



## BSV Phase II - Environmental Commitments Record Legend

<b>LEGEND</b>	<b>Blue Text</b>	<b>Indicates updates since last quarterly report</b>
	---	Indicates N/A or no update/activity is applicable to this quarterly report
	"gray row"	Indicates mitigation measure complete or N/A
	<b>Acronyms</b>	
	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	
<b>Timeframe for Implementation letter codes:</b>		
C	Construction	
D	Design	
P	Post Construction	
<b>Responsible Party codes: VTA and/or C = Contractor</b>		
<b>Compliance Status letter codes:</b>		
IC	In Compliance	
OU	Out of Compliance	
CC	Complete and Closed	
N/A	Non Applicable	

<b>Source Document Abbreviations</b>		
<b>Santa Clara Valley Transportation Authority, Board of Directors</b>		
BOD ATT-A	April 5, 2018, Board Memorandum. Attachment A-Recommended Project Description	
<b>Supplemental Environmental Impact Statement (SEIS), Subsequent Environmental Impact Report (SEIR)</b>		
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
<b>VTA Sustainability Practices</b>		
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	Q3	
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 Q4 2023. 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 Q3 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 vtartab@vtabsv.com).		



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													Q3			
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	4	- MMRP-TRA-CNST-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 minimize 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-05	Vol-1, ROD	Coordinate on Other Construction Projects	Program-wide	D	C		VTA	IC	In Q3 2023, meetings were held with City of San Jose's Arena Entertainment and Operations Committee (AEOC) on 7/13/2023, 8/10/2023, and 9/14/2023, and 8 meetings were held with Downtown West (DTW) and Hunter Properties.			
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	6	- MMRP-TRA-CNST-06	Vol-1, ROD	Engage with Stakeholders	Program-wide	D	C		VTA	IC	VTA BSVII presented to stakeholder groups in Q3 2023, including: the Caltrain Bicycle and Active Transportation Advisory Committee (BATAAC) on 7/20 and San Jose Bicycle Pedestrian Advisory Committee (BPAC) on 8/28. In Q3 2023, BSVII held two (2) biweekly program-wide meetings with the City of San Jose staff on 7/27 and 8/28. Additionally, three (3) Construction Transportation Management Plan-specific meetings occurred with the City of San Jose and/or City of Santa Clara on 7/7, 8/3, and 9/23. An additional coordination meeting was held with SAP/Sharks staff on 9/14; 6 meetings were held with UPRR and JPS on 7/11, 7/25, 8/8, 8/22, 8/29, 9/19; 3 meetings with Caltrans were held on 7/18, 8/11, 9/26; 1 meeting was held with Bixby Land Company on 7/25; and 1 meeting was held with the East Santa Clara Street Business Association Board on 7/17.			
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	7	- MMRP-TRA-CNST-07	Vol-1, ROD	Engage Public	Program-wide	D	C		VTA	IC	VTA attended 11 Public Tabling Events (7/8, 7/29, 8/8, 8/27, 8/29, 9/10, 9/16, 9/17, 9/21, 9/23, 9/27) and participated in 10 meetings related to the Five Wounds Urban Village Plan; Meetings were also held with potential new Community Working Group (CWG) members in Q3 2023.			
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	8	- MMRP-TRA-CNST-08	Vol-1, ROD	Distribute Project Information	Program-wide	D	C		VTA	IC	In Q3 2023: • 5 construction notices were issued and filed; • 73 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	Develop and Implement a Construction Education and Outreach Plan: Develop a project signage program identifying project corridor, station areas, construction timeline, and funding.	Program-wide	D	C		VTA	IC	VTA drafted templates for project identification, project corridor, and contractor field office signs. VTA is also working with the tunnel and trackwork contractor to develop a signage plan for upcoming Project stages.		
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	Develop and Implement a Construction Education and Outreach Plan: Display maps and construction schedule information in project field office(s) and around the construction area.	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	Develop and Implement a Construction Education and Outreach Plan: Increase visibility of alternative parking and access via signage, website postings, and other communication methods.	Program-wide	D	C		VTA	IC	VTA is developing a construction page and a construction activity map that will provide information about parking availability within each work area. In the interim VTA has published a construction notice 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	Develop and Implement a Construction Education and Outreach Plan: Maintain media relations (i.e., news releases, news articles, and interviews).	