



**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
	SJRRRC	San Joaquin Regional Rail Commission
	SJWC	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	Chapter 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 Q1	Quarter Mitigation Completed
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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)	Develop and Implement a Construction Education and Outreach Plan: VTA will develop a Construction Education and Outreach Plan (CEOP) in coordination with the Cities of San Jose and Santa Clara to foster communication between VTA, various municipalities, and the public during construction. VTA will develop the CEOP after the environmental process is complete and implement it prior to construction. The CEOP will ensure that VTA coordinates construction activities with existing business operations and other development projects to minimize disruption and delays. The CEOP will also establish a process that will address the concerns of businesses and their customers, property owners, residents, and commuters. The CEOP will be incorporated into the plans and specifications of all contracts through which the BART Extension will be implemented.  Critical components of the CEOP will include, but are not limited to, the following requirements (MMRP-TRA-CNST-A-02 through A-17).	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	Develop and Implement a Construction Education and Outreach Plan: Establish field office(s) accessible to the public with dedicated community outreach staff and defined hours.	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 Q3 2023. 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	Develop and Implement a Construction Education and Outreach Plan: Provide and maintain a 24-hour/7-day a week project hotline for emergencies.	Program-wide	D	C		VTA	IC	In Q1 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 vtabart@vtabsv.com).	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	4	MMRP-TRA-CNST-A-04	Vol-1, ROD	Conduct Business Operational Surveys	Develop and Implement a Construction Education and Outreach Plan: Conduct preconstruction operational surveys of businesses located adjacent to construction areas to ascertain hours of operation, access, deliveries, customer base, special circumstances, and key contacts.	Program-wide	D	C		VTA	CC	MITIGATION COMPLETE - See Q4 2020	Q4 2020
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	5	MMRP-TRA-CNST-A-05	Vol-1, ROD	Coordinate on Other Construction Projects	Develop and Implement a Construction Education and Outreach Plan: Coordinate with cities to obtain information about upcoming adjacent construction projects to minimize disruptions and delays.	Program-wide	D	C		VTA	IC	In Q1 2023, meetings were held with City of San Jose's Arena Entertainment and Operations Committee (AEOC) on 1/12/23, 2/9/23 and 3/9/23.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	6	MMRP-TRA-CNST-A-06	Vol-1, ROD	Engage with Stakeholders	Develop and Implement a Construction Education and Outreach Plan: Inform and engage partner agencies, stakeholders, including VTA's BART Silicon Valley Phase II Community Working Groups, business organizations, business owners, tenants, the media, and the public on a regular and frequent basis.	Program-wide	D	C		VTA	IC	In Q1 2023 VTA held three CWG meetings on 2/14, 2/15 and 2/16	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	7	MMRP-TRA-CNST-A-07	Vol-1, ROD	Engage Public	Develop and Implement a Construction Education and Outreach Plan: Conduct public workshops, meetings, or webinars for community members. Hold regular meetings with the surrounding businesses and residents throughout the course of construction.	Program-wide	D	C		VTA	IC	For Q1 2023 VTA held a CTMP Public Meeting (in person) on 3/15 and virtually on 3/16	

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Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	8	- MMRP-TRA-CNST-	A-08	Vol-1, ROD	Distribute Project Information	Program-wide	D	C		VTA	IC	In Q1 2023: • 7 construction notices were issued and filed; • 1 Social Media post was shared; • 7 mass emails & 7 gentle reminder emails were sent to all subscribers	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	9	- MMRP-TRA-CNST-	A-09	Vol-1, ROD	Develop Project Signage Program	Program-wide	D	C		VTA	IC	In Q1 2023, VTA has drafted templates for project identification, project corridor, and contractor field office signs.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	10	- MMRP-TRA-CNST-	A-10	Vol-1, ROD	Display Maps and Construction Schedule	Program-wide	D	C		VTA	IC	---	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	11	- MMRP-TRA-CNST-	A-11	Vol-1, ROD	Display Parking and Access	Program-wide	D	C		VTA	IC	In Q1 2023, VTA began 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 noticing page to post active construction activities.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	12	- MMRP-TRA-CNST-	A-12	Vol-1, ROD	Maintain Media Relations	Program-wide	D	C		VTA	IC	In Q1 2023, VTA began 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 noticing page to post active construction activities.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	13	- MMRP-TRA-CNST-	A-13	Vol-1, ROD	Designate Community Outreach Personnel	Program-wide	D	C		VTA	IC	In Q1 2023, VTA designated project staff that will lead outreach within each work area and the CP2 Contractor has two Community Construction Relationship Offices (CCROs) that will be available during construction. Office hours will be established once the field offices are completed.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	14	- MMRP-TRA-CNST-	A-14	Vol-1, ROD	Promote Access to Businesses	Program-wide	D	C		VTA	IC	In Q1 2023, VTA continued 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	15	- MMRP-TRA-CNST-	A-15	Vol-1, ROD	Market Businesses During Construction	Program-wide	D	C		VTA	IC	In Q1 2023, VTA continued 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	Program-wide	D	C		VTA	IC	---	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transportation	Develop and Implement a Construction Education and Outreach Plan	17	- MMRP-TRA-CNST-	A-17	Vol-1, ROD	Proactive Multi-Language Community Involvement	Program-wide	D	C		VTA	IC	This is a summary mitigation measure. For individual components of the Construction Education and Outreach Plan (CEOP) please refer to MMRP-TRA-CNST-A-02 through A-16, above.	

