various approaches to CP2 contract delivery including partial and full off-ramp, re-packaging of construction contracts to expedite schedule and reduce delays, and industry outreach. A comprehensive risk assessment will be conducted after those options have been evaluated and a path forward determined.

## B. Project Management Plan (PMP) and Sub-Plans

The following PMP and Sub-Plan documents include documents that were reviewed by the PMOC for BSVII program EPD readiness:

Document Title	Revision		
Document True	No.	Dated	
Project Management Plan (PMP)	0.C	April 9, 2021	
Management Capacity and Capability Plan (MCCP)	0.E	April 16, 2021	
Risk and Contingency Management Plan (RCMP)	0.C	April 16, 2021	
Quality Management Plan (QMP)	0.D	April 19, 2021	
Real Estate Acquisition Management Plan (RAMP)	0.B	September 30, 2020	
Safety and Security Management Plan (SSMP)	0.B	April 20, 2021	
BART Rail Fleet Management Plan (RFMP) FY2020 to FY2036	D	September 2019	
Third Party Agreement Management Plan	0.C	April 18, 2021	
Project Delivery and Procurement Plan	0.F	April 16, 2021	
Project Implementation Plan	С	September 30, 2020	

On December 1, 2022, FTA agreed to allow the BSVII program to re-enter the New Starts Project Development phase of the Capital Investment Grants (CIG) program. Around the same time as the change in federal funding source and the update of the project budget, VTA also re-evaluated the project delivery scheme. Looking ahead to the New Starts Entry to Engineering request, VTA submitted 39 documents on May 26, 2023, including the following updates to the PMP and sub-Plans to FTA to be reviewed by the PMOC:

Document Title	Revision		
Document True	No.	Dated	
Project Management Plan (PMP)	1	May 1, 2023	
Management Capacity and Capability Plan (MCCP)	1.A	May 1, 2023	
Risk and Contingency Management Plan (RCMP)	0.D	May 22, 2023	
Quality Management Plan (QMP)	2	May 1, 2023	
Real Estate Acquisition Management Plan (RAMP)	0.C	May 1, 2023	
Safety and Security Management Plan (SSMP)	0.C	May 1, 2023	
BART Rail Fleet Management Plan (RFMP) FY2020 to FY2034	F	February 2023	
Third Party Agreement Management Plan	1	May 1, 2023	
Project Delivery and Procurement Plan	0.G	May 1, 2023	
VTA Bus Fleet Management Plan	1	May 2023	
VTA LRT Fleet Management Plan	1	April 2023	

PMOC recommendations and comments from the EPD readiness review as related to OP20, OP22, OP23, and OP24 were provided to VTA informally to help VTA prepare for the submissions needed for Entry to Engineering readiness. PMOC reviewed the new submissions in support of the Entry to Engineering risk assessment and readiness review and provided preliminary summary comments about inconsistencies and incomplete elements to VTA on June 27, 2023.

VTA submitted 37 documents in November 2023 and 11 additional documents in December 2023, including the following updates to the PMP sub-Plans to FTA:

Document Title		Revision
Document True	No.	Dated
Project Management Plan (PMP)	2	December 15, 2023
Management Capacity and Capability Plan (MCCP)	2	December 15, 2023
Risk and Contingency Management Plan (RCMP)	В	September 14, 2023
Safety and Security Management Plan (SSMP)	0.D	December 8, 2023
Real Estate Acquisition Management Plan (RAMP)	0.C	December 8, 2023
Quality Management Plan (QMP)	2	November 1, 2023
VTA 2023 Bus Fleet Management Plan (BFMP)	1.0	November 2023
VTA 2023 Light Rail Fleet Management Plan (LRFMP)	1.0	April 2023
BART Rail Fleet Management Plan	F	February 2023

Document Title		Revision
Bocument Title	No. Dated	
Third-Party Agreement Management Plan	1.0	November 1, 2023
Project Delivery and Procurement Plan	0.G	November 1, 2023

PMOC reviewed the submissions from November 2023 and December 2023 and provided input to PMOC's risk assessment and Oversight Procedure (OP) 51 Readiness to Enter Engineering review. PMOC's OP51 report will be one input to FTA's determination regarding Santa Clara Valley Transportation Authority's (VTA's) Capital Investment Grants (CIG) Program application. On March 29, 2024, along with the application to enter the New Starts Engineering Phase, VTA submitted revised PMPs and sub-Plans. The PMOC current assessment of the PMP and sub-Plans is based on the PMP and Sub-Plans submissions from November 2023 and December 2023 and only includes significant changes from the revised PMPs and sub-Plans that were submitted on March 29, 2024.

On July 2, 2024, FTA transmitted to VTA the final PMP and sub-Plans PMOC review reports. Over-the-shoulder review sessions with VTA PMOC and FTA were held in July to clarify and review VTA's responses to FTA/PMOC comments on PMP and sub-plans. VTA submitted responses to FTA/PMOC comments on PMP and Sub-plan on July 31, 2024.

At the May 8, 2025, monthly meeting, VTA did not provide an update to the following PMP and sub-plans status, the last update was provided at the September 12, 2024, monthly meeting:

- PMP and sub-plans have been updated to reflect Q3 2024.
- All previous FTA/PMOC comments on PMP and sub-plans comments have been addressed; and
- Additional updates to the PMP and sub-plans will be made prior to FFGA Readiness submittal.

## C. Management Capacity and Capability

Refer to Section B above for revision and submittal status of the Management Capacity and Capability Plan (MCCP) and other PMP Subplans to support VTA's New Starts request to enter engineering.

VTA has several professional services contracts awarded by which consultants have been supporting VTA in the project development phase. VTA consultants are managed under the HNTB/WSP joint venture Project Management Team (PMT), the Mott MacDonald / PGH Wong Engineering JV (MMW) joint venture General Engineering Consultant (GEC) and the Bechtel Infrastructure Corporation Construction Management Services (CMS). The PMT, the GEC, and the CMS include professional resources providing program management and multiple specialized engineering and construction management services.

In consultation with the FTA Staff, the PMOC assessed BSVII Management Capacity and Capability by conducting interviews of key BSVII staff on January 9, 2024, August 27 and 29, 2024, and October 17, 2024. The PMOC reviewed resumes of key BSVII staff and prepared interview questionnaires that were tailored specifically for the BSVII project needs and requirements. The experience requirement was divided into three categories: sufficient experience (5-7 years), considerable experience (7-12 years), and significant experience (12-20+years). It was suggested that to meet the MCC requirements, VTA consider introducing additional resources that would strengthen the capabilities for several positions where the requirements are not fully met.

At the May 8, 2025, monthly meeting, VTA presented the BSVII Organization Chart as shown in Figure 3.

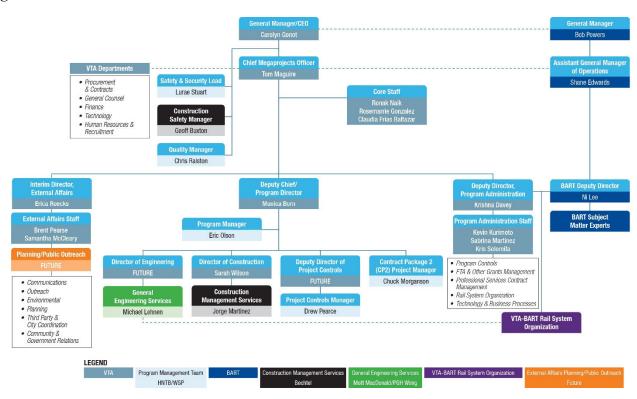


Figure 3– BSVII Organization Chart

- Reporting to the Deputy Chief / Program Director:
  - The addition of a future Director of Engineering to be staffed by a VTA employee. The
     General Engineering Services will report directly to the future Director of Engineering.
  - The addition of a future Deputy Director of Program Controls to be staffed by a VTA employee. The Project Controls Manager will report directly to the future Director of Program Controls.
  - PMOC requested that VTA provide the job postings for the future Director of Engineering and future Deputy Director of Program Controls prior to hiring.
- Request for Proposal (RFP) for Program Management

- The RFP was issued on 9/24/24.
- o The current Program Management contract was extended until October 31, 2025.
- The pre-proposal conference was held on 10/8/24.
- o Proposals were received by February 19, 2025, due date.
- o Interviews are planned for mid-May 2025.
- Expect award in the Fall 2025.

## D. National Environmental Policy Act (NEPA) Process and Environmental Mitigation

Since FTA issued the ROD in 2018, VTA has closely coordinated with FTA to determine when and if additional analysis was needed to maintain compliance with NEPA. FTA determined that a NEPA Re-evaluation was required for project changes at the EPD stage and again for project changes introduced by the Progressive Design Builder Innovations and Value Engineering initiatives adopted for the Entry to Engineering design. Both Re-evaluations confirmed the conclusions in the 2018 ROD are still valid. FTA approved the Re-evaluation associated with the Entry to Engineering preliminary design baseline in March of 2024. BSVII project staff converted the Mitigation Monitoring and Reporting Program (MMRP) from the ROD into a new format for tracking called the Environmental Commitments Record (ECR). Applicable environmental mitigation requirements were integrated into each of the contract packages via the ECR and the Design Requirements and Best Management Practices matrix.

At the May 8, 2025, monthly meeting, VTA provided the following NEPA / Environmental Mitigations Status updates:

- 1st Quarter 2025 ECR is being finalized;
- Supporting the cost savings measures;
- Reviewing submittals for conformance with environmental requirements; and
- Efforts for the Archaeological Testing Program are ongoing.

## E. Project Delivery Method and Procurement.

VTA's plan for project delivery has evolved over recent years. VTA developed a Project Delivery and Procurement Plan (Revision 0.F dated April 16, 2021) which referenced the Project Implementation Plan. Those documents reflected the BSVII project baseline contracting plan which consisted of four distinct Design-Build contract packages for Systems (CP1), Tunnel and Trackwork (CP2), Newhall Yard and Santa Clara Station (CP3), and Underground Stations (CP4).

In November 2022, VTA held the Contract Packaging and Delivery Peer Review to receive feedback on the delivery approaches to be used for all contract packages other than CP2 (Tunnel and Trackwork). The RFPs for CP1 (Systems) and CP3 (Newhall Yard and Santa Clara Station) were cancelled pending reevaluation of contract packaging and delivery methods.