Program-wide	D	C		VTA	IC	VTA wrote 4 blog posts in Q3 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	Develop and Implement a Construction Education and Outreach Plan: Designate community outreach personnel available on site for the duration of the construction project.	Program-wide	D	C		VTA	IC	VTA has 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	Develop and Implement a Construction Education and Outreach Plan: Work with property owners and business owners in the station areas to promote access to businesses during construction, including enhanced signage.	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	Develop and Implement a Construction Education and Outreach Plan: Provide marketing assistance, technical business support, and cross-promotional efforts to businesses within the area impacted by construction to encourage customers to shop at businesses during construction.	Program-wide	D	C		VTA	IC	VTA continues to develop the Business Resource Program which includes four elements that 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	Develop and Implement a Construction Education and Outreach Plan: Establish outreach to stakeholders to provide advanced notice of scheduled 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	Develop and Implement a Construction Education and Outreach Plan: Throughout development and implementation, the education and outreach activities will be comprehensive, seeking widespread involvement; proactive, with efforts geared toward obtaining input, as well as disseminating information; responsive to various needs, including multiple languages and alternative formats; and timely, accurate, and results-oriented.	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 Q3 2023 the City of San Jose approved the KST's final revised CP2 CTMP For Early Works at the West Portal.</p> <p>KST's CP2 CTMP for Early Works at the West Portal also included development of a PayPal Park Event Management Plan &amp; West Portal Traffic Response Plan which were updated in Q3 2023.</p> <p>In total, there were more than 15 meetings in Q3 2023 in which many focused solely on or had agenda topics related to the CTMP development.</p> <p>KST also advanced discussion of Early Work Construction and Tunneling and Heavy Construction at 28th Street/Little Portugal BART Station and East Portal at standing meetings with the City of San Jose and local stakeholders.</p> <p>KST's CTMP scopes for the remainder of Contract Package 2 remains as follows:</p> <ol style="list-style-type: none"> <li>1. West Portal Early Work Construction (Approved)</li> <li>2. Downtown San Jose and Diridon Early Work Construction and Tunneling and Heavy Construction</li> <li>3. West Portal Tunneling and Heavy Construction</li> <li>4. East Portal and 28th St Early Work Construction and Tunneling and Heavy Construction</li> </ol> <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-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-03	Vol-1, ROD	Include Site-Specific Requirements in Traffic Control Plans (TCPs)	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			The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  This measure 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	Water Exposed Surfaces	Program-wide	C			VTA/C	IC			The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>



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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	28	- MMRP-AQ-03- CNST-	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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	29	- MMRP-AQ-04- CNST-	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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	30	- MMRP-AQ-05- CNST-	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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	31	- MMRP-AQ-06- CNST-	Vol-1, ROD	Limit Vehicle Speed	Program-wide	C			VTA/C	IC	<p>The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>For Q3 2023, no unpaved roads were utilized. Therefore, this measure will be implemented in future quarters.</b></p>		

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	32	MMRP-AQ-CNST-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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>For Q3 2023</b>, there were no paving operations. 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-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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>For Q3 2023</b>, construction has not commenced, therefore this measure will be implemented in future quarters.</p>			
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	34	MMRP-AQ-CNST-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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>			
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	35	MMRP-AQ-CNST-10	Vol-1, ROD	Install Windbreaks	Program-wide	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>			



