



BSV Phase II - Environmental Commitments Record Legend

LEGEND	Blue Text	Indicates updates since last quarterly report
	---	Indicates N/A or no update/activity is applicable to this quarterly report
	"gray row"	Indicates mitigation measure complete or N/A
	Acronyms	
	AEOC	Arena Entertainment and Operations Committee
	ARTP	Archaeological Resources Treatment Plan
	BAAQMD	Bay Area Air Quality Management District
	Caltrans	California Department of Transportation
	CEOP	Construction Education and Outreach Plan
	CHSRA	California High Speed Rail Authority
	CMP	Containment Management Plan
	COMP	Construction Outreach Management Program
	CP	Consulting Parties
	CTMP	Construction Transportation Management Plan
	CWG	Community Working Groups
	ESCP	Emergency Services Coordination
	FHA	Federal Highway Administration
	FRA	Federal Railroad Administration
	FST	Floating Slab Track
	FTA	Federal Transit Administration
	ISA	Initial Site Assessment
	IST	Isolated Slab Track
	NA	Native American
	PA	Programmatic Agreement
	RAPs	Remedial Action Plans
	ROD	Record of Decision
	RWQCB	Regional Water Quality Control Board
	SHPO	State Historic Preservation Officer
	SJRRC	San Joaquin Regional Rail Commission
	SIWC	San Jose Water Company
TCP	Traffic Control Plans	
VTA	Santa Clara Valley Transportation Authority	
Timeframe for Implementation letter codes:		
C	Construction	
D	Design	
P	Post Construction	
Responsible Party codes: VTA and/or C = Contractor		
Compliance Status letter codes:		
IC	In Compliance	
OU	Out of Compliance	
CC	Complete and Closed	
N/A	Non Applicable	

Source Document Abbreviations		
Santa Clara Valley Transportation Authority, Board of Directors		
BOD ATT-A	April 5, 2018, Board Memorandum. Attachment A-Recommended Project Description	
Supplemental Environmental Impact Statement (SEIS), Subsequent Environmental Impact Report (SEIR)		
Vol-1		Volume 1
CH-1	Chapter 1	Executive Summary
CH-2	Chapter 2	Alternatives
CH-3	Chapter 3	NEPA and CEQA Transportation Operation Analysis
CH-4	Chapter 4	NEPA Alternatives Analysis of Operations
CH-5	Chapter 5	NEPA Alternatives Analysis of Construction
CH-6	Chapter 6	CEQA Alternatives Analysis of Construction and Operation
CH-7	Chapter 7	Other NEPA and CEQA Considerations
CH-8	Chapter 8	Section 4(f) of the Department of Transportation Act of 1966
CH-9	Chapter 9	Financial Considerations
CH-10	Chapter 10	Agency and Community Participation
Vol-2		Volume 2. Responses to Comments
ROD		Federal Transit Administration Record of Decision
VTA Sustainability Practices		
VTA-Green		VTA Green Building Policy 400.004
VTA-Sust		VTA Sustainable Landscaping Policy CMA-CL-PL-7120

BSV Phase II - Environmental Commitments Record
Mitigation Monitoring & Reporting Program

Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation					2023		Quarter Mitigation Completed
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	1	MMRP-TRA-CNST-	A-01	Vol-1, ROD	Develop a Construction Education and Outreach Plan (CEOP)	Program-wide	D	C		VTA	IC	This is a summary mitigation measure. For individual components of the CEOP please refer to MMRP-TRA-CNST-A-02 through A-16, below. The CEOP was prepared in two parts, as follows: Part A: Planning Phase Part B: Construction The CEOP was added as a reference document in the VTA-CSJ and VTA-CSC Cooperative Agreements.		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	2	MMRP-TRA-CNST-	A-02	Vol-1, ROD	Establish Community Outreach Field Office	Program-wide	D	C		VTA	IC	The Santa Clara Station field office will be incorporated into the 1st floor of the 2830 De La Cruz project office. The Downtown-Diridon Field office is currently under construction in conjunction with the new VTA Downtown Service Center. It is anticipated to be opened in 2024. The search for a location for the 28th Street/Little Portugal field office is still underway.		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	3	MMRP-TRA-CNST-	A-03	Vol-1, ROD	Provide Project Hotline	Program-wide	D	C		VTA	IC	In Q4 2023, VTA maintained the public outreach phone number and email for project inquiries (English 408-321-2345, Spanish, Tagalog, Chinese, Vietnamese, Korean & Portuguese: 408-321-2300. TTY: 408-321-2330 and vtbart@vtabsv.com).		



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Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	4	- MMRP-TRA-CNST-	A-04	Vol-1, ROD	Conduct Business Operational Surveys	Program-wide	D	C		VTA	IC	VTA conducted pre-construction operational as well as access and service needs interviews for over 50 businesses, institutions and schools in the project corridor adjacent to future potential construction staging areas in Q4 2020. Coordination with new and existing businesses near expected construction areas is ongoing to prevent impacts to the businesses.		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	5	- MMRP-TRA-CNST-	A-05	Vol-1, ROD	Coordinate on Other Construction Projects	Program-wide	D	C		VTA	IC	In Q4 2023, meetings were held with City of San Jose's Arena Entertainment and Operations Committee (AEOC) on 10/12/2023, 11/10/2023, and 12/14/2023, 6 meetings with Downtown West (DTW) and Hunter Properties, 1 meeting with Holland Partners, 1 meeting with the future Diridon Intermodal Facility project, and 1 meeting with the City's Airport Connector Project.		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	6	- MMRP-TRA-CNST-	A-06	Vol-1, ROD	Engage with Stakeholders	Program-wide	D	C		VTA	IC	VTA BSVII presented to stakeholder groups in Q4 of 2023, including: the San Jose Chamber of Commerce on 12/14/23. In Q4 2023, BSVII held five (5) program-wide meetings with the City of San Jose staff on 10/2, 10/16, 10/30, 11/13, and 12/18. VTA held one in-person CWG meeting on 10/24. VTA also held 2 Santa Clara Design Review Committee Meetings (11/17, 12/8) An additional coordination meetings with SAP/Sharks staff (12/14, 12/19); 5 meetings were held with UPRR and JP8 (10/3, 10/31, 11/14, 11/28, 12/12); 2 meetings with Caltrans (10/24, 11/7); 2 meetings with SWUPV (10/10, 11/7); 3 meetings with Hunter Partners & Kier + Wright (10/18, 11/1, 11/27); 1 meeting with Cristo Rey/Five Wounds Church (10/25); 1 meeting with Friends of Caltrain (12/18) BSVII also held five (5) workshops with the City of San Jose and VTA staff to discuss design of city access facilities for the 28th Street/Little Portugal Station (held on 11/27 and 12/14), Downtown San Jose Station (12/5), Diridon Station (12/8), and a joint Downtown and Diridon Station workshop on 12/21.		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	7	- MMRP-TRA-CNST-	A-07	Vol-1, ROD	Engage Public	Program-wide	D	C		VTA	IC	VTA attended 2 Public Tabling Events (11/12, 12/3) and participated in 11 meetings related to the Five Wounds Urban Village Plan; Meetings held with potential new Community Working Group (CWG) members		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	8	- MMRP-TRA-CNST-	A-08	Vol-1, ROD	Distribute Project Information	Program-wide	D	C		VTA	IC	In Q4 2023: • 4 construction notices were issued and filed; • 59 Social Media posts were shared		