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Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	18	- MMRP-TRA-CNST-	B-01	Vol-1, ROD	<p><b>Develop and Implement a Construction Transportation Management Plan:</b> After the environmental process is complete and prior to beginning any construction activity, VTA will work with the Cities of San Jose and Santa Clara to develop Master Cooperative Agreements that will direct all coordination and partnering efforts between VTA and the cities prior to and during construction of the BART Extension. One element of the Master Cooperative Agreements with the cities will be the Construction Outreach Management Program (COMP). One of the three parts of the COMP is Construction Transportation Management Plan (CTMP). VTA and its General Engineering Contractor will develop and implement the CTMP in partnership with the Cities of San Jose and Santa Clara to coordinate location-specific circulation and access within and around the construction areas for all modes, including automobiles, trucks and construction vehicles, bicyclists, pedestrians, and public transportation such as buses and light rail. The CTMP will be organized according to each of the ten major project elements listed from east to west along the alignment: East Tunnel Portal, Alum Rock/28th Street Station, 13th Street Ventilation Structure, Downtown San Jose Station, Diridon Station, Stockton Avenue Ventilation Structure, West Tunnel Portal, Newhall Maintenance Facility, and Santa Clara Station, and any offsite improvement locations. The CTMP will be tailored to address the site-specific circumstances and sequencing of construction at each of the ten areas. The CTMP will be developed in partnership with the applicable city and incorporated into all plans and specifications of all contracts through which the BART Extension will be implemented.</p> <p>Critical components of the CTMP are as follows:</p> <ul style="list-style-type: none"> <li>Sequencing schedule depicting the proposed location and timing of construction activities on a routine basis for the duration of the project.</li> <li>Proposed phasing of construction, anticipated lane and street closures, detours, temporary signals, and street reconfigurations, including durations of all of the above and signage requirements that the contractor must follow.</li> <li>Truck haul routes.</li> <li>Location-specific requirements as applicable.</li> </ul> <p>In addition, VTA will work with the cities to minimize access and circulation construction impacts during special events, including Christmas in the Park, parades, and marathons.</p>	Program-wide	D	C		VTA	IC	<p>In Q1 2023 KST submitted a draft of the CP2 CTMP for Early Works at the West Portal to the City of Santa Clara and the City of San José, and received comments back. The Project team also hosted virtual and in-person public meetings in the work area for the previously mentioned CTMP, which was received well.</p> <p>KST also began to discuss Early Works Construction at the San Jose Stations, which is slated to be the next CTMP, at standing meetings with the City of San Jose and local stakeholders.</p> <p>CP2 CTMP for Early Works at the West Portal was submitted on 01/19/23. Comments on the CP2 CTMP for Early Works at the West Portal were received on 02/15/23. The in-person public meeting for CP2 CTMP for Early Works at the West Portal was held on 03/16/23. The virtual public meeting for CP2 CTMP for Early Works at the West Portal was held on 03/17/23.</p>	
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	19	- MMRP-TRA-CNST-	B-02	Vol-1, ROD	<p><b>Develop and Implement a Construction Transportation Management Plan:</b> After the CTMP has been approved, Individual Traffic Control Plans (TCPs) will be developed for specific design elements at each of the ten major project elements and throughout the 8-year duration of construction. The TCPs will address all modes including automobiles, trucks, and construction vehicles, bicyclists, pedestrians, and public transportation such as buses and light rail. The TCPs will be prepared by the contractor and approved by VTA and the applicable city prior to construction of the specific design element.</p>	Program-wide	D	C		VTA	IC	<p>TCPs will be developed following the finalized of the contract specific CTMPs.</p>	
Transportation/ Develop and Implement a Construction Transportation Management Plan	Transportation	Develop Construction Transportation Management Plan (CTMP)	20	- MMRP-TRA-CNST-	B-03	Vol-1, ROD	<p><b>Develop and Implement a Construction Transportation Management Plan:</b> The TCPs will include site-specific requirements such as the following.</p> <ul style="list-style-type: none"> <li>Alternative access routes where practicable and wayfinding signage for all detours affecting roadway users, including vehicular traffic, trucks and construction vehicles, bicyclists, and pedestrians.</li> <li>Early signage of potential construction delays for all roadway users to choose alternate routes.</li> <li>Minimum requirements for pedestrians and bicyclists to provide safe travel corridors within and through construction areas or provide detour routes.</li> <li>Coordination between VTA and transit providers as necessary prior to construction to ensure that any necessary re-routing of bus routes and temporary relocation of bus stops during construction is done to minimize impacts on bus riders.</li> <li>Early signage of potential transit delays for transit riders to plan trips accordingly.</li> </ul> <p>Notification of the Cities of San Jose and Santa Clara, business owners, residents, and key stakeholders regarding lane and road closures that would affect parking, including both off-street and on-street parking.</p> <ul style="list-style-type: none"> <li>Maps of all publicly available off-street and on-street parking that will be removed during construction.</li> <li>Schedule of removal of each parking area.</li> <li>Requirement that construction workers must park in construction staging areas or other designated areas.</li> </ul> <p>In addition, in coordination with city partners, VTA will work with its contractors and the cities to restore parking as construction nears completion to the extent feasible.</p>	Program-wide	D	C		VTA	IC	<p>TCPs will be developed following the finalized of the contract specific CTMPs.</p>	



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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)	<p>Prepare and Implement an Emergency Services Coordination Plan: After the environmental process is complete and prior to beginning any construction activity, VTA will work with the Cities of San Jose and Santa Clara to develop Master Cooperative Agreements that will direct all coordination and partnering efforts between VTA and the cities prior to and during construction of the BART Extension. One element of the Master Cooperative Agreements with the cities will be the COMP. One of the three parts of the COMP is the Emergency Services Coordination (ESCP).</p> <p>As local emergency service routes and response times could be affected by construction activities, VTA will coordinate with local fire and police services to develop the ESCP to minimize this impact. The ESCP will be incorporated into the plans and specifications of all contracts through which the BART Extension will be implemented.</p> <p>Critical components of coordination are as follows.</p> <ul style="list-style-type: none"> <li>• VTA will inform the local fire and police departments of the construction schedule, and potential lane and road closures.</li> <li>• VTA will work with emergency providers to ensure emergency access to residents and businesses and to maintain the cities' emergency service response times.</li> <li>• VTA will work with the local fire and police departments on the detour routes.</li> <li>• VTA will provide road signage for detours and provide manual traffic control on detour routes as necessary.</li> </ul>	Program-wide	D	C		VTA	CC	MITIGATION COMPLETE	
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	<p><b>Provide Temporary Replacement Parking at Diridon (Diridon Station Only, NEPA ONLY MITIGATION MEASURE):</b> VTA will provide 450 temporary replacement off-street parking spaces during construction to mitigate for parking impacts caused by the BART Extension construction. The temporary replacement parking will be provided prior to the removal of existing parking spaces.</p>	Diridon Station		C		VTA	IC	In Q1 2023, VTA received bids for the construction of the temporary replacement parking garage.	
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.	<p><b>Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TOJD):</b> Change the signal control for Brokaw Road (the east and west legs of this intersection) from Protected Left-Turn phasing to Split Phase. Add a shared through/left-turn lane to the east and west approaches within the existing right-of-way. Change the existing shared through/right-turn lanes to right-turn only lanes on the east and west approaches, and change the eastbound right-turn coding from include to Overlap, indicating that many eastbound right turns would be able to turn right on red.</p>	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.	<p><b>Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD):</b> Shift the westbound approach lanes on Lewis Street to the south to allow for the current through/right-turn lane to operate as a separate right-turn lane and a separate through lane. A shift of approximately 2 feet would increase the current through/right-turn lane width to 20 feet, which would allow adequate room for right-turning vehicles to proceed past vehicles traveling straight through the intersection and make the right turn onto northbound Lafayette Street. The westbound approach and receiving lanes would be slightly offset as a result, which can be addressed with dashed pavement markings across the intersection.</p>	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	<p><b>Implement Intersection Improvements at the Intersection of Coleman Avenue and I880 Southbound Ramps (for TOJD):</b> Convert the second (center) left-turn lane on the I-880 off-ramp (the intersection's westbound approach) to a shared left/right-turn lane. Replace the lane control signs and the pavement markings on the off-ramp to reflect the new lane usage.</p>	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.	