On March 2, 2023, VTA transmitted to FTA and the PMOC the "Contract Packaging and Project Delivery Draft Report" dated February 28, 2023. Taking the Contract Packaging and Project

Delivery Peer Review panel feedback into account, VTA concluded that Design Bid Build will be used to procure the Systems (CP1), Newhall Yard and Santa Clara Station (CP3), and Underground Stations (CP4).

Package Number	Construction Contract Package Name	2022 Delivery Method	2023 Delivery Method
CP1	Systems	Design Build	Design-Bid-Build
CP2	Tunnel and Trackwork	Progressive Design Build	Progressive Design Build
CP3	Newhall Yard, Santa Clara Station, and Parking Garage	Design Build	Design-Bid-Build
CP4	Underground Stations	Design Build	Design-Bid-Build

Between fall 2020 and 2022, VTA initiated a three-step procurement process for the BSVII contract packages, including Requests for Industry Feedback (RFIF), Requests for Qualifications (RFQ), and Requests for Proposals (RFP). Historic data documenting dates for select procurement activities are reported in the following table for the four contract packages included in baseline contracting plan.

M	lastonas	Contract Packages								
Milestones		CP1	CP2	CP3	CP4					
Request for Qualifications	RFQ Release	2/26/21	12/29/20	9/13/21	6/29/21					
	SOQ Response	5/18/21	3/19/21	11/30/21	9/23/21					
	Shortlist	6/30/21	5/11/21	2/3/22	RFQ was cancelled 3/1/2022					
	Pre-Final	4/15/22	7/19/21	5/20/22						
Request for Proposals	Final	RFP was cancelled 12/31/2022	9/24/21	RFP was cancelled 12/31/2022						
Re	RFP Response		12/10/21							

Requests For Qualifications were issued for all 4 packages. The RFQ of CP4 (Stations) was cancelled on March 1, 2022. The Statements of Qualifications (SOQs) for CP1 (Systems), CP2 (Tunnel and Trackwork), and CP3 (Newhall Yard and Santa Clara Station) were evaluated and resulted in the following:

• CP1 (Systems) – 2 Prime contractors being shortlisted.

- CP2 (Tunnel and Trackwork) 3 Prime contractors being shortlisted.
- CP3 (Newhall Yard and Santa Clara Station) 3 Prime contractors being shortlisted.

The Final Tunnel and Trackwork (CP2) RFP was released on September 24, 2021, with the final addendum to this RFP released November 24, 2021. BART Silicon Valley Phase II Tunnel Partners (B2TP) and Kiewit Shea Traylor (KST) Joint Venture submitted proposals on December 10, 2021. VTA completed negotiations with the highest ranked team and issued a Notice of Recommended Award to KST. The Contract award was approved by the VTA Board of Directors on May 5, 2022. Limited Notice to Proceed (NTP) was issued June 9, 2022, NTP1 was issued for Programming Services on September 7, 2022, and subsequently increased the lump sum not to exceed with Letter #12, dated November 10, 2022, authorizing KST to proceed with Early Works Packages design and estimating. VTA issued KST NTP1A for Stage 1 Design Professional Services on February 21, 2023. Amendment #1, valued at \$144M was executed in October 2023 for the Tunnel Boring Machine Purchase Order.

The Construction Management Services (CMS) Request for Proposal (RFP) was released on September 25, 2023. VTA Board authorized the award of the CMS contract to Bechtel Infrastructure Corporation on April 4, 2024. The CMS contract was executed on April 11, 2024. The scope of the CM Services contract is for the first ten years of the project.

In response to a request from the VTA Board of Directors, VTA established a BSVII Contracting Task Force in late 2024 to evaluate the various approaches for contract delivery including partial and full off ramp for the CP2 Contract, re-packaging of the construction contracts with considerations of contract package sizes, procurement types, construction interfaces, and contracts biddability.

At the May 8, 2025, monthly meeting, the VTA did not provide a Project Delivery Method and Procurement status from the April 10, 2025, monthly meeting

- Contract Package 1 (CP1) Systems
  - o The current delivery method is Design-Bid-Build.
  - o 60% design complete and comments assembled; Comment Resolution Meetings in progress; focus on cost savings.
- Contract Package 2 (CP2) Tunnel & Trackwork Progressive Design-Build, Contract V20221
  - o Contract executed 5/5/2022 and in Stage 1 (Preconstruction Services).
  - 85% design is in progress for all designs except tunnel (D10) progressing from 85% to 100%.
  - o Contract amendments 1 through 8 were executed.
  - o Stage 2 Notice To Proceed: TBD
- Contract Package 3 (CP3) Newhall Yard and Santa Clara station
  - o The current delivery method is Design-Bid-Build.
  - o 60% design complete and comments assembled; Comment Resolution Meetings in progress; focus on cost savings.
- Contract Package 4 (CP4) Underground Stations
  - o The current delivery method is Design-Bid-Build.

o 60% design complete and comments assembled; Comment Resolution Meetings in progress; focus on cost savings.

At the May 8, 2025, monthly meeting, BART staff provided the following Railcar Procurement Update:

- Procurement of 48 vehicles for BSVII.
- This is in addition to the 60 vehicles for the Silicon Valley Berryessa Extension (SVBX).
- 938 Fleet of The Future (FOTF) railcars delivered to BART.
- Alstom will begin delivering 48 vehicles for BSVII in 2025.

At the May 8, 2025, monthly meeting, VTA provided the following BSVII Contracting Task Force status update:

- A Task Force has been established to evaluate various approaches for contract delivery including partial and full off-ramp of CP2, re-packaging of construction contracts, and industry outreach.
  - o Includes VTA General Counsel Office, BSVII Project Staff, VTA Procurement Department, and Oversight Committee Subject Matter Expert Gall Zeidler;
  - Primary efforts include discussions on CP2 partial or full off-ramp, contract packaging & procurement approach;
  - o Internal workshops conducted on topics including design level, engineer of record, contract package size, biddability, and delivery methods;
  - Recommendations from Task Force are anticipated to be presented to the VTA Board in June 2025.
  - At the May 8, 2025 monthly meeting, PMOC requested VTA set up a meeting with FTA and PMOC to discuss preliminary recommendations of the BSVII Contracting Task Force prior to the presentation to the VTA Board in June 2025.

At the May 8, 2025, monthly meeting, VTA did not provide any update to the following March 13, 2025, Industry and Market Sounding status update:

- The purpose is to seek Contractor/Industry confidence to build BSVII within budget;
- BSVII staff conducted industry outreach at two major tunnel and construction conferences in New York and Los Angeles in January 2025;
- Follow-up meetings were held with 8 heavy civil and tunnel construction firms in February 2025. Discussions included BSVII project and considerations for:
  - Contract package scope and size;
  - o Contract delivery model;
  - o Risk sharing opportunities; and
  - o Commercial terms and conditions.

#### F. Design

#### **CP2 Tunnel and Trackwork**

At the May 8, 2025, monthly meeting, VTA did not report any update to the Advance Partial Design Units (APDU) status presented at the February 20, 2025, monthly meeting:

• APDU 2 Pre-Cast tunnel liner 100% complete design – In VTA review.

- APDU 3C West Portal U-Wall Support of Excavation (SOE) Rev. 2 Approved for Construction (AFC) complete Approved by VTA Board 12/5/2024.
- APDU 3D West Portal Caterpillar SOE Final Design Rev. 2–AFC complete Approved by VTA Board 12/5/2024.
- APDU 3E West Portal Ground Improvement Design Rev. 2 AFC complete Approved by VTA Board 12/5/2024.
- APDU 5A Downtown San Jose Station (DTSJ) Enabling Work (Civil & Maintenance of Traffic (MOT)) 100% Rev. 1 design in VTA/Stakeholder review.
- APDU 8B East Portal Enabling Works Over the Shoulder (OTS) review of 85% complete, comment resolution in progress.
- APDU 11B West portal Temporary Power High Voltage Substation 85% design review complete, VTA/Stakeholder review in progress.
- APDU 12A Diridon Station Enabling Works and Utilities APDU 12A Rev. 1 pending.
- APDU 14 28th Street Station Enabling Works APDU 14 Rev. 1 pending.
- APDU 20 Track and Tunnel Alignment– Comment resolution on 100% complete.

At the May 8, 2025, monthly meeting, VTA did not report any update to the following KST Design statuses presented at the March 13, 2025, monthly meeting:

- D05 Program-wide Specifications 85% review complete, resubmittal required.
- D10 Bored Tunnel Design KST is advancing 100% design. Addressing and responding to VTA 85% comments.
- D15 Tunnel Internal Structures 85% design review complete, VTA is reviewing KST comment responses, KST design paused to evaluate optimizations.
- D20 Track and Tunnel 85% design review complete, VTA is reviewing KST comment responses, KST design paused to evaluate optimizations.
- D25 Diridon Station Design KST 85% design paused to evaluate optimizations.
- D30 Downtown San José Station KST 85% design paused to evaluate optimizations.
- D35 28<sup>th</sup> Street / Little Portugal Station KST 85% design paused to evaluate optimizations.
- D40 East Portal Design 85% design review complete, VTA is reviewing KST comment responses.
- D45 West Portal Design KST 85% design paused to evaluate optimizations.

#### Program-wide, Facilities and Systems Engineering

At the May 8, 2025, monthly meeting, VTA did not provide any update to the following April 10, 2025, Program-wide design statuses:

- Conducting technical working group meetings with BART stakeholders relating to the proposed Requests for Variances (RFV)s. Processing DocuSign of RFVs;
- Developing design concepts and evaluating cost/schedule impacts associated with Level 2 and Level 3 proposals; and
- Producing executive summaries that memorialize the technical, cost and schedule assessment for each of the level 2 proposals.

## G. Value Engineering and Constructability Reviews

VTA conducted a Value Engineering (VE) workshop in 2021 based upon the 10% design (submitted December 2019) which consisted of a revised design of a 53-foot diameter single bore tunnel with center platform stations with the addition of station mezzanines for platform access. The VE workshop was facilitated by a third-party consultant and the resulting report remains in draft status. The workshop was "a shortened version of a formal Value Engineering Study" required by FTA for Capital Investment Grants (CIG) projects. However, several of the recommended VE elements were applicable and incorporated into the EPD configuration. Stage 1 initial innovations vetting, as well as iterative design and cost estimating exercises, will accomplish further value engineering under the CP2 PDB procurement.

The DRAFT Constructability Review Report was written in August 2020 addressing biddability and buildability of the EPD configuration.

