

BSV Phase II - Environmental Commitments Record

Legend

	Blue Text	Indicates updates since last quarterly report
		Indicates N/A or no update/activity is applicable to this quarterly report
	"gray row"	Indicates mitigation measure complete or N/A
	8.07100	Acronyms
	AEOC	Arena Entertainment and Operations Committee
	ARTP	Archaeological Resources Treatment Plan
	BAAQMD	Bay Area Air Quality Management District
	Caltrans	California Department of Transportation
	CEOP	Construction Education and Outreach Plan
	CHSRA	California High Speed Rail Authority
	CMP	Containment Management Plan
	COMP	Construction Outreach Management Program
	СР	Consulting Parties
	СТМР	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
Ζ	ISA	Initial Site Assessment
LEGEND	IST	Isolated Slab Track
S.	NA	Native American
	PA	Programmatic Agreement
	RAPs	Remedial Action Plans
	ROD	Record of Decision
	RWQCB	Regional Water Quality Control Board
	SHPO	State Historic Preservation Officer
	SJRRC	San Joaquin Regional Rail Commission
	SJWC	San Jose Water Company
	ТСР	Traffic Control Plans
	VTA	Santa Clara Valley Transportation Authority
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		Timeframe for Implementation letter codes:
	С	Construction
	D	Design
	Р	Post Construction
	Re	sponsible Party codes: VTA and/or C = Contractor
		Compliance Status letter codes:
	IC	In Compliance
	OU	Out of Compliance
	CC	Complete and Closed
	N/A	Non Applicable

Source Document Abbreviations

Santa Clara Valley Transportation Authority, Board of Directors

VTA-Sust

BOD ATT-A April 5, 2018, Board Memorandum. Attachment A-Recommended Project Description

VTA Sustainable Landscaping Policy CMA-CL-PL-7120

Supplemental Environmental Impact Statement (SEIS), Subsequent Environmental Impact Report (SEIR)

	Volume 1
Chapter 1	Executive Summary
Chapter 2	Alternatives
Chapter 3	NEPA and CEQA Transportation Operation Analysis
Chapter 4	NEPA Alternatives Analysis of Operations
Chapter 5	NEPA Alternatives Analysis of Construction
Chapter 6	CEQA Alternatives Analysis of Construction and Operation
Chapter 7	Other NEPA and CEQA Considerations
Chapter 8	Section 4(f) of the Department of Transportation Act of 1966
Chapter 9	Financial Considerations
Chapter 10	Agency and Community Participation
	Volume 2. Responses to Comments
	Federal Transit Administration Record of Decision
nability Pr	actices
	VTA Green Building Policy 400.004
	Chapter 2 Chapter 3 Chapter 4 Chapter 5 Chapter 6 Chapter 7 Chapter 8 Chapter 9 Chapter 10

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	# Source Docum	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe:Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigation Completed
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	1	- MMRP- / TRA- (CNST-	4- Vol-1, D1 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 (ECDP) 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 ECDP after the environmental process is complete and implement it prior to construction. The ECDP will ensure that VTA coordinates construction activities with existing business operations and other development projects to minimize disruption and delays. The ECDP will also establish a process that will address the concerns of businesses and their customers, property owners, residents, and commuters. The ECDP wille incorporated into the plans and specifications of all contracts through which the BART Extension will be implemented. Critical components of the CEDP 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	tion	Develop and Implement a Construction Education and Outreach Plan	2	- MMRP- / TRA- (CNST-	4- Vol-1, 12 ROD		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	с		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-Dridon Field office is currently under construction in conjunction with the new YIA Downtown Service Center. It is anticipated to be opened in 2024. The search for a location for the 28th Street/Little Portugal field office is still underway.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	3	- MMRP- / TRA- (CNST-	4- Vol-1, D3 ROD		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	с		VTA	IC	In 01 2024, VTA maintained the public outreach phone number and email for project inquiries (Englind 408-321-2345, Sanishi Tagalog, Chinese, Vietnamese, Korean & Portuguese: 408-321-2300, TTY: 408-321-2330 and visbart@vtabov.com).	

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Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	4	- MMRP- TRA- CNST-			Conduct Business Operational Surveys	Develop and Implement a Construction Education and Outreach Plan. Conduct preconstruction operational survey, of businesses located adjacent to construction areas to ascertain hours of operation, access, deliveries, customer base, special circumstances, and key contacts.	Program- wide	D	с		VTA	IC	VTA conducted pre-construction operational as well as access and service needs interviews for over 50 businesses, institutions and schools in the project corridor adjacent to future potential construction staging areas in Q4 2020. Coordination with new and existing businesses near expected construction areas is ongoing to prevent impacts to the businesses.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	5	- MMRP- TRA- CNST-			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	с		VTA	IC	In Q1 2024, meetings were held with City of San Jose's Arena Entertainment and Operations Committee (AEOC) on 1/11/2024, 3/14/2024. 2 meetings were held with Downtown West (DTW).	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta	Develop and Implement a Construction Education and Outreach Plan	6	- MMRP- TRA- CNST-		ol-1, OD	Engage with Stakeholders	Develop and Implement a Construction Education and Dutreach Plan. Inform and engage partner agencies, stateholders, Including UTA's Advis Silicon Valley Planse 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	SSVI held three program-wide TTA flick Workshops (1/16/24.1/18/24) with FTA flick Assessors regarding project background, budget, risks and timeline. VTA held three in-person CWG meetings (2/6/24-2/8/24) All CP2 CTMPs were placed on hold for the duration of Q1 2024.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta tion	Develop and Implement a Construction Education and Outreach Plan	7	- MMRP- TRA- CNST-	A- Vi 07 R	ol-1, OD	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	с		VTA	IC	VTA attended 6 Public Tabling Events (1/25, 2/17, 2/27, 2/29, 2/29, 3/9).	
Transportation / Develop and Implement a Construction Education and Outreach Plan	Transporta	Develop and Implement a Construction Education and Outreach Plan	8	- MMRP- TRA- CNST-		ol-1, OD		Develop and Implement a Construction Education and Outreach Plan: Distribute and post project information and advanced construction conditication will be project website, social and traditional media, signage, face-to-face visits, flyers, mailers, emails, and other communication methods as appropriate.	Program- wide	D	с		VTA	IC	In Q1 2024: • Sconstruction notices were issued and filered; • 30 Social Media posts were shared	

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Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	9	- MMRP- TRA- CNST-		Vol-1, ROD	Develop Project Signage Program	Develop and Implement a Construction Education and Outreach Plan: Develop a project signage program identifying project corridor, station areas, construction timeline, and funding.	Program- wide	D	с		VTA	IC	VTA drafted templates for project identification, project corridor, and contractor field fiftice signs. VTA is also working with the tunnel and trackwork contractor to develop a signage plan for upcoming Project stages.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	10	- MMRP- TRA- CNST-		Vol-1, ROD	Display Maps and Construction Schedule	Develop and Implement a Construction Education and Outreach Plan. Display maps and construction schedule information in project field office(s) and around the construction area.	Program- wide	D	с		VTA	IC	Construction has not begun, therefore construction schedule information has not been posted at construction sites. This measure will be implemented in future quarters.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	11	- MMRP- TRA- CNST-		Vol-1, ROD	Display Parking and Access	Develop and Implement a Construction Education and Outreach Plan: Increase visibility of alternative parking and access via signage, website postings, and other communication methods.	Program- wide	D	с		VTA	IC	In Q1 2024, VTA continued developing a construction webpage and a construction activity may 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	tion	Develop and Implement a Construction Education and Outreach Plan	12	- MMRP- TRA- CNST-		Vol-1, ROD	Maintain Media Relations	Develop and Implement a Construction Education and Outreach Plan: Maintain media relations (i.e., news releases, news articles, and interviews).	Program- wide	D	с		VTA	IC	The media covered the project 46 times and VTA wrote 2 blogs in Q1 2024.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	13	- MMRP- TRA- CNST-		Vol-1, ROD	Designate Community Outreach Personnel	Develop and Implement a Construction Education and Outreach Plan: Designate community outreach personnel available on site for the duration of the construction project.	Program- wide	D	с		VTA	IC	VTA designated project staff that will lead outrach within each work area and the CP2 contractor has two Community Construction Relationship Offices (CCR00) that will be available during construction. Office hours will be established once the field offices are completed.	

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Transportation / Develop and Implement a Construction Education and Outreach Plan		Develop and Implement a Construction Education and Outreach Plan	14	- MMRP- TRA- CNST-	A- Vol 14 RC		Develop and Implement a Construction Education and Outreach Plan: Work with property owners and business owners in the station areas to promote access to businesses during construction, including enhanced signage.	Program- wide	D	г ө с	Tim	VTA	ю	The VTA Board of Director's approved the implementation and funding of the Business Resource Program (BRP) on March 7, 2024. VTA continues to establish implementation of the four Program elements that will identify ways VTA can the Jalleviate disruptions and support the business community during construction.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	15	- MMRP- TRA- CNST-	A- Vol 15 RC		Develop and Implement a Construction Education and Outreach Plan: Provide marketing assistance, technical business support, and cross-promotional efforts to businesses within the area impacted by construction to encourage customers to shop at businesses during construction.	Program- wide	D	с		VTA	IC	The VTA Board of Director's approved the implementation and funding of the Business Resource Program (BRP) on March 7, 2024. VTA continues to establish implementation of the four Program elements that will identify ways VTA can hep alleviate disruptions and support the business community during construction.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	16	- MMRP- TRA- CNST-	A- Vol 16 RC		Develop and Implement a Construction Education and Outreach Plan: Establish outreach to stakeholders to provide advanced notice of scheduled utility outages.	Program- wide	D	с		VTA	IC	No utility outages occurred in Q1 2024. Notice will be provided to stakeholders when utility outages are required in future quarters.	
Transportation / Develop and Implement a Construction Education and Outreach Plan	tion	Develop and Implement a Construction Education and Outreach Plan	17	- MMRP- TRA- CNST-	A- Vol 17 RC		Develop and implement a Construction Education and Outreach Ham: Throughout development and implementation, the education and outreach activities will be comprehensive, seeking widespread involvement, proactive, with efforts geared toward obtaining input, as well as disseminating information; responsive to various needs, including multiple languages and alternative formats; and timely, accurate, and results-oriented.	Program- wide	D	с		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	Transporta tion	Develop Construction Transportation Management Plan (CTMP)	18	- MMRP- TRA- CNST-	B- Vol-1, 31 ROD	Develop Construction Transportation Management Plan (CTMP)	Develop and implement a Construction Transportation Management 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 will be the Construction of the BATE Stension. One element of the Master Cooperative Agreements with the cities will be the Construction of the BATE Stension. One element of the Master Cooperative Agreements with the cities will be the Construction of the BATE Stension. One element of the Master Cooperative Agreements with the cities will be the Construction of the BATE Obscions-specific circulation and access within and around the construction areas for all modes, including automobiles, trucks and construction vehicles, bicylists, pedestrians, and public transportation such as buses and light rate to coordinate low 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 Veniliation Structure, Downtown San Jose Station, Dindro Station, Stotcho Avenue Veniliation Structure, West Tunnel Portal, Newhall Mainteance 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 Edemsion will be implemented. Critical components of the CTMP are as follows: • Sequencing schedule depicting the proposed location and timing of construction activities on a routine basis for the duration of the project. • Proposed plassing of construction, anticipated lane and street docures, decure, themporary signals, and street reconfigurations, including durations of all of the above and signag	Program- wide	Đ	c		VTA	ю	All C22 CTMPs were placed on for the duration of Q1 2024. KST's CTMP scopes for the remainder of Contract Package 2 remains as follow: 1. West Portal Early Work Construction (Approved) 2. Downtown San Jose and Diridon Early Work Construction and Tunneling and Heavy Construction 3. West Portal Tunneling and Heavy Construction 4. East Portal and 28th St Early Work Construction and Tunneling and Heavy Construction The remaining CTMPs will be developed in the order of 2, 4, and 3.	

