Attachment B

MITIGATION MONITORING AND REPORTING PROGRAM: MITIGATION, IMPROVEMENT & PUBLIC WORKS STANDARD CONSTRUCTION MEASURES

Record No.:	Case No. 2019-021884ENV	Block/Lot:	3971/001
Project Title:	SFMTA Potrero Yard Modernization Project	*Lot Size:*	4.4 acres
BPA Nos:	Submittal pending	*Project Sponsor:*	Chris Lazaro, SFMTA, (415) 549-6572
Zoning:	Public (