A three-day facilitated Value Engineering (VE) workshop was held the week of June 19, 2023, and the Value Engineering Workshop Report was submitted to FTA/PMOC, documenting VE efforts from June 2023 through September 2023.

Constructability reviews were held on July 20 and 21, 2023. and the Draft Constructability Review Report was submitted to FTA/PMOC in December 2023.

To address the BSVII program funding gap and to allow adequate cost and schedule contingencies, VTA is evaluating cost savings candidates. On December 18, 2024, the FTA/PMOC and the VTA held an all-day informal Value Engineering workshop to review cost saving ideas along with a discussion on environmental, technical and stakeholder considerations. The participants conducted brainstorming sessions and discussed several cost savings ideas.

At the May 8, 2025, monthly meeting, VTA provided the following cost savings progress update:

Level	Cost Savings Advancing	Cost Savings (ROM) (as of 2/3/2025) 12
1	Criteria / Requirements variances <sup>3</sup>	\$187M
1	Refine Station Design	\$68M
1	Conversion of 28th Street station parking structure to surface	\$77M
1	Owner Supplied Materials	\$20M
2	Newhall Yard Facility / Santa Clara Station	>\$40M
2	Tunnel Interior Reconfiguration	TBD
2	Various Alternative Structural Concepts	<\$5M
2	Muck off-haul options	<\$10M to TBD
3	Muck off-haul: Disposal Site with Credit for Tipping Fees	
3	Use Cut & Cover Construction for Adits at Downtown and Diridon Stations	
Various	Tunnel and Station Construction Means / Methods from the FTA/PMOC Dec. 1 Workshop	8, 2024, Value Engineering
3	Shifting station / alignment to off-street vs. Cut & Cover at Diridon Station	
3	Grout improvements / surface grouting and utility relocation	

3	Jet grouting for SEM to avoid cut and cover (Downtown Station)						
3	Cut and cover compared with station / alignment to off-street (28th Street &						
	Diridon) and SEM vs cut and cover (Downtown)						
3	Smaller (30 to 40 feet) diameter single bore tunnel to 13th Street vs additional cut						
	and cover; moving fans from 28th Street to 13th Street						
3	Reviewing the viability of SEM (and ground water containment) while mitigating						
	impacts to surface streets						
3	Concurrent tunneling from east with smaller single bore in conjunction with the						
3	entire alignment as smaller single bore						
3	Twin-Bore with open cut 28th Street / Little Portugal Station, Sequential						
	Excavation Method (SEM) Downtown and Diridon Stations						
	Smaller (30 to 40 feet) diameter single bore tunnel with open cut 28th Street /						
3	Little Portugal Station, off street open cut Diridon Station, and Sequential						
	Excavation Method (SEM) Downtown Station						
	Smaller (30 to 40 feet) diameter single bore tunnel with open cut 28th Street /						
3	Little Portugal Station, Sequential Excavation Method (SEM) Downtown and						
	Diridon Stations						

<sup>&</sup>lt;sup>1</sup> Draft ROM costs in YOE dollars based on conceptual designs and subject to change

At the April 10, 2025, monthly meeting, PMOC suggested to VTA that inflationary cost increases and professional services costs required for researching and evaluating the cost savings need to be accounted for in the identified Rough Order of Magnitude (ROM) cost estimates. At the May 8, 2025, monthly meeting, PMOC reiterated their request from the April 10, 2025, monthly meeting for a focus meeting with VTA to go over the ROM cost estimates.

## H. Real Estate Acquisition and Relocation

Refer to Section B above for revision and submittal status of the Real Estate Acquisition Management Plan (RAMP) and other PMP Subplans to support VTA's New Starts request to enter Engineering.

VTA's implementation of the acquisition program is in progress. VTA has identified 77 total parcels with acquisitions needed, including full and partial acquisitions, subsurface tunnel easements, temporary construction easements (construction staging areas), and permanent easements.

<sup>&</sup>lt;sup>2</sup> ROM estimates are yet to be mapped to the baseline established at entry into NSE phase

<sup>&</sup>lt;sup>3</sup> Contingent on approvals of design variances

During the May 8, 2025, monthly meeting, VTA reported the following progress as of January 2025:

PROJECT ACQUISITION STATUS Report Period: Mar-2025												
	ained		on	S	Status of "Parcels in Acquisition Process"						Relocation	
Description	Total	Possession Obtained In Acquisition	In Acquisiti Process	Eminent Domain Actions Filed ***	Board Adoption of RON	Offers Made	Appraisal Process Completed	Legals and Plats Approved	Pending Legals and Plats	Required	Completed	
SUMMARY OF REQUIRED TAKES												
Total Parcels: *	77	36	41	16	2	6	0	2	15	37	22	
				Type o	f Take: Q	uantity						
BPE ** & Other Takes:	4		4	1		2			1	3		
Full Fee:	9	7	2	1					1	15	10	
Other Multiple Takes (Easement/Fee):	3	1	2			1			1	15	12	
Tunnel Easement:	47	24	23	14	1	1		2	5			
Roadway Easement:	3		3						3			
Utility Easement:	4		4						4			
Temporary Construction Easement:	7	4	3		1	2				4		

Six Building Protective Easements were removed due to elimination of DTSJ Secondary HH; pending Property Protection Study report

#### Changes for March 2025:

■ Temporary Construction Easement agreement executed for B3001 and B3000.

■ Legals/Plats Approved: 81%

Appraisals completed: 78%

■ Offers made: 78%

Purchase Agreements Signed: 47%

#### I. Public Involvement/Outreach/Communications

At the May 8, 2025, monthly meeting, VTA provided the following Public Involvement / Outreach / Communications updates:

## • Public and Stakeholder Meetings and Presentations

4/3/2025 - Black Leadership Kitchen Cabinet4/9/2025 - Cafecito (Coffee House) at Cristo Rey San José Jesuit High School4/10/2025 - Santa Clara University Job Fair4/13/2025 - Viva Callé Pop Up EventSix Community Working Groups (CWG) Member Meet-and-GreetsProject Stakeholder BriefingsWest Portal Residential Stakeholder Construction Briefings

## • Communications and Public Relations

<sup>\*\*</sup> BPE: Building Protective Easements – Parcels have additional acquisitions, such as Tieback Easement

<sup>\*\*\*</sup> Total includes two parcels removed from the elimination of DTSJ Secondary HH

<sup>\*\*\*\*</sup> Represents total tenants not parcels

- Monthly Construction eBlast
- o Thriving Business Program Surveying (Spring 2025)
- o Delegation Briefings State Capitol in April and Washington DC in May
- o Blogs, social media, Website, Hotline

## J. Third-Party Agreements and Utilities

Refer to Section B above for revision and submittal status of the Third-Party Agreement Management Plan and other PMP Subplans to support VTA's New Starts request to enter Engineering.

The Third-Party agreement tracking matrix is updated and submitted to the FTA/PMOC monthly. The third-party agreement tracking matrix provides detailed information including a listing of all the critical and non-critical agreements and permits, and their anticipated or actual execution dates. Per OP39, "critical third-party agreements are required before Construction, or Operations can begin, the absence of which may significantly change the cost, scope, and schedule."

At the May 8, 2025, monthly meeting, VTA provided the following Third-Party Agreement updates:

- VTA received a revised Mitigation and Reimbursement Agreement for the West Portal from UPRR. VTA sent its comments on the revised agreement to UPRR on May 2, 2025.
- The total number of Third-Party Agreements is now 43.
- Critical Agreements prior to FFGA: 31
  - o 30 Executed, and 1 Open.
  - The open critical agreement (UPRR Mitigation and Reimbursement Agreement for West Portal Early Works) is anticipated to be executed in May 2025 upon the resolution of comments with UPRR.
- Critical Agreements post FFGA (Construction): 4 (BART IL, UPRR C&M, and SJWC (2))
- Critical Agreements post FFGA (Operations): 5 (BART, JPB, CT, CSJ, CSC)
- Discussions during the February 20, 2025, monthly meeting regarding the impasse on finalizing and executing the UPRR Mitigation and Reimbursement Agreement are as follows:
  - FTA reminded VTA that the UPRR Mitigation and Reimbursement Agreement is a critical agreement that must be executed.

Summary of Utility Relocation Design and Construction Progress

UTILITIES RELOCATION :	Report Period: Mar - 2025						
Location	Relocations Design	Relocations In Construction					
OWNER LED RELOCATIONS							
West Portal / NHY / SCS	7	4					
Diridon Station	8	6					
Downtown San José Station	4	4					
28 <sup>th</sup> Street / Little Portugal Station	7	0					
East Portal	5	0					
Sub Total	31	14					
CONTRACTOR LED RELOCATIONS							
West Portal / NHY / SCS	3	0					
Diridon Station	3	0					
Downtown San José Station	0	0					
28 <sup>th</sup> Street / Little Portugal Station	3	0					
East Portal	2	0					
Sub Total	11	0					
Total	42	14					

At the May 8, 2025, monthly meeting, VTA reported the following:

#### West Portal:

- Pacific Gas & Electric (PG&E) 115kV interconnection PG&E remobilization pending advancement of KST work.
- Cogent/Sprint final design package pending construction agreement & easement acquisition.
  - At the March 13, 2025, monthly meeting PMOC asked VTA about the status of the easement acquisition. VTA responded that this is an easement with UPRR, and VTA needs to coordinate with UPRR and BART. VTA anticipates it resolved by June 2025 without causing any delay.
- o Zayo Construction complete.
- *Diridon Station and West Vent Shaft:* 
  - AT&T/Comcast Construction resumed on May 5, 2025.
- *Downtown Station:* 
  - o AT&T construction will start following the completion of Diridon work.
  - PG&E Electric relocation (DSJS-E-32) VTA Real Estate coordination with property owners is in progress.
    - At the March 13, 2025, monthly meeting PMOC asked VTA about the Real Estate issues. VTA responded that PGE decided they need an electrician to work in a private property basement, and they are working with property owners to resolve the problem. VTA anticipates a couple of months timeline for completion.
  - Level 3 Construction Notice to Owner (NTO) executed.
- East Portal:
  - o PG&E, AT&T & Comcast designs in-progress.

o AT&T, and San Jose Water Company (SJWC) design at 90% - pending easement acquisition.

At the April 10, 2025, monthly meeting PMOC asked VTA about the status of the easement acquisition. VTA responded that this is an easement needed for PG&E, AT&T, and SJWC. VTA anticipates a couple of months timeline for acquiring the easement. This should not cause concern at this time since the East Portal utilities are not driving the schedule.