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Transportation/ Develop and Implement a Construction Transportation Management Plan	Transporta tion	Develop Construction Transportation Management Plan (CTMP)	19	- MMRP- TRA- CNST-	B- Vol-1 02 ROE	Develop Individual Traffic Control Plans (TCPs)	Develop and Implement a Construction Transportation Management Plan: After the CTMP has been approved, individual Traffic Control Plans (TCPs) will be developed for specific design elements at each of the tem major project elements and throughout the 8-year duration of construction. The TCPs will address all modes including automobiles, trucks, and construction whether, bicyclists, bederirins, and public transportation such as buess 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	Program- wide	D	F g	Time	VTA	о IC	No TCPs were required for the construction work occuring at the West Portal site as part of the CP2 CTMP1 in 01 2024. Additional TCPs will be developed following the finalization of the contract specific CTMPs.	
Transportation/ Develop and implement a Construction Transportation Management Plan	Transporta tion	Develop Construction Transportation Management Plan (CTMP)	20	- MMRP- TRA- CNST-	B- Vol-1 03 ROD	Include Site-Specific Requirements in Traffic Control Plans (TCPs)	Develop and Implement a Construction Transportation Management Plan: The TCPs will include site-specific requirements such as the following. • Alternative access routes where practicable and wayfinding signage for all detours affecting roadway users, including whichair traffic, ruscks and construction whelchs, bioclisis, and pedetrinis. • Early signage of potential construction delays for all roadway users to choose alternate routes. • Condination between VIA and transit provides safe travel corridors within and through construction areas or provide detour routes. • Condination between VIA and transit providers are secasary prior to construction to ensure that any necessary re- routing of bus routes and temporary relocation of bus stops during constructions is done to minimize impacts on bus riders. • Early signage of potential routes delays for transit riders to plan trips accordingly. • Notification of the Cities of San lose and Santa Clara, business owners, residents, and key stakeholders regarding lane and road documers of each paring area. • Magins of all publicly available off-street and on-street parking • Schedule of removed of each paring area. • Requirement that construction workers must park in construction staging areas or other designated areas. • In addition, in condination with citiga parkers, VIA will work with its contractors and the cities to restore parking as construction nears completion to the extent feasible.	Program- wide	D	с		VTA	IC	No TCPs were required for the construction work occurring at the West Portal site as part of the PC2 CTMPI is 0.12024. Additional TCPs will be developed following the finalization of the contract specific CTMPs.	

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Transportation / Implement an Emergency Services Coordination Plan (ESCP)	Transporta tion	Implement an Emergency Services Coordination Plan (ESCP)	21	- MMRP- TRA- CNST-C	Vol-1, ROD	Implement an Emergency Services Coordination	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 Cites of an lose and Santa Clar to develop Master prior to beginning any construction activity. VTA will work with the Cites of an lose and Santa Clar to develop Master during construction of the BART Extension. One element of the Master Cooperative Agreements with the Cites prior to and during construction of the BART Extension. One element of the Master Cooperative Agreements with the Cites will be the COMP. One of the three parts of the COMP is the Emergency Services Coordination (ISCP). 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. Critical components of coordination are as follows. • VTA will inform the local fire and police departments of the construction schedule, and potential lane and road closures. • VTA will with the mergency providers to ensure emergency access to residents and businesses and to maintain the cities' emergency service response times. • VTA will provide road signage for detours and provide manual traffic control on detour routes as necessary.	Program- wide	D	с		VTA		A copparative agreement has been created between VTA and the Cities of San Jose and Santa Citar, and an ESP will be created prior to construction. Adjustments to the ESCP will be implemented should they arise throughout the duration of construction. Outreach notices are kept in the VTA Salesforce program and can be provided if requested.	
Transportation / Provide Temporary Replacement Parking at Diridon Station NEPA ONLY MITIGATION MEASURE	Transporta tion	Provide Temporary Replacement Parking at Diridon Station NEPA ONLY MITIGATION MEASURE	22	- MMRP- TRA- CNST- D	Vol-1, ROD	Provide Temporary Parking at Diridon	Provide Temporary Replacement Parking at Diridon (Diridon Station Only, NEPA ONLY MITIGATION MEASURE): VTA will provide 450 temporary replacement off-street parking spaces during construction to mitigate for parking impacts caused by the BATE Stemsion construction. The temporary replacement parking will be provided prior to the removal of existing parking spaces.	Diridon Station		с		VTA	IC	Construction of the parking garage continues to progress and expected to be completed in Q3 2024. Operational date will be determined based on when the Diridon Construction Staging Area (CSA) will be activated.	

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Transportation/ implement Intersection improvements at Coleman Avenue and Brokaw Road (for TOJD)	tion	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.	Implement Intersection Improvements at Coleman Avenue and Brokaw Road (for TODI): Change the signal cortrol for Brokaw Road (the seast and west lagored this intersection) from Protected left Artium phasing to Spill Phase. Add a shared through/fight-turn lane to the seast and west approaches within the existing right-of-way. Change the existing shored through in the sets of spit-turn only lanes on the seat and west approaches, and change the existing coling from include to Overlap, indicating that many eastbound right turns would be able to turn right on red.	TOJD; Santa Clara		с		VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
ransportation/ mplement Intersection mprovements at Lafayette Street and ewis Street (for TOJD)	tion	Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOJD)	24	- MMRP- TRA-B	- Vol-1, ROD		Implement Intersection Improvements at Lafayette Street and Lewis Street (for TOID): Shift the westbound approach lanes on Lewis Street to the south to allow for the current throug/light-turn lane to operate as a separate fight-turn lane as genrate through lane. A shift of approximately 2 feet would increase the current through/light-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 larkytet Street. The westbound approach and receiving lane would be slightly offset as a result, which can be addressed with dashed pavement markings across the intersection and the intersection and the second through the second second base to proceed the second and receiving lane would be slightly offset as a result, which can be addressed with dashed pavement markings across the intersection and the intersection and the second base the right turn of the second second base to proceed to base the second base the right turn of the other base of the second base the right turn of the other base of the second base the right turn of the other base of the second base the right turn of the other base of the second base the right turn of the other base of the second base the right turn of the other base of the second base the right turn of the other base of the second base o	TOJD; Santa Clara		с	р	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)	tion	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. & 1880 Southbound Ramps	Implement Intersection Improvements at the Intersection of Coleman Avenue and IBOS Southbound Ramps (for TOID): Convert the second (centre) left-turn lane on the F8B0 Of ramp (the intersection's vestboard 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.	TOJD; Santa Clara		с	р	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
ir Quality/ mplement Dust Control Measures	Air Quality	Implement Dust Control Measures	26	- MMRP- / AQ- (CNST-	A- Vol-1, D1 ROD	Implement Dust Control Measures per Bay Area Air Quality Management District (BAAQMD)	Implement Dust Control Mesures: VTA will require construction contractors to implement basic construction mitigation mesures and additional construction mitigation mesures recommended by Bay Area Air Quality Management District (BAAQMD) to reduce fugitive dust emissions. Emission reduction mesures will include the following applicable mesures (MMRP-AQ-CNST-A-02 through A-15, below) or similar performing messures (additional measures may be identified by BAAQMD or the contractor, as appropriate).	Program- wide		с		VTA/C	IC	This is a summary measure, and has been applied as shown in the mitigation measures MMRP-AQ-CNST-A-02 through A-15 below.	
Nr Quality/ mplement Dust Control Measures	Air Quality	Implement Dust Control Measures	27	- MMRP- / AQ- (CNST-	A- Vol-1, D2 ROD		Implement Dut Control Meaures: The contractor will water all exposed surfaces (e.g., parking areas, staging areas, stop liese, graded areas, unpead access roads) not inners per day or as needed to control duct. In times of drought, an effective combination of dust controls may be used in lieu of watering, such as soil binders/stabilizers, or watering may be used to form a crust on undisturbed areas.	Program- wide		с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems CP-3-Newhold Yard(Santa Clars Status), and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measu	Documen	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe:Post- construction (P)	Responsible Party	Compliance Status	01	Quarter Mitigation Completed
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	28	- MMRP- AQ- CNST-	- A- Vol-1, 03 ROD		Implement Dust Control Messures: The contractor will water all exposed surfaces at a frequency that will maintain a minimum soil moisture content of 12 percent. Moisture content can be verified by lab samples or a moisture probe, although such verification is typically visual. No visible dust emissions are permitted to leave the construction area.	Program- wide		с		VTA/C	IC	The four contract packages and current design status is a follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Ciara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS/E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	29	- MMRP- AQ- CNST-	- A- Vol-1, 04 ROD		Implement Duet Control Measures: The contractor will cover or moisten all haul trucks that transport soil, sand, or other loose material offsite such that there are no dust emissions.	Program- wide		с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 system, CP-3-Newfall Ward/Santa Carta Status and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-3 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	30	- MMRP- AQ- CNST-	A- Vol-1, 05 ROD	Use Wet Power Vacuum Street Sweepers	Implement Durt Control Measures: The contractor will remove all will be mud or dirt track-out onto adjacent public roads using wet power vacuum street sweepers at least once per day, or more frequently if needed to control track-out during active soil hauling operations. The use of dry power sweeping is prohibited.	Program- wide		с		VTA/C	IC	The four contract packages and current delign status is as follows: For CP-1 Systems, CP-3-NewFall Yard/Snita Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS42) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	31	- MMRP- AQ- CNST-	A- Vol-1, 06 ROD		Implement Dust Control Measures: The contractor will limit all vehicle speeds on unpaved roads to 15 mph.	Program- wide		с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSE) packages. For CP-2 Tunnel and Trackwork: No unpaved roads were utilized in 01 2024. Therefore, this measure will be implemented in future ounters.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	32	- MMRP- AQ- CNST-	- A- Vol-1, 07 ROD		Implement Duxt Control Measures: The contractor will complete all paving operations on roadways, driveways, and sidewalks as soon as possible. The contractor will also lay building pads as soon as possible after grading, unless seeding or a soil binder is used.	Program- wide		с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSAE) packages. For CP-2 Tunnel and Trackwork: There were no paving operations in Q1 2024. Therefore this measure will be implemented in future quarters.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	33	- MMRP- AQ- CNST-	- A- Vol-1, 08 ROD		Implement Duet Control Measures: The contractor will post a publicly violble sign that includes the telephone number and name of the person to contact at VTA regarding dust comparises. This person will respond and take corrective action within 48 hours. The BAAQMO phone number will also be visible to ensure compliance with applicable regulations.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 system, CP-3 Newfall Varid/Santa Cars Status and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been elected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-3 Tunnel and Trachwork: No publicity viable signs have been posted as no construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	34	- MMRP- / AQ- (CNST-	A- Vol-1, 9 ROD		Implement Dust Control Measures: The contractor will suspend all excavation, grading, and/or demolition activities when average wind speeds exceed 20 mph.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 system, CP-3-tewenbil Yard/Santa Cart Status, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is prearing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	35	- MMRP- 1 AQ- CNST-	A- Vol-1, 10 ROD	Install Windbreaks	Implement Dust Control Measures: The contractor will install windbreaks (e.g., fences with screening) on the windward side(s) of disturbed construction areas where feasible. Windbreaks should have 50 percent (maximum) air porosity.	Program- wide		c		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Fargineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSE) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q3 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Control Measures	36	- MMRP- / AQ- : CNST-	A- Vol-1, ROD	Plant Vegetation ASAP	Implement Dust Control Measures: The contractor will plant vegetative ground cover (e.g., fast-germinating native grass seed) in disturbed areas as soon as possible and water appropriately until vegetation is established.	Program- wide		c		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (DRS4) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Measures	Control	37	- MMRP- AQ- CNST-	- A- Vol 12 RC		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: For CP-1 Systems, CP-3-NewMall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering, Consulting (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS42) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ mplement Dust Control Measures	Air Quality	Implement Dust Measures	Control	38	- MMRP- AQ- CNST-	- A- Vol 13 RC		Implement Dust Control Measures: All trucks and equipment, including their tires, will use designated construction entrances/outs 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 statute is as follows: For CP-1 Systems, CP-3 Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Fragmening, Gostulant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSA2) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ mplement Dust Control Measures	Air Quality	implement Dust Measures	Control	39	- MMRP- AQ- CNST-	- A- Vol 14 RC	1, Install Sediment and D 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: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering, Consultant (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Sediment and erosion controls are included in the Programmatic SWPPP and site-specific West Tunnel Pond 18WPP that were submitted in 01 2024. No construction activities took place in 01 2024, therefore no erosion or sediment controls were installed. This measure will be applied in future quarters as necessary.	