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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	<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 Q1 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	27	- MMRP-AQ-CNST-A-02	Vol-1, ROD	Water Exposed Surfaces	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 Q1 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	28	- MMRP-AQ-CNST-A-03	Vol-1, ROD	Maintain Soil Moisture Content	Program-wide		C		VTA/C	IC	<p>The four contract packages and current design status is as follows: 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 Q1 2023</b>, construction has not commenced, therefore this measure will be implemented in future quarters.</p>		

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	29	- MMRP- AQ- CNST- A- 04	Vol-1, ROD	Cover or Moistened Haul Trucks	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	30	- MMRP- AQ- CNST- A- 05	Vol-1, ROD	Use Wet Power Vacuum Street Sweepers	Program-wide		C		VTA/C	IC	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	31	- MMRP- AQ- CNST- A- 06	Vol-1, ROD	Limit Vehicle Speed	Program-wide		C		VTA/C	IC	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	32	- MMRP- AQ- CNST- A- 07	Vol-1, ROD	Complete Paving ASAP	Program-wide		C		VTA/C	IC	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 Q1 2023, construction has not commenced, 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		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	33	- MMRP- AQ- CNST-	A-08	Vol-1, ROD	Post Signage Regarding Dust Complaints	Program-wide	C		VTA/C	IC	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	34	- MMRP- AQ- CNST-	A-09	Vol-1, ROD	Suspend Earth Moving Activities When Windy	Program-wide	C		VTA/C	IC	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	35	- MMRP- AQ- CNST-	A-10	Vol-1, ROD	Install Windbreaks	Program-wide	C		VTA/C	IC	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
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	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 Q1 2023, construction has not commenced, 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		
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	Implement Dust Control Measures: The contractor will limit the simultaneous occurrence of excavation, grading, and ground-disturbing construction activities in the same area. The contractor will phase activities to reduce the amount of disturbed surfaces at any one time.	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
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	Implement Dust Control Measures: All trucks and equipment, including their tires, will use designated construction entrances/exits that have been constructed with rock, rumble strips, or other features to remove dirt from tires.	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
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	Implement Dust Control Measures: The contractor will install sediment and erosion control devices on sites with a slope greater than 1 percent to prevent silt runoff from entering public roadways.	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	40	- MMRP- AQ- CNST- A-15	Vol-1, ROD	Control Dust During Operation of Concrete Batch Plants	Implement Dust Control Measures: The contractor will include the following control measures as consistent with BAAQMD permitting requirements during the operation of concrete batch plants: o The construction contractor will ensure that the outlet PM10 grain loading for the baghouse will not exceed 0.01 grains per dry standard cubic foot. o The construction contractor will properly maintain the baghouse and keep the baghouse in good operating condition at all times. The construction contractor will equip the baghouse with a device for measuring the pressure drop across the baghouse. o The construction contractor will not discharge an air contaminant into the atmosphere for a period or periods aggregating more than 3 minutes in any hour, which is as dark or darker than a Ringelmann 1.0. o The construction contractor will abate stockpiles, conveyors and unpaved roads as necessary with water sprays to maintain compliance with BAAQMD rules and regulations.	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 Q1 2023, construction has not commenced, 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		
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.  For Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
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.  For Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.		
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.  For Q1 2023, construction has not commenced, 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		
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	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.	
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	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.	
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	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 Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.	
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 Areas Away from Sensitive Receptors	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 Q1 2023, construction has not commenced, 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		
Air Quality/ Use Low-Volatile Organic Compound (VOC) Coatings	Air Quality	Use Low-Volatile Organic Compound (VOC) Coatings	48	- MMRP-AQ-CNST-1	-	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.  For Q1 2023, construction has not commenced, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Avoid Nesting Bird Season	Biological Resources and Wetlands	Avoid Nesting Bird Season	49	- MMRP-BIO-CNST-A	-	Vol-1, ROD	<b>Avoid Nesting Bird Season:</b> To the extent feasible, the contractor will schedule all construction (particularly tree removal and pruning) activities to avoid the bird nesting season (January 1–August 31). If such activities are scheduled to take place outside the nesting season, the contractor will avoid all effects on nesting birds, including raptors, protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code. The nesting season for most birds in Santa Clara County typically extends from February 1 through August 31, although some birds (e.g., raptors and hummingbirds) may nest as early as January 1 if a period of favorable weather persists.	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.  On 1/23/23, a nesting bird survey was conducted at Newhall Yard/Santa Clara Station. No active bird nests or nesting behaviors were observed within trees slated for removal nor in the surrounding buffers. A total of 200 trees were removed from the Newhall Yard/Santa Clara Station in Q1 2023.	
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	<b>Conduct Preconstruction/Predisturbance Surveys for Nesting Birds:</b> If it is not possible to schedule construction activities that involve tree removal or pruning between September 1 and January 1, then a qualified biologist will conduct preconstruction/predisturbance surveys for nesting birds to ensure that no nests will be disturbed during construction activities. These surveys will be conducted no more than 48 hours prior to the initiation of construction. During each survey, a qualified biologist will inspect all potential nesting habitats (e.g., trees, shrubs, grasslands, and buildings) in accessible areas within 300 feet of impact areas for raptor nests and within 100 feet of impact areas for nests of non-raptors. If an active nest (i.e., a nest with eggs or young, or any completed raptor nest) is found sufficiently close to work areas to be disturbed by these activities, the biologist, in consultation with the California Department of Fish and Wildlife (CDFW), will determine the extent of a disturbance-free buffer zone to be established around the nest (typically 300 feet for raptors and 50 to 100 feet for other species), to ensure that no nests of species protected by the MBTA and California Fish and Game Code will be disturbed as a result of construction activities.	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.  On 1/23/23, a nesting bird survey was conducted at Newhall Yard/Santa Clara Station. No active bird nests or nesting behaviors were observed within trees slated for removal nor in the surrounding buffers. A total of 200 trees were removed from the Newhall Yard/Santa Clara Station in Q1 2023.	
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	<b>Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Trees:</b> If tree removal or trimming cannot be conducted between September 15 and October 30, qualified biologists will examine trees for suitable bat-roosting habitat before tree removal or trimming.  The biologists will identify high-quality habitat features (e.g., large tree cavities, basal hollows, loose or peeling bark, larger snags, palm trees with intact thatch) and search the area around these features for bats and bat signs (e.g., guano, culled insect parts, staining). Riparian woodland, orchards, and stands of mature broadleaf trees are considered potential habitat for solitary foliage-roosting bat species. Because signs of bat use are not easily found, and trees cannot be completely surveyed for bat roosts, VTA will implement the protective measures listed below (in MMRP-BIO-CNST-C-02 through C-06) for trees containing high-quality habitat features.	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.  1/20/23, a roosting bat survey was conducted at Newhall Yard/Santa Clara Station. No bats, or signs of bat presence, were observed within the trees slated for removal. However as this measure identifies peeling bark as a high-quality habitat feature and notes the difficulty in finding bat sign, MMRP-BIO-CNST-C-04 and C-06 will be followed.  2/9/23, a roosting bat survey was conducted in the trees at the	