#### **K.** Construction

At the May 8, 2025, monthly meeting, VTA reported the following early works procurement / negotiations activities and status of progress:

- Early Works Projects Procurement / Negotiations:
  - EWP 1A TBM Procurement and Delivery, Factory Acceptance Testing scheduled for June 2025.
  - o EWP 2A Precast Final lining, Material & Plant Procurement: negotiations ongoing.
  - o EWP 3A West Portal Initial Sitework: Construction ongoing.
  - *EWP 3B West Portal Sitework (Phase 2): Construction ongoing.*
  - o EWP 3C.1 Preparation for West Portal Enabling Works: Complete.
  - EWP 3C.2 Launch Structure: Construction ongoing.
  - o EWP 7A West Portal Instrumentation & Monitoring: Ongoing monitoring.
  - o EWP 9A TBM Tunnel Support Equipment: Negotiations ongoing.
  - EWP 11A West Portal TBM and Plant Power: KST completed technical clarifications with vendors for electrical equipment; coordination meetings ongoing.
  - o EWP 11B West Portal TBM and Plant Power Phase 2: KST completed technical clarifications with vendors for electrical equipment; coordination meetings ongoing.
- PMOC recommends that VTA evaluate the progress of the work on EWP 3C.2 Launch Structure considering the Level 3 cost savings measures that could potentially require a significant reduction in the size of the Tunnel Boring Machine (TBM).
- PMOC recommends that VTA take immediate actions to resolve all issues causing delays to the sound wall construction including the execution of any required agreements.
- The following Tunnel Boring Machine (TBM) activities and status of progress were reported by VTA at the May 8, 2025, monthly meeting:
  - Construction Tunnel Boring Machine:
    - Factory Acceptance Test scheduled for summer 2025.
    - *TBM Storage* + *warranty extension: 18 months*
- The following Construction West Portal activities and status of progress were reported by VTA at the May 8, 2025, monthly meeting:
- <u>Construction West Portal:</u>
- The KST Contractor has continued mobilization efforts and commenced early activities ahead of the West Portal main construction works including the following:
  - o Construction of various temporary slabs for laydown and equipment set ups
  - o Installation of vertical inclinometers and depressurization wells

- O Delivery of sound wall materials. Installation on hold pending UPRR agreement execution
- Mobilization of plant and equipment for the Cutter Soil Mixing (CSM) scope and completion of the CSM test panels
- UPRR have approved the Shop Drawings and Work Plan for the Noise Curtain adjacent to the UPRR right of way. Work on this scope will commence as soon as the UPRR Mitigation and Reimbursement is executed between VTA and UPRR.
- Numerous Work Plans have been submitted to UPRR and the Joint Powers Board (JPB) for approval for upcoming works (CSM scope, D-Wall construction, Guidewall construction)
- <u>Construction Project-wide</u> (No update was provided at the May 8, 2025, monthly meeting).

## L. Vehicle Technology and Procurement

Expansion of BART's existing fleet to serve the BSVII service to Santa Clara is included in BART's Rail Fleet Management Plan (RFMP). Forty-eight vehicles have been identified in the BSVII budget. However, all vehicles will be procured under BART's vehicle procurement contracts not through a separate VTA procurement.

On May 2, 2024, the VTA Board of Directors authorized the General Manager/CEO to enter into an agreement with the San Francisco Bay Area Rapid Transit (BART) for the purchase of 48 revenue vehicles for the BSVII Extension Project through BART's existing contract with Alstom (formerly Bombardier). The costs related to these revenue vehicles are estimated to total \$172,600,000.

At the April 10, 2024, monthly meeting, VTA reported that Alstom will begin delivering 48 vehicles for BSVII in 2025.

## M. Project Cost

VTA transmitted to FTA/PMOC on October 11, 2023, their new baseline cost estimate included a total project budget of \$12.237B. The new baseline cost, with a status date of June 30, 2023, was developed reflecting the CP2 Stage 1 baseline, and the updated design-bid-build (DBB) contract packaging strategy for CP1, CP3 and CP4.

This new baseline cost estimate was reviewed in accordance with FTA's OP33 Project Cost Review in coordination with the January 2024 Entry to Engineering risk assessment. The risk review resulted in P65 Forecast cost of \$12.746B that was accepted and adopted by VTA. VTA formally requested FTA's approval to enter Engineering Phase in a letter dated March 29, 2024, with a total project cost of \$12.746B and a Revenue Service Date (RSD) of February 2039.

The BSVII project budget of \$12.746B supporting VTA's March 29, 2024, request for FTA's approval to enter Engineering and the Cost and Expenditures Update through January 31, 2024, are summarized below:

VTA	VTA BART Silicon Valley Program, Phase II Report Period							Mar-2025		
Cost Report by Standard Cost Category (\$ in millions)  Report Date							15-Apr-25			
Standard Cost Category Description		Estimate <sup>1</sup> (A)	Forecast @ Completion (B)		Variance (C)=(B)-(A)		Incurred To Date <sup>2</sup> (D)		Incurred This Period <sup>3</sup> (E)	
10	Guideway and Track Elements	\$ 2,899.8	\$	3,033.9	\$	134.1	\$	113.9	\$	12.2
20	Stations, Stops, Terminals, Intermodal	\$ 2,037.2	\$	2,037.2	\$	-	9	S -	\$	-
30	Support Facilities, Yards, Shops, Admin. Bldgs.	\$ 352.2	\$	352.2	\$	-	9	S -	\$	-
40	Sitework and Special Conditions	\$ 582.5	\$	711.9	\$	129.4	\$	110.2	\$	7.2
50	Systems	\$ 1,409.0	\$	1,409.0	\$	-	\$	S -	\$	1
60	ROW, Land and Existing Improvements	\$ 240.5	\$	240.5	\$	-	\$	122.4	\$	0.3
70	Vehicles	\$ 204.8	\$	173.7	\$	(31.1)	\$	12.1		
80	Professional Services	\$ 2,972.5	\$	3,000.1	\$	27.6	\$	986.5	\$	26.4
90	Unallocated Contingency	\$ 1,657.1	\$	1,366.1	\$	(291.0)	9	S -	\$	-
100	Finance charges	\$ 390.0	\$	390.0	\$	-	9	-	\$	-
	Total	\$ 12,745.6	\$	12,714.5	\$	(31.1)	\$	1,344.8	\$	46.1

#### Notes:

- 1 Baseline estimate established at entry into New Starts Engineering
- 2 Incurred total (D) and (E) may vary from VTA's accounting system due to rounding
- 3 Incurred this period excludes accruals (invoices under review or in process)

### Figure 4– Cost and Expenditures

The PMOC requested BSVII staff verify the \$26.4M expenditure for SCC 80 – Professional Services in March 2025 given that VTA reported in earlier months that the Professional Services are expected to be reduced.

The VTA has reported expenditures through March 31, 2025, including accruals, which total \$1,424.0M. Project costs have been expended in SCC 10, SCC 40, SCC 60, SCC 70, and SCC 80. Project commitments include SCC 10, SCC 40, SCC 60, SCC 70, and SCC 80 and total \$2,067.9M through March 31, 2025.

At the May 8, 2025, monthly meeting, VTA reported the following Budget/Cost updates for the March 2025 reporting period:

- No changes/updates this period
- There was no contingency drawdown during this period

• As of March 31, 2025, VTA drew down a net \$55.2M allocated contingency and \$291.0M unallocated contingency to date.

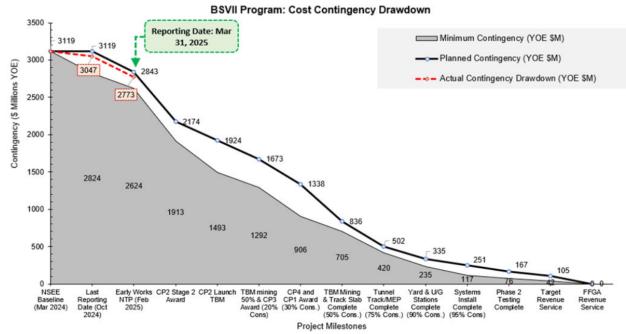


Figure 5— Cost Contingency Drawdown Curve — \$14.3M contingency drawdown this March 2025 period (\$2.5M allocated contingency and \$11.8M unallocated contingency)

## N. Project Schedule

VTA provided a March schedule update with a data date of April 1, 2025. A full analysis was completed on this schedule.

The new VTA baseline schedule has a target Revenue Service Date (RSD) of Q2-2037. The preliminary risk assessment by PMOC indicated a projected RSD of February 2039, inclusive of FTA-assessed schedule contingency. VTA is adopting the FTA-recommended schedule contingency that indicates a Q1-2039 RSD while managing to the target RSD of Q2-2037.

The activities for "VTA Target RSD" with a date of May 12, 2037, and "FFGA RSD" with a date of February 28, 2039, have remained the same as has Systems Substantial Completion with a date of August 04, 2036.

At the May 8, 2025, monthly meeting, VTA noted that the critical path excluding contingency and reserve remains the same as the previous months and reported the following Project Schedule updates for the March 2025 reporting period:

- 1. West Portal Enabling work and Launch Structure (CP2)
- 2. TBM Procurement: Assembly and Testing (CP2)
- 3. Tunnel mining from West Portal to East Portal (CP2)
- 4. West Portal: Final concrete work and finishes (CP2)

- 5. West Portal: Train Control Building (CP2)
- 6. Newhall Yard: Systems installation (CP1)
- 7. Phase 2 testing by CP1 with BART oversite
- 8. BART OCC Validation / Testing

The Master Project Schedule (MPS) is comprised of a summary schedule plus the following twelve individual schedules

- 1. Program Management and Administration
- 2. Right-of-Way Acquisition
- 3. Design
- 4. Advertise, Bid, and Award
- 5. Utilities
- 6. Third Party
- 7. Vehicles & Parking
- 8. Testing and Commissioning
- 9. Systems
- 10. Contract Package 2
- 11. Yard/SC Station
- 12. Underground

As of previous reporting periods, a total of 8.5 months of schedule contingency was drawn down to accommodate delays in the award and NTP of West Portal launch early works scope to the CP2 contractor. No additional schedule contingency was drawn down during this reporting period. As the remaining contingency has fallen below the minimum contingency levels, VTA is working on the following to address this:

- Identify opportunities to accelerate EWP 3C construction activities: Following the planned February 2025 NTP for the EWP 3C heavy construction, the project team will collaborate with the contractor to identify opportunities to accelerate construction activities and minimize the actual use of contingency wherever possible. The VTA also included incentive clauses and liquidated damages clauses in Amendment #8.
- Plan for a comprehensive risk assessment following the outcome of VTA Task Force: To mitigate the contingency usage and delays occurred to date for future work, VTA has set up a task force to evaluate CP2 contract options including evaluating other potential contract packaging solutions to expedite schedule and reduce delays. A comprehensive risk assessment will be conducted after those options have been evaluated and a path forward determined.