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Air Quality/ Implement Dust Control Measures	Air Quality	Implement Dust Cor Measures	trol	40		4- Vol-1, IS ROD	Control Dust During Operation of Concrete Batch Plants	Implement Dat Control Messures: The contractor will include the following control messures as consistent with BAACMD permitting requirements during the operation of concrete batch plants: a The construction contractor will ensure that the outlet PM10 grain loading for the baghouse will not exceed 0.01 grains per dry standard cubic foct. b 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 and keep the baghouse in good operating condition at all times. The construction contractor will equip the baghouse with a device for messuring the pressure drop across the baghouse. a The construction contractor will equip the baghouse with a device for messing the pressure drop across the baghouse. bagregating more than 3 minutes in any hour, which is as dark or darker than a Ringelman 10. bagregating more than 3 minutes in any hour, which is a dark or darker than a Ringelman 10. bagregating more and a Ringelman 10. bagregating more with BAAQMD rules and regulations.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 systems (D-2-Newhall Varid/Santa Cara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (D'84) packages. For CP-2 Tunnel and Trackwork: For 01 2024, construction or operation of concrete batch plants has not commenced, therefore this measure will be implemented in future quarters.	
Air Quality/ Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines	Air Quality	Use U.S. Environme Protection Agency (Tier 4 or cleaner en	PA)	41	- MMRP- AQ- CNST-B	- Vol-1, ROD	Use U.S. Environmental Protection Agency (EPA) Tier 4 or Cleaner Engines	Use U.S. Environmental Protection Agency (EPA) Tier 4 or cleaner engines: VTA will ensure that all construction contracts stipulate that all off-road, disesi-powered equipment used during construction will be equipped with EPA Tier 4 or cleaner engines, except for specialized construction equipment for which an EPA Tier 4 engine is not available. This mitigation measure assumes emission reductions compared with emissions from an average fleet-wide Tier 2 engine.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation messure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 015 700 Temporary Controls. No construction activities took place in Q1 2024. This measure will be enforced during heavy construction activities.	
Air Quality/ Maintain Construction Equipment	Air Quality	Məlntain Constructi Equipment	nc	42	- MMRP- AQ- CNST-C	- Vol-1, ROD	Maintain Construction Equipment	Maintain Construction Equipment: The contractor will maintain and properly tune all construction equipment in accordance with the manufacturer's specifications. A certified mechanic will check all equipment to determine proper running condition prior to operation.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultur (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PS48) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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Air Quality/ Minimize Idling Times	Air Quality	Minimize Idling Tim	s .	43	- MMRP- AQ- CNST- D	Vol-1, ROD	Minimize Idling Times	Minimize Ulling Times: The contractor will ensure that all diling times are minimized, ether by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by California Airborne Toxic Control Measures, Tile 3, Section 2485 of the California Code of Regulations). The contractor will provide clear signage for construction workers at all access points.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSGE) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Use Equipment Meeting ARB Certification Standards	Air Quality	Use Equipment Mee ARB Certification Standards		44	- MMRP- AQ- CNST-E	- Vol-1, ROD	Use Equipment Meeting Air Resources Board (ARB) Certification Standards	Use Equipment Meeting ARB Certification Standards: All contractors will use equipment that meets ARB's most recent Certification standard for off-road heavy-duty diesel engines.	Program- wide		c		VTA/C	IC	The four contract packages and current design tatus is as follow: For CP-1 Systems, CP-3-NewHall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consulting (GC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (IPSG) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards	Air Quality	Ensure Heavy-Duty Trucks Will Comply EPA Emissions Stand	vith	45	- MMRP- AQ- CNST-F	Vol-1, ROD	Ensure Diesel Trucks Comply with U.S. Environmental Protection Agency (EPA) Emissions Standards	Ensure Heavy-Duty Diesel Trucks Will Comply with EPA Emissions Standards: VTA and contractors will ensure that construction contracts stipulate that all on-road, heavy-duty diesel trucks with a gross which weight rating of 19,500 pounds or greater will comply with EPA 2007 on-road emission standards for PMU and NOX (Lot and 0.20 gram per brake horspower hour, respectively). These PMU and NOX standards were phased in through the 2007 and 2010 model wars on a percentage-of-siats basic [50 percent of slass for no.2007 to 2008 and 100 percent of sales in 2010). This mitigation messure assumes that all on-road, heavy-duty diesel trucks will be model year 2010 and newer and compliant with EPA 2007 on-road emission standards.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Tengenering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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Air Quality/ Use Low-Sulfur Fuel	Air Quality	Use Low-Sulfur Fuel	46	- MMI AQ- CNST G	-	. Vol-1, ROD	Use Low-Sulfur Fuel	Use Low-Sulfur Fuel: The contractor will use low-sulfur fuel (diesel with 15 parts per million or less) in all construction equipment.	Program- wide		c		VTA/C	iC	The four contract packages and current design tatus is as follows: for CP 1 system, CP-1 Wenhall Yand Cart Status (and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-3 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Locate Construction Areas Away from Sensitive Receptors	Air Quality	Lacate Construction Are Away from Sensitive Receptors	as 47	- MMI AQ- CNST	-	Vol-1, ROD	Locate Construction Away from Sensitive Receptors	Locate Construction Areas Away from Sensitive Receptors: The contractor will locate all construction equipment and staging areas away from sensitive receptors and fresh-air intake vents to buildings and air conditioners, where feasible.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Air Quality/ Use Low-Volatile Organic Compound (VOC) Coatings	Air Quality	Use Low-Volatile Organ Compound (VOC) Costi	ic 48	- MMM AQ- CNST		Vol-1, ROD	Use Low-Volatile Organi Compound (VOC) Coatings	Use Low-Volatile Organic Compound (VOC) Coatings: All contractors will use low-VOC (i.e., ROG) coatings that are beyond BAAQMD requirements (i.e., Regulation 8, Rule 3: Architectural Coatings (VOC content is limited to 100 grams per liter for flat coating and 150 grams per liter for non-flat coating)).	Program- wide		c		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultin (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PS42) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 013 574 Sustainability Requirements and Section 01 57 00 Temporary Controls. No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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ological Resources and Wetlands/ oid Nesting Bird Season	Biological Resources and Wetlands	Avoid Nesting Bird Seaso	n 49	- MM BIO- CNST		- Vol-1, ROD	Avoid Nesting Bird Season	Avoid Nesting Bird Season: To the extent feasible, the contractor will schedule all construction (particularly tree removal and pruming) activities to avoid the bird nesting season (January I-August 31), if such activities are scheduled to take place outside the nesting, including activities areason, the contractor will avoid all effects on nesting birds, including reports, protected under the Migratory bird Treaty Act (MRTA) and California Fish and Game Code. The nesting season for most birds in santa Clara County typicall vectors 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	1.0	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consulting (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS42) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
ogical Resources and Wetlands/ duct construction/Predisturbance reys for Nesting Birds	Biological Resources and Wetlands	Conduct Preconstruction/Predistu Bands Surveys for Nestin Birds		- MM BIO- CNST		- Vol-1, ROD	Conduct Preconstruction/Predistu rtanceSurveys for Nesting Birds	Conduct Preconstruction/Predisturbance Surveys for Nesting Birds: 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 each surveys, a qualified biologist will inspect all potential nesting habitats (e.g., trees, hrubs, grasslands, and building) in accessible areas within 300 test of inguat creas for argoin nests and within 100 test of ingut areas for nests of non- raptors. The active test (e.g., trees, hrubs, grasslands, and buildings) in areas to be disturbed by these activities. The biologist, no 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 indust septice); protected 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: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid Suid plan, specification, and estimate (PSAE) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
ogical Resources and Wetlands/ duct Preconstruction Surveys for sting Bat and Implement tective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protectiv Measures- Trees	2 51	- MM BIO- CNST	- 01	- Vol-1, 1 ROD	Conduct Preconstruction Surveys for Roosting Bats	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: If rere 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 hip-quality habitat features (e.g., large tree cavities, basah hollows, loose or peeling bark, larger sage, pain trees with inact thatch) and earch the are around these faurus for hast and barges (e.g., guang, the same south inact thatch) and earch the are around these faurus for hast and barges (e.g., guang, the root is south inact thatch). Recause gins 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: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024, therefore no roosting bat surveys were required. This measure will be applied in future quarters as necessary.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measur	# Source Documer	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe:Post- construction (P)	Responsible Party	Compliance Status	ų.	Quarter Mitigation Completed
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 Protectiv Measures- Trees	52		C- Vol-1, 02 ROD		Conduct Preconstruction Surveys for Roosting Balt and Implement Protective Measures. Trees: The contractor will not remove or disturb trees providing bat roosting habitat between April 1 and September 15 (the maternity period) to avoid effects on pregnant females and active maternity roosts (whether colonial or solitary).	Program- wide	D	с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consolution (GC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS42) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024, therefore no roosting bat surveys were required. This measure will be applied in future quarters as necessary.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys on Roosting East and Implement Protectiv Measures- Trees	5.2	- MMRP- BIO- CNST	C- Vol-1, 03 ROD	Remove Bat Roosting Trees Detween September 15 and October 30	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: The contractor will limit the removal of trees that provide bat roosting habitat to between September 15 and October 30, which corresponds to when bats have not yet entered torpor or would be caring for nonvolant young (i.e., young that are unable to fly).	Program- wide	D	c		VTA/C	ю	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consulturi (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024, therefore no roosting bat surveys were required. This measure will be applied in future quarters as necessary.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures- Trees	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protectiv Measures- Trees	5.4	- MMRP- BIO- CNST	C- Vol-1, 04 ROD	Remove Trees in Pieces	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: The contractor will remove trees in pieces rather than felling an entire tree.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultur (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSAE) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024, therefore no roosting bat surveys were required. This measure will be applied in future quarters as necessary.	

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Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Trees	Biological Resources and Wetlands	Conduct Praconstruction Surveys for Roosting Ba and Implement Protect Measures-Trees	t cc	- MMRF BIO- CNST		Vol-1, ROD	Ensure Maternity Roost is Undisturbed until September 15	Conduct Preconstruction Surveys for Roosting Bal and Implement Protective Measures. Trees: If a maternity most is found, whether solitary or colonial, the contractor will ensure that roost remains undisturbed until September 15 or until a qualified biologist has determined the roost is no longer active.	Program- wide	Đ	c		VTA/C	IC	The four contract packages and current design status is as follows: for CP 1 system, CP-3-Wenhall Yard (Santa Clars Sation, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSA) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q3 2024, therefore no roostin bat surveys were required. This measure will be applied in future quarters as necessary.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Ingelment Protective Measures-Trees	Biological Resources and Wetlands	Conduct Preconstructio Surveys for Roosting Ba and Implement Protect Measures-Trees	t sc	- MMRP BIO- CNST		Vol-1, ROD	Biologists to Monitor Tree Removal	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Trees: If avoidance of non- maternity roost trees is not possible, and tree removal or trimming must occur between October 30 and August 31, qualified biologists will monitor tree trumming/removal of the habitat. If possible, tree trimming or removal about occur in the late afternoon or evening when it is closer to the time that bats would normally arouse. Prior to trimming or removal of trees providing usible roosting habitat, the contractor will shake each tree gently and allow everal minutes to pass before felling trees or removing limbs to allow bats time to arouse and leave the tree. Biologists should search downed specific of each or the tree biologist will prepare a biological monitoring report, which will be provided to VTA and CDFW.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024, therefore no roosting bat surveys were required. This measure will be applied in future quarters as necessary.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstructic Surveys for Roosting and Implement Protect Measures- Buildings	t cz	- MMRP BIO- CNST	₽- C- 07	Vol-1, ROD	Conduct Roosting Bat Surveys at Buildings	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Prior to the building removal or demolition, qualified buiogists will conduct daytime surveys to assess the building (5) for potential bat roosting habita, and to look for bats and bats and on Qualified buiogists will have (nowledge of the natural history of the species that could occur and sufficient experience determining bat occupancy in buildings and bat survey techniques. The buiogists will assume both the inside and outside of the building for potential roosting habita, as well as rous of entry to the buildings. The biologists will note and map on drawings of the buildings the locations of any rootsing bats, signs of bat use, and entry and exit points. The biologists will also photograph roots takes as feasible. The habitat assessment surveys should be conducted as fair in advance of demolition as possible to allow time for planning and coordinating with CDFW, should bats be found. 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).		D	c		VTA/C	Ю	CP2 will be performing the demolition in advance of the other contract packages. Future surveys will be performed as needed by the other contract packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 35 71 Biological Resources Requirements. No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	

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Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roozting 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- Vol-1 08 ROD		Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings: If the building to be adequately assessed (e. all areas of the building contained to be examined) and not babits or limited buildang for present and no signs of bat use are present, qualified biologists will conduct a preconstruction survey of the interior and exterior or the building(s) within 24 hours of demolition. If bats are found roosting during the preconstruction survey, biologists will contact CDFW for direction on how to proceed.	Program- wide	D	c		VTA/C	iC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	59	- MMRP- BIO- CNST	C- Vol-1 09 ROD	Conduct Roosting Bat	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: If moderate or high potential habitat is presen to but there are no signs of bat use, VTA will implement measures under the guidance of a qualified bat biologist to exclude bats from using the building(s) as aroost star, such as sealing of entry points. Prior to installing exclusion measures, qualified biologists will re-survey the building(s) to ensure that no bats are present. Additionally, biologists will conduce a preconstruction survey of the interior and exterior of the building(s) within 24 hours of demolition to confirm that no bats are present. If bats are found roosting during the preconstruction survey, biologists will contact CDPW for direction on how to proceed.	Program- wide	D	c		VTA/C	IC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and implement Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	60	- MMRP- BIO- CNST	C- Vol-1 10 ROD	Implement Roosting Bat	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: If moderate or high potential habitat is present and bats or bat sign are observed, or if exclusion measures are not installed as described above, or the building(s) provides suble habitat but could not be adequately assessed, VTA will implement the following protective measures (MMRP-BIO-CNST-C-11 through C-13).	Program- wide	D	c		VTA/C	iC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	