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Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	9	-- MMRP-TRA-CNST-	A-09	Vol-1, ROD	Develop Project Signage Program	Program-wide	D	C		VTA	IC			
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	10	-- MMRP-TRA-CNST-	A-10	Vol-1, ROD	Display Maps and Construction Schedule	Program-wide	D	C		VTA	IC		Construction has not begun, therefore construction schedule information has not been posted at construction sites. This measure will be implemented in future quarters.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	11	-- MMRP-TRA-CNST-	A-11	Vol-1, ROD	Display Parking and Access	Program-wide	D	C		VTA	IC		In Q4 2023, VTA continued developing a construction webpage and a construction activity map that will provide information about parking availability within each work area. In the interim VTA has published a construction noticing page to post active construction activities.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	12	-- MMRP-TRA-CNST-	A-12	Vol-1, ROD	Maintain Media Relations	Program-wide	D	C		VTA	IC		The media covered the project 56 times and VTA wrote 7 blogs in Q4 2023.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	13	-- MMRP-TRA-CNST-	A-13	Vol-1, ROD	Designate Community Outreach Personnel	Program-wide	D	C		VTA	IC		VTA designated project staff that will lead outreach within each work area and the CP2 Contractor has two Community Construction Relationship Offices (CCROs) that will be available during construction. Office hours will be established once the field offices are completed.	



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Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	14	- MMRP-TRA-CNST-	A-14	Vol-1, ROD	Promote Access to Businesses	Program-wide	D	C		VTA	IC	VTA continues to refine the Business Resource Program (BRP) which includes four elements that will identify ways VTA can help alleviate disruptions and support the business community during construction.		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	15	- MMRP-TRA-CNST-	A-15	Vol-1, ROD	Market Businesses During Construction	Program-wide	D	C		VTA	IC	VTA continues to refine the Business Resource Program (BRP) which includes four elements that will identify ways VTA can help alleviate disruptions and support the business community during construction.		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	16	- MMRP-TRA-CNST-	A-16	Vol-1, ROD	Provide Notice of Utility Outages	Program-wide	D	C		VTA	IC	---		
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	17	- MMRP-TRA-CNST-	A-17	Vol-1, ROD	Proactive Multi-Language Community Involvement	Program-wide	D	C		VTA	IC	This is a summary mitigation measure. For individual components of the Construction Education and Outreach Plan (CEOP) please refer to MMRP-TRA-CNST-A-02 through A-16, above.		



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Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	18	MMRP- TRA- CNST-	B- 01	Vol-1, ROD	Develop Construction Transportation Management Plan (CTMP)	Program-wide	D	C		VTA	IC	<p>In Q4 2023 KST developed a first draft of the Early Work Construction and Tunneling and Heavy Construction at 28th Street/Little Portugal BART Station and East Portal CTMP. The plan was developed through meetings with the City of San Jose as well as a meeting with Cristo Rey and Five Wounds National Parish (the IES Hall was unable to join). The CTMP was submitted for initial draft comments to VTA, who reviewed and returned the draft. It was ultimately determined that with potential value engineering adjustments, the CTMP would require significant revisions and would be return to VTA for review in mid February.</p> <p>In total, there were 2 meetings in Q4 2023 which focused solely on the CTMP development.</p> <p>KST's CTMP scopes for the remainder of Contract Package 2 remains as follows:</p> <ol style="list-style-type: none"> 1. West Portal Early Work Construction (Approved) 2. Downtown San Jose and Diridon Early Work Construction and Tunneling and Heavy Construction 3. West Portal Tunneling and Heavy Construction 4. East Portal and 28th St Early Work Construction and Tunneling and Heavy Construction <p>The remaining CTMPs will be developed in the order of 4, 2, and 3.</p>		

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Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	19	MMRP-TRA-CNST-	B-02	Vol-1, ROD	Develop Individual Traffic Control Plans (TCPs)	Program-wide	D	C			VTA	IC	TCPs will be developed following the finalization of the contract specific CTMPs.	
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	20	MMRP-TRA-CNST-	B-03	Vol-1, ROD	<p>Develop and Implement a Construction Transportation Management Plan: The TCPs will include site-specific requirements such as the following.</p> <ul style="list-style-type: none"> Alternative access routes where practicable and wayfinding signage for all detours affecting roadway users, including vehicular traffic, trucks and construction vehicles, bicyclists, and pedestrians. Early signage of potential construction delays for all roadway users to choose alternate routes. Minimum requirements for pedestrians and bicyclists to provide safe travel corridors within and through construction areas or provide detour routes. Coordination between VTA and transit providers as necessary prior to construction to ensure that any necessary re-routing of bus routes and temporary relocation of bus stops during construction is done to minimize impacts on bus riders. Early signage of potential transit delays for transit riders to plan trips accordingly. Notification of the Cities of San Jose and Santa Clara, business owners, residents, and key stakeholders regarding lane and road closures that would affect parking, including both off-street and on-street parking. Maps of all publicly available off-street and on-street parking that will be removed during construction. Schedule of removal of each parking area. Requirement that construction workers must park in construction staging areas or other designated areas. In addition, in coordination with city partners, VTA will work with its contractors and the cities to restore parking as construction nears completion to the extent feasible. 	Program-wide	D	C			VTA	IC	TCPs will be developed following the finalization of the contract specific CTMPs.	



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Transportation / Implement an Emergency Services Coordination Plan (ESCP)	Transportation	Implement an Emergency Services Coordination Plan (ESCP)	21	-	MMRP-TRA-CNST-C	-	Vol-1, ROD	Implement an Emergency Services Coordination Plan (ESCP)	Program-wide	D	C		VTA	IC			A cooperative agreement has been created between VTA and the Cities of San Jose and Santa Clara, and an ESCP will be created prior to construction. Adjustments to the ESCP will be implemented should they arise throughout the duration of construction. Outreach notices are kept in the VTA Salesforce program and can be provided if requested.
Transportation / Provide Temporary Replacement Parking at Diridon Station NEPA ONLY MITIGATION MEASURE	Transportation	Provide Temporary Replacement Parking at Diridon Station NEPA ONLY MITIGATION MEASURE	22	-	MMRP-TRA-CNST-D	-	Vol-1, ROD	Provide Temporary Parking at Diridon	Diridon Station		C		VTA	IC			Construction of the parking garage continues to progress and expected to be completed in Q1 2024. Operational date will be determined based on when the Diridon Construction Staging Area (CSA) will be activated.

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Transportation/ Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD)	Transportation	Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD)	23	MMRP-TRA-A	-	Vol-1, ROD	Improve Intersection at Coleman Ave. & Brokaw Rd.	TOJD; Santa Clara	C			VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Transportation/ Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD)	Transportation	Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD)	24	MMRP-TRA-B	-	Vol-1, ROD	Improve Intersection at Lafayette St. & Lewis St.	TOJD; Santa Clara	C	P		VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Transportation/ Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for TOJD)	Transportation	Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for TOJD)	25	MMRP-TRA-C	-	Vol-1, ROD	Improve Intersection at Coleman Ave. & I880 Southbound Ramps	TOJD; Santa Clara	C	P		VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	26	MMRP-AQ-CNST-	A-01	Vol-1, ROD	Implement Dust Control Measures per Bay Area Air Quality Management District (BAAQMD)	Program-wide	C			VTA/C	IC	This is a summary measure, and has been applied as shown in the mitigation measures MMRP-AQ-CNST-A-02 through A-15 below.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	27	MMRP-AQ-CNST-	A-02	Vol-1, ROD	Implement Dust Control Measures: The contractor will water all exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, unpaved access roads) two times per day or as needed to control dust. In times of drought, an effective combination of dust controls may be used in lieu of watering, such as soil binders/stabilizers, or watering may be used to form a crust on undisturbed areas.	Program-wide	C			VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.		