The critical path on the overall schedule has total float at 0 starting with CP2 West Portal Support of Excavation (SOE) & Caterpillar Structure. This then leads to a Contingency activity for CP2 West Portal SOE & Caterpillar Structure, CP2 West Portal Excavation of Caterpillar Structure and CP2 West Portal Base Slab before moving on to tunneling. This has remained the same as the previous month's update.

The longest path on the schedule has a total float anywhere from 0 to 451 working days. It is starting with three activities, Cons.772680: CP2 PCTL Lining Molds Design Extension,

CCS.7280: CP2 Stage 2 - Remaining Lump Sum Cost Proposal – Preparation and ST.8710: CP2 West Portal SOE & Caterpillar Structure. All were part of the CP2 schedule.

The critical path is starting with activity ST.8710: CP2 West Portal SOE & Caterpillar Structure in CP2. This activity has an actual start date of 03MAR25 and indicates 7.66% complete with a finish date of 01APR26

On the Right of Way schedule: The added activities were for "Resolution of Necessity (If Req'd)". Fifty-nine activities had changes to their original durations. These were a mix of increases and decreases. There were activities in this period with no progress or diminishing progress. Seventeen (17) milestone dates have been adjusted. There are no ROW activities on the longest path.

On the Design schedule: The overall Design schedule has been moved out by 34 working days. However, there are activities which have had movement outwards anywhere from 34 to 65 working days. Six activities have had their Original Durations increased by over 65 days. There are constraints on activities whose dates are in the past. These constraints should be removed. Five (5) activities are without Finish Relationships. There are no design activities on the longest path.

On the Utility: Start on constraints were added to eight activities which in turn pushed the schedule for Underground Stations 28<sup>th</sup> Street out by 86 working days. There are 25 activities without finish relationships. There are no activities on the longest path this month.

On the Third-Party schedule: The Operations & Maintenance Agreements were pushed out by 18 working days due to the Underground Stations Substantial Completion activity being moved out. Six (6) active activities have no finish relationships. There are no activities in the Third-Party schedule on the critical path.

The Systems, and Yard/SC Station schedules had no changes.

The CP2 schedule: There was movement outwards on the CP2 schedule in part due to ROW linkages (South Of Las Plumas, Downtown San Jose East Ventilation Shaft, and Downtown San Jose). The movement was from 42 to 251 working days. Three Milestones that were pushed out with delta from 64 to 351 calendar days. There are activities without finish relationships. There are forty-two (42) activities on the longest path.

On the Underground schedule: The total Float Update Greater than the Period were all in the Underground Stations DTSJ Concourse/Platform section of the schedule. The three (3) milestones with variances are Underground Stations Substantial Completion, Underground Stations DTSJ Concourse/Platform Start DTSJ Concourse/Platform and Underground Stations Start DTSJ East Ventilation Shaft. The movement 166 working days) is coming from Underground Stations Start DTSJ East Ventilation Shaft which has a predecessor of ST.1210

from the CP2 schedule. The overall schedule lost 18 working days. There are no activities on the longest path.

At the May 8, 2025, monthly meeting, VTA reported the following Project Schedule updates for the March 2025 reporting period:

- Major critical path elements include the TBM Launch Structure, TBM Mining, Tunnel Interior, and completion of the West Portal structure; followed by Systems Construction / Testing.
- No major changes to schedule critical path this period.

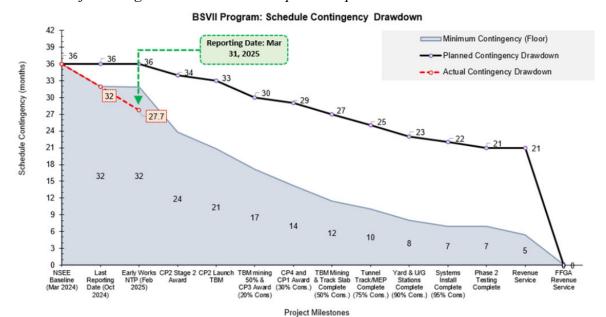


Figure 6– Schedule Contingency Drawdown Curve

#### O. Project Risk

#### **Overall Status**

The PMOC reviewed various versions of the Risk and Contingency Management Plan (RCMP) leading up to VTA's EPD selection. On May 26, 2023, VTA submitted an updated RCMP (Rev. 0.D dated May 22, 2023) with the above-noted PMP Subplans to support VTA's New Starts request to enter Engineering. On October 11, 2023, VTA submitted another revision of the RCMP (Rev. B dated September 14, 2023) associated with the new baseline cost and schedule.

The VTA reported having continued their on-going risk review meetings with project and discipline teams, updating risk response plans and risk register.

The VTA has indicated, as per CP2 contract requirements, the KST team is expected to include a risk register after the review of the Configuration Design submittal. The BSVII team will review KST's identified risks with BSVII disciplines, revise the Program Risk Register as appropriate and establish a joint VTA/KST CP2 Project Risk Register that will be reviewed with the KST

team regularly. Since the risk workshop was held in January 2024, this register has not been provided to PMOC.

The project risk profile has changed since the EPD submission and is further impacted as the project has moved back into the New Starts program. The PMOC has completed a risk assessment given the new baseline cost and schedule by VTA that reflects their planned delivery and updated packaging strategy, along with awarded CP2 contractor (KST's) approved innovations. The Entry to Engineering risk workshop for the project was conducted in January 2024 with the FTA, the project sponsor and PMOC. The PMOC has proposed additional new risks related to geotechnical conditions, Buy America requirements, interface requirements associated with changing scope, Real Estate management plan, TBM productivity assumptions, agency capacity, timely decision with BART and external stakeholder impacts including potential delays from Board of Directors. The VTA has incorporated the FTA/PMOC risk assessment results into their new baseline and request to Enter Engineering.

Based on VTA's period ending March 31, 2025, monthly report, the following capture the key risk updates:

New Risks: None for the period

Increased Risk Score: None for the period

Reduced Risk Score: None for the period

Retired Risk: None for the period

Other Risk Updates:

BSV-196 - Failure to secure a lump-sum price with KST resulting in Off-ramp: Per VTA this item originally captured the potential for KST's unwillingness to accept reasonable risk strategies/sharing to lead to an off-ramp of CP2 contract scope. As this is a high impact item, VTA has been holding various meetings with KST to review assumptions related to their TBM mining rates, subcontractor costs, etc. An executive partnering session will be scheduled to discuss contracting terms.

BSV-209 - CP2 Early Works schedule uncertainty: Per VTA this item originally captured potential schedule impacts due to uncertainty with the Progressive Design Build (PDB) contract regarding a) Early Works scope changes resulting in schedule delays, b) Time to obtain competitive price for early works, c) Negotiation challenges for scope in/out from PDB contract. VTA has met with KST on schedule overview and further meetings are scheduled with KST for obtaining cost estimates for remaining EWPs. Targeting to provide a recommendation to VTA in June on which EWPs to move forward with KST.

BSV-213 - Additional CP2 redesign costs and CP2 design time to address optimizations and cost saving measures: Per VTA, this item originally captured the potential additional design time and costs to implement various cost savings measures to address proposed optimizations. VTA has executed Change Order #4 that authorizes KST to implement design changes related to value engineering and several optimizations approved to date. As some of the likely optimizations will require redesign, probability and cost impacts have increased. Although additional design time and cost may be needed to address these optimizations and cost saving

candidates (CSC), this additional redesign cost would help achieve significantly larger construction cost savings and support VTA's goal of reducing the program budget to meet available funding constraints.

BSV-230 - CP2 Off-ramp requiring re-procurement resulting in a potential lack of competitive bidders: Per VTA, this item originally captured potential cost increases due to a CP2 off-ramp requiring procurement of additional contract packages. This could cause a limited marketplace for tunnel contractors' availability, lack of competitive bidders, insufficient competition, or contractors including a premium on bids which would result in higher contract costs. Industry outreach sessions kicked off in February 2025 and are currently ongoing. Section 6.2 summarizes the top ten risks (threats) for the program.

Listed below are the top ten risks (Threats) according to VTA's BSVII Monthly Progress Report for the period ending March 2025. Please refer to Attachment E for additional details regarding VTA's top ten risks (Threats).

VTA March, 2025 Risk Register (Threats) Top 10						
Risk ID	Risk Title					
BSV-196	Failure to secure a lump-sum price with KST resulting in Off-ramp.	20				
BSV-213	Additional CP2 redesign costs and CP2 design time to address optimizations and cost saving measures.					
BSV-215	FFGA execution delays.					
BSV-005	Unanticipated damage to historic buildings & other structures.					
BSV-029	VTA financial capacity/funding plan to finance potential future project cost increases.					
BSV-036	General construction labor shortage/labor premiums resulting in delays or increased cost.					
BSV-096	Testing and Commissioning delays due to various factors.					
BSV-138	Design interfaces between GEC and KST leads to integration issues, errors and disputes.					
BSV-152	Truck traffic volume for disposal of muck from the tunnel resulting in additional costs.					
BSV-154	UPRR extended coordination delays PDB contractor during design and construction.					
	Threat Opportunity					

At the May 8, 2025, monthly meeting, VTA provided the following progress updates:

- Ongoing internal risk review meetings with Program, Project, Discipline Leads and key stakeholders
- Continue to work with risk champions to monitor progress of risk response actions for key program risks
- Key changes to the Program Risk Register summarized below: None reported

## P. Quality Assurance/Quality Control

PMOC reviewed various versions of the Quality Management Plan (QMP) leading up to VTA's EPD selection. On May 26, 2023, VTA submitted an updated QMP (Rev. 2 dated May 1, 2023) with the above-noted PMP Subplans to support VTA's New Starts request to enter Engineering. PMOC reviewed the revised QMP and provided preliminary summary comments to VTA on June 27, 2023. The QMP (Rev. 2 dated November 1, 2023) was submitted to the PMOC on

November 22, 2023. On July 2, 2024, FTA transmitted to VTA the final QMP PMOC review report.