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Biological Resources and Wetlandy/ 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- SIO- CNST	C- Vol-1, 11 ROD	Conduct Follow-Up Roosting Bat Surveys at Buildings	Conduct Proconstruction Surveys for Roosting Bat and Implement Protective Measures- buildings: Biologists will use night vision goggles and active acoustic monitoring using full spectrum bat detectors during the surveys. VTA will determine a survey plan (number, timing, and type of surveys) in coordination with CDFW.	Program- wide	D	c		VTA/C	ic	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	62	- MMRP- (BIO- CNST	C- Vol-1, 12 ROD	Install Bat Roosting Exclusion Measures	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Based on the timing of demoliton, the extent of bat sign or occupied habitat, and the species present (if determined), the qualified biologists will work with VT and COPW to develop a plan to discourge or exclude bat use prior to demoliton. The plan may include installing exclusion measures or using light or other means to deter bats from using the building to roost.	Program- wide	D	c		VTA/C	IC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	63		C- Vol-1, ROD	Conduct Roosting Bat	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: Biologists will conduct a preconstruction survey of the interior and exterior of the building within 24 hours of demolition.	Program- wide	D	c		VTA/C	IC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #		# Source Documen	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Fimeframe:Post- construction (P)	Responsible Party	Compliance Status	Q1	Quarter Mitigation Completed
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 Protectiv Measures- Buildings	64	- MMRP- C BIO- 1 CNST	- Vol-1, 4 ROD		Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures. Buildings: Depending on the species of bats present, size of the bat roost, and tuning of the demolition, additional protective measures may be necessary. VTA wild determine appropriate measures in coordination with CDPW. These measures may include those listed below (MMRP-BIO-CNST-C-15 through C-17).	Program- wide	D	c	F .	VTA/C	iC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings	65	- MMRP- C BIO- 1 CNST	- Vol-1, 5 ROD		Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: To avoid effects on maternity colonies or hibernating bats, the contractor will not demolish a building while bats are present, generally between April 1 and September 15 (maternity season) and from October 30 to March 1 (hibernation).	Program- wide	D	c		VTA/C	IC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Imperent Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings		- MMRP- C BIO- 1 CNST	- Vol-1, 6 ROD	Only Remove Rossting Building Habitat Prior to Hibernation	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: The contractor will remove only roosting habitat following the materinity season and prior to hibernation, generally between September 15 and October 30, unless the contractor first installs exclusionary devices (as described below). The contractor may use other measures, such as using lights to deter bat roosting, if developed in coordination with and approved by CDFW.	Program- wide	D	c		VTA/C	iC	No buildings were removed or demolished in Q1 2024 , therefore this measure will be implemented in future quarters.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	M Chroi o #	MRP Cod	-	Source Document	Summary	Mitigation Measure	Locatio	Timeframe: Design (D)	Timeframe:	unstruction (c) undefinition	onstruction (P)	Responsible Party	Compliance Status	2024 01	Quarter Mitigation Completed
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 Protectiv Measures- Buildings	67	- MMRF BIO- CNST		Vol-1, ROD	install Roosting Bat Exclusion Devices	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures. Buildings: The contractor will install acclusion devices before the maternily sason and prior to histernation, generally from March 1-30 or September 15–October 30 to preclude bats from occupying a roost site during demolition. Exclusionary devices will only be installed by or under the supervision of an experienced bat biologist.	Program- wide	D	c			VTA/C	iC	No buildings were removed or demolished in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures-Buildings	Biological Resources and Wetlands	Conduct Preconstruction Surveys for Roosting Bat and Implement Protectic Measures- Buildings	60	- MMRF BIO- CNST		Vol-1, ROD	Provide Compensatory Mitigation for Roosting Bat Habitat	Conduct Preconstruction Surveys for Roosting Bat and Implement Protective Measures- Buildings: CDFW may require compensatory mitgation for the loss of roosting habitat depending on the species present and size of the bat roost. Compensation, if equired, will be determined in constitution with CDFW, and may include construction and monitoring of suitable replacement habitat on or near the BART Extension site.	Program- wide	D	c			VTA/C	iC	No buildings were removed or demolished in Q1 2024 , therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Protect Riparian Habitat	Biological Resources and Wetlands	Protect Riparian Habitat	69	- MMRF BIO- CNST- D		/ol-1, ROD	Protect Riparian Habitat	Protect Riparian Habitat: VTA will design all BART Extension facilities to avoid temporary and permanent adverse effects on riparian habitat: VTA will gignly as environmentally sensitive areas on plans all riparian forest areas identified along the Guidalupe River and Los Gatos. Crew and will ensure such tablatis it 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.	Guadalupp River ; Los Gatos cree	x x	c			VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Cara Station, and CP-4 Underground Stations, a General Tenjgenering, Consultent (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: Mo construction occurred near Gadalupe River and Los Gatos Creek in Q1 2024, therefore this measure will be implemented in future quarters.	
Biological Resources and Wetlands/ Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	Biological Resources and Wetlands	Conduct Preconstructior Tricolored Blackbird Nesting Surveys and Determine Appropriate Action	70	- MMRF BIO- CNST-I	-	Vol-1, ROD	Conduct Preconstruction Tricolored Blackbird Nesting Surveys	Conduct Preconstruction Tricolored Blackbird Nesting Surveys and Determine Appropriate Action: There are and have been no known tricolored blackbird nesting colonies in the BART Extension area within the last 5 years. However, to avoid direct effects of construction activities on potential nesting tricolored blackbird colonies, UTA will implement the following procedures. This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 12 of the Stant Clara Valley Habitat Plan (SCHP) (Stant Clara County 2012). 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., cattal), bulrushes, willows, blackberries, thistles, or netted; potential nesting substrate is found VTA may revise the construction staging areas ta 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/.	. ,	i/A	N/A	N/A	N/A - See 2018 for Documentation	N/A

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	MN Chron o #	1RP Code Measure #	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	imetrame: Post- construction (P) Responsible	Party Compliance Status	Q1 Q1 Quarter Mitigation Completed
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- F- BIO- 01 CNST-	Vol-1, ROD	Implement Burrowing Owl Measures	Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Fadilly): To avoid or minimize direct effects of construction activities on burrowing owk, VTA will implement the procedures described below (MMRP-BOL OXET-F2 Uz for 15.1). This mitigation measure incorporates survey, avoidance, and minimization guidelines taken directly from Condition 15 of the SCVHP (SCVHA 2012).	Newhall Maintenance Facility	D	с	VTA	/c ic	This is a summary mitigation measure; please refer to the following measures MMRP-80-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- F- BIO- CNST-	· Vol-1, 2 ROD	Conduct Preconstruction Burrowing Owl Surveys	Conduct Preconstruction Burrowing Owi Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Prior to any ground disturbance related to BART Extension Alternative activities, a qualified biologist will conduct preconstruction arrows in all suitable habita arress as identified by SCVH-H. The purpose of the preconstruction survey is to document the presence or absence of burrowing owls on the construction site, particularly in arress 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 survice and continue until 2 hours after survice (3 hours total) or begin 2 hours before surves continue until 1 hour afters unset. Additional time may be required at large construction active. 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 conduct all owls observed and may 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. Therefore, the project proponent must begin surveys no more than 4 adays prior to construction. Therefore, the project proponent must begin surveys no more than 4 adays prior to construction. Therefore, the project proponent must begin way 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	/с. нс	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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)	73	- MMRP- F- BIO- 03 CNST-	Vol-1, 8 ROD	Avoid Burrowing Owls During Breeding Season	Conduct Preconstruction Burrowing Owi Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-August 31) - In order to allow covered activities to go forward in burrowing owi habitat, VTA will employ avoidance measures described below to ensure that direct take does not occur. If evidence of burrowing owis is found during the breeding season (February 1-August 31), VTA will avoid all next sites that could be disturbed by construction during the remainder of the breeding season or while the next is occupied by adults or young (occupation includes individuals or family groups foraging on or near the site following fledging). Avoidance will include estabilisment of a 250-foot non-disturbance buffer zone around nexts. Construction may occur outside of the 250- foot non-disturbance buffer zone.	Facility	D	с	VTA	/C IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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–Aueust 31)	74	- MMRP- F- BIO- 04 CNST-	Vol-1, I ROD	Construction Inside 250- foot Owl Buffer	Conduct Preconstruction Burrowing Out Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Breeding Season (February 1-August 31) - Construction may take place inside of the 250-foot non- distrubance buffer during the breeding season if the following occurs: • The next is not disturbed, and • VTA develops an avoidance, minimization, and monitoring plan that will be reviewed by CDFW, USFWS, and SCVHA prior to construction based on the following criteria (MMRP-BIO-CNST-F-05 through F-09):	Newhall Maintenance Facility	D	с	VTA	/C IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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- F- BIO- 05 CNST-	Vol-1, 5 ROD	Owl Avoidance and Minimization Plan Approval	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Messures Breeding Season (February 1–4ugust 31) CDFW, USFWS, and the SCVHA approves the avoidance and minimization plan provided by VTA. CDFW, USFWS, and SCVHA will have 21 calendar days to respond to a request from VTA to review the proposed construction monitoring plan. If these parties do not respond within 21 calendar days, it will be presumed that they concur with the proposal and work can commence.	Newhall Maintenance Facility	D	c	VTA	/c ic	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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	1-August 311 Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-August 31)	76	- MMRP- F- BIO- 06 CNST-	Vol-1, ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Breeding Season (February 1–August 31) A qualified biologist monitors the owls for at least 3 days prior to construction to determine baseline nesting and foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	c	VTA	/C IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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- F- BIO- 07 CNST-	Vol-1, 7 ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Breeding Season (February 1–August 31) The same qualified biologist monitors the owls during construction and finds no change in owl nesting and foraging behavior in response to construction activities.	Newhall Maintenance Facility	D	c	VTA	/C IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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 Conduct Preconstruction Burrowing Owl Surveys and Determine Appropriate Action (for Newhall Maintenance Facility): Avoidance Measures: Breeding Season (February 1-August 31)	78	- MMRP- F- BIO- 08 CNST-	Vol-1, 8 ROD	Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Breeding Season (February 1–August 31) If there is any change in owi nesting and foraging behaviors as a result of construction activities, these activities will cease within the 250-foot buffer. Construction cannot resume within the 250-foot buffer until the adults and juveniles from the occupied burrows have moved out of the construction area.	Newhall Maintenance Facility	D	с	VTA	/C IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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–Aueust 31)	79	- MMRP- I BIO- (CNST-	Vol-1, 09 ROD	Excavate Owi Burrow to	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Breeding Season (February 1-August 31) in monitoring indicates that the nest is abandoned point on the end of the nesting season and the burrow is no longer in use by owls, the non-disturbance buffer zone may be removed. The biologist will excavate the burrow to prevent reoccupation after receiving approval from CDFW, USFWS, and SCVHA.	Newhall Maintenance Facility	D	с		VTA/C	IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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- I BIO- : CNST-	Vol-1, 10 ROD	Establish Buffers Around Occupied Burrows	Conduct Preconstruction Burrowing Owi Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Messures: Non-Breeding Season (September 1-January 31). During the non-breeding season (September 1-January 31). VTA will establish a 250 foot non-disturbance buffer around occupied burrows is determined by a qualified biologist. Construction activities outside of this 250-foot buffer are allowed. Construction activities within the non-disturbance buffer are allowed if the following riteria (MMRP-BIO-CNST-F. 11 through F-15) are met in order to prevent owls from abandoning important overwintering sites.	Newhall Maintenance Facility	D	с		VTA/C	IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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- I BIO- : CNST-	F- Vol-1, 11 ROD	Determine Baseline Owl Behavior	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Messures Non-Breeding Essaon (Segathemet – January 31) A qualified biologist monitors the owls for at least 3 days prior to construction to determine baseline foraging behavior (i.e., behavior without construction).	Newhall Maintenance Facility	D	с		VTA/C	IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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)	82	- MMRP- I BIO- : CNST-	Vol-1, 12 ROD	Survey Owl Behavior During Construction	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Breeding Season (September 1-January 31) The same qualified biologist monitors the owls during construction and finds no change in owl foraging behavior in response to construction activities. Monitoring must continue as described here for the non-breeding season as long as the burrow remains active.	Newhall Maintenance Facility	D	c		VTA/C	IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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- I BIO- : CNST-	Vol-1, 13 ROD	Cease Construction if Owl Behavior Changes	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non- Enceding Season (september 1-January 31) If there is any change in owl nesting and foraging behavior as a result of construction activities, these activities will cease within the 250-foot buffer.	Newhall Maintenance Facility	D	с		VTA/C	IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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- I BIO- : CNST-	Vol-1, 14 ROD	Excavate Owi Burrow to	Conduct Preconstruction Burrowing Owi Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Measures: Non-Breeding Season (September 1-January 31) If the owis are going for at least 1 week. VIT mary request lapproval from CDFW, USFWS, and SCVHA for a qualified biologist to excavate usable burrows to prevent owls from re-occupying the site. After all usable burrows are excavated, the buffer zone will be removed and construction may continue. Monitoring must continue as described above for the non-breeding season as long as the burrow remains active.	Newhall Maintenance Facility	D	с		VTA/C	IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl 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- I BIO- : CNST-	Vol-1, L5 ROD	Maintain Non- Disturbance Owl Buffer Zones	Conduct Preconstruction Burrowing Owl Surveys at Newhall Maintenance Facility and Determine Appropriate Action- Avoidance Messures: Non-Breeding Season (September 1-January 31) Construction Monitoring Based on the avoidance, minimization, and monitoring plan developed (as required above), during construction, VTA will establish and maintain the non-distutance buffer zones: a logicitable, Auguited biologist will monitor the site consistent with the requirements described above to ensure that buffers are enforced and owls are not disturbed. The biological monitor will also conduct training of construction personnel on the avoidance procedures, buffer zones, and protocols in the event that a burrowing owl files into an active construction zone.	Newhall Maintenance Facility	D	с		VTA/C	IC	No work occurred at the Newhall Maintenance facility in Q1 2024, therefore no burrowing owl surveys were required.
Cultural Resources/ Implement Programmatic Agreement and Archaeological Resources Treatment Plan		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: A Programmatic Agreement (PA) and a supporting Archaeological Resources Treatment Plan (ARTP) have been developed and will be executed in consultation with interested Native Americans, the California State Historic Preservation Officer (SHPO), the Advisory Courcil on Historic Preservation, the California Department of Transportation (Caltrans) District 4, the Cities of San Jose and Santa Clarx, the Peninsula Corroldor Joint Powers Board, and the South Bay Historical Railroad Society. The PA and ARTP will be implemented prior to and during construction of the BART Extension. The ARTP specifies the National Register of Historic Places criteria applicable for evaluations procedures to implement the Section Dis Process in the field, and standards of evaluation that will be agrepropriate 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 land); testing after demotion of exatt attructures but bofere werg roand-disturbing construction begins; construction-phase monitoring where appropriate; and standards of that arceivers. Areas within the Area of Venthal Tereources, 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	с		VTA	IC	VTA is implementing the Archaeological Resources Treatment PIn(ARTP). Results will be reported to all Consulting Parties (CPs) to the Programmatic Agreement (PA) Annual Report. In Q1 2024, archaeological planning and investigations are ongoing.