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	28	- MMRP-AQ- CNST-	A-03	Vol-1, ROD	Maintain Soil Moisture Content	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	29	- MMRP-AQ- CNST-	A-04	Vol-1, ROD	Cover or Moisten Haul Trucks	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	30	- MMRP-AQ- CNST-	A-05	Vol-1, ROD	Use Wet Power Vacuum Street Sweepers	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	31	- MMRP-AQ- CNST-	A-06	Vol-1, ROD	Limit Vehicle Speed	Program-wide	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No unpaved roads were utilized in Q4 2023. Therefore, this measure will be implemented in future quarters.</p>			
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	32	- MMRP-AQ- CNST-	A-07	Vol-1, ROD	Complete Paving ASAP	Program-wide	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: There were no paving operations in Q4 2023. Therefore this measure will be implemented in future quarters.</p>			
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	33	- MMRP-AQ- CNST-	A-08	Vol-1, ROD	Post Signage Regarding Dust Complaints	Program-wide	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No publicly visible signs have been posted as no construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>			

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	34	- MMRP-AQ- CNST-	A-09	Vol-1, ROD	Suspend Earth Moving Activities When Windy	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	35	- MMRP-AQ- CNST-	A-10	Vol-1, ROD	Install Windbreaks	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	36	- MMRP-AQ- CNST-	A-11	Vol-1, ROD	Plant Vegetation ASAP	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	37	- MMRP-AQ- CNST-	A-12	Vol-1, ROD	Phase Ground-Disturbing Activities	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	38	- MMRP-AQ- CNST-	A-13	Vol-1, ROD	Use Construction Entrances/Exits	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	39	- MMRP-AQ- CNST-	A-14	Vol-1, ROD	Install Sediment and Erosion Control Devices	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023, therefore no erosion or sediment controls were installed. This measure will be applied in future quarters as necessary.</p>



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	40	-	MMRP-AQ-CNST-15	Vol-1, ROD	Control Dust During Operation of Concrete Batch Plants	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: For Q4 2023, construction or operation of concrete batch plants has not commenced, therefore this measure will be implemented in future quarters.</p>
Air Quality/ Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines	Air Quality	Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines	41	-	MMRP-AQ-CNST-B	Vol-1, ROD	Use U.S. Environmental Protection Agency (EPA) Tier 4 or Cleaner Engines	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 57 00 Temporary Controls. No construction activities took place in Q4 2023. This measure will be enforced during heavy construction activities.</p>
Air Quality/ Maintain Construction Equipment	Air Quality	Maintain Construction Equipment	42	-	MMRP-AQ-CNST-C	Vol-1, ROD	Maintain Construction Equipment	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Air Quality/ Minimize Idling Times	Air Quality	Minimize Idling Times	43	- MMRP-AQ-CNST-D	-	Vol-1, ROD	Minimize Idling Times	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Use Equipment Meeting ARB Certification Standards	Air Quality	Use Equipment Meeting ARB Certification Standards	44	- MMRP-AQ-CNST-E	-	Vol-1, ROD	Use Equipment Meeting Air Resources Board (ARB) Certification Standards	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Air Quality/ Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards	Air Quality	Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards	45	- MMRP-AQ-CNST-F	-	Vol-1, ROD	Ensure Diesel Trucks Comply with U.S. Environmental Protection Agency (EPA) Emissions Standards	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Air Quality/ Use Low-Sulfur Fuel	Air Quality	Use Low-Sulfur Fuel	46	- MMRP-AQ-CNST-G	-	Vol-1, ROD	Use Low-Sulfur Fuel	Program-wide	C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>	
Air Quality/ Locate Construction Areas Away from Sensitive Receptors	Air Quality	Locate Construction Areas Away from Sensitive Receptors	47	- MMRP-AQ-CNST-H	-	Vol-1, ROD	Locate Construction Away from Sensitive Receptors	Program-wide	C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>	
Air Quality/ Use Low-Volatile Organic Compound (VOC) Coatings	Air Quality	Use Low-Volatile Organic Compound (VOC) Coatings	48	- MMRP-AQ-CNST-I	-	Vol-1, ROD	Use Low-Volatile Organic Compound (VOC) Coatings	Program-wide	C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 74 Sustainability Requirements. No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4	
Biological Resources and Wetlands/ Avoid Nesting Bird Season	Biological Resources and Wetlands	Avoid Nesting Bird Season	49	- MMRP-BIO-CNST-A	-	Vol-1, ROD	Avoid Nesting Bird Season	Program-wide		C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>	
Biological Resources and Wetlands/ Conduct Preconstruction/Predisturbance Surveys for Nesting Birds	Biological Resources and Wetlands	Conduct Preconstruction/Predisturbance Surveys for Nesting Birds	50	- MMRP-BIO-CNST-B	-	Vol-1, ROD	Conduct Preconstruction/Predisturbance Surveys for Nesting Birds	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	51	- MMRP-BIO-CNST-C-01	-	Vol-1, ROD	<p>Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Trees: If tree removal or trimming cannot be conducted between September 15 and October 30, qualified biologists will examine trees for suitable bat-roosting habitat before tree removal or trimming.</p> <p>The biologists will identify high-quality habitat features (e.g., large tree cavities, basal hollows, loose or peeling bark, larger snags, palm trees with intact thatch) and search the area around these features for bats and bat signs (e.g., guano, culled insect parts, staining). Riparian woodland, orchards, and stands of mature broadleaf trees are considered potential habitat for solitary foliage-roosting bat species. Because signs of bat use are not easily found, and trees cannot be completely surveyed for bat roosts, VTA will implement the protective measures listed below (in MMRP-BIO-CNST-C-02 through C-06) for trees containing high-quality habitat features.</p>	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Construction activities in Q4 2023 included the removal of two Washington fan palms (<i>Washingtonia robusta</i>) at the Newhall Maintenance Yard. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.</p>	