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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	Q3	
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>		
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023, therefore no erosion or sediment controls were installed. This measure will be applied in future quarters as necessary.</b></p>		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  For Q3 2023, construction or operation of concrete batch plants has not commenced, therefore this measure will be implemented in future quarters.		
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  Specifications and contracts require EPA Tier 4 engines for all off-road, diesel-powered equipment used during construction. This measure will be enforced during heavy construction activities.		
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.		
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q3	
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>		
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></p>		

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation					Quarter Mitigation Completed	
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		2023
															Q3
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>		
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>		
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>		
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	Conduct Preconstruction Surveys for Roosting Bats	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q3	
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-C-02 CNST	Vol-1, ROD	No Disturbance to Bat Roosting Trees Between April 1 and September 15	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.		
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-C-03 CNST	Vol-1, ROD	Remove Bat Roosting Trees between September 15 and October 30	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.		
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-C-04 CNST	Vol-1, ROD	Remove Trees in Pieces	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.		
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-C-05 CNST	Vol-1, ROD	Ensure Maternity Roost is Undisturbed until September 15	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.		



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		2023
															Q3
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	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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b></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	Vol-1, ROD	<p>Conduct Roosting Bat Surveys at Buildings</p> <p>Depending on the results of the habitat assessment, VTA and its representatives will take the following steps (MMRP-BIO-CNST-C-08 through C-18).</p>	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p><b>For Q3 2023, no buildings were removed or demolished, therefore this measure will be implemented in future quarters.</b></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	58	- MMRP-BIO-CNST	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	<p><b>For Q3 2023, no buildings were removed or demolished, therefore this measure will be implemented in future quarters.</b></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	59	- MMRP-BIO-CNST	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	<p><b>For Q3 2023, no buildings were removed or demolished, therefore this measure will be implemented in future quarters.</b></p>		

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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	Q3	
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	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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	61	- MMRP- BIO- CNST	Vol-1, ROD	Conduct Follow-Up Roosting Bat Surveys at Buildings	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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	Vol-1, ROD	Install Bat Roosting Exclusion Measures	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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	Q3	
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- 14	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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- 15	Vol-1, ROD	No Building Demolition While Bats Are Present	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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- 16	Vol-1, ROD	Only Remove Roosting Building Habitat Prior to Hibernation	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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	67	- MMRP- BIO- CNST- 17	Vol-1, ROD	Install Roosting Bat Exclusion Devices	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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	Q3	
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- 18	Vol-1, ROD	Provide Compensatory Mitigation for Roosting Bat Habitat	Program-wide	D	C		VTA/C	IC	For Q3 2023, no buildings were removed or demolished, 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	Guadalupe River ; Los Gatos creek		C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 2023, no construction occurred near Guadalupe River and Los Gatos Creek, 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	N/A	N/A	N/A	N/A	N/A	N/A	N/A - See 2018 for Documentation	N/A	
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.		



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q3	
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	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		

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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	Q3	
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	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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)	77	- MMRP- BIO- CNST- F-07	Vol-1, ROD	Survey Owl Behavior During Construction	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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- F-08	Vol-1, ROD	Cease Construction if Owl Behavior Changes	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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- F-09	Vol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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- F-10	Vol-1, ROD	Establish Buffers Around Occupied Burrows	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.		