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Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	52	- MMRP-BIO-CNST	C-02	Vol-1, ROD	No Disturbance to Bat Roosting Trees Between April 1 and September 15	Program-wide	D	C		VTA/C	IC	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>Of the 200 trees removed from the Newhall Yard/Santa Clara Station in Q1 2023, only 2 trees were non-maternity roost trees and were removed in accordance with this mitigation measure. A qualified biologist performed a roosting bat survey on 1/20/2023, and a qualified biological monitor was present during the tree felling and removal from 1/23/2023 - 1/26/2023. No roosting bats were observed during the survey or the tree removal.</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	53	- MMRP-BIO-CNST	C-03	Vol-1, ROD	Remove Bat Roosting Trees between September 15 and October 30	Program-wide	D	C		VTA/C	IC	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>A total of 2 non-maternity roost trees were removed from the Newhall Yard/Santa Clara Station in Q1 2023 in accordance with this mitigation measure. A qualified biologist performed a roosting bat survey on 1/20/2023, and a qualified biological monitor was present during the tree felling and removal from 1/23/2023 - 1/26/2023. No roosting bats were observed during the survey or the tree removal.</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	54	- MMRP-BIO-CNST	C-04	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.  <b>A total of 2 non-maternity roost trees were removed from the Newhall Yard/Santa Clara Station in Q1 2023 in accordance with this mitigation measure. A qualified biologist performed a roosting bat survey on 1/20/2023, and a qualified biological monitor was present during the tree felling and removal from 1/23/2023 - 1/26/2023. The two large Eucalyptus Globulus trees were felled in smaller pieces rather than cutting the entire tree down. No roosting bats were observed during the survey or the tree removal.</b>	

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Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	55	- MMRP-BIO-CNST	C-05	Vol-1, ROD	Ensure Maternity Roost is Undisturbed until September 15	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: 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>A total of 2 non-maternity roost trees were removed from the Newhall Yard/Santa Clara Station in Q1 2023 in accordance with this mitigation measure. A qualified biologist performed a roosting bat survey on 1/20/2023, and a qualified biological monitor was present during the tree felling and removal from 1/23/2023 - 1/26/2023. No roosting bats were observed during the survey or the tree removal.</b></p>	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees	56	- MMRP-BIO-CNST	C-06	Vol-1, ROD	Biologists to Monitor Tree Removal	Program-wide	D	C		VTA/C	IC	<p>The four contract packages and current design status is as follows: 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>A total of 2 non-maternity roost trees were removed from the Newhall Yard/Santa Clara Station in Q1 2023 in accordance with this mitigation measure. A qualified biologist performed a roosting bat survey on 1/20/2023, and a qualified biological monitor was present during the tree felling and removal from 1/23/2023 - 1/26/2023. No roosting bats were observed during the survey or the tree removal.</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	C-07	Vol-1, ROD	<p>Conduct Roosting Bat Surveys at Buildings</p> <p><b>Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings:</b> Prior to the building removal or demolition, qualified biologists will conduct daytime surveys to assess the building(s) for potential bat roosting habitat, and to look for bats and bat sign. Qualified biologists will have knowledge of the natural history of the species that could occur and sufficient experience determining bat occupancy in buildings and bat survey techniques. The biologists will examine both the inside and outside of the buildings for potential roosting habitat, as well as routes of entry to the buildings. The biologists will note and map on drawings of the buildings the locations of any roosting bats, signs of bat use, and entry and exit points. The biologists will also photograph roost sites as feasible. The habitat assessment surveys should be conducted as far in advance of demolition as possible to allow time for planning and coordinating with CDFW, should bats be found.</p> <p><b>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).</b></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>Habitat assessment survey was performed on 2/09/2023. No bats, signs of roosting bats, was observed in the building or within trees onsite. Survey reports may be found in project folder "051-068_MMRP_BIO-CNST-C01-C18 Bats". Measures CNST-C-08 through C-18 will be implemented as needed.</b></p>	

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Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	58	- MMRP-BIO-CNST	C-08	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	In Q1 2023, demolition occurred at 1600 Las Plumas Ave and preconstruction bat survey and monitoring was performed on 3/9/2023 in the building at the 1600 Las Plumas Ave property, 24 hours prior to demolition. No bats or signs of bat presence were observed within the existing building during the surveys. See "051-068_MMRP_BIO-CNST-C01-C18 Bats" for survey and monitoring reports.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	59	- MMRP-BIO-CNST	C-09	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	60	- MMRP-BIO-CNST	C-10	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.	