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	52	- MMRP- BIO- CNST	C- 02	Vol-1, ROD	No Disturbance to Bat Roosting Trees Between April 1 and September 15	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.</p>	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	53	- MMRP- BIO- CNST	C- 03	Vol-1, ROD	Remove Bat Roosting Trees between September 15 and October 30	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.</p>	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	54	- MMRP- BIO- CNST	C- 04	Vol-1, ROD	Remove Trees in Pieces	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. Trees were felled in pieces and removed from the site. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.</p>	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	55	- MMRP- BIO- CNST	C-05	Vol-1, ROD	Ensure Maternity Roost is Undisturbed until September 15	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.</p>	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	56	- MMRP- BIO- CNST	C-06	Vol-1, ROD	Biologists to Monitor Tree Removal	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. A qualified biologist performed a survey on 10/31/2023 and inspected the area for signs of bat use and high-quality habitat. No signs of bats, bat use, or high-quality habitat was observed within the trees or in the surrounding area, therefore tree removal was cleared to proceed. Biologist report can be found on the project sharepoint in folder 051-068_MMRP_BIO-CNST-C01-C18 Bats.</p>	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	57	- MMRP- BIO- CNST	C-07	Vol-1, ROD	Conduct Roosting Bat Surveys at Buildings	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 71 Biological Resources Requirements.</p> <p>No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.</p>	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	58	- MMRP- BIO- CNST	C-08	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	59	- MMRP- BIO- CNST	C-09	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	60	- MMRP- BIO- CNST	C-10	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	61	- MMRP- BIO- CNST	C- 11	Vol-1, ROD	Conduct Follow-Up Roosting Bat Surveys at Buildings	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	62	- MMRP- BIO- CNST	C- 12	Vol-1, ROD	Install Bat Roosting Exclusion Measures	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	63	- MMRP- BIO- CNST	C- 13	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	64	- MMRP- BIO- CNST	C-14	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	65	- MMRP- BIO- CNST	C-15	Vol-1, ROD	No Building Demolition While Bats Are Present	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	66	- MMRP- BIO- CNST	C-16	Vol-1, ROD	Only Remove Roosting Building Habitat Prior to Hibernation	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4			
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	67	- MMRP- BIO- CNST	C-17	Vol-1, ROD	Install Roosting Bat Exclusion Devices	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.			
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	68	- MMRP- BIO- CNST	C-18	Vol-1, ROD	Provide Compensatory Mitigation for Roosting Bat Habitat	Program-wide	D	C		VTA/C	IC	No buildings were removed or demolished in Q4 2023, therefore this measure will be implemented in future quarters.			
Biological Resources and Wetlands/ Protect Riparian Habitat	Biological Resources and Wetlands	Protect Riparian Habitat	69	- MMRP- BIO- CNST- D		Vol-1, ROD	Protect Riparian Habitat Contractors will not use night lighting for construction activities and staging in the riparian area.	Guadalupe River ; Los Gatos creek		C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction occurred near Guadalupe River and Los Gatos Creek in Q4 2023, therefore this measure will be implemented in future quarters.			
Biological Resources and Wetlands/ Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	Biological Resources and Wetlands	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	70	- MMRP- BIO- CNST-E		Vol-1, ROD	Conduct Preconstruction Tricolored Blackbird Nesting Surveys A qualified biologist will conduct a field investigation to identify and map potential nesting substrate. Nesting substrate generally includes flooded, thorny, or spiny vegetation (e.g., cattails, bulrushes, willows, blackberries, thistles, or nettles). If potential nesting substrate is found, VTA may revise the construction staging areas to avoid all areas within a 250-foot buffer around the potential nesting habitat, and biologists will conduct appropriate surveys. If VTA chooses not to avoid the potential nesting habitat and the 250-foot buffer, biologists will conduct additional nesting surveys.	N/A	N/A	N/A	N/A	N/A	N/A	N/A - See 2018 for Documentation	N/A		

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Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	71	- MMRP-BIO-CNST-F-01	Vol-1, ROD	Implement Burrowing Owl Measures	Newhall Maintenance Facility	D	C		VTA/C	IC	This is a summary mitigation measure; please refer to the following measures MMRP-BIO-CNST-F-02 to F-15 related to burrowing owls for the breeding and non-breeding season, respectively. Note that these measures only apply at the Newhall Maintenance Facility, which is the only area on the project with burrowing owl habitat.			
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	72	- MMRP-BIO-CNST-F-02	Vol-1, ROD	Conduct Preconstruction Burrowing Owl Surveys To maximize the likelihood of detecting owls, the preconstruction survey will last a minimum of 3 hours. The survey will begin 1 hour before sunrise and continue until 2 hours after sunrise (3 hours total) or begin 2 hours before sunset and continue until 1 hour after sunset. Additional time may be required at large construction sites. The biologist will conduct a minimum of two surveys (if owls are detected on the first survey, a second survey is not needed). The biologist will count all owls observed and map their location. Surveys will conclude no more than 2 calendar days prior to construction. Therefore, the project proponent must begin surveys no more than 4 days prior to construction (2 days of surveying plus up to 2 days between surveys and construction). To avoid last minute changes in schedule or contracting that may occur if burrowing owls are found, VTA may also conduct a preliminary survey up to 14 days before construction. This preliminary survey may count as the first of the two required surveys as long as the second survey concludes no more than 2 calendar days in advance of construction.	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.			
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	73	- MMRP-BIO-CNST-F-03	Vol-1, ROD	Avoid Burrowing Owls During Breeding Season If evidence of burrowing owls is found during the breeding season (February 1–August 31), VTA will avoid all nest sites that could be disturbed by construction during the remainder of the breeding season or while the nest is occupied by adults or young (occupation includes individuals or family groups foraging on or near the site following fledging). Avoidance will include establishment of a 250-foot non-disturbance buffer zone around nests. Construction may occur outside of the 250-foot non-disturbance buffer zone.	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.			
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	74	- MMRP-BIO-CNST-F-04	Vol-1, ROD	Construction Inside 250-foot Owl Buffer • The nest is not disturbed, and • VTA develops an avoidance, minimization, and monitoring plan that will be reviewed by CDFW, USFWS, and SCVHA prior to construction based on the following criteria (MMRP-BIO-CNST-F-05 through F-09):	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.			
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	75	- MMRP-BIO-CNST-F-05	Vol-1, ROD	Owl Avoidance and Minimization Plan Approval CDFW, USFWS, and the SCVHA approves the avoidance and minimization plan provided by VTA. CDFW, USFWS, and SCVHA will have 21 calendar days to respond to a request from VTA to review the proposed construction monitoring plan. If these parties do not respond within 21 calendar days, it will be presumed that they concur with the proposal and work can commence.	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.			
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	76	- MMRP-BIO-CNST-F-06	Vol-1, ROD	Determine Baseline Owl Behavior A qualified biologist monitors the owls for at least 3 days prior to construction to determine baseline nesting and foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.			

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Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	77	MMRP-BIO-CNST-07	F-07	Vol-1, ROD	Survey Owl Behavior During Construction	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	78	MMRP-BIO-CNST-08	F-08	Vol-1, ROD	Cease Construction if Owl Behavior Changes	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	79	MMRP-BIO-CNST-09	F-09	Vol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	80	MMRP-BIO-CNST-10	F-10	Vol-1, ROD	Establish Buffers Around Occupied Burrows	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	81	MMRP-BIO-CNST-11	F-11	Vol-1, ROD	Determine Baseline Owl Behavior	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	82	MMRP-BIO-CNST-12	F-12	Vol-1, ROD	Survey Owl Behavior During Construction	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	83	MMRP-BIO-CNST-13	F-13	Vol-1, ROD	Cease Construction if Owl Behavior Changes	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1–January 31)	84	MMRP-BIO-CNST-14	F-14	Vol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		