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q3	
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- F- 11	Vol-1, ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1-January 31) A qualified biologist monitors the owls for at least 3 days prior to construction to determine baseline foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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- F- 12	Vol-1, ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1-January 31) The same qualified biologist monitors the owls during construction and finds no change in owl foraging behavior in response to construction activities. Monitoring must continue as described here for the non-breeding season as long as the burrow remains active.	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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- F- 13	Vol-1, ROD	Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1-January 31) If there is any change in owl nesting and foraging behavior as a result of construction activities, these activities will cease within the 250-foot buffer.	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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- F- 14	Vol-1, ROD	Excavate Owl Burrow to Prevent Reoccupation	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1-January 31) If the owls are gone for at least 1 week, VTA may request approval from CDFW, USFWS, and SCVHA for a qualified biologist to excavate usable burrows to prevent owls from re-occupying the site. After all usable burrows are excavated, the buffer zone will be removed and construction may continue. Monitoring must continue as described above for the non-breeding season as long as the burrow remains active.	Newhall Maintenance Facility	D	C		VTA/C	IC	Geotechnical boring commenced in Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. No burrowing owls or evidence of recent owl occupation at burrows were detected within the survey area.	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation					2023	Quarter Mitigation Completed
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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  The biological monitor will also conduct training of construction personnel on the avoidance procedure, 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 Q3 2023 at the West Portal location. Burrowing owl surveys were conducted on 9/19 and 9/25. 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)  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 Q3 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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 11.6 Geotechnical; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  This measure has been applied as seen in the mitigation measures MMRP-GEO-CNST-A-01 through A-06 below.	



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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	88	- MMRP- GEO- CNST- A- 02	Vol-1, ROD	Use File Foundations as a Means of Ground Densification	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 11.6 Geotechnical; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 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	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: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 11.6 Geotechnical; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 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: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Sections 11.6 Geotechnical and 11.15 Seismic Design; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 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: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 11.9 Tunnels & Underground Structures; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 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: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Sections 11.6 Geotechnical and 11.15 Seismic Design; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q2 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  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.	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 71 24 Pre- and Post- Construction Surveys and Vol 4 Property Protection Plan; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  VTA did not perform surveys at any properties in Q3 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  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.	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 75 Cultural Resources; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  VTA did not perform surveys at any historic properties in Q3 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  Monitor Ground Surface During Tunneling Activities	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows: CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under CP2 Conformed set under Vol 4 Property Protection Plan; limited Notice to Proceed 1 issued 6/09/22.  In Q3 2023, this measure did not apply 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	Q3	
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:  CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 4 Property Protection Plan; limited Notice to Proceed 1 issued 6/09/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 2023, this measure did not apply 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	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows:  CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Sections 01 31 31 Utility Coordination and 01 71 24 Pre- and Post-construction Surveys; limited Notice to Proceed 1 issued 6/09/22. CP-3 issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 2023, this measure did not apply 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  <ul style="list-style-type: none"> <li>Minimize Excavation Bottom Failure Impacts: If excavation bottom fails due to bottom heave, piping, or blow-out, the contractor will implement the following measures. <ul style="list-style-type: none"> <li>Remove water found in the pervious sand layer via dewatering.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>	Program-wide	D	C	P	VTA/C	IC	The relevant contract packages and current design status is as follows:  CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 74 25 Contaminant Management and Vol 2 Design Criteria Manual (DCM) Sections 11.6 Geotechnical and 11.15 Seismic Design; limited Notice to Proceed 1 issued 6/09/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 2023, this measure did not apply 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  <ul style="list-style-type: none"> <li>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. <ul style="list-style-type: none"> <li>Over-excavate 18 inches below the native subgrade.</li> <li>Place a stabilizing geotextile fabric or a geogrid at the bottom of the over-excavation.</li> <li>Backfill the over-excavation with Class 2 Aggregate Base, Structural Backfill, or other bridging material.</li> <li>Overlap the ends of the geotextile fabric on top of the bridging material for a minimum distance of 2 feet.</li> </ul> </li> </ul>	Program-wide		C		VTA/C	IC	The relevant contract packages and current design status is as follows:  CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 74 25 Contaminant Management and Vol 2 Design Criteria Manual (DCM) Sections 11.6 Geotechnical and 11.15 Seismic Design and Vol 4, Technical Requirements, Section 14 Ground Control; limited Notice to Proceed 1 issued 6/09/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 2023, design for minimization for disturbance of sensitive deposits is underway.	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q3		
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	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows:  CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 74 25 Contaminant Management, Vol 2 Design Criteria Manual (DCM) Sections 11.6 Geotechnical and 11.15 Seismic Design and Vol 4, Technical Requirements, Section 14 Ground Control; limited Notice to Proceed 1 issued 6/09/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 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	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Sections 01 35 70 Environmental Requirements and 01 35 75 Cultural Resources Requirements; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.		
Greenhouse Gas Emissions/ Implement Energy Efficiency Measures (for TOID)	Greenhouse Gas Emissions	Implement Energy Efficiency Measures (TOID)	102	- MMRP- GHG-A	-	Vol-1, ROD	Implement Energy Efficiency Measures (TOID)	TOID		C		VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.		
Greenhouse Gas Emissions/ Participate in Food Waste Programs (for TOID)	Greenhouse Gas Emissions	Participate in Food Waste Programs (TOID)	103	- MMRP- GHG-B	-	Vol-1, ROD	Participate in Food Waste Programs (TOID)	TOID			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 TOID)	Greenhouse Gas Emissions	Utilize Electrical Landscaping Equipment (TOID)	104	- MMRP- GHG-C	-	Vol-1, ROD	Utilize Electrical Landscaping Equipment (TOID)	TOID	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 TOID)	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOID)	105	- MMRP- GHG-	D-01	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOID)	TOID	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- TOID Residential Use	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOID Residential)	106	- MMRP- GHG-	D-02	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOID Residential)	TOID	D			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		2023	
															Q3	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOID Residential Use	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOID Commercial)	107	- MMRP-GHG-D	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOID Commercial)	TOID	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: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01.74.25 (Contaminant Management); limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>			
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.			
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>			