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Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	61	- MMRP- BIO- CNST	C-11	Vol-1, ROD	Conduct Follow-Up Roosting Bat Surveys at Buildings	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	62	- MMRP- BIO- CNST	C-12	Vol-1, ROD	Install Bat Roosting Exclusion Measures	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	63	- MMRP- BIO- CNST	C-13	Vol-1, ROD	Conduct Roosting Bat Surveys Within 24 Hours of Building Demolition	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.	



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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-CN-14	Vol-1, ROD	Implement Roosting Bat Protective Measures	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.		
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-CN-15	Vol-1, ROD	No Building Demolition While Bats Are Present	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.		
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-CN-16	Vol-1, ROD	Only Remove Roosting Building Habitat Prior to Hibernation	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.		

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Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	67	- MMRP-BIO-CNST	C-17	Vol-1, ROD	Install Roosting Bat Exclusion Devices	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	68	- MMRP-BIO-CNST	C-18	Vol-1, ROD	Provide Compensatory Mitigation for Roosting Bat Habitat	Program-wide	D	C		VTA/C	IC	In Q1 2023, no bats or bat signs were observed in the initial preconstruction survey on 2/09/2023, so this measure was not required. See MMRP-BIO-CNST-C-07.	
Biological Resources and Wetlands/ Protect Riparian Habitat	Biological Resources and Wetlands	Protect Riparian Habitat	69	- MMRP-BIO-CNST-D	-	Vol-1, ROD	<b>Protect Riparian Habitat:</b> VTA will design all BART Extension facilities to avoid temporary and permanent adverse effects on riparian habitat. VTA will signify as environmentally sensitive areas on plans all riparian forest areas identified along the Guadalupe River and Los Gatos Creek and will ensure such habitat is marked with protective orange fencing or flagging during construction to avoid disturbance or accidental intrusion by workers or equipment.  Contractors will not use night lighting for construction activities and staging in the riparian area.	Guadalupe River ; Los Gatos creek		C		VTA/C	IC	The four contract packages and current design status is as follows: 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 Q1 2023, no construction occurred near Guadalupe River and Los Gatos Creek.	

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Biological Resources and Wetlands/ Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	Biological Resources and Wetlands	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	70	- MMRP-BIO-CNST-E	-	Vol-1, ROD	Conduct Preconstruction Tricolored Blackbird Nesting Surveys  A qualified biologist will conduct a field investigation to identify and map potential nesting substrate. Nesting substrate generally includes flooded, thorny, or spiny vegetation (e.g., cattails, bulrushes, willows, blackberries, thistles, or nettles). If potential nesting substrate is found, VTA may revise the construction staging areas to avoid all areas within a 250-foot buffer around the potential nesting habitat, and biologists will conduct appropriate surveys. If VTA chooses not to avoid the potential nesting habitat and the 250-foot buffer, biologists will conduct additional nesting surveys.	N/A	N/A	N/A	N/A	N/A	N/A	N/A - See 2018 for Documentation	N/A
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  <b>Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility):</b> To avoid or minimize direct effects of construction activities on burrowing owls, VTA will implement the procedures described below (MMRP-BIO-CNST-F-02 to F-15). This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 15 of the SCVHP (SCVHA 2012).	Newhall Maintenance Facility	D	C		VTA/C	IC	This is a summary mitigation measure; please refer to the following measures MMRP-BIO-CNST-F-02 to F-15 related to burrowing owls for the breeding and non-breeding season, respectively.  Note that these measures only apply at the Newhall Maintenance Facility, which is the only area on the project with burrowing owl habitat.	
Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility)	72	- MMRP-BIO-CNST-F-02	-	Vol-1, ROD	Conduct Preconstruction Burrowing Owl Surveys  <b>Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility):</b> Prior to any ground disturbance related to BART Extension Alternative activities, a qualified biologist will conduct preconstruction surveys in all suitable habitat areas as identified by SCVHA. The purpose of the preconstruction surveys is to document the presence or absence of burrowing owls on the construction site, particularly in areas within 250 feet of construction activity.  To maximize the likelihood of detecting owls, the preconstruction survey will last a minimum of 3 hours. The survey will begin 1 hour before sunrise and continue until 2 hours after sunrise (3 hours total) or begin 2 hours before sunset and continue until 1 hour after sunset. Additional time may be required at large construction sites. The biologist will conduct a minimum of two surveys (if owls are detected on the first survey, a second survey is not needed). The biologist will count all owls observed and map their location.  Surveys will conclude no more than 2 calendar days prior to construction. Therefore, the project proponent must begin surveys no more than 4 days prior to construction (2 days of surveying plus up to 2 days between surveys and construction). To avoid last minute changes in schedule or contracting that may occur if burrowing owls are found, VTA may also conduct a preliminary survey up to 14 days before construction. This preliminary survey may count as the first of the two required surveys as long as the second survey concludes no more than 2 calendar days in advance of construction.	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, BUOW Surveys were conducted on 1/20 and 1/23. 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  <b>Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)</b> - In order to allow covered activities to go forward in burrowing owl habitat, VTA will employ avoidance measures described below to ensure that direct take does not occur.  If evidence of burrowing owls is found during the breeding season (February 1–August 31), VTA will avoid all nest sites that could be disturbed by construction during the remainder of the breeding season or while the nest is occupied by adults or young (occupation includes individuals or family groups foraging on or near the site following fledging). Avoidance will include establishment of a 250-foot non-disturbance buffer zone around nests. Construction may occur outside of the 250-foot non-disturbance buffer zone.	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.	

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Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	74	MMRP-BIO-CNST-F-04	Vol-1, ROD	Construction Inside 250-foot Owl Buffer	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.		
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	In Q1 2023, this measure did not apply because no BUOW surveys were required.		
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	In Q1 2023, this measure did not apply because no BUOW surveys were required.		
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	In Q1 2023, this measure did not apply because no BUOW surveys were required.		

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Biological Resources and Wetlands/ Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	Biological Resources and Wetlands	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1–August 31)	78	MMRP-BIO-CNST-	F-08	Vol-1, ROD	Cease Construction if Owl Behavior Changes	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.	
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	In Q1 2023, this measure did not apply because no BUOW surveys were required.	
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	In Q1 2023, this measure did not apply because no BUOW surveys were required.	
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	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.	