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Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1-January 31) Construction Monitoring	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1-January 31)	85	MMRP-BIO-CNST-F-15	Vol-1, ROD	Maintain Non-Disturbance Owl Buffer Zones	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1-January 31) Construction Monitoring Based on the avoidance, minimization, and monitoring plan developed (as required above), during construction, VTA will establish and maintain the non-disturbance buffer zones if applicable. A qualified biologist will monitor the site consistent with the requirements described above to ensure that buffers are enforced and owls are not disturbed. The biological monitor will also conduct training of construction personnel on the avoidance procedures, buffer zones, and protocols in the event that a burrowing owl flies into an active construction zone.	Newhall Maintenance Facility	D	C		VTA/C	IC		Geotechnical boring commenced in Q4 2023 at the West Portal location. Burrowing owl surveys were conducted on 11/10 and 11/13. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		
Cultural Resources/ Implement Programmatic Agreement and Archaeological Resources Treatment Plan	Cultural Resources	Implement Programmatic Agreement and Archaeological Resources Treatment Plan	86	MMRP-CUL-CNST-A	Vol-1, ROD	Implement Programmatic Agreement (PA) and Archaeological Resources Treatment Plan (ARTP)	Implement Programmatic Agreement (PA) and Archaeological Resources Treatment Plan (ARTP): A Programmatic Agreement (PA) and a supporting Archaeological Resources Treatment Plan (ARTP) have been developed and will be executed in consultation with interested Native Americans, the California State Historic Preservation Officer (SHPO), the Advisory Council on Historic Preservation, the California Department of Transportation (Caltrans) District 4, the Cities of San Jose and Santa Clara, the Peninsula Corridor Joint Powers Board, and the South Bay Historical Railroad Society. The PA and ARTP will be implemented prior to and during construction of the BART Extension. The ARTP specifies the National Register of Historic Places criteria applicable for evaluation, procedures to implement the Section 106 process in the field, and standards of evaluation that will be appropriate given the locations and kinds of cultural properties predicted. The ARTP presents methods that combine pre-testing where possible (i.e., on open lots or undeveloped lands); testing after demolition of extant structures but before new ground-disturbing construction begins; construction-phase monitoring where appropriate; and standards for data recovery. Areas within the Area of Potential Effects (APE) where potential resources have been identified, or that are designated as highly sensitive for buried resources, will be field investigated, concentrating on, but not confined to, the area of direct effect. The ARTP meets The Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (U.S. Department of the Interior, National Park Service, 1983, as amended and annotated).	Program-wide	D	C		VTA	IC		VTA is implementing the Archaeological Resources Treatment Plan (ARTP). Results will be reported to all Consulting Parties (CPs) to the Programmatic Agreement (PA) Annual Report. In Q4 2023, archaeological planning and investigations are ongoing.		
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	87	MMRP-GEO-CNST-A-01	Vol-1, ROD	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: If BART Extension stations, system facilities, or portions of the alignment are determined to be in areas exceeding pertinent codes and standards including the California Building Code and BART Facilities Standards Design Criteria for liquefaction, VTA will implement the following methods (MMRP-GEO-CNST-A-01 through A-06) during construction to minimize the potential impacts. VTA will determine the exact methods to reduce impacts from liquefaction during final engineering.	Program-wide	D	C	P	VTA/C	IC		This measure has been applied as seen in the mitigation measures MMRP-GEO-CNST-A-01 through A-06 below.		
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	88	MMRP-GEO-CNST-A-02	Vol-1, ROD	Use Pile Foundations as a Means of Ground Densification	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • VTA may use pile foundations or equivalent measures as a means of ground densification as a cost-effective mitigation measure for the seismic liquefaction hazard. (Also see MMRP-GEO-CNST-A-06).	Program-wide	D	C	P	VTA/C	IC		The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.		

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Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	89	-	MMRP-GEO-CNST-A-03	Vol-1, ROD	Support Parking Garages on Piles	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.		
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	90	-	MMRP-GEO-CNST-A-04	Vol-1, ROD	Integrate Subgrade Improvements for Shallow Foundations	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.		
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	91	-	MMRP-GEO-CNST-A-05	Vol-1, ROD	Mitigate Liquefaction-Related Uplift of Underground Facilities	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.		