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Geology, Solls, 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-		'ol-1, ROD	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards	Incorporate Design Specifications to Millimite Effects from LigueEaction Hazards: IF BART Extension stations, system facilities, or portions of the alignment red determined to be a rares sceeceding pertinent code and standards including the California Building Code and BART Facilities Standards: Design Criteria for liquefaction, VTA will implement the following methods (MMRP-GEO-ENST-A-D through A-DG) during construction to minimize the potential impacts. VTA will determine the exact methods to reduce impacts from liquefaction during final engineering.	Program- wide	D	c	P	VTA/C	IC	This is a summary measure, and has been applied as seen in the mitigation measures MMRP-GEO-CNST-A-01 through A-06 below.	
Geology, Sols, 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-		'ol-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-GG).	Program- wide	D	c	р	VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q1 2024, design for liquefaction hazards is underway.	
Geology Solls, and Satsmicity/ 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- Vo 03 R	'ol-1, ROD	Support Parting Garages on Piles	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: • VTA will support parking garages at the stations on piles or equivalent geotechnically sound support. (Also see MMRP-GEO-CNST-A-O6).	Program- wide	D	c	Ρ	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Progreeming Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&B) packages. For CP-2 Tunnel and Trackwork: In Q1 2024, design for liquefaction hazards is under way.	

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Geology, Solfs, and Salsmichty/ 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- Vol-1, ROD	Integrate Subgrade Improvements for Shallow Foundations	Incorporate Design Specifications to Milimitize Effects from Uquefaction Hazards: For shallow dwardsions for other peripheral facilities around the stations and pavement and parking lot, VTA will implement the following if necessary. O late additional reinforcement, construction joints, and grade beams. O integrate subgrade improvements (using geotextile fabric and structural fill), and other methods to accommodate potential ground settlements. (Also see MMRP-GEO-CNST-A-OG).	Program- wide	D	c	P	VTA/C	IC	The for contract package and current design status is as follows: For CP-1 Systems CP-3 Newholl Yard(Santa Can Status, and CP-4 Underground Stations, a General Engineering Consultant (GKC) has been selected and is propring the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q1 2024, design for liquefaction hazards is underway.	
Geology, Solls, 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- Vol-1, 05 ROD	Mitigate Liquefaction- Related Uplift of Underground Facilities	Incorporate Design Specifications to Minimize Effects from Liquefaction Hazards: To mitigate potential liquefaction- related uplift of the BART Extension's underground tunnels and stations situated below the water table in liquefable tool. VTA will ensure that the construction contractor either applies andnors of edgins the structure: concrete foundations and walls thick enough to make the total weight of the structures large enough to completely counteract the liquefaction- related uplift force. (Also see MMRP-GEO-CNST-A-OG).		D	c	P	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Vard/Santa Clara Station, and CP-4 Underground Stations, a General Faigneering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q1.2024, design for liquefaction hazards is underway.	
Geology, Solis, 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		A- Vol-1, ROD	Consider Other Liquefaction Hazard Mitigation Measures	Incorporate Design Specifications to Minimize Effects from Liquetaction Hazards Other IquetAction hazard mitigation measures used in previous BART projects that may be considered for the BART Extension are as follows. Io in-struct teatment/densification with Whor-erglacement store columns. Io Load transfer to underlying bearing syster, which are non-liqueflable with sol/cement columns. Io Over-excavation and replacement of liquefaction prone solis with compacted engineered fill.	Program- wide	D	с	Ρ	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, OP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS-B2) packages. For CP-2 Tunnel and Trackwork: In Q1 2024, design for liquefaction hazards is underway.	