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q3	
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 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  Operate Equipment to Minimize Annoying Noise and Vibration: Contractors will implement the following measures: • Use electric instead of diesel-powered equipment, hydraulic tools instead of pneumatic impact tools, and electric instead of air- or gasoline-driven saws, where feasible. • Use an augering drill-rig for setting piles in lieu of impact pile drivers, where feasible. • Operate equipment so as to minimize banging, clattering, buzzing, and other annoying types of noises, especially near residential areas during nighttime hours. • Turn off idling equipment, whenever possible. • Line haul truck beds with rubber or sand to reduce noise, if needed and requested by VTA. Line or cover hoppers, conveyor transfer points, storage bins, and chutes with sound-deadening material. • During nighttime and weekends, use strobe warning lights and/or back-up observers during any back-up operations, where permitted by the local jurisdiction.	Program-wide		C			VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 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  Route Construction Trucks along Truck Routes Least Disturbing to Residents: The contractor will route construction-related truck traffic along truck routes and roadways that would cause the least disturbance to residents. The contractor will lay out loading and unloading zones to minimize truck idling near sensitive receptors and to minimize truck reversing so back-up alarms are minimized near residences.	Program-wide		C			VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No construction activities took place in Q3 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  Secure Steel and Concrete Plates over Excavated Holes and Trenches: The contractor will secure steel and/or concrete plates over excavated holes and trenches to reduce rattling when vehicles pass over. If complaints are received, the contractor will use thicker plates, stiffer beams beneath the plates, and/or rubber gaskets between the beams and plates to further reduce rattling noise and vibration.	Program-wide		C			VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  Steel plates from the construction activities completed in Q2 2023 have been left in place during Q3 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		2023
															Q3
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>	
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>No construction activities took place in Q3 2023. This measure will be applied in future quarters as necessary.</b>	
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  <b>In Q3 2023, this measure did not apply because construction on tunnel portals, stations, and ventilation sites has not commenced.</b>	
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  A Construction Noise and Vibration Control Plan (CNVCP) was submitted on 1/31/2023.  An Operational Noise and Vibration Control Plan (ONVCP) for CP-2 was submitted on 5/18/2023. Comments were received and the ONVCP is being updated to address these comments.	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status	Q3	
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q4 2022, the CP-2 contractor submitted the qualifications of an Acoustical Engineer in accordance with this measure.	
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	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No noise generating equipment was operated in Q3 2023.	
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	Vol-1, ROD	Install Stationary Long-Term Noise Monitors at Construction Staging Areas (CSA)	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  No long-term noise monitors were required as construction has not commenced.	