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Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	92	MMRP-GEO-CNST-A-06	Vol-1, ROD	Consider Other Liquefaction Hazard Mitigation Measures		Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for liquefaction hazards is underway.		
Geology, Soils, and Seismicity/ Implement Preconstruction and Post-construction Building Condition Surveys for Settlement	Geology, Soils, and Seismicity	Implement Preconstruction and Post-construction Building Condition Surveys for Settlement	93	MMRP-GEO-CNST-B-01	Vol-1, ROD	Conduct Preconstruction Building Condition Surveys	<p>Implement Preconstruction and Post-construction Building Condition Surveys for Settlement: VTA will conduct preconstruction building condition surveys of the interiors and exteriors of select structures, both historic and non-historic buildings, within the settlement trough along the tunnel alignment and within the limit of influence around the cut-and-cover excavations to assess the baseline condition of each property that could be affected by project-induced settlement. These surveys will include written and photographic (video and still) records, including written descriptions and photos of any cracks. VTA will also conduct post-construction building condition surveys of the same structures. VTA will compare the results of these surveys with the preconstruction condition surveys so that any construction-related effects of tunneling and cut-and-cover construction on structures can be assessed.</p> <p>For the cut-and-cover activities, surveys will be performed prior to any construction in the cut-and-cover work area to establish the baseline building condition. For construction of the tunnel via Tunnel Boring Machine (TBM), surveys will be performed as close to the planned dates of tunneling as possible so that the results are as current as possible. Therefore, surveys will be performed prior to passage of the TBMs, with some surveys conducted once tunneling has commenced.</p>	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: VTA did not perform surveys at any properties in Q4 2023.		
Geology, Soils, and Seismicity/ Implement Preconstruction and Post-construction Building Condition Surveys for Settlement- Historic Buildings	Geology, Soils, and Seismicity	Implement Preconstruction and Post-construction Building Condition Surveys for Settlement- Historic Buildings	94	MMRP-GEO-CNST-B-02	Vol-1, ROD	Prepare Condition Assessment Reports for Historic Buildings	<p>Implement Preconstruction and Post-construction Building Condition Surveys for Settlement- Historic Buildings: For historic structures, the Condition Assessment Report, in accordance with Section 106, will be prepared along with the preconstruction building condition surveys. Results will be used by a structural engineer in coordination with the historic Qualified Professional (QP) to identify structural settlement thresholds for each historic structure prior to construction. If anticipated maximum settlement due to tunneling or cut-and-cover activities would cause more than cosmetic damage, then ground treatment technologies outlined in Section 5.3.1.4, Ground Treatment, will be employed to further reduce settlement to within building-specific structural settlement thresholds. In the event of inadvertent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic QP will implement these repairs in consultation with FTA and SHPO.</p> <p>For historic structures, surveys prior to either cut-and-cover or tunneling will be performed enough in advance of the construction to allow adequate time for any necessary ground treatment that may be required to reduce settlement to be performed.</p>	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: VTA did not perform surveys at any historic properties in Q4 2023.		
Geology, Soils, and Seismicity/ Monitor Ground Surface during Tunneling Activities	Geology, Soils, and Seismicity	Monitor Ground Surface during Tunneling Activities	95	MMRP-GEO-CNST-C	Vol-1, ROD	Monitor Ground Surface During Tunneling Activities	<p>Monitor Ground Surface during Tunneling Activities: The contractor will conduct ground surface monitoring prior to and after tunneling by licensed land surveyors. The contractor will mount survey monitoring points on potentially affected structures and representative historic buildings, including the most susceptible structures, select utilities susceptible to settlement, and in representative locations immediately adjacent to streams within the settlement trough along the tunnel alignment to monitor ground movements and effects of tunnel boring. The contractor must obtain approval from VTA and the historic QP to install any monitoring devices or crack gauges on or in historic buildings that require alteration of the building. The contractor will provide settlement monitoring data to VTA immediately upon completion of the field survey and use the data to assist in minimizing adverse effects along the tunnel alignment.</p>	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because underground tunnels and stations construction has not commenced.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Geology, Soils, and Seismicity/ Monitor Settlement Effects around Cut-and-Cover Excavations	Geology, Soils, and Seismicity	Monitor Settlement Effects around Cut-and-Cover Excavations	96	MMRP- GEO- CNST- D	-	Vol-1, ROD	Monitor Settlement Effects around Cut-and-Cover Excavation	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because underground tunnels and stations construction has not commenced.		
Geology, Soils, and Seismicity/ Implement Preconstruction Condition Surveys for Utilities	Geology, Soils, and Seismicity	Implement Preconstruction Condition Surveys for Utilities	97	MMRP- GEO- CNST-E	-	Vol-1, ROD	Implement Preconstruction Condition Surveys for Utilities: The contractor will conduct preconstruction condition surveys of utilities deemed to be potentially at risk due to surface settlement or ground movement at BART Extension and TOD sites. The contractor will monitor major utilities deemed to be at risk during construction and will coordinate with utility providers prior to installation of utility monitoring points.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because underground tunnels and stations construction has not commenced.		
Geology, Soils, and Seismicity/ Minimize Excavation Bottom Failure Impacts	Geology, Soils, and Seismicity	Minimize Excavation Bottom Failure Impacts	98	MMRP- GEO- CNST-F	-	Vol-1, ROD	Minimize Excavation Bottom Failure Impacts: If excavation bottom fails due to bottom heave, piping, or blow-out, the contractor will implement the following measures. • Remove water found in the pervious sand layer via dewatering. • Install deep sheeting. The sheet pile may also function as a cut-off to prevent sand boiling at the bottom of excavation due to excessive hydrostatic pressure within the loose soils. • Based on the boring data, encountering of the loose soils at the foundation subgrade may be anticipated at isolated locations for excavation of the stations. Deeper shoring may be required to penetrate through the aquifer to prevent the occurrence of the sand boiling condition. Deep soil mixing may have to be considered under this condition if drivability of the shoring sheet pile through the dense to very dense sand at depths is a geotechnical concern due to the vibration and/or noise impact on the surrounding environment.	Program-wide	D	C	P	VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because underground tunnels and stations construction has not commenced.		
Geology, Soils, and Seismicity/ Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	Geology, Soils, and Seismicity	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	99	MMRP- GEO- CNST-G	-	Vol-1, ROD	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade: In areas where clay and saturated sand deposits are sufficiently disturbed during construction activities at the bottom of an excavation and soft and loose saturated soil deposits are encountered, VTA will ensure that the contractor constructs a working platform as described below. • Over-excavate 18 inches below the native subgrade. • Place a stabilizing geotextile fabric or a geogrid at the bottom of the over-excavation. • Backfill the over-excavation with Class 2 Aggregate Base, Structural Backfill, or other bridging material. • Overlap the ends of the geotextile fabric on top of the bridging material for a minimum distance of 2 feet.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design for minimization for disturbance of sensitive deposits is underway.		
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Expansive Soils	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Expansive Soils	100	MMRP- GEO- CNST-H	-	Vol-1, ROD	Incorporate Design Specifications to Minimize Effects from Expansive Soils: VTA will ensure that the following specifications are incorporated into the BART Extension's final design when encountering expansive soils. • Deepen foundations to below the zone of moisture fluctuation. • Use mat foundations that are designed to resist the deflections associated with expansive soil. • Design perimeter footings to a minimum depth of 24 inches below the lowest adjacent grade to reduce the impact from the uplift pressure in expansive soils. • For any expansive soil in the upper 18 inches of building pads, lime treat or replace with low to non-expansive soil with a Plasticity Index of 12 or less. • Use moisture barriers to minimize the variation of change in the moisture content within the expansive soil.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q4 2023, design to minimize effects from expansive soils is underway.		
Geology, Soils, and Seismicity/ Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action	Geology, Soils, and Seismicity	Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action	101	MMRP- GEO- CNST-I	-	Vol-1, ROD	Stop Construction if Paleontological Resources are Discovered and Determine Appropriate Action: If suspected paleontological resources are encountered during grading and site preparation activities, the contractor will halt all work in the immediate vicinity of the find until a qualified paleontologist can evaluate the find and make recommendations. Paleontological resource materials may include resources such as fossils, plant impressions, or animal tracks preserved in rock. If the qualified paleontologist determines that the discovery represents a potentially significant paleontological resource, additional investigations and fossil recovery may be required to mitigate adverse impacts from implementation of the BART Extension. Construction will not resume until the resource-appropriate measures are recommended or the materials are determined to be not significant.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.		
Greenhouse Gas Emissions/ Implement Energy Efficiency Measures (for TOD)	Greenhouse Gas Emissions	Implement Energy Efficiency Measures (TOD)	102	MMRP- GHG-A	-	Vol-1, ROD	Implement Energy Efficiency Measures (for TOD): TOD energy efficiency shall be 15 percent better than the 2013 Title 24, Part 11 requirements or shall meet the Title 24, Part 11 requirements that are applicable at the time of issuance of the building permits for individual phases, whichever is more stringent.	TOD		C		VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Greenhouse Gas Emissions/ Participate in Food Waste Programs (for TOJD)	Greenhouse Gas Emissions	Participate in Food Waste Programs (TOJD)	103	- MMRP-GHG-B	-	Vol-1, ROD	Participate in Food Waste Programs (TOJD)	TOJD			P	VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Greenhouse Gas Emissions/ Utilize Electrical Landscaping Equipment (for TOJD)	Greenhouse Gas Emissions	Utilize Electrical Landscaping Equipment (TOJD)	104	- MMRP-GHG-C	-	Vol-1, ROD	Utilize Electrical Landscaping Equipment (TOJD)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles (for TOJD)	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD)	105	- MMRP-GHG-	D-01	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOJD Residential Use	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	106	- MMRP-GHG-	D-02	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOJD Commercial Use	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	107	- MMRP-GHG-D	D-03	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Hazardous Materials/ Prepare Remedial Action Plans	Hazardous Materials	Prepare Remedial Action Plans	108	- MMRP-HAZ-CNST-A	-	Vol-1, ROD	Prepare Remedial Action Plans	Project wide	D				IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.		
Noise and Vibration/ Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	Noise and Vibration	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	109	- MMRP-NV-CNST-A	-	Vol-1, ROD	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	Project wide	D	C			IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Section 01 81 20 Noise and Vibration Control has been included in the project specifications and is provided in all bid documents.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Noise and Vibration/ Locate Equipment as Far as Feasible from Sensitive Sites	Noise and Vibration	Locate Equipment as Far as Feasible from Sensitive Sites	110	-	MMRP-NV-CNST-B	Vol-1, ROD	Locate Equipment as Far as Feasible from Sensitive Sites	Project wide		C				IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration /Construct Temporary Noise Barriers	Noise and Vibration	Construct Temporary Noise Barriers	111	-	MMRP-NV-CNST-C	Vol-1, ROD	Construct Temporary Noise Barriers	Project wide; 28TH Street/Little Portugal (Alum Rock)	D	C				IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Operate Equipment to Minimize Annoying Noise and Vibration	Noise and Vibration	Operate Equipment to Minimize Annoying Noise and Vibration	112	-	MMRP-NV-CNST-D	Vol-1, ROD	Operate Equipment to Minimize Annoying Noise and Vibration	Program-wide		C		VTA/C		IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Route Construction Trucks along Truck Routes Least Disturbing to Residents	Noise and Vibration	Route Construction Trucks along Truck Routes Least Disturbing to Residents	113	-	MMRP-NV-CNST-E	Vol-1, ROD	Route Construction Trucks along Truck Routes Least Disturbing to Residents	Program-wide		C		VTA/C		IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Contractor has begun drafting a Construction Transportation Management Plan (CTMP) and is coordinating with City and County officials to reduce construction-related traffic and minimize disturbance to residents. No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Secure Steel and Concrete Plates over Excavated Holes and Trenches	Noise and Vibration	Secure Steel and Concrete Plates over Excavated Holes and Trenches	114	-	MMRP-NV-CNST-F	Vol-1, ROD	Secure Steel and Concrete Plates over Excavated Holes and Trenches	Program-wide		C		VTA/C		IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Steel plates from the construction activities completed in Q2 2023 have been removed during Q4 2023 at the Downtown San Jose Primary Headhouse.	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Noise and Vibration/ Use Best Available Practices to Reduce Noise and Vibration	Noise and Vibration	Use Best Available Practices to Reduce Noise and Vibration	115	- MMRP-NV-CNST-G	-	Vol-1, ROD	Use Best Available Practices to Reduce Noise and Vibration	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Noise and Vibration/ Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible	Noise and Vibration	Adhere to Local Jurisdiction Construction Time Periods, to the Extent Feasible	116	- MMRP-NV-CNST-H	-	Vol-1, ROD	Adhere to Local Jurisdiction Construction Time Periods	Program-wide		C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No construction activities took place in Q4 2023. This measure will be applied in future quarters as necessary.</p>
Noise and Vibration/ Perform Preconstruction Ambient Noise Measurements at All CSAs	Noise and Vibration	Perform Preconstruction Ambient Noise Measurements at All CSAs	117	- MMRP-NV-CNST-I	-	Vol-1, ROD	Perform Preconstruction Ambient Noise Measurements at Construction Staging Areas (CSA)	Program-wide		D		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because construction on tunnel portals, stations, and ventilation sites has not commenced.</p>