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Seology, Soils, and Seismicity/ mplement Preconstruction and Post- onstruction Building Condition unveys for Settlement	Geology, Soils, and Seismicity	Implement Preconstruction an construction Buildi Condition Surveys f Settlement	g	93	- MMRP- GEO- CNST-	B- Vol-1, 01 ROD	Conduct Preconstruction Building Condition Surveys	Implement Preconstruction and Post-construction Building Condition Surveys for Statisment: VTA will conduct preconstruction building condition surveys of the literiors and entrois of select structures, both historic and non-historic buildings, within the settlement toaght along the tunnel alignment and within the limit of influence around the cut-and- cover exeavations to assess the baseline control and on the tunnel alignment and within the limit of influence around the cut- and cover exeavations to assess the baseline control building condition surveys of the same structures. VTA will conduct post-construction building condition surveys of the same structures. VTA will conduct post-construction building condition surveys of the same structures. VTA will congress the results of these surveys with the preconstruction condition surveys built any construction-related effects of tunneling and cut-and-cover construction on structures of the same structures. VTA will congress 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 configure as possible so that the results of these ince [TBM]. Surveys will be performed as close to the planned dates of tunneling as possible so that the results of the same (TBM). 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: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (FS42) packages. For CP-2 Tunnel and Trackwork: VTA performed exterior and interior surveys at 3 historic properties in Q1 2024. Report Preparation is underway.	
Seology, Solis, and Seismicity/ mplement Preconstruction and Post- construction Building Condition unreys for Settlement - Historic Juildings	Geology, Soils, and Seismicity	Implement Preconstruction an construction Build Condition Surveys Settlement- Histori Buildings	g	94	- MMRP- GEO- CNST-	B- Vol-1, 02 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 built used by a structure alegineer 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 curval-cover activities would cause more than cosmet damage, then ground treatment technologies outlined in Section 5.3.1.4, Ground Treatment, will be employed to further reduce 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: For CP-1 Systems, CP-3-Hewhall Yard/Santa Clara Station, and CP-4 Underground Station, a General Engineering Consultant (ESC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tumei and Trackwork: VYA performed exterior and interior surveys at 3 historic properties in Q1 2024. Report Preparation is underway.	
eology, Solis, and Seismicity/ Ionitor Ground Surface during Anneling Activities	Geology, Soils, and Seismicity	Monitor Ground Su during Tunneling A		95	- MMRP- GEO- CNST-C	- Vol-1, ROD	Monitor Ground Surface During Tunneling Activities	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 locations immediately adjacent to streams within the settlement rough along the tunne alignment to monitor ground movements and effects of tunnel boring. The contractor must obtain approval from VTA and he historic (PD 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	с		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure din do tapply in QL 2024 because underground tunnels and stations construction has not commenced.	
eology, Solis, and Seismicity/ fonitor Settlement Effects around ut-and-Cover Excavations	Geology, Soils, and Seismicity	Monitor Settlemen around Cut-and-Co Excavations		96	- MMRP- GEO- CNST- D	- Vol-1, ROD	Monitor Settlement Effects around Cut-and- Cover Excavation	Monitor Settlement Effects around Cut-and-Cover Excavations: 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 mounts survey monitoring points on all potentially affected structures and historic buildings, including the most susceptible structures, select utilities susceptible to settlement, and in regresentative locations with the limit of influence around the cut-and-cover exavaitons 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. Inter equire attention of the building. Survey monitoring devices meeting by licensed land survey or sat a frequency determined by the preconstruction building survey condition. Assessment Report (from 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 the cut-and cover excavations.	Program- wide	D	с		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Wewhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultint (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q1.2024 because underground tunnels and stations construction has not commenced.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chro o #	n Measure	# Source Docume	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe:Post- construction (P)	Responsible Party	Compliance Status	u.	Quarter Mitigation Completed
Geology, Solis, and Seismicity/ Implement Preconstruction Condition Surveys for Utilities	Geology, Soils, and Seismicity	Implement Preconstruction Conditi Surveys for Utilities	ən 97	- MMRP- GEO- CNST-E	- Vol-1, ROD	Implement Preconstruction Condition Surveys for Utilities	Implement Preconstruction Condition Surveys for Utilities: The contractor will conduct preconstruction condition surveys of utilities deemed to be potentially at risk due to surface suttement or ground movement at BART Extension and Tot 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.	s Program- wide	D	с		VTA/C	IC	The relevant contract parkages and current design status is as follows: For CP-1 System, CP-3-Newhall Yard/Santa Clars Sation, and CP-4 Underground Stations, a General Engineerin-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure din or tapply in Q1 2024 because underground tunnels and stations construction has not commenced.	
Geology, Solls, 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	Minimize Excavation Bottom Failure Impacts: If excavation bottom fails due to bottom have, piping, or blow-out, the contractor will implement the following measures. • Remove water found in the pervisous and layer via dewatering. • Install deep sheeting. The sheet pile may also function as a cut-off to prevent sand boiling at the bottom of excavation due to excessive hydrostatic pressure within the loose soils at the foundation subgrade may be anticipated at isolated locatoms for excavation of the station. Deeper shoring may be required to pentrate through the aquifer to prevent the occurrence of the sand boiling condition. Deep soil mixing may have to be considered under this condition if drivability of the shoring sheet pile through the devices to very dense sand at depths is a geotechnical concern due to the vibration and/or noise impact on the surrounding emvironment.	r Program- wide	D	c	р	VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering, Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS-RE) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q1 2024 because underground tunnels and stations construction has not commenced.	
Geology, Solls, and Salsmithy/ Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	Geology, Soils, and Seismicity	Minimize Disturbance o Sensitive Deposits at the Excavation Subgrade		- GEO- CNST- G	- Vol-1, ROD	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade	Minimize Disturbance of Sensitive Deposits at the Excavation Subgrade: In areas where clay and saturated and deposits are sufficiently disturbed during construction activities at the bottom of an excavation and soft and loose saturated soli deposits are encourted. VTA will ensure that the contractor constructs a working platform as described below. • Over-excavate 18 Inches below the native subgrade. • Place a stabilizing genetixile fabric or a georgif at the bottom of the over-excavation. • Backfill the over-excavation with Class 2 Aggregate Base, Structural Backfill, or other bridging material. • Overlap the ends of the geotextile fabric on top of the bridging material for a minimum distance of 2 feet.	Program- wide	D	c		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Hwenhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tumel and Trackwork: In Q1.2024, design for minimization for disturbance of sensitive deposits is underway.	
	Geology, Soils, and Seismicity	Incorporate Design Specifications to Minimi Effects from Expansive Soils	re 100	- GEO- CNST- H	- Vol-1, ROD	Incorporate Design Specifications to Minimize Effects from Expansive Soils	Incorporate Design Specifications to Minimize Effects from Expansive Soils: VTA will ensure that the following specifications are incorporated into the BART Extension's final design when encountering expansive soils. • Deepen foundations to below the source of mosture fluctuation. • Use mat foundations that are designed to resist the deflections associated with expansive soil. • Design perimeter footings to a minimum depth of 24 inches below the lowest adjacent grade to reduce the impact from the upift pressure in expansive soils. • For any expansive soil in the upper 18 inches of building pads, lime treat or replace with low to non-expansive soil with a Plasticity Index of 12 or less. • Use moliture barriers to minimize the variation of change in the moliture content within the expansive soil.	Program- wide	D	c		VTA/C	IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering, Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: In Q1 2024, design to minimize effects from expansive soils is underway.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	MN Chron o #	MRP Code	-	Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	0	 construction (P)	Responsible Party	Compliance Status	Q1	Quarter Mitigation Completed
Geology, Solls, and Selsmicitry/ 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	Stop Construction If Paleontological Resources are Discovered and Determine Appropriate Action: If supported appendentiqual: resources are encouncered during grading and size preparation activities, the constractor will half all work in the immediate vicinity of the find until a qualified paleontologist can evaluate the find and make recommendations. Paleontogical resource materials may include resources such as fossils, plant impressions, or animal tracks preserved in ords. If the qualified paleontologist determines that the discovery represents a potentiably agingting tapleontological resource, additional investigations and fossil recovery may be required to mitigate adverse impacts from implementation of the AMAT Extension. Construction will not resume until the resource-appropriate measures are recommended or the materials are determined to be not significant.	Program- wide	D	c	,	/TA/C	IC	The four contract packages and current design status is as follows: For CP-1 systems (D-3-Newhall Yard(Santa Cata Status) and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSG1) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Greenhouse Gas Emissions/ Implement Energy Efficiency Measures (for TOJD)	Greenhous e Gas Emissions	Implement Energy Efficiency Measures (TOJD)	102	- MMRP GHG-A	L _	Vol-1, ROD	Implement Energy Efficiency Measures (TOJD)	Implement Energy Efficiency Measures (for TOID): TOJD energy efficiency shall be 15 percent better than the 2013 Title 24, Part 11 requirements or shall meet the Title 24, Part 11 requirements that are applicable at the time of issuance of the building permits for individual phases, whichever is more stringent.	DLOT		с	,	/TA/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)	Greenhous e Gas Emissions	Participate in Food Waste Programs (TOJD)	103	- MMRP GHG-B	с. 1	Vol-1, ROD	Participate in Food Waste Programs (TOJD)	Participate in Food Waste Programs (for TOID): Restaurants shall be required to participate 100 percent in any extant City food waste programs. This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOIDs.				P	/TA/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)	Greenhous e Gas Emissions	Utilize Electrical Landscaping Equipment (TOJD)	104	- MMRP GHG-C	L _	Vol-1, ROD	Utilize Electrical Landscaping Equipment (TOJD)	Utilize Electrical Landscaping Equipment (for TOID): TOIDs shall include installation of electrical outlets near all maintained landscaping areas to allow for the use of electrical landscaping equipment. This mitigation measure shall be included as a mandatory performance standard for all agreements with developers of the TOIDs.	DID	D		,	/TA/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)	Greenhous e Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD)	105	- MMRP GHG-	D- 01	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD)	Provide Preferential Parking for Electric Vehicles (for TOJD): TOJDs shall provide preferential parking in all parking lots for electric vehicles and shall also provide charging equipment, as follows (MMRF-6HG-02 through D-03). This miligation messure shall be included as a mandatory performance standard for all agreements with developers of the	TOJD	D		,	/TA/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	Greenhous e 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)	TODb. Provide Preferential Parking for Electric Vehicles-TOJD Residential Use: A total of 10 percent of the required parking spaces shall be provided with a listed cabinet, box, or enclosure and connected to a conduit that links the parking spaces to the electrical service in a manner approved by the building and safety official. Of the listed cabinets, boxes, or enclosures provided, 50 percent shall have the necessary electric vehicle supply equipment installed to provide active charging stations that are ready for use by recision. The remainder shall be installed at such time as they are needed for use by residents. Electrical vehicle batteries and charging technology may change substantially over the next 15 years. As such the local juridicitor shall have the duccinot modify the specific requirements for this measure over time, provided that 10 percent of the spaces have electrical service and 5 percent have active charging, depending on what the technology at the time requires.	DIOT	D		,	/TA/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	Greenhous e Gas Emissions	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	107	- MMRP GHG-D	- 02	Vol-1, ROD	Provide Preferential Parking for Electric Vehicles (TOJD Commercial)	Provide Preferential Parking for Electric Vehicles- TOJD Commercial Use: New commercial uses shall provide the electrical service capacity necessary as well as all conduits and related equipment necessary to serve 2 percent of the parking spaces with charging stations (O these parking spaces, 50 percent shall hislable by provided with the equipment necessary to function as online charging stations upon completion of development. The remainder shall be installed at such time as they are needed for use by customers, employees, or other users. Electrical vehicle batteries and charging technology may change substantially over the next 15 years. As such, the local jurisdiction shall have the discretion to modify the specific requirements for this measure over time, provided that 2 percent of the spaces have electrical service and 1 percent have active charging, depending on what the technology at the time requires.	TOJD	D		,	/TA/C	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Hazardous Materiais/ Prepare Remedial Action Plans	Hazardous Materials	Prepare Remedial Action Plans	108	- MMRP HAZ- CNST- <i>i</i>	-	Vol-1, ROD	Prepare Remedial Action Plans	Prepare Remedial Action Plans: Prior to construction, VTA will prepare new and/or amended remedial action plans (RAPs) for the BART Extension, which will be approved by the Regional Water Quality Control Board (RWQGB). The RAPs will satisfy the key objectives of the Containment Management Plans (CMP) (e.g., characterization of soil and ballast quality relative to the maximum acceptable contaminant levels for reuse) and incorporate measures for managing on the RAPs. will associate the CMP (e.g., simpling and analysis, health and sitefy, stocholing, offstie dispotal, and treatment) to address all known and potential sources of environmental contamination identified in the October 2015 VIA's BART Slice diverse for the CMP (e.g., simpling and analysis, health and sitefy, stocholing, offstie dispotal, and treatment) to address all known and potential sources of environmental contamination identified in the October 2015 VIA's BART Slice diverse for stocholing and parks, health Au Stafey, stocholing, offstie dispotal, and treatment to address all known and potential sources of environmental contamination identified in the October 2015 regulatory notification requirements and approval messures (e.g., additional campling and analysis), if necessary, for soil ascaration and/or diverse regional dispotate with land suce coverants for indoor residents and workers from groundwate contaminant plumes, such as chlorinated solvents, in coordination with the RWQCB, selected remedial treatment, and implementation of engineering controls (e.g., vapor barriers) and/or institutional controls prior to building occupancy.	Project wide	D				IC	The four contract packages and current design status is as follows: For CP-3 systems (D-3-Newhold) array(Santa Cans Status), and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	MN Chron o #	Measure	# Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	imeframe:Post- construction (P)	Responsible Party	Compliance Status	01	Quarter Mitigation Completed
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	- NV- CNST-A	- Vol-1, ROD	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications	Incorporate FTA Criteria Compliant Construction Noise and Vibration Specifications: VTA will incorporate a comprehensive construction noise and vibration specification into all construction bid documents requiring compliance with FTA criteria. Yawii emphasize the existence and importance of noise and vibration control specifications at pre-bid and preconstruction conferences.	Project wide	D	c	T 2		IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Newhall Yard/Samta Clara Station, and CP-4 Underground Stations, a General Tengineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS-62) packages. For CP-2 Tunnel and Trackwork: Section 01.81.20 Noise and Vibration Control has been included in the project specifications and is provided in all bid documents.	
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	Locate Equipment as Far as Feasible from Sensitive Sites: The contractor will locate stationary equipment, such as generators and compressors as far as feasible from noise and vibration sensitive sites, and will acountically treat such equipment. The contractor will also clocate grout batch plants; grout sitos, mainers, pumps, dieguipment, and similar noise and vibration generating equipment as far as feasible from noise sensitive sites, and acoustically treat the same if necessary.	Project wide		с			IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Tengineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSEE) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Noise and Vibration /Construct Temporary Noise Barriers	Noise and Vibration	Construct Temporary Noise Barriers	111	- MMRP- NV- CNST-C	- Vol-1, ROD	Construct Temporary Noise Barriers	Construct Temporary Noise Barriers: 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 10 5 10 58, decending on the height of the barrier and 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 abarries 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 accustically rated units for the residential structures.	Project wide; 281H Street/Little Portugal (Alum Rock)	D	c			IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Fargineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
Noise and Vibration/ Operate Equipment to Minimize Annoying Noise and Vibration	Noise and Vibration	Operate Equipment to Minimize Annoying Noise and Vibration	112	- MMRP- NV- CNST- D	- Vol-1, ROD	Operate Equipment to Minimize Annoying Noise and Vibration	Operate Equipment to Minimize Annoying Noise and Vibration: Contractors will implement the following measures: Use electric instead of disel-powered equipment, hydraulic tools instead of pneumatic impact tools, and electric instead of air cor gasoline driven assus, where feasible. Use an augering drill-it for setting piles in lieu of impact pile drivers, where feasible. Doprate equipment so as to minimize banging, clattering, buzzing, and other annoying types of noises, especially near residential areas during mightime hours. I une haud ruck beds with tubber or sand to reduce noise, if needed and requested by VTA. Line or cover hoppers, conveyor transfer points, storage blans, and chutes with sound-deadening material. During nighttime and weekends, use strobe warning lights and/or back-up observers during any back-up operations, where permitted by the local jurisdiction.	Program- wide		c		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa CI an Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&B) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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ise and Vibration/ ute Construction Trucks along ck Routes Least Disturbing to sidents	Noise and Vibration	Route Construct along Truck Rout Disturbing to Re:	es Least	113	- MMRP- NV- CNST-E	- Vol-1, ROD		Route Construction Trucks along Truck Routes Least Disturbing to Residents: The contractor will route construction- related truck traffic along truck routes and roadways that would cause the least disturbance to residents. The contractor will be yout clading and unloading comes to minimize truck cliding near sensitive receptors and to minimize truck reversing so back-up alarms are minimized near residences.	Program- wide		c		VTA/C	ю	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS42) packages. For CP-2 Tunnel and Trackwork: The Contractor has begun drafting a Construction Transportation Management Plan (CTMP) and is coordinating with City and County officials to reduce construction-related traffic and minimize disturbance to residents. No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
e and Vibration/ re Steel and Concrete Plates over vated Holes and Trenches	Noise and Vibration	Secure Steel and Plates over Exca Holes and Trench	/ated	114	- MMRP- NV- CNST-F	- Vol-1, ROD		Secure Steel and Concrete Plates over Excavated Holes and Trenches: The contractor will secure steel and/or concrete plates over excavated holes and trenches to reduce ratiling when vehicles pass over. If complaints are received, the contractor will we lickce plates, stiffer beams beneath the plates, and/or rubber gaskets between the beams and plates to further reduce ratiling noise and vibration.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Faigmeering Consultant (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
ise and Vibration/ Best Available Practices to Juce Noise and Vibration	Noise and Vibration	Use Best Availab Practices to Redia		115	- MMRP- NV- CNST- G	- Vol-1, ROD		Use Best Available Practices to Reduce Noise and Vibration: The contractor will use the best available practices to reduce the potential for exceedances of noise and vibration criteria due to construction activities. This may require the use of equipment with special enhances is construction of temporary enclosures or noise barriers around activities, and tracks for the tracked vehicles to be in good condition.	Program- wide		с		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and Is prearing the three Usign-Biol Abuild plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	