At the May 8, 2025, monthly meeting, VTA reported the following quality activities:

- o VTA/Program Management Team (PMT) Oversight
  - Launched audit of Rail System Organization (RSO). Introduction meeting was held on 4/16/2025.
- o Construction Management Services (CMS) Oversight
  - Continued review of CMS edits to BSVII QMP, Construction Administration Procedure and Construction Management Plan.
- o CP2 Design and Construction Oversight Kiewit Shea Traylor JV (KST)
  - Initiated review of TBM Factory Acceptance Testing (FAT) checklist and Requirements Verification Traceability Matrix (RVTM).
  - Initiated review of KST Project Wide Procurement Procedure, Rev. 2.
- CP1, CP3, CP4 Design Oversight Mott MacDonald / PGH Wong Engineering JV (MMW)
  - Continued GEC Design Quality Program Audit. Document review and evidence gathering in progress.

## Q. Safety and Security

VTA and BART previously indicated an intent to conduct joint Fire Life Safety and Security Committee (FLSSC) and Safety and Security Review Committee (SSRC) meetings for the early phase of the BSVII program.

The monthly SSRC meetings commenced in January 2021. On August 30, 2023, VTA issued the SSRC charter. The SSRC is chaired by VTA Deputy Director, Program Administrator and includes VTA (Security Specialist, Chief of System Safety & Security, System Safety & Security Lead, and project managers), BART (engineering, operations, system safety, and police), BSVII Program Management Team, Federal Transit Administration, and the Project Management Oversight Contractor.

The first FLSSC meeting was conducted on October 7, 2021. FLS (Fire Life Safety) continues to monitor project progress. On August 30, 2023, VTA issued the FLSSC charter. The FLSSC charter is co-chaired by VTA Chief Megaprojects Officer and BART Assistant General Manager of Operations. It includes committee members from the Cities of San José and Santa Clara fire and police departments, Santa Clara Sheriff, California Public Utilities Commission (CPUC), BART (engineering, system safety, and police), and VTA (System Safety & Security, and project managers). The CPUC is the State Safety Oversight Agency (SSOA) as certified by FTA.

At the May 8, 2025, monthly meeting, VTA reported the following System Safety and Security Risk Management / Certification activities:

- The Safety and Security team continued to support risk and potential changes to certifiable items related to cost saving measures.
- Safety and Security Review Committee (SSRC)

- The SSRC meeting was not held in April 2025 but there are several pending changes to the certifiable items list due to the cost saving measures that will be discussed at a future meeting.
- Fire Life Safety and Security (FLSS) Activities
  - The Fire Life Safety and Security Committee (FLSSC) did not meet in April 2025 as the FLSSWG was still working through issues.
  - The Fire Life Safety and Security Working Group (FLSSWG) has not met with the fire department due to project priorities. This will be a focus in May 2025 to resolve issues.

## R. Americans with Disabilities Act (ADA)

VTA produced an Accessibility Report to meet the EPD application requirements specified in the NOFO (Notice of Funding Opportunity).

## S. Buy America

VTA has committed to meeting the Buy America requirements in their PMP documentation. Additional details regarding how they intend to meet the 70-percent content threshold, and their management of contractor requirements have yet to be made available to the PMOC for review.

VTA is including a notification in the RFQ to all prospective bidders that Buy America requirements will be part of each contract. VTA sets the expectation that each supplier and subcontractor must research and present findings for verification. Additional work is needed to coordinate the requirements and compliance at a program level. VTA indicated that their contract technical teams will provide input regarding program coordination.

No update was provided at the May 8, 2025, monthly meeting. PMOC recommends that VTA revisit their plan for Buy America implementation and management regarding Buy America Build America changes and the program's adjusted delivery plan.

#### T. Start-Up, Commissioning, Testing

VTA and their contractors will be responsible for Phase 1 and 2 system integration testing. Upon successful completion of Phase 2 system integration testing, the system will be turned over to BART to complete Phase 3 system integration and pre-revenue testing. As noted above, VTA has established a Rail Systems Organization (RSO) teaming with BART to manage systems and operations input to project development and address related issues. The RSO is developing the System Integration Testing Program Plan. The testing plan will define BART Phase 3 System Integration Testing (SIT) to be Operations Control Center (OCC) validation of tests previously performed. The intent of Phase 3 SIT is not to introduce new tests to be performed. However, if there are system validation failures during SIT Phase 3, BART will have the right to perform new tests until all testing discrepancies are cleared.

As previously noted, VTA has determined that Communication Based Train Control (CBTC) design will be progressed for implementation on the BSVII extension. To accommodate the technology, BART CBTC implementation from Warm Springs to Berryessa needs to be

completed. VTA provided the following milestones related to this phase/segment of BART's project:

- Migration design from Q3 2025 to Q4 2029
- Procurement from Q4 2025 to Q3 2028
- Installation from Q1 2029 to Q4 2029
- Testing and Commissioning from Q3 2029 to Q4 2030
- Revenue service expected at the end of 2030

No update was provided at the May 8, 2025, monthly meeting.

## **U.** Action Items Table

	Item	Responsible		Date	Status / Action Required		
No.	Description	Party	Identified	Due	Complete		
155	Notify PMOC when EWPs are executed	VTA	2/8/2024	6/12/2025		In-Progress 5/8/2025 – VTA updated PMOC about latest status of EWPs	
175	Provide a list of Request for Variances pertaining to system safety and security	VTA	10/10/2024	6/12/2025		In-Progress VTA to provide as the RFVs are approved	
180	Set up a meeting to revisit the risk register in light of the cost savings, contracts repackaging, etc.	VTA	2/20/2025	6/12/2025		Open	
184	Set up a meeting with FTA and PMOC to review and discuss the Rough Order of Magnitude (ROM) estimates for Levels 1 and 2 cost saving candidates.	VTA	4/10/2025	6/12/2025		Open	
185	Set up a meeting with FTA and PMOC to discuss preliminary recommendations of the BSVII Contracting Task Force	VTA	5/8/2025	6/12/2025		Open	

Item		Responsible	Date			Status / Action Required
No.	Description	Party	Identified	Due	Complete	
186	Provide clarifications / corrections to Cost and Expenditures lines SCC 60 and SCC 80	VTA	5/8/2025	6/12/2025		Open

### 3. Project Monitoring Report Attachments

Attachment A. List of Acronyms

Attachment B. Monthly Meeting Agenda

Attachment C. Monthly Meeting Attendees

Attachment D. List of Documents Received

Attachment E. VTA Top 10 Project Risks

Attachment F. Project Milestones/Key Events Attachment G. Project Map

Attachment H. FTA Grant approval letter dated August 1, 2024.

#### A. List of Acronyms

ADA Americans with Disabilities Act

BART Bay Area Rapid Transit

BSVII BART Silicon Valley Phase II

CBTC Communications Based Train Control

CIG Capital Investment Grants

CMS Construction Management Services
CPUC California Public Utilities Commission

CSC City of Santa Clara CSJ City of San José

DCM Design Criteria Manual

EVS Emergency Ventilation Structure EPD Expedited Project Delivery

FAT Factory Acceptance Testing
FLSS Fire, Life, Safety and Security
FTA Federal Transit Administration

FOTF Fleet of the Future

GEC General Engineering Consultant

HK Herrenknecht

KST Kiewit Shea Traylor

LS Lump Sum

MCCP Management Capacity and Capability Plan

NDA Non-disclosure Agreement

NEPA National Environmental Policy Act NOFO Notice of Funding Opportunity

OP Oversight Procedure

PDB Progressive Design Build

PMOC Project Management Oversight Contractor

PMP Project Management Plan
PMT Program Management Team
QMP Quality Management Plan
RAMP Real Estate Acquisition Plan

RCMP Risk and Contingency Management Plan

RFIF Request for Industry Feedback RFMP Rail Fleet Management Plan

RFP Request for Proposal RFQ Request for Qualifications

ROW Right of Way

RSO Rail Systems Organization

RVTM Requirements Verification Traceability Matrix

SCC Standard Cost Categories SOQ Statement of Qualifications

SSMP Safety and Security Management Plan

SSOA State Safety Oversight Agency

SSRC Safety and Security Review Committee STOPS Simplified Trips-On-Project Software SVBX Silicon Valley Berryessa Extension SVTC Silicon Valley Transit Consultants

TBM Tunnel Boring Machine
TAP Tunnel Advisory Panel
UPRR Union Pacific Railroad
VE Value Engineering

VE Value Engineering
VTA Santa Clara Valley Transportation Authority

#### **B.** Monthly Meeting Agenda

# Monthly Coordination Meeting/Teleconference VTA BART Silicon Valley Extension Phase II

Thursday, May 8, 2025 – 10:30am (Pacific) Conference Connection: MS Teams

- 1. Introductions/Roll Call
- 2. Key Agency-level updates (organization, financial, legal, safety, etc.)
- 3. Action Items from latest Monthly Call
- 4. Issues and Concerns from latest Monthly Meeting
- 5. Project Status
  - a. Project Management Organization Updates
    - i. PMP and sub-plans
    - ii. Management Capacity and Capability
  - b. Project Summary Description
  - c. Key Project Issues
    - i. Key Personnel staffing update
    - ii. Program Management Services Procurement Update
    - iii. Status of Cost Reduction from the \$12.76B Entry to Engineering budget
    - iv. Update on status of the Dec 18, 2024, Value Engineering ideas / concepts
    - v. Budget vs. Funding Report
    - vi. Contracts Re-Packaging / Procurement / Delivery
    - vii. Update on the informal follow-up with contractors from the tunnel and construction conferences
    - viii. BSVII Project Progress:
      - a. TBM Inspection / Delivery Update
      - b. Schedule critical path
      - c. Early Works
      - d. CP2 Stages 1 & 2
  - d. NEPA / Environmental Mitigations
  - e. Project Delivery Method and Procurement Status
    - i. Project-Wide
    - ii. Systems DBB
    - iii. CP2 PDB
    - iv. Facilities DBB
    - v. Stations DBB
  - f. Design Status
    - i. Project-Wide
    - ii. Systems
    - iii. CP2 Tunnel & Trackwork
    - iv. Facilities
    - v. Stations
  - g. Real Estate Acquisition/Relocation Status
  - h. Public Involvement/Outreach
  - i. Third-Party Agreements
  - j. Utilities