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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)	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	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.	
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	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.	
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	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.	
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	Newhall Maintenance Facility	D	C		VTA/C	IC	In Q1 2023, this measure did not apply because no BUOW surveys were required.	

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Cultural Resources/ Implement Programmatic Agreement and Archaeological Resources Treatment Plan	Cultural Resources	Implement Programmatic Agreement and Archaeological Resources Treatment Plan	86	- MMRP-CUL-CNST-A	-	Vol-1, ROD	Implement Programmatic Agreement (PA) and Archaeological Resources Treatment Plan (ARTP)  Implement Programmatic Agreement 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 Q1 2023, VTA prepared 2022 Annual Programmatic Agreement Report and submitted to FTA. Planning for archaeological investigations is 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  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.	
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	88	- MMRP-GEO-CNST-A-02	-	Vol-1, ROD	Use Pile Foundations as a Means of Ground Densification  Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • VTA may use pile foundations or equivalent measures as a means of ground densification as a cost-effective mitigation measure for the seismic liquefaction hazard.  (Also see MMRP-GEO-CNST-A-06).	Program-wide	D	C	P		VTA/C	IC	The four contract packages and current design status is as follows: 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 Q1 2023, design for liquefaction hazards is underway.	

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Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	89	- MMRP-GEO-CNST-A-03	Vol-1, ROD	Support Parking Garages on Piles	<p><b>Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards:</b></p> <ul style="list-style-type: none"> <li>VTA will support parking garages at the stations on piles or equivalent geotechnically sound support.</li> </ul> <p><i>(Also see MMRP-GEO-CNST-A-06).</i></p>	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 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.</p> <p><b>In Q1 2023</b>, design for liquefaction hazards is underway.</p>	
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	<p><b>Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards:</b></p> <ul style="list-style-type: none"> <li>For shallow foundations for other peripheral facilities around the stations and pavement and parking lot, VTA will implement the following if necessary. <ul style="list-style-type: none"> <li>Use additional reinforcement, construction joints, and grade beams.</li> <li>Integrate subgrade improvements (using geotextile fabric and structural fill), and other methods to accommodate potential ground settlements.</li> </ul> </li> </ul> <p><i>(Also see MMRP-GEO-CNST-A-06).</i></p>	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 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.</p> <p><b>In Q1 2023</b>, design for liquefaction hazards is underway.</p>	
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	<p><b>Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards:</b> To mitigate potential liquefaction-related uplift of the BART Extension's underground tunnels and stations situated below the water table in liquefiable soils, VTA will ensure that the construction contractor either applies anchors or designs the structures' concrete foundations and walls thick enough to make the total weight of the structures large enough to completely counteract the liquefaction-related uplift force. <i>(Also see MMRP-GEO-CNST-A-06).</i></p>	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 2 Design Criteria Manual (DCM) Section 11.9 Tunnels &amp; 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.</p> <p><b>In Q1 2023</b>, design for liquefaction hazards is underway.</p>	



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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 Q1 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 historic properties in Q1 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  Implement Preconstruction and Post-construction Building Condition Surveys for Settlement- Historic Buildings: For historic structures, the Condition Assessment Report, in accordance with Section 106, will be prepared along with the preconstruction building condition surveys. Results will be used by a structural engineer in coordination with the historic Qualified Professional (QP) to identify structural settlement thresholds for each historic structure prior to construction. If anticipated maximum settlement due to tunneling or cut-and-cover activities would cause more than cosmetic damage, then ground treatment technologies outlined in Section 5.3.1.4, Ground Treatment, will be employed to further reduce settlement to within building-specific structural settlement thresholds. In the event of inadvertent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic QP will implement these repairs in consultation with FTA and SHPO.  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 completed Condition Assessment Reports in accordance with Section 106 on five historic properties in Q1 2023.	

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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  The contractor will conduct ground surface monitoring prior to and after tunneling by licensed land surveyors. The contractor will mount survey monitoring points on potentially affected structures and representative historic buildings, including the most susceptible structures, select utilities susceptible to settlement, and in representative locations immediately adjacent to streams within the settlement trough along the tunnel alignment to monitor ground movements and effects of tunnel boring. The contractor must obtain approval from VTA and the historic QP to install any monitoring devices or crack gauges on or in historic buildings that require alteration of the building. The contractor will provide settlement monitoring data to VTA immediately upon completion of the field survey and use the data to assist in minimizing adverse effects along the tunnel alignment.	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.  In Q1 2023, this measure did not apply because construction has not commenced.	
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  For the cut and cover activities, the contractor will perform building and ground surface monitoring prior to, during, and after construction to survey the effects of cut-and-cover activities on structures, historic buildings, and utilities. The contractor will mount survey monitoring points on all potentially affected structures and historic buildings, including the most susceptible structures, select utilities susceptible to settlement, and in representative locations within the limit of influence around the cut-and-cover excavations to monitor any effects of settlement. The contractor must obtain approval from VTA and the historic QP to install any monitoring devices or crack gauges on or in historic buildings that require alteration of the building. Survey monitoring points will be field surveyed by licensed land surveyors at a frequency determined by the preconstruction building survey or Condition Assessment Report (for historic buildings). The contractor will provide settlement field survey monitoring data to VTA immediately upon completion of the field survey. The data will be used to direct real-time modifications to shoring and ground treatment practices and procedures as appropriate to minimize adverse effects within the limit of influence around the cut-and-cover excavations.	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 Q1 2023, this measure did not apply because construction has not commenced.	
Geology, Soils, and Seismicity/ Implement Preconstruction Condition Surveys for Utilities	Geology, Soils, and Seismicity	Implement Preconstruction Condition Surveys for Utilities	97	- MMRP-GEO-CNST-E	-	Vol-1, ROD	Implement Preconstruction Condition Surveys for Utilities  The contractor will conduct preconstruction condition surveys of utilities deemed to be potentially at risk due to surface settlement or ground movement at BART Extension and TOJD sites. The contractor will monitor major utilities deemed to be at risk during construction and will coordinate with utility providers prior to installation of utility monitoring points.	Program-wide	D	C		VTA/C	IC	The relevant contract packages and current design status is as follows:  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.	