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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 Exten Feasible	t 116	- MMRP- NV- CNST- H	- Vol-1 - ROD		Adhere to Local Jurdidiction Construction Time Periods, to the Extent Feasible: The contractor will adhere to local juridiction construction time periods, to the extent feasible, recogning that nightime and weekend construction may be necessary and/or preferred by VTA and local jurisdictions to reduce other related environmental effects such as traffic. VTA will coordinate with the cities of San Jose and San La Cara on construction operations during nightime and weekend, and where feasible adhere to local ordinances. San Jose Ordinance 26248, 26594 restricts construction to between 7 a.m. and 7 p.m. Santa Clara Ordinance 1549 § 1, 7-15-86; Otd. 1556 § 1, 9-16-86. Formerly § 18-32.3 restricts construction to between 7 a.m. and 6 p.m. on weekdays, and between 9 a.m. and 6 p.m. on Saturday.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 System, CP-1 Newfall Var(Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preading the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: No construction activities took place in Q1 2024. This measure will be applied in future quarters as necessary.	
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-3 ROD		Perform Preconstruction Ambient Noise Measurements at All CSAs: The contractor will perform preconstruction ambient noise measurements at all construction staging areas, which include the tunnel portals, stations, and mid-tunnel ventilation sites. These measurements will document the noise environment just prior to start of construction at representative locations along the alignment. These measurements will be performed continuously over a minimum of 10 days (240 hours).	Program- wide	D			VTA/C	К	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering, Consultant (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (PSAE) packages. For CP-2 Tunnel and Trackwork: This messure did not apply in Q1 2024 because construction on tunnel portals, stations, and ventilation sites has not commenced.	
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-3 ROE		Implement a Construction Noise Control and Monitoring Plan: The contractor will submit a Noise Control and Monitoring Plan to VTA for approval. The plan will be prepared by a qualified acoustical engineer whose qualifications and proposed noise control and monitoring activities will be subject to approval of VTA for approval VTA for approval. The plan will be prepared by a qualified acoustical engineer whose qualifications and proposed will update the Noise Control and Monitoring Plan every 3 months and will include all the pertinent information about construction equipment and site layout, the projected noise levels, and the noise implication measures that may be required to comply with the noise limits for each sensitive receptor. The Noise Control and Monitoring Plan will also outline the monitoring equipment and site layout, the projected contractor will use to perform noise measurements and to identify noise-sensitive receptors in the immediate vicinity of construction operations, including details regarding the noise measurement is calcians, frequence, and duration of measurements. The contractor will document the results of noise monitoring and submit the documentation to VTA weekly. In the event that levels exceed allowable noise limits, VTA will ensure that contractually required corrective measures consistent with the Noise Control and Monitoring Plan are implemented.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 systems, CP-3-kewhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consulture (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS4E) packages. For CP-2 Tunnel and Trackwork: The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CNVMP) and Construction Noise and Vibration Monitorino (Plan (CNVCP)). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 1.07.8.5 in 01 81 20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01.81 20 Noise and Vibration Control. The measure did not apply in Q1 2024 because construction has not commenced, and will be applied in future quarters as necessary.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	MN Chron o #	IRP Code Measur	source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	5	imeframe:Post- instruction (P)	Responsible Party	Compliance Status	Q3	Quarter Mitigation Completed
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	Require Minimum Qualifications for the Acoustical Engineer: The minimum qualifications for the Acoustical Engineer will be a Batchelor of Science or Engineering degrees, from a qualified program in engineering or physics offered by an accredited university or college, and 5 years in noise control engineering and construction noise analysis.	Program- wide	D	с		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 system, CP-3-tewhall Yard(Santa Cara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSe2) packages. For CP-2 Tunnel and Trackwork: In Q4 2022, the CP-2 contractor submitted and approved 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	Prohibit Operation of Noise-Generating Equipment Prior to Acceptance of Noise Control and Monitoring Plan: The contractor will not operate noise-generating equipment at the construction site prior to acceptance of the Noise Control and Monitoring Plan.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSE) packages. For CP-2 Tunnel and Trackwork: No noise generating equipment was operated in Q1 2024 as construction has not commenced.	
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- Vol-1, 01 ROD	Install Stationary Long- Term Noise Monitors at Construction Staging Areas (CSA)	Install Long-Term Noise Monitors at CSAs during all Construction Phases: The contractor will install stationary noise monitors at all construction staging areas, which include the turnel portals, stations, and mid-tunnel ventilation sites, during all the construction phases. Noise sampling will be performed continuously at epresentative monitoring locations nearest the most sensitive receptor at each location. A minimum of two stationary monitors will be required at the Downtown Snaboe Station and Dirinon Station locations. The monitoring locations may be moved as the construction work progresses. If required, additional noise monitoring site(s) may be added by the V1A to address any specific struction initially installed and may be removed if the noise levels are in compliance with the noise limits when the full-production construction activities are closest to the sensitive receptors. All data gathered by the contractor will be continuously available to VTA and submitted weekly to VTA for approval.	Program- wide	D	c		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Tengineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tuneel and Trackwork: No long-term noise monitors were required in Q1 2024 as construction has not commenced.	
Noise and Vibration/ Install Long-Term Noise Monitors at CSAs during all Construction Phases	Noise and Vibration	Install Long-Term Noise Monitors at CSNs during all Construction Phases	122	- MMRP- NV- CNST-	M- Vol-1, 02 ROD	Conduct Weekly Noise Sampling with Hand-Held Monitors	Install Long-Term Noise Monitors at CSAs during all Construction Phases: In addition to these stationary noise monitors, the contractor will conduct 30-minute noise sampling with hand-held monitors weekly at the station sites and at other construction sites, including the wellutions hafts and ago breaker stations. It can be compared with the noise orther in- frequired, 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 site(v) and details, hongraphs, and skethes of noise monitoring locations. A qualified accountical engine 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	с		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa CLara Station, and CP-4 Underground Stations, a General Tengineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&B) packages. For CP-2 Tunnel and Trackwork: No long-term noise monitors were required in Q1 2024 as construction has not commenced.	

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Noise and Vibration/ Ensure Equipment is pre-certified to Meet Noise Limits	Noise and Vibration	Ensure Equipment is Pre- certified to Meet Noise Umits	123	- MMRI NV- CNST- N	-	Vol-1, ROD	Ensure Equipment is Pre- certified to Meet Noise Limits	Ensure Equipment is Pre-carified to Meet Noise Limits: For major equipment to be used at the surface of the construction site for a total duration greater than 3 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-examice and develop the final limits to be applied during the engineerafree phase, and the contractor will verify these limits during initial and active performance of the work what the equipment runs on site. The contractor will verify these limits during internal is while performing the work what the equipment arises on site. The contractor will verify the construction equipment at 6-month internals while in use onsite. Any equipment used during construction may be subject to confirmatory noise level testing while performing the work hat the request of VTA.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 systems (CP-3 kewhall Yard/Santa Ciars Sation, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been extencted and is programing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-3 Tunnel and Trackwork: No major equipment was used in Q1 2024 because construction utilizing major equipment has not commenced.	
Noise and Vibration/ Implement a Complaint Resolution Procedure	Noise and Vibration	Implement a Complaint Resolution Procedure	124	- MMRI NV- CNST- O	· .	Vol-1, ROD	Implement a Noise and Vibration Compaint Resolution Procedure	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 to received, the contractor will assign the complaint as are number and will contact the person making the complaint to reselve further clarification on the contern. 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: For CP-1 Systems, CP-3-Hewhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tumel and Trackwork: This measure did not apply in Q1 2024 because the contractor has not commenced construction.	
Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan	Noise and Vibration	Implement a Construction Vibration Control and Monitoring Plan	125	- MMRI NV- CNST-	01	Vol-1, ROD	Prepare a Construction Vibration Control and Monitoring Plan	Implement a Construction Vibration Control and Monitoring Plan: 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 Expecialist whose qualifications and proposed Vibration control and monitoring activities will be updated approval of VTA prior to construction activities. The Construction Vibration Control and Monitoring Plan will be updated avery 3 months and include all the perintern 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. The Construction Vibration Control and Monitoring Plan will also outline the monitoring equipment and procedures the contractor will use to perform vibration measurement to actions-sensitive receptors in the vicinity of construction apperations, including details regarding the vibration measurement to actions. Frequency, and duration of measurements at each location. The plan will be performed continuously over the course of construction to specify the duration of measurement sate construction-related images. As a coursel, the course of construction to assess whether new construction-teled durage has coursel. The construction to assess whether new construction-teled durage has coursel. The constructor must obtain approval from VTA and the QP to install any crack gauges on or in historic buildings that require alteration of the building.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSAE) packages. For CP-2 Tunnel and Trackwork: The contractor has begun drafting a Construction Noise and Vibration Nonitoring Plan (CNVMP) and Construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement tocations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 107.8.5 in 01 81 20 Noise and Vibration Control. The contractor has not installed construction monitoring equipment in Q1 202 as construction has not commenced.	4

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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	126	- MMRP- NV- CNST-	P- Vol-1, 02 ROD	Halt Construction if Levels Exceed Allowable Vibration Limits	Implement a Construction Vibration Control and Monitoring Plan. The results of vibration monitoring will be documented and vibration to Vibration Control and Monitoring Plan. The results of vibration monitoring 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. The contractor will initially conduct vibration monitoring daily at the nearest affected buildings during any construction advites 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 by and condition, as determined by VIA in coordination with the structural engineer for non-kisoric buildings, and VIA and the historic Q for finistico buildings. Monitoring of utilities that are sensitive to vibration will be coordinated with the utility companies and performed for the nearest affected vibration-sensitive utilities during any construction activities that could induce vibration impacts.	Program- wide	D	c		VTA/C	ю	The four contract packages and current design status is as follows: For CP-1 systems CP-3-tewhold Yard(Santa Cart Satus) and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS-82) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 00 15 12 0 Noise and Vibration Control. The contractor has begun drafting a Construction Noise and Vibration Monitoring Plan (CWNVP) and Construction Noise and Vibration Control. The plans will outline monitoring equipment, procedures, measurement locations, requencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 107.85 in 01.83.20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01.81 20 Noise and Vibration Control. The contractor has not conducted vibration monitoring in Q1 2024 as construction has not commenced.	
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-	ρ- Vol-1, 03 ROD	Do Not Exceed the FTA Construction Vibration Damage Criteria	Implement a Construction Vibration Control and Monitoring Plan: The construction Vibration Control and Monitoring Plan: The constructor 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 cirelina for applicable building type, as follows: 0.12 peak particle velocity (PPU) (inches/second) for buildings, 0.3 PPV (inches/second) for engineered concrete and masonry (no plaster) buildings and 0.5 PPV (inches/second) for reinforced-concrete, steel or timber (no plaster) buildings. For historic buildings, the vibration threshold will likely be between 0.12 to 0.2 PPV (inches/second) depending on the building' condition. The results of the preconstruction surveys and building Conditions. Assessment Report as outlined in Mitigation Messuer V-CNST & will builtized to confirm the structure types and determine which vibration thresholds apply in consultation with a qualified structural engineer and the historic QP. For utilities, vibration thresholds will follow industry standards in coordination with utility companies, and typically adhere to a 0.5 PPV (inches/second) threshold.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSE) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section OI 12 DN koise and Vibration Control. The contractor has begund rafiting a Construction Noise and Vibration Control. The Pana (CNWAP) and construction Noise and Vibration Control. The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction begins, in accordance with Section 107.85 in 01.81.20 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01.81 20 Noise and Vibration Control.	
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- Vol-1, 04 ROD	Measure Building Vibration In Vertical Direction and Utilities In Accordance with Meter Instructions	Implement a Construction Vibration Control and Monitoring Plan: The contractor will measure vibration in buildings in the vertical direction on the ground surface or building floor and for vullities in accordance with meter instructions and industry bet gracines. What on levels will be measure of continuously during duily construction operations to ensure that peak vibration-generating work is captured. Daily monitoring will be performed during a continuous work hift (typically & hours) that includes the closest and most vibration-including work. The contractor will compare vibration in buildings against both structural damage and muisance thresholds in terms of velocity levels in d8 or PPV. Vibration for utilities will be compared against structural damage thresholds in terms of velocity levels in d8 or PPV. Vibration for utilities will be compared against structural damage thresholds in terms of velocity levels in d8 or PPV. Vibration for utilities will against both structural damage thresholds in terms of VPI. (The measured vibration data are in compliance with the vibration limits after work has completed start-up and entered full-production mode (typically within 2 weeks to 3 dwyl, vibration monitoring may be performed once a week instead of continuously each day if approved by VTA. For non-historis structures, if construction vibration exceeds the structural or nuisance threshold, the contractor must stop construction and adjust construction methods to meet appropriate vibration limits so that the threshold is not exceeded again.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Tengineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PSRE) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section OI 21 20 Noise and Vibration Control. The contractor has begund arthing a Construction Noise and Vibration Monitoring Plan (CNWAP) and construction Noise and Vibration Control. The plans will outline monitoring equipment, procedures, measurement locations, requencies, and construction Noise and Vibration Control Plan (CNVCP). The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be udgated quarterly, once construction begins, in accordance with Section 107.85 in 01.81.20 Noise and Vibration Control. Results will be downerfled and submitted to VTA as required in 01.81.20 20 Noise and Vibration Control. The contractor has not conducted vibration monitoring in Q1 2024 as construction has not commenced.	

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Noise and Vibration/ Implement a Construction Vibration Control and Monitoring Plan-Historic structures	Voise and /ibration	Implement a Construction Vibration Control and Monitoring Plan-Historic structures	129	- MMRP- NV- CNST-	P- Vol-1, 05 ROD		Implement a Construction Vibration Control and Monitoring Plan-Historic structures, if construction vibration approaches the structural admage threshold, the intercio QP will be notified immediately, in real time. If construction vibration exceeds the structural admage threshold, Contractor must notify the historic QP and VTA immediately, in real time, and stop all vibration-inducing construction own kinemediately 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 indevtent, construction-related damage to historic buildings, repairs will be conducted in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties and consistent with 36 CFR 800.13(b). VTA and the historic QP will implement these repairs in consultation with FTA and SHPO.	Program- wide	D	c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 system, CP-3-Newhall Yard/Santa Clars Status, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been elected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Vibration Control. The contractor has begin drafting a Construction Noise and Vibration Control. The Index of the contraction of the contruction Noise and Vibration Control. The plans will outline monitoring equipment, procedures, measurement locations, frequencies, and durations, and will be updated quarterly, once construction Data and Vibration Control. J2 Noise and Vibration Control. Results will be documented and submitted to VTA as required in 01 81 20 Noise and Vibration Control.	
		Perform Vertical Direction Vibration Monitoring	130	- MMRP- NV- CNST- Q	- Vol-1, ROD		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 tunnel: These measurements will be repeated for a minimum of tweek at approximately 1- mile intervals along the tunnel construction until it is demonstrated that the levels are below the FIA thresholds.	Program- wide		c		VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: The Construction Noise and Vibration Monitoring Plan was submitted in Q1 2023 and requires continuous vertical direction vibration monitoring during und estimation. Vartical direction vibration monitoring during Q1 2024 as construction, including muck extraction, has not yet commenced	
Noise and Vibration/ Implement Preconstruction and Post- Construction Building Condition Surveys for Vibration	Voise and Vibration	Implement Preconstruction and Post- Construction Building Condition Surveys for Vibration	131	- MMRP- NV- CNST-	R- Vol-1, 01 ROD		Implement Preconstruction and Post-Construction Building Condition Surveys for Vibration: Prior to construction or release of the TBM and cut-and-cover construction contract(s), the contractor will survey all structures that may be potentially impacted by construction ubration and submit the results to VTA for approval. Preconstruction building condition surveys of the interiors and exteriors of these structures will be conducted by independent surveyors to assess the baseline condition of each property that could be affected by construction vibration. The surveys will include written and photographic (video and still) records, including written descriptions and photos of any cracks.	Program- wide	D	c	Ρ	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3-Newhall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultint (GEC) has been selected and is preparing the three Design-8id-Build plan, specification, and estimate (IPS4B) packages. For CP-2 Tunnel and Trackwork: No preconstruction building condition surveys were performed in Q1 2024. This measure will be implemented in future quarters as necessary.	