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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21. No long-term noise monitors were required 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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21. In Q3 2023, this measure did not apply 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: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 95 Public Information and Community Relations; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21. In Q3 2023, this measure did not apply 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	Q3		
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	The Construction Vibration Control and Monitoring Plan will also outline the monitoring equipment and procedures the contractor will use to perform vibration measurements for vibration-sensitive receptors in the vicinity of construction operations, including details regarding the vibration measurement locations, frequency, and duration of measurements at each location. The plan will outline the protocol for monitoring existing cracks in buildings over time, to determine any construction-related impacts. At a minimum, crack gauges will be installed on existing cracks prior to construction, and monitoring of the gauges will be performed continuously over the course of construction to assess whether new construction-related damage has occurred. The contractor must obtain approval from VTA and the QP to install any crack gauges on or in historic buildings that require alteration of the building.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.	An Operational Noise and Vibration Control Plan (ONVCP) for CP-2 was submitted on 5/18/2023. Comments were received and the ONVCP is being updated to address these comments.	
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	The contractor will initially conduct vibration monitoring daily at the nearest affected buildings during any construction activities that could induce vibration impacts, typically within 100 feet of any building. Vibration will also be monitored where vibration is expected to approach the applicable limit based on the building type and condition, as determined by VTA in coordination with the structural engineer for non-historic buildings, and VTA and the historic QP for historic buildings. Monitoring of utilities that are sensitive to vibration will be coordinated with the utility companies and performed for the nearest affected vibration-sensitive utilities during any construction activities that could induce vibration impacts.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.	An Operational Noise and Vibration Control Plan (ONVCP) for CP-2 was submitted on 5/18/2023. Comments were received and the ONVCP is being updated to address these comments.	
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	<b>Implement a Construction Vibration Control and Monitoring Plan:</b> The contractor will perform monitoring continuously at the closest receptor during all demolition and construction activities to ensure vibration levels will not exceed the FTA construction vibration damage criteria for applicable building type, as follows: 0.12 peak particle velocity (PPV) (inches/second) for buildings that are extremely susceptible to vibration damage, 0.2 PPV (inches/second) for non-engineered timber and masonry buildings, 0.3 PPV (inches/second) for engineered concrete and masonry (no plaster) buildings and 0.5 PPV (inches/second) for reinforced-concrete, steel or timber (no plaster) buildings.  For historic buildings, the vibration threshold will likely be between 0.12 to 0.2 PPV (inches/second) depending on the buildings' condition. The results of the preconstruction surveys and building Conditions Assessment Report as outlined in Mitigation Measure NV-CNST-R will be utilized to confirm the structure types and determine which vibration thresholds apply in consultation with a qualified structural engineer and the historic QP.  For utilities, vibration thresholds will follow industry standards in coordination with utility companies, and typically adhere to a 0.5 PPV (inches/second) threshold.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.	An Operational Noise and Vibration Control Plan (ONVCP) for CP-2 was submitted on 5/18/2023. Comments were received and the ONVCP is being updated to address these comments.	
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	<b>Implement a Construction Vibration Control and Monitoring Plan:</b> The contractor will measure vibration in buildings in the vertical direction on the ground surface or building floor and for utilities in accordance with meter instructions and industry best practices. Vibration levels will be measured continuously during daily construction operations to ensure that peak vibration-generating work is captured. Daily monitoring will be performed during a continuous work shift (typically 8 hours) that includes the closest and most vibration-inducing work. The contractor will compare vibration in buildings against both structural damage and nuisance thresholds in terms of velocity levels in dB or PPV. Vibration for utilities will be compared against structural damage thresholds in terms of PPV. If the measured vibration data are in compliance with the vibration limits after work has completed start-up and entered full-production mode (typically within 2 weeks to 30 days), vibration monitoring may be performed once a week instead of continuously each day if approved by VTA.  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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.	An Operational Noise and Vibration Control Plan (ONVCP) for CP-2 was submitted on 5/18/2023. Comments were received and the ONVCP is being updated to address these comments.	