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4			
Noise and Vibration/ Implement a Construction Noise Control and Monitoring Plan	Noise and Vibration	Implement a Construction Noise Control and Monitoring Plan	118	- MMRP-NV-CNST-J	-	Vol-1, ROD	Implement a Construction Noise Control and Monitoring Plan	Program-wide	D	C		VTA/C	IC			<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.B.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control.</p> <p>The measure did not apply in Q4 2023 because construction has not commenced, and will be applied in future quarters as necessary.</p>	
Noise and Vibration/ Require Minimum Qualifications for the Acoustical Engineer	Noise and Vibration	Require Minimum Qualifications for the Acoustical Engineer	119	- MMRP-NV-CNST-K	-	Vol-1, ROD	Require Minimum Qualifications for the Acoustical Engineer	Program-wide	D	C		VTA/C	IC		<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: In Q4 2022, the CP-2 contractor submitted the qualifications of an Acoustical Engineer in accordance with this measure.</p>		
Noise and Vibration/ Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan	Noise and Vibration	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan	120	- MMRP-NV-CNST-L	-	Vol-1, ROD	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Plan	Program-wide		C		VTA/C	IC		<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No noise generating equipment was operated in Q4 2023 as construction has not commenced.</p>		
Noise and Vibration/ Install Long-Term Noise Monitors at CSAs during all Construction Phases	Noise and Vibration	Install Long-Term Noise Monitors at CSAs during all Construction Phases	121	- MMRP-NV-CNST-M-01	M-01	Vol-1, ROD	Install Stationary Long-Term Noise Monitors at Construction Staging Areas (CSA)	Program-wide	D	C		VTA/C	IC		<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: No long-term noise monitors were required in Q4 2023 as construction has not commenced.</p>		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Noise and Vibration/ Install Long-Term Noise Monitors at CSAs during all Construction Phases	Noise and Vibration	Install Long-Term Noise Monitors at CSAs during all Construction Phases	122	-	MMRP-NV-CNST-M-02	Vol-1, ROD	Conduct Weekly Noise Sampling with Hand-Held Monitors	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No long-term noise monitors were required in Q4 2023 as construction has not commenced.		
Noise and Vibration/ Ensure Equipment is Pre-certified to Meet Noise Limits	Noise and Vibration	Ensure Equipment is Pre-certified to Meet Noise Limits	123	-	MMRP-NV-CNST-N	Vol-1, ROD	Ensure Equipment is Pre-certified to Meet Noise Limits	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No major equipment was used in Q4 2023 because construction utilizing major equipment has not commenced.		
Noise and Vibration/ Implement a Complaint Resolution Procedure	Noise and Vibration	Implement a Complaint Resolution Procedure	124	-	MMRP-NV-CNST-O	Vol-1, ROD	Implement a Noise and Vibration Complaint Resolution Procedure	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because the contractor has not commenced construction.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q4		
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	125	- MMRP-NV-CNST-	P-01	Vol-1, ROD	Prepare a Construction Vibration Control and Monitoring Plan	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.B.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control.</p> <p>The contractor has not installed construction monitoring equipment in Q4 2023 as construction has not commenced.</p>		
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	126	- MMRP-NV-CNST-	P-02	Vol-1, ROD	Halt Construction if Levels Exceed Allowable Vibration Limits	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control. The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.B.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control.</p> <p>The contractor has not conducted vibration monitoring in Q4 2023 as construction has not commenced.</p>		
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	127	- MMRP-NV-CNST-	P-03	Vol-1, ROD	Do Not Exceed the FTA Construction Vibration Damage Criteria	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control. The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.B.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control.</p> <p>The contractor has not conducted vibration monitoring in Q4 2023 as construction has not commenced.</p>		

BSV Phase II - Environmental Commitments Record
Mitigation Monitoring & Reporting Program

Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation					2023 Q4	Quarter Mitigation Completed
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	128	MMRP-NV-CNST-P-04	Vol-1, ROD	Measure Building Vibration In Vertical Direction and Utilities In Accordance with Meter Instructions For non-historic structures, if construction vibration exceeds the structural or nuisance threshold, the contractor must stop construction and adjust construction methods to meet appropriate vibration limits so that the threshold is not exceeded again.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control. The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.B.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control. The contractor has not conducted vibration monitoring in Q4 2023 as construction has not commenced.		
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan- Historic structures	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan- Historic structures	129	MMRP-NV-CNST-P-05	Vol-1, ROD	Notify Qualified Professional (QP) if Historic Building Construction Vibration Approaches Threshold In the event of inadvertent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic QP will implement these repairs in consultation with FTA and SHPO.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control. The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.B.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control. The contractor has not conducted vibration monitoring at historic structures in Q4 2023 as construction has not commenced.		
Noise and Vibration/ Perform Vertical Direction Vibration Monitoring	Noise and Vibration	Perform Vertical Direction Vibration Monitoring	130	MMRP-NV-CNST-Q	Vol-1, ROD	Perform Vertical Direction Vibration Monitoring Perform Vertical Direction Vibration Monitoring	Program-wide		C		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Monitoring Plan was submitted in Q1 2023 and requires continuous vertical direction vibration monitoring during muck extraction. Vertical direction vibration monitoring was not performed in Q4 2023 as construction has not commenced. This measure was not implemented in Q4 2023 because construction, including muck extraction, has not yet commenced.		
Noise and Vibration/ Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration	Noise and Vibration	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration	131	MMRP-NV-CNST-R-01	Vol-1, ROD	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No preconstruction building condition surveys were performed in Q4 2023. This measure will be implemented in future quarters as necessary.		