- k. Construction
- 1. Project Controls
  - i. Schedule Updates
  - ii. Cost and Expenditures Updates
  - iii. Change Order Status
  - iv. Contingency Status
- m. Project Risk Management
- n. Quality Assurance / Quality Control
- o. System Safety and Security
- 6. New Action Items
- 7. Upcoming Monthly Coordination Meetings:
  - a. June 12, 2025, 9:30am (Pacific)
  - b. July 10, 2025, 9:30am (Pacific)

# C. Monthly Meeting Attendees

Organization	Name	E mail
FTA	Chris Nutakor	chris.nutakor@dot.gov
FTA	Murat Omay	murat.omay@dot.gov
FTA	Wei Chu	chu.wei@dot.gov
VTA	Claudia Frias Baltazar	claudia.friasbaltazar@vta.org
VTA	Drew Pearce	dpearce@vtabsv.com
VTA	Eric Olson	eolson@hntb.com
VTA	Erica Roecks	erica.roecks@vta.org
VTA	Kevin Kurimoto	kevin.kurimoto@vta.org
VTA	Khair Mohammad Amini	khairmohammad.amini@vta.org
VTA	Krishna Davey	krishna.davey@vta.org
VTA	Monica Born	monica.born@vta.org
VTA	Nellie Moussa	nmoussa@vtabsv.com
VTA	Ronak Naik	ronak.naik@vta.org
VTA	Rosemarrie Gonzalez	rosemarrie.gonzalez@vta.org
VTA	Samantha Mccleary	samantha.mccleary@vta.org
VTA	Sarah Wilson	swilson@vtabsv.com
VTA	Tom Maguire	tom.maguire@vta.org
BART	Ni Lee	nlee@bart.gov
CPUC	Rupa Shitole	rupa.shitole@cpuc.ca.gov
PMT	Afshin Abtahi	aabtahi@vtabsv.com
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PMOC	Heather Browning	heather.browning@atkinsrealis.com
PMOC	Jessica Fulton	jessica.fulton@atkinsrealis.com
PMOC	Laurel Espenlaub	laurel.espenlaub@atkinsrealis.com
PMOC	Nadeem Tahir	nadeem.tahir@atkinsrealis.com

### **D.** List of Documents Received

Document	Received		
BSVII_Monthly_Progess_Report_February_2025.pdf	3/31/2025		
VTA BSVII Detailed Schedule_February 2025 Update.pdf	3/31/2025		
third party agreement tracking 2.28.25.xlsx	3/31/2025		
BSVII-ProjectRiskRegister FEB-2025 Clean Draft 02-28-2025.xlsx			
VTA BSVII MPS February Update_February 2025.xer	3/31/2025		

# E. VTA Top 10 Project Risks (Threats)

Risk ID	Risk Title	Risk Description	Risk Score	Action Items Description
BSV-196	Failure to secure a lump-sum price with KST resulting in Off-ramp.	Cause: KST's unwillingness to accept reasonable risk strategies/sharing within VTA budget. Risk: Failure to agree on lump-sum and come to terms with KST. Impact: Off-ramp with CP2 contract scope, increased interface risk, design completion delays, construction escalation costs, etc.	20	Implement schedule critical scopes as early construction item during Stage 1 to lessen the impacts/delays of implementing an off-ramp.     Compare Tunnel Package cost proposal with the ICE.     VTA Task Force to evaluate Stage 2 options (including off-ramp) for KST contract and update VTA Board on current status of CP2 Stage 2 scope and ongoing negotiations.
BSV-213	Additional CP2 redesign costs and CP2 design time to address optimizations and cost saving measures	Cause: Various cost savings measures required need for optimizations. Risk: Implementing optimizations will be a redo of 85% design and, in some cases, potentially going back to 60% design. Impact: Additional design time and costs to address proposed optimizations.	15	<ol> <li>Expedite DCMTR/3rd Party clearance for contract compliance of the design proposed as part of optimizations and cost saving measures.</li> <li>Work with contract and project control teams to develop redesign cost estimate and schedule impact to prepare negotiation with KST for GO items.</li> <li>Once budget is approved as part of future amendment, provide direction to KST to perform optimization scopes.</li> </ol>
BSV-215	FFGA execution delays	Cause: FTA's approval of BSVII's NSEE application resulted in significant funding shortfall Risk: Longer time to address funding gap and resulting FFGA execution delay Impact: Delay in execution of near-term critical path schedule milestones and associated increase in overall program cost.	12	I. Identify additional local funding sources to address funding shortfall.     Incorporate approved optimizations/cost savings measures in design and update program cost forecast.     Update financial plan to support FFGA execution by Fall 2025.
BSV-005	Unanticipated damage to historic buildings & other structures	Cause: Vibration and/or settlement during construction. Risk: Unanticipated or inadvertent damage to buildings (especially historic buildings) and structures. Impact: Added cost to mitigate; along Santa Clara St, but extending to the area encompassed by settlement trough.	12	Contractor to prepare mitigation design following findings of PPS.
BSV-029	VTA financial capacity / funding plan to finance potential future project cost increases	Cause: Changes in cost may result from further design development and coordination with stakeholders.  Risk: Future cost estimates may exceed current available funding and/or local funds may expire, necessitating the identification of additional funding sources and/or debt financing.  Impact: a) delays in progressing the project, b) changes to scope in order to align with identified funding and project cost.	12	Identify secondary mitigation and review with BART if additional cost pressures arise as applicable.     A. VTA CFO continues to perform stress tests of the financial plan to address potential cost increases
BSV-036	General construction labor shortage / labor premiums resulting in delays or increased cost	With so many on-going concurrent projects in the state, and the potential for more projects ramping up due to Federal /State stimulus to create jobs, there may be a shortage of skilled labor to support aggressive project milestones. In addition, competition of resources for skilled labor (operators, electricians, tunnel moles, etc.) and equipment may create the need to pay a premium.	12	Continue to monitor economic trends.     Continue project public outreach efforts.
BSV-096	Testing and Commissioning delays due to various factors	Testing and commissioning delays due to: - Insufficient time allocated to the schedule for testing activities Unanticipated systems integration/interface issues Inadequate installation verification and QA/QC processes implemented Failed testing of equipment and/or testing parts requiring major rework Improper handoff from other CPs to systems contractor.	12	2. Develop detailed resources loaded schedule for system's testing, commissioning and training activities. 3. Rigorous implementation of lessons learned including integrating BART's Operations (Maintenance and Engineering) team into the design, construction and testing phases of the program. 4. PMT to work with GEC to ensure a clear definition of the inspection and test conditions to be included in the CP1/3/4 contract documents as they constitute SOW definition. Also, PMT works with the CP 2 Management Team to ensure KST technical deliverables clearly specify equivalent requirements for their contracted SOW. As part of the review process with BART and other stakeholders the intent is to give reviewers the opportunity to comment on the stated installation and test conditions specified. 5. Introduce the Rail Acceptance Officer early on during the testing phase.

Risk ID	Risk Title	Risk Description	Risk Score	Action Items Description
BSV-138	Design interfaces between GEC and KST lead to integration issues, errors and disputes.	Interdependence of CP2 PDB design with VTA GEC design with complex analysis/design interfaces has the potential for misalignment of design expectations, confusion over roles/ responsibilities, errors and omissions, poor integration of the various designs at contract interface points, and resultant impacts to construction cost/schedule including increased risk of claims.	12	6. Establish a joint testing and commissioning organization, under an experienced systems integration manager. Ensure Project key personnel include Interface/Integration Manager (Facilities Design), Systems Design), Systems Design Integration and Systems Testing/Start-Up Manager.  7. VTA, BART and other stakeholders jointly develop all technical, operational and maintenance requirements for the rail systems, and fixed facility systems.  2. Coordinate with GEC and KST design teams to work within one consolidated model and properly integrating/ managing design and contract interfaces.  5. Conduct additional coordination with CP teams to address changed interfaces and minimize interface issues.
BSV-152	Truck traffic volume for disposal of muck from the tunnel resulting in additional costs	Cause: Muck disposal constrained by number of trucks per day (revised NSEE cost estimate already includes cost of muck disposal via traditional haul/disposal (i.e., at disposal sites with added cost) via trucks at market rate.) Risk: Muck disposal limited by number of trucks per day, impact to public traffic requiring additional work constraints or limitations. Impact: Eventual disposal taking longer than anticipated resulting in additional cost may be higher than currently estimated due to the actual volume of trucks at West Portal.	12	4. Investigate the market capacity of trucks and establish potential overflow location(s) on-site. 5. Continue to progress Salt Ponds as alternative muck disposal option independent of BSVII program. Three options have been looked at to get the material to the ponds (Rail, Truck and Pipeline). All of these have cost impacts and require environmental clearance. 6. Further explore Local Quarries option - at least 2 local quarries have been contacted and are interested in taking all the material for use in reclamation projects. Both options could be handled with trucks. One of the sites has an abandoned rail spur that might be an option but would require additional environmental approval. 7. Further explore Dirt Broker(s) option that focuses on finding a broker who could connect developers/ project site(s) that needs material. 8. Continue to explore muck disposal via UPRR corridor from the project site to locations (near and far). This could eliminate the use of trucks but also requires additional environmental clearance.
BSV-154	UPRR extended coordination delays PDB contractor during design and construction.	UPRR operates within the railroad easement on VTA property adjacent to the proposed Santa Clara station, West Portal, and Newhall Yard. Applicable UPRR requirements for work adjacent to their facilities will be included in the contract documents. Risk is associated if UPRR is non-responsive or otherwise delays the design builder completion of design/ construction activities.	12	Coordinate with UPRR Engineering on various items including joint use maintenance road, drainage system to accommodate surface runoff from UPRR easement at Newhall yard, and flagging and construction work zones.     Execute Mitigation and Cost Reimbursement Agreement for the West Portal Early Works (aka Final Engineering Agreement) with UPRR.     Escalate to UPRR Executive Team if UPRR is non-responsive in the identified timeframe.