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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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  An Operational Noise and Vibration Control Plan (ONVCP) for CP-2 was submitted on 5/18/2023. Comments were received and the ONVCP is being updated to address these comments.			
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  <b>Perform Vertical Direction Vibration Monitoring:</b> The contractor will perform continuous vertical direction vibration (root mean square) monitoring on the ground at the nearest representative residential structure during muck extraction and supply train operations in the tunnels. These measurements will be repeated for a minimum of 1 week at approximately 1-mile intervals along the tunnel construction until it is demonstrated that the levels are below the FTA thresholds.	Program-wide		C		VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  Vertical direction vibration monitoring was not performed in <b>Q3 2023</b> as construction has not 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  <b>Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration:</b> Prior to construction or release of the TBM and cut-and-cover construction contract(s), the contractor will survey all structures that may be potentially impacted by construction vibration and submit the results to VTA for approval. Preconstruction building condition surveys of the interiors and exteriors of these structures will be conducted by independent surveyors to assess the baseline condition of each property that could be affected by construction vibration. The surveys will include written and photographic (video and still) records, including written descriptions and photos of any cracks.	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 71 24 Pre- and Post-construction Surveys; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In <b>Q3 2023</b> , VTA continued to coordinate with property owners for access permission to enter to perform surveys.			

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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: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 71 24 Pre- and Post-construction Surveys; limited Notice to Proceed 1 issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p>In Q3 2023, no Condition Assessment Reports (CAR) for historic properties were developed.</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: 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>In Q3 2023, this measure was not implemented 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: CP-1 Systems - RFP Rev C was issued on 04/15/22. 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. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p>In Q3 2023, this measure did not apply 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: 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>In Q3 2023, this measure did not apply 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 SIWC 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 outreach plan, to reduce potential impacts.	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	IC	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><b>Replace Trees:</b> 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	IC	<p>The four contract packages and current design status is as follows:            CP-1 Systems - RFP Rev C was issued on 04/15/22.            CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 6.3 Landscaping and Vegetation Control; limited Notice to Proceed 1 issued 6/09/22.            CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22.            CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.</p> <p>No trees were removed in <b>Q3 2023</b>.</p>	



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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	<b>Design and Implement Stormwater Control Measures:</b> The BART Extension will be designed in accordance with the Phase II MS4 Permit, Section F.5.g, for post-construction stormwater management. Post-construction stormwater controls shall be implemented to reduce total runoff rates and associated pollutant discharges. VTA managed facilities will follow the VTA's Stormwater and Landscaping Design Criteria Manual. After designs are finalized, a Stormwater Management Report, including detailed hydrologic and hydraulic calculations, analysis, and conclusions, shall be prepared to document the final design for stormwater management and the storm drain system and for obtaining the requisite approvals, and will outline all required Operation and Maintenance needs recommended by the designer for the post-construction stormwater management facilities.	Program-wide	D	C	P	VTA/C	IC	The four contract packages and current design status is as follows: CP-1 Systems - RFP Rev C was issued on 04/15/22. CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Sections 01 35 72 Temporary Water Pollution Control and 01 35 73 Permanent Water Pollution Control; limited Notice to Proceed issued 6/09/22. CP-3 Newhall Yard/Santa Clara Station - issued RFP Rev A 3/4/22. CP-4 Stations - received the Statement of Qualifications in response to their RFQ on 9/23/21.  In Q3 2023, this measure did not apply because construction has not commenced.	