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation To	opic	Chron o #	Measur		Source Documen	Summary	Mitigation Measure Loc	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe:Post-	Responsible Partv	Compliance	Q1	Quarter Mitigation Completed
Noise and Vibration/ Implement Preconstruction and Post- Construction Building Condition Surveys for Vibration-Historic Buildings	Noise and Vibration	Implement Preconstruction an Construction Build Condition Surveys Vibration- Historic Buildings	ling for		- MMRP- NV- CNST-	R- V0 02 R	₩-1, OD	Prepare Condition Assessment Reports for Historic Buildings	Implement Preconstruction and Post-Construction Building Confliction Surveys for Vibration - Historic Buildings: For historis structures, the Condition Assurveys. The surveys will be performed prior to any wibration-inducing construction tactisatish baseline building conditions. The results of the preconstruction usreys will be utilized to establish the structure types and determine which vibration thresholds apply in consultation with a qualified structural engineer and a qualified architectural historia or a historic architect, as outlined in Mitigation Measure W-CNST-P. Surveys will be conducted in all historic buildings to structures where whation is expected to approach the applicable limit, and in non-historic buildings based on the building type and condition. VTA will determine the list of historic Surveys will be addited by the project in consultation with a qualified structural engineer and a qualified architectural historino buildings based on the building type and condition. VTA will determine the list of historic QP. 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 of that any construction vibration effects on structures can be assessed. For historic structures, a condition Adsessment Report in accordance with Section 100, will be conducted after construction is complete. In the sevent of indevetent, construction-related damage to historic buildings, repairs will be conducted in accordance with Section 20 of will implement these repairs in consultation with FIA and SHPO.	Program- wide	D	c	р	VTA/0	: IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Nevhal Vard/Santa Cira Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is oppraining the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: V1A received Condition Assessment Reports (CARs) for 5 locations in Q1 2023. In Q1 2024, VTA conducted surveys at 3 historic properties and preparation of the Condition Assessment Reports (CARs) is underway.	
Noise and Vibration/ Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	Noise and Vibration	Implement Measu Reduce Vibration f Muck Extraction ar Supply Trains	from	133	- MMRP- NV- CNST-S			Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains	Implement Measures to Reduce Vibration from Muck Extraction and Supply Trains: The contractor will ensure that much extraction and supply train operations do not result in groundborne vibration in excess of 22 VdB at nearby residences. Measures that can be implemented induce, but are not limited to, placement of ballast mats underneath tracks on which the muck extraction train rides or the use of a conveyor in place of a train.	k Tunnel Alignment		с			IC	The relevant contract packages and current design status is as follows: for CP-1 System, CP-3 Hewhalh Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consulting (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 1 General Requirements, Section 01 81 20 Noise and Wirbartion Control. Inited Motice to Proceed 1 Sissed (Sy092). This measure was not implemented in Q1 2024 because construction, including muck extraction, has not yet commenced.	
Noise and Vibration/ Implement Noise Reduction Treatments at Ancillary Facilities	Noise and Vibration	Implement Noise Reduction Treatm Ancillary Facilities	ents at	134	- MMRP- NV-A		ll-1, F	Implement Noise Reduction Treatments at Ancillary Facilities	Implement Noise Reduction Treatments at Ancillary Facilities: The contractor will implement noise reduction treatments at ancillary facilities such as tunnel ventilation shafts, pressure relief shafts, traction power substations, and emergency backup generators such that noise levels comply with applicable (Cites of Shaft, Shada an oise and Shaft Calar an oise and the and call an oise and the state and oise and shaft call and oise and oise and shaft call and oise and oise and shaft call and oise a	Systems (Ventilation Structures, Traction Power Substations, Emergency Backup Generators)		c		VTA/0	: IC	The four contract packages and current design status is as follows: For CP-1 Systems, CP-3 Havehall Yard/Santa Clars Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: This measure did not apply in Q1 2024 because construction has not commenced.	
Noise and Vibration/ Reduce Groundborne Noise Levels	Noise and Vibration	Reduce Groundbor Noise Levels	rne	135	- MMRP- NV-B		il-1, OD	Reduce Groundborne Noise Levels	Reduce Groundborne Noise Levels: The contractor will implement an isolated Slab Track (IST) as the mitigation strategy for groundborne noise. An IST is a form of floating slab track (IST). The IST system is constructed with a continuous elastomeric mat itsued of discrete discomeric pads that are typically used for an IST system. AIST can be designed to provide from 10 to 13 dBA of noise reduction. This strategy can also be used under a crossover. The locations for implementing this measure are shown in Tables 4.12-21 through 4.22-52 kummarised in DRBM-W-AV. The project's final design will determine the specific mitigation strategy, which could include alternative strategies that similarly achieve the FTA groundborne noise criteria.	l Tunnel Alignment		с		VTA/0	: IC	The relevant contract packages and current design status is as follows: For CP-1 Systems, CP-3 Hewhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork - This mitigation measure was included in the CP2 Conformed set under Vol 2 Design Criteria Manual (DCM) Section 7.5 Trackwary, limited Notice to Proceed 1 issued 6/09/22. This measure did not apply in Q1 2024 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 Supply Infrastructu Capacity Assessme	ure	136	- MMRP- UTIL-A	- Vol RO	-1, S	Prepare a San Jose Water Supply Infrastructure Capacity Assessment	Prepare a San Jose Water Supply Infrastructure Capacity Assessment and Participate in the Improvements: VTA will coordinate with San Jose Water Company (SIWC) and prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite water supply infrastructure. The SIWC may conduct a detailed engineering study and flow analysis and determine the extent of these impacts. The contractor will implement capacity-relief upgrades during the utility relocation phase of construction in accordance with SIWC requirements. The contractor will ensure that all construction activities follow the provisions outlined in this environmental document, including implementation of Mitigation Measure TRA-CNST-A to reduce potential impacts and increase participation.	28th Street/Little Portugal Station (Alum Rock); Downtown San Jose Station; Diridon Station	D		p	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	

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Env Doc Chapter / Mitigation Topic ntal	Environme		мм	IRP Code	ument	A.				Im	plemental	tion		2024 Q1	Quarter			
	Document	Mitigation Topic	Chron o #	Measure #	Source Doc	Summa	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction	Timeframe:Po construction (Responsible Party	Compliance Status		Mitigation Completed			
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	Prepare a Santa Clara Water Supply Infrastructure Capacity Assessment and Participate in the Improvements: VTA will coordinate with the City of santa Clara Water and Sever Villity (SXVB) and propare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite water supply infrastructure. The SXVBJ may conduct a detailed engineering study and flow analysis to determine the extent of these impacts and participation. The contractor will implement capacity-relied upgrades during the utility relocation plasse of construction in accordance with Chapter 112.50 of the Santa Cara City Code. The contractor will ensure that all construction activities follow the provisions outlined in this environmental document, including implementation of the construction education and outreach elsion to ordere construction environmental document, including implementation of the construction education and outreach elsion to ordere construction education and outreach elsions to the source of the source of the construction education and outreach elsion to ordere construction education education education and outreach elsion to ordere construction education educat	Santa Clara Station	D		Ρ	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.				
Utilities/ Prepare a San Jose Sewer Capacity Assessment and Participate in the Improvements	Utilities	Prepare a San Jose Sewer Capacity Assessment	138	- MMRP UTIL-C		Prepare a San Jose Sewer Capacity Assessment	server system overcapacity is a result of projected cumulative development. San Jose and VTA will develop a Cooperative Agreement to determine the BART Extension Alternative's participation in upgrades to the current system. The contractor will implement capacity-relief upgrades during the BART Extension's construction phase in accordance with adolcable San Jose standards rearrating seven infrastructure imnorvements. Generaly, the contractor will cate seven	28th Street/Little Portugal Station (Alum Rock); Downtown San Jose Station; Diridon Station	D		P	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.				

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Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	MM Chron o #	MRP Code	# Source Document	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	imeframe:Post- ionstruction (P)	Responsible Party	Compliance Status	2024 Q1	Quarter Mitigation Completed
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	Prepare a Santa Clara Sever Capacity Assessment and Participate in the Improvements: VTA will coordinate with SCMSU to prepare a Cooperative Agreement to establish the BART Extension Alternative's participation in improvements to offsite santary sever capacity deficiencies. CSWU may conduct a detailed engineering study and hydraulic analysis to determine the extent of these impacts. VTA will mitigate impacts on downstream sever systems in Santa Clara through payment of the Santary Sever Connection Charge, as required, which is used to rehabilitate and enhance sever capacity through Santa Clara's Capital Improvement Program. If payment to the Santary Sever Connection Charge dese not adequately mitigate potential difficu- sever capacity impacts related to the ABRT Extension, VTA will be responsible for direct upgrades to the sever system. If sever system overcapacity is a result of camulative development, Santa Clara and VTA will develop a Cooperative Agreement to determine the BART Extension, VTA will be responsible for direct upgrades to the sever system. If sever system overcapacity is a result of camulative development, Santa Clara and VTA will develop a Cooperative Agreement to determine the BART Extension VTA will be responsible to the sever system. If accordance with Chapter 17 15:210-280 of the Santa Clara Clar Cly Code. Generally, the contractor will incluse severe infrastructure improvements within the existing public right of way, with minimal potential to impact sensitive environmental advancement, induding implementation of the construction and utcare band, no, trendec potential in the environmental advancement, industing implementation advicture band, and, to reduce potential in wirronmental advancement, industing implementation of the construction and utcare band, no trendec potential in wirronmental advancement, industing implementation of the construction advicture band, no trendec potential in the environmental advancement, industing implementation of the construction advicture band, no trendec	Santa Clara Station	D		p	VTA	IC	TOD is not included in CP1 through CP4. Once TOD contracts are underway these measures will be addressed.	
Visual Quality and Aesthetics/ Replace Trees	Visual Quality and Aesthetics	Replace Trees	140	- AES- CNST-A	- Vol-1, ROD	Replace Trees	Replace Trees: The contractor will inventory trees that will be removed due to construction activities and will inder each tree on construction plans before construction begins. VTA will compensate for any trees removed according to the following ratios. VTA will replace all urban trees that are to be removed of lost as a result of the BART Extension to the extent feasible. VTA will replace trees with a diameter of less than 12 inches at a 21 ratio, and trees with a diameter of 12 inches or more at a 31 ratio. If true interes (nomatives and ornamentals) are replaced with nuitive trees, VTA will use a reduced mitigation ratio of 1.1 for all trees smaller than 12 inches in diameter, and 2.1 for all trees with a diameter of 12 inches or more. VTA will irrigate and maintain these trees for a period of no less than 3 years. If VTA cannot replace trees at the stated ratios along the alignment, VTA will pay in-lieu fees. For any landscaping adjacent to the creeks and on VTA right of-way (ROW), VTA will adhere to the SCVWD's Guidelines and Standards for Land Use Near Streams regarding the use of native species near the creeks.	Program- wide	D	c		VTA/C	iC	The four contract packages and current design status is as follows: For CP-1 system, CP-1 Newhall Yand Canta Status Status, and CP-4 Underground Stations, a General Engineering Consultant (GEQ) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS-B) packages. For CP-2 Tunnel and Trackwork: No trees were removed in Q1 2024.	

Antony Automy				-	BSV Phase II - Environmental Commitments Record Mitigation Monitoring & Reporting Program										
			M	ARP Code	t					Imj	plementat	ion		2024 Q1	4
Env Doc Chapter / Mitigation Topic	Environme ntal Document Chapter	Mitigation Topic	Chron o #	Measure	Measure # 32	Summary	Mitigation Measure	Location	Timeframe: Design (D)	Timeframe: Construction (C)	Timeframe:Post- construction (P)	Responsible Party	Compliance Status		Quarter Mitigatio Complete
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 Giare (for YOID): for the TOIDs, the contractor will install low-profile, low-intensity outdoor lighting directed downward to minimize light and giare where feasible. The contractor will also install shielded futures for street and pedestrian lighting to minimize glare.	DIOT	D	с			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 Floodplain S	Design and Implement Stormwater Control Measures	142	- MMRP- WQ-A	Vol-1, ROD	Design and Implement Stormwater Control Measures		Program- wide	D	c	Ρ	VTA/C	IC	The four contract packages and current design status is as follows: For CP-1 systems (CP-3-Newhall Yard/Santa Clara Station, and CP-4 Underground Stations, a General Engineering Consultant (GEC) has been selected and is preparing the three Design-Bid-Build plan, specification, and estimate (PS&E) packages. For CP-2 Tunnel and Trackwork: A combined programmatic SWPPP as well as a site-specific SWPPP for West Tunnel Portal were submitted in Q1 2024.	