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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	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 Q1 2023, this measure did not apply because 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	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 Q1 2023, design for minimization for disturbance of sensitive deposits is underway.	
Geology, Soils, and Seismicity/ Incorporate Design Specifications to Minimize Effects from Expansive Soils	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimize Effects from Expansive Soils	100	- MMRP-GEO-CNST-H	-	Vol-1, ROD	Incorporate Design Specifications to Minimize Effects from Expansive Soils	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 Q1 2023, design to minimize effects from expansive soils is underway.	

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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.  In Q1 2023, this measure did not apply because no grading or site preparation occurred.	
Greenhouse Gas Emissions/ Implement Energy Efficiency Measures (for TOJD)	Greenhouse Gas Emissions	Implement Energy Efficiency Measures (TOJD)	102	- MMRP-GHG-A	-	Vol-1, ROD	Implement Energy Efficiency Measures (TOJD)	TOJD		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 TOJD)	Greenhouse Gas Emissions	Participate in Food Waste Programs (TOJD)	103	- MMRP-GHG-B	-	Vol-1, ROD	Participate in Food Waste Programs (TOJD)	TOJD			P	VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Utilize Electrical Landscaping Equipment (for TOJD)	Greenhouse Gas Emissions	Utilize Electrical Landscaping Equipment (TOJD)	104	- MMRP-GHG-C	-	Vol-1, ROD	Utilize Electrical Landscaping Equipment (TOJD)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles (for TOJD)	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD)	105	- MMRP-GHG-	D-01	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Greenhouse Gas Emissions/ Provide Preferential Parking for Electric Vehicles- TOJD Residential Use	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	106	- MMRP-GHG-	D-02	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Residential)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
T Greenhouse Gas Emissions	Greenhouse Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	107	- MMRP-GHG-D	D-03	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	TOJD	D			VTA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	

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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.	
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.  In Q1 2023, this measure did not apply because 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 /Construct Temporary Noise Barriers	Noise and Vibration	Construct Temporary Noise Barriers	111	MMRP-NV-CNST-C	Vol-1, ROD	Construct Temporary Noise Barriers	<p><b>Construct Temporary Noise Barriers:</b> The contractor will install temporary noise barriers or noise control blankets in areas between noisy activities and noise-sensitive receptors, where practical and effective. Temporary noise barriers can reduce construction noise by 5 to 15 dB, depending on the height of the barrier and the placement of the barrier. To be most effective, the contractor will place the barrier as close as possible to the noise source or the sensitive receptor. Temporary barriers tend to be particularly effective because they can be easily moved as work progresses to optimize performance. If temporary noise barriers and site layout do not result in compliance with the noise limit, the contractor may consider retrofitting existing windows and doors with new acoustically rated units for the residential structures.</p>	Project wide; 28TH Street/Little Portugal (Alum Rock)	D	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 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.</p> <p><b>In Q1 2023</b>, this measure did not apply because construction has not commenced.</p>	
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	<p><b>Operate Equipment to Minimize Annoying Noise and Vibration:</b> Contractors will implement the following measures:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Use an augering drill-rig for setting piles in lieu of impact pile drivers, where feasible.</li> <li>• Operate equipment so as to minimize banging, clattering, buzzing, and other annoying types of noises, especially near residential areas during nighttime hours.</li> <li>• Turn off idling equipment, whenever possible.</li> <li>• 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.</li> <li>• During nighttime and weekends, use strobe warning lights and/or back-up observers during any back-up operations, where permitted by the local jurisdiction.</li> </ul>	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 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.</p> <p><b>In Q1 2023</b>, this measure did not apply because construction has not commenced.</p>	
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	<p><b>Route Construction Trucks along Truck Routes Least Disturbing to Residents:</b> 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.</p>	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 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.</p> <p><b>In Q1 2023</b>, this measure did not apply because construction has not commenced.</p>	
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	<p><b>Secure Steel and Concrete Plates over Excavated Holes and Trenches:</b> 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.</p>	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 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.</p> <p><b>In Q1 2023</b>, this measure did not apply because construction has not commenced.</p>	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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>In Q1 2023, this measure did not apply because construction has not commenced.</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>In Q1 2023, work was limited to construction hours.</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 Q1 2023, this measure did not apply because construction 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.  <b>A Construction Noise and Vibration Control Plan (CNVCP) was submitted on 1/31/2023. Comments were received and the Noise Control and Monitoring Plan is being updated to address these comments.</b>	

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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation					2023 Q1	Quarter Mitigation Completed
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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.  <b>No noise generating equipment was operated in Q1 2023.</b>		
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.  <b>No long-term noise monitors were required as construction has not commenced.</b>		