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Noise and Vibration/ Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration- Historic Buildings	Noise and Vibration	Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration- Historic Buildings	132	- MMRP- NV- CNST-	R- 02	Vol-1, ROD	Prepare Condition Assessment Reports for Historic Buildings	Program-wide	D	C	P	VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: VTA received Condition Assessment Reports (CARs) for 5 locations in Q1 2023. In Q4 2023, VTA conducted surveys at 3 historic properties, and preparation of the Condition Assessment Reports (CAR) are in the process of being prepared.</p>		
Noise and Vibration/ Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	Noise and Vibration	Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	133	- MMRP- NV- CNST-S	-	Vol-1, ROD	Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	Tunnel Alignment		C			IC	<p>The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control; limited Notice to Proceed 1 issued 6/09/22.</p> <p>This measure was not implemented in Q4 2023 because construction, including muck extraction, has not yet commenced.</p>		
Noise and Vibration/ Implement Noise Reduction Treatments at Ancillary Facilities	Noise and Vibration	Implement Noise Reduction Treatments at Ancillary Facilities	134	- MMRP- NV-A	-	Vol-1, ROD	Implement Noise Reduction Treatments at Ancillary Facilities	Systems (Ventilation Structures, Traction Power Substations, Emergency Backup Generators)		C		VTA/C	IC	<p>The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because construction has not commenced.</p>		
Noise and Vibration/ Reduce Groundborne Noise Levels	Noise and Vibration	Reduce Groundborne Noise Levels	135	- MMRP- NV-B	-	Vol-1, ROD	Reduce Groundborne Noise Levels	Tunnel Alignment		C		VTA/C	IC	<p>The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages.</p> <p>For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 7.5 Trackway; limited Notice to Proceed 1 issued 6/09/22.</p> <p>This measure did not apply in Q4 2023 because construction has not commenced.</p>		



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Utilities/ Prepare a San Jose Water Supply Infrastructure Capacity Assessment and Participate in the Improvements	Utilities	Prepare a San Jose Water Supply Infrastructure Capacity Assessment	136	- MMRP-UTIL-A	-	Vol-1, ROD	Prepare a San Jose Water Supply Infrastructure Capacity Assessment The contractor will implement capacity-relief upgrades during the utility relocation phase of construction in accordance with SJC requirements. The contractor will ensure that all construction activities follow the provisions outlined in this environmental document, including implementation of Mitigation Measure TRA-CNST-A to reduce potential impacts and increase participation.	28th Street/Little Portugal Station (Alum Rock); Downtown San Jose Station; Diridon Station	D		P	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Utilities/ Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment and Participate in the Improvements	Utilities	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment	137	- MMRP-UTIL-B	-	Vol-1, ROD	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment The contractor will implement capacity-relief upgrades during the utility relocation phase of construction in accordance with Chapter 17.15.210 of the Santa Clara City Code. The contractor will ensure that all construction activities follow the provisions outlined in this environmental document, including implementation of the construction education and	Santa Clara Station	D		P	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Utilities/ Prepare a San Jose Sewer Capacity Assessment and Participate in the Improvements	Utilities	Prepare a San Jose Sewer Capacity Assessment	138	- MMRP-UTIL-C	-	Vol-1, ROD	Prepare a San Jose Sewer Capacity Assessment Prepare a San Jose Sewer Capacity Assessment and Participate in the Improvements: VTA will coordinate with the San Jose Department of Public Works (SJPW) to prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite sanitary sewer capacity deficiencies. SJPW may conduct a detailed engineering study and hydraulic analysis to determine the extent of these impacts. VTA will mitigate impacts on downstream sewer systems in San Jose through payment of the Sanitary Sewer Connection Fee, as required, which is used to rehabilitate and enhance sewer capacity through San Jose's Sanitary Sewer Capital Improvement Program. If payment to the Sanitary Sewer Connection Fee does not adequately mitigate potential offsite sewer capacity impacts related to the BART Extension, VTA will be responsible for direct upgrades to the sewer system. If sewer system overcapacity is a result of projected cumulative development, San Jose and VTA will develop a Cooperative Agreement to determine the BART Extension Alternative's participation in upgrades to the current system. The contractor will implement capacity-relief upgrades during the BART Extension's construction phase in accordance with applicable San Jose standards regarding sewer infrastructure improvements. Generally, the contractor will locate sewer infrastructure improvements within the existing public right-of-way, with minimal potential to impact sensitive environmental resources. The contractor will ensure that construction activities follow the provisions outlined in this environmental document, including implementation of the construction education and outreach plan, to reduce potential impacts.	28th Street/Little Portugal Station (Alum Rock); Downtown San Jose Station; Diridon Station	D		P	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		

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Utilities/ Prepare a Santa Clara Sewer Capacity Assessment and Participate in the Improvements	Utilities	Prepare a Santa Clara Sewer Capacity Assessment	139	- MMRP-UTIL-D	-	Vol-1, ROD	Prepare a Santa Clara Sewer Capacity Assessment	Santa Clara Station	D		P	VTA	K			TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.
Visual Quality and Aesthetics/ Replace Trees	Visual Quality and Aesthetics	Replace Trees	140	- MMRP-AES-CNST-A	-	Vol-1, ROD	<p>Replace Trees: The contractor will inventory trees that will be removed due to construction activities and will note each tree on construction plans before construction begins. VTA will compensate for any trees removed according to the following ratios.</p> <p>VTA will replace all urban trees that are to be removed or lost as a result of the BART Extension to the extent feasible. VTA will replace trees with a diameter of less than 12 inches at a 2:1 ratio, and trees with a diameter of 12 inches or more at a 3:1 ratio. If urban trees (nonnatives and ornamentals) are replaced with native trees, VTA will use a reduced mitigation ratio of 1:1 for all trees smaller than 12 inches in diameter, and 2:1 for all trees with a diameter of 12 inches or more. VTA will irrigate and maintain these trees for a period of no less than 3 years. If VTA cannot replace trees at the stated ratios along the alignment, VTA will pay in-lieu fees.</p> <p>For any landscaping adjacent to the creeks and on VTA right-of-way (ROW), VTA will adhere to the SCVWD's Guidelines and Standards for Land Use Near Streams regarding the use of native species near the creeks.</p>	Program-wide	D	C		VTA/C	K			The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Two Washington fan palms (<i>Washingtonia robusta</i>) were scheduled for removal at the Newhall Maintenance Yard in Q4 2023. The inventory for the removed trees, including the size, if they are invasive/native, and the replacement ratio, can be found in the project sharepoint under the applicable ECR measure folder.

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Visual Quality and Aesthetics/ Minimize Light and Glare (for TOJD)	Visual Quality and Aesthetics	Minimize Light and Glare (for TOJD)	141	- MMRP-AES-A	-	Vol-1, ROD	Minimize Light and Glare (for TOJD)	TOJD	D	C			IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Water Resources, Water Quality, and Floodplains/ Design and Implement Stormwater Control Measures	Water Resources, Water Quality, and Floodplains	Design and Implement Stormwater Control Measures	142	- MMRP-WQ-A	-	Vol-1, ROD	Design and Implement Stormwater Control Measures	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q4 2023 because construction has not commenced.		