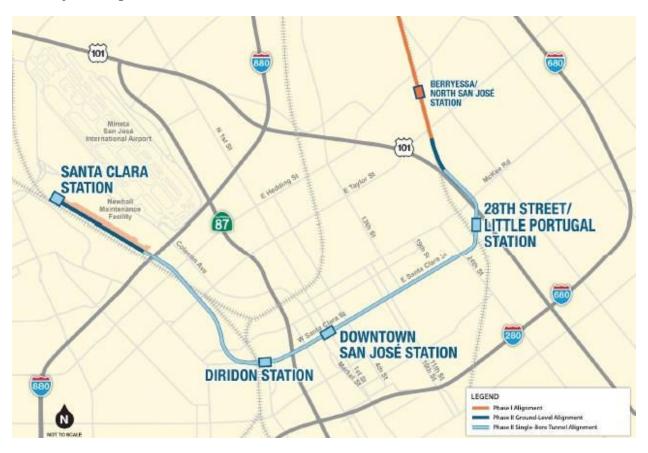
Source: BSVII Monthly Progress Report March 2025

# F. Project Milestones/Key Events

Milestone	Planned Date
General Key Milestones	
Contract Package 1_Systems Design Bid Ready & Review	9-Mar-28
Contract Package 3_Newhall Yard and Santa Clara Station Design Bid Ready & Review	22-Jan-27
Contract Package 4_Stations and Support Facilities Design Bid Ready & Review	5-Oct-27
VTA Target Start of Revenue Service	12-May-37
FTA Target Start of Revenue Service	28-Feb-39
Construction Contracts Key Milestones	
Contract Package 1_Systems	
Contract Package 1 NTP Systems	18-Apr-29
Track Testing Completion	16-Oct-34
Systems Testing Completion Turn Over to BART	9-Nov-35
Contract Package 2_Tunnel and Trackwork	
Order TBM	31-Oct-23
Contract Package 2 NTP2 Tunnel & Trackwork	6-Jan-25
Deliver TBM	21-May-26
Start of Tunneling	6-Nov-26
Start of Trackwork	1-Nov-29
Contract Package 3_Newhall Yard and Santa Clara Station	
Contract Package 3 NTP Newhall Yard and Santa Clara Station and Parking Garage	3-Feb-28
Santa Clara Station Fit-Out Completion	4-Feb-32
Santa Clara Station Parking Garage Construction Completion	18-Dec-31
Newhall Yard Trackwork Completion	22-Jul-33
Contract Package 4_Stations	
Contract Package 4 NTP Stations and Support Facilities	18-Dec-28
Diridon Station Fit-Out Completion	12-Dec-33
DTSJ Station Fit-Out Completion	19-Aug-33
28th Street Station Fit-Out Completion	26-Aug-33
28th Street Station Parking Garage Construction Completion	5-Dec-33

Source: VTA's BART Silicon Valley Phase II Extension Project Basis of Schedule, New Starts Entry to Engineering Revision 0, March 25, 2024

# G. Project Map





U.S. Department
of Transportation

Federal Transit
Administration

Administration

Arizona, California,
Hawaii, Nevada, Guam
American Samoa,
Northern Mariana Islands

Suite 15-300 San Francisco, CA 94103-6701 415-734-9490

90 7th Street

888 South Figueroa Street Suite 440 Los Angeles, CA 90017-5467 213-202-3950

Ms. Carolyn Gonot General Manager and Chief Executive Officer 3331 North First Street San Jose, CA 94134

Region IX

Dear Ms. Gonot:

The Federal Transit Administration (FTA) is pleased to inform you that the Santa Clara Valley Transportation Authority's (VTA) request for the Bay Area Rapid Transit (BART) Silicon Valley Phase II Extension Project (the Project) to enter the New Starts Engineering phase of the FTA Capital Investment Grants (CIG) Program is approved. This approval to initiate Engineering is a requirement of Federal transit law [49 U.S.C. 5309(g)] governing the Program.

The FTA is required by law to evaluate proposed projects against a number of criteria and ensure that prospective grant recipients demonstrate the technical, legal, and financial capability to implement the project. As a result of FTA's evaluation of the Project, an overall project rating of Medium-High was assigned.

Please note that the VTA undertakes Engineering work at its own risk, and that the Project must still progress through further steps in the CIG program to be eligible for consideration to receive CIG funding.

FTA approved a Letter of No Prejudice covering expenses VTA incurred when it started in New Starts Project Development in March 2016, through the Project's migration to the Expedited Project Development (EPD) Pilot Program, as well as for all remaining work on the project, thereby matching the pre-award authority VTA had been given while it was in the EPD Pilot Program for the estimated total project cost of \$9.318 billion.

With this Engineering approval, the VTA can continue automatic pre-award authority to incur costs for engineering activities, utility relocation, real estate acquisition, construction and other non-construction activities such as the procurement of rails, ties, commodities, and other specialized equipment. The VTA should consult with the FTA Region IX office for a determination of whether any other non-construction activity falls within the automatic preaward authority granted with the Engineering approval of the Project.

Under this extended pre-awarded authority, FTA reminds VTA that the procurement of vehicles must comply with all Federal requirements including, but not limited to, competitive procurement practices, the Americans with Disabilities Act, and the Buy America Act

Ms. Carolyn Gonot Page 2

requirements. The FTA encourages the VTA to discuss the procurement of vehicles with FTA prior to exercising the pre-award authority.

This pre-award authority does not constitute any FTA commitment that future Federal funds will be approved for the Project or for any element of the Project. As with all pre-award authority, all Federal requirements must be met prior to incurring costs in order to retain eligibility for future FTA grant assistance. Additional guidance regarding pre-award authority for the CIG Program is provided in the FTA Fiscal Year 2024 Apportionments, Allocations, and Program Information Notice, that was published in the Federal Register Notice on May 31, 2024.

#### **Local Financial Commitment**

The capital cost of the Project is estimated to be \$12,745,606,428 in year-of-expenditure dollars. The VTA is seeking \$6,296,329,575 (49.4 percent) in CIG program funds. The FTA determined that approximately 84 percent of the non-CIG capital funds are committed or budgeted.

Please be advised that the amount of CIG funding for the Project is fixed at the time of entry into Engineering. The FTA considers multiple factors when deciding on the CIG funding level that can be provided to an individual project. These factors include the size of the project and the CIG dollar amount being requested, the demand for CIG funding from other projects in the program, and the availability of funds from Congress. Although the VTA requested a 49.4 percent CIG share, FTA is notifying VTA that \$5,098,242,571 (40 percent) represents the maximum amount of CIG funds that will be provided by FTA for the Project should a Full Funding Grant Agreement (FFGA) be approved. The FTA will work with VTA during Engineering to identify appropriate annual CIG funding amounts to assume.

Prior to the Project's consideration for an FFGA, VTA must submit a revised financial plan. VTA is required by statute to secure and document all commitments of the non-CIG funding for the Project to be able to receive an FFGA. VTA must secure explicit board approval to commit 2000 Measure A and 2016 Measure B in sales tax funds to the Project beyond the timeline of the current biennial budget. In addition, without an extension in the Measure A and Measure B sales taxes, the Project runs the risk of a system-wide deficit in cash reserves shortly after the revenue service date in February 2039, therefore VTA must account for this possibility in its financial plan. Additionally, the Metropolitan Transportation Commission (MTC) needs an administrative action to release \$375 million in state TIRCP funding to VTA. The VTA and MTC must also execute an agreement regarding use of the State Transportation funds. FTA wants to bring to your attention the opportunity for Federal loans. The Build America Bureau offers several customizable credit instruments that can reduce project costs and increase flexibility.

#### Scope, Schedule, Cost, and Technical Capacity

The FTA and its Project Management Oversight Contractor (PMOC) conducted a readiness review of the Project's scope, schedule, cost, and project risks as well as VTA's technical capacity and capability to manage the project. The PMOC provided a final Readiness to Enter Engineering Review Report in May 2024. The report indicated the current cost estimate and project schedule are acceptable for a project at this phase of development. The risk and contingency review indicated the current contingency is within the acceptable range at this phase of the Project. Therefore, FTA and the PMOC found that the current cost estimate is reasonable and acceptable for a project at this phase of development.

The VTA's Project Schedule reflects a Revenue Service Date (RSD) of February 28, 2039. The FTA and PMOC's schedule review found the project schedule is sufficient for entry into Engineering. The FTA has determined that the VTA has the management capacity and capability to effectively manage the Engineering phase of the Project. However, during Engineering, the VTA must address all recommendations noted in the FTA's Readiness to Enter Engineering Review Report, which represent risks to the project cost and schedule, including the key items listed below:

- Update the Project Management Plan to reflect project advancement.
- Update the Risk and Contingency Management Plan, the Management Capacity and Capability Plan, the Real Estate Acquisition and Management Plan, the Quality Assurance/Quality Control Plan, the Operations and Maintenance Plan, the Fleet Management Plan, the Safety and Security Management Plan, and Scope documents to address PMOC comments/ recommendations.
- Execute all critical third-party agreements.

#### **Civil Rights**

Pursuant to the Civil Rights Act of 1964 and its implementing regulations, as well as FTA Circular 4702.1 (Title VI Program Guidelines for FTA Recipients, Part II, Section 114), VTA submitted an updated Title VI program on November 15, 2022. The current program remains effective through January 31, 2026.

VTA's Equal Employment Opportunity Plan was submitted on February 24, 2022. The current program remains effective through April 30, 2026.

VTA's Disadvantaged Business Enterprise program was submitted on March 18, 2021, and was approved by FTA on May 3, 2021. VTA's Project goal was submitted on August 1, 2022, and was approved by FTA on October 18, 2022.

The VTA is required to ensure that the vehicles, stations, and facilities are designed and engineered to ensure compliance with current standards for accessibility under U.S. Department of Transportation regulations implementing the transportation provisions of the

Ms. Carolyn Gonot Page 4

Americans with Disabilities Act of 1990 (ADA). VTA is advised to independently verify manufacturers' claims of ADA compliance, and to consult with FTA's Office of Civil Rights concerning ADA requirements as project construction and implementation progresses.

Information Collection and Analysis Plan

Within four months of entry into Engineering, VTA should complete the milestone activities required for the Information Collection and Analysis Plan of the Project, namely the documentation, analysis, and archiving of the predicted physical scope, capital cost, transit service levels, operating and maintenance costs, and ridership. The VTA should coordinate this work, as it is underway, with the FTA Office of Planning and Environment.

The FTA looks forward to working with VTA on the BART Silicon Valley Phase II Extension Project. For any questions, please contact Ms. Jean Mazur, Transportation Program Specialist, at jean.mazur@dot.gov or by phone at (415) 734-9456.

Sincerely,

7/31/2024

Ray Tellis

Signed by: RAYMOND SELVIN TELLIS

Regional Administrator