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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  If required, additional noise monitoring site(s) may be added by VTA to address any specific situation or concern. The contractor will submit noise data to VTA for approval on a weekly basis, and will include details on location and type of construction activity and details, photographs, and sketches of noise monitoring locations. A qualified acoustical engineer will determine whether work was within thresholds or not, and indicate any steps taken during monitoring to lower noise levels to within 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.  <b>No long-term noise monitors were required as construction has not commenced.</b>	
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  <b>Ensure Equipment is Pre-certified to Meet Noise Limits:</b> For major equipment to be used at the surface of the construction site for a total duration greater than 5 days, the contractor will ensure that the equipment is pre-certified by the acoustical engineer during field measurements at a test site or guaranteed by the equipment vendor to meet the noise limits developed for construction equipment as shown in Table 5-8. VTA will re-examine and develop the final limits to be applied during the engineering phase, and the contractor will verify these limits during initial and active performance of the work when the equipment arrives on site. The contractor will retest construction equipment at 6-month intervals while in use onsite. Any equipment used during construction may be subject to confirmatory noise level testing while performing the work at the request of VTA.	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.  <b>In Q1 2023, this measure did not apply because construction has not commenced.</b>	
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 Complaint Resolution Procedure: The contractor will implement a complaint resolution procedure to rapidly address any noise and vibration problems that may develop during construction. After a complaint is received, the contractor will assign the complaint a case number and will contact the person making the complaint to receive further clarification on the concern. The contractor will then discuss the issue with the construction team to determine the appropriate action to resolve the issue. The contractor will then again contact the person making the complaint to describe how the issue has been resolved.	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.  <b>In Q1 2023, this measure did not apply because the contractor has not commenced construction.</b>	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	125	MMRP-NV-CNST-	P-01	Vol-1, ROD	<p><b>Prepare a Construction Vibration Control and Monitoring Plan</b></p> <p><b>Implement a Construction Vibration Control and Monitoring Plan:</b> The contractor will be required to submit a Construction Vibration Control and Monitoring Plan to VTA for approval. The plan will be prepared by a qualified Vibration specialist whose qualifications and proposed vibration control and monitoring activities will be subject to approval of VTA prior to construction activities. The Construction Vibration Control and Monitoring Plan will be updated every 3 months and include all the pertinent information about construction equipment and site layout, the projected vibration levels, and the vibration control measures that may be required to comply with the vibration limits as outlined in this measure for each building type.</p> <p>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.</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 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.</p> <p><b>A Construction Noise and Vibration Control Plan (CNVCP) for CP2 West Portal was submitted on 1/31/2023.</b></p>	
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	126	MMRP-NV-CNST-	P-02	Vol-1, ROD	<p><b>Implement a Construction Vibration Control and Monitoring Plan:</b> The results of vibration monitoring will be documented and submitted to VTA weekly. In the event that levels exceed allowable vibration limits, the work will be halted immediately to ensure that no structural damage occurs, and additional required corrective measures consistent with the Construction Vibration Control and Monitoring Plan will be implemented.</p> <p>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.</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 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.</p> <p><b>The CP-2 Noise Control and Monitoring Plan was submitted for review in Q1 2023. Comments were received and the Noise Control and Monitoring Plan is being updated to address these comments.</b></p>	
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	127	MMRP-NV-CNST-	P-03	Vol-1, ROD	<p><b>Implement a Construction Vibration Control and Monitoring Plan:</b></p> <p>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.</p> <p>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-CNSTR 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.</p> <p>For utilities, vibration thresholds will follow industry standards in coordination with utility companies, and typically adhere to a 0.5 PPV (inches/second) threshold.</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 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.</p> <p><b>The CP-2 Noise Control and Monitoring Plan was submitted for review in Q1 2023. Comments were received and the Noise Control and Monitoring Plan is being updated to address these comments.</b></p>	

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Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	128	- MMRP-NV-CNST-	P-04	Vol-1, ROD	Measure Building Vibration in Vertical Direction and Utilities in Accordance with Meter Instructions  For non-historic structures, if construction vibration exceeds the structural or nuisance threshold, the contractor must stop construction and adjust construction methods to meet appropriate vibration limits so that the threshold is not exceeded again.	Program-wide	D	C		VTA/C	IC	The four contract packages and current design status is as follows: 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>The CP-2 Noise Control and Monitoring Plan was submitted for review in Q1 2023. Comments were received and the Noise Control and Monitoring Plan is being updated to address these comments.</b>	
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  Implement a Construction Vibration Control and Monitoring Plan- Historic structures: For historic structures, if construction vibration approaches the structural damage threshold, the historic QP will be notified immediately, in real time. If construction vibration exceeds the structural damage threshold, Contractor must notify the historic QP and VTA immediately, in real time, and stop all vibration-inducing construction work immediately to adjust methods. The contractor will adjust work methods and techniques to meet appropriate vibration limits so that the threshold is not exceeded again before work is restarted.  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.  <b>The CP-2 Noise Control and Monitoring Plan was submitted for review in Q1 2023. Comments were received and the Noise Control and Monitoring Plan is being updated to address these comments.</b>	
Noise and Vibration/ Perform Vertical Direction Vibration Monitoring	Noise and Vibration	Perform Vertical Direction Vibration Monitoring	130	- MMRP-NV-CNST-Q		Vol-1, ROD	Perform Vertical Direction Vibration Monitoring  Perform Vertical Direction Vibration Monitoring: 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.  <b>Vertical direction vibration monitoring was not performed in Q1 2023 as construction has not commenced.</b>	

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			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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	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 Q1 2023, VTA continued to coordinate with property owners for access permission to enter to perform surveys.	
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  Vibration will be monitored as required in Mitigation Measure NV-CNST-P to avoid adverse effects on properties during construction activities. The post-construction survey results will be compared with preconstruction condition surveys so that any construction vibration effects on structures can be assessed. For historic structures, a Condition Assessment Report in accordance with Section 106, will be conducted after construction is complete. 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	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 Q1 2023, VTA completed preparation of five new Condition Assessment Reports (CAR) for historic properties.	
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	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.  In Q1 2023, this measure was not implemented because construction, including muck extraction, has not yet commenced.	

**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 Q1	Quarter Mitigation Completed
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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	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.  In Q1 2023, this measure did not apply because construction has not commenced.	
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	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.  In Q1 2023, this measure did not apply because construction has not commenced.	
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	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	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.	

**BSV Phase II - Environmental Commitments Record  
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Env Doc Chapter / Mitigation Topic	Environmental Document Chapter	Mitigation Topic	MMRP Code		Source Document	Summary	Mitigation Measure	Location	Implementation					2023 Q1	Quarter Mitigation Completed
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
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	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 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.	

**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 Q1	Quarter Mitigation Completed
			Chrono #	Measure #					Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe: Post-construction (P)	Responsible Party	Compliance Status		
Visual Quality and Aesthetics/ Replace Trees	Visual Quality and Aesthetics	Replace Trees	140	MMRP-AES-CNST-A	-	Vol-1, ROD	Replace Trees	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><b>A total of 200 trees were removed from the Newhall Yard/Santa Clara Station between 1/23/2023 - 2/10/2023. The inventory for the removed trees, including the size and if they are invasive/native, can be found in the project sharepoint under the applicable ECR measure folder.</b></p>	
Visual Quality and Aesthetics/ Minimize Light and Glare (for TOJD)	Visual Quality and Aesthetics	Minimize Light and Glare (for TOJD)	141	MMRP-AES-A	-	Vol-1, ROD	Minimize Light and Glare (for TOJD)	TOJD	D	C			IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Water Resources, Water Quality, and Floodplains/ Design and Implement Stormwater Control Measures	Water Resources, Water Quality, and Floodplains	Design and Implement Stormwater Control Measures	142	MMRP-WQ-A	-	Vol-1, ROD	Design and Implement Stormwater Control Measures	Program-wide	D	C	P	VTA/C	IC	<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, Sections 01 35 72 Temporary Water Pollution Control and 01 35 73 Permanent Water Pollution 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><b>In Q1 2023, this measure did not apply because construction has not commenced.</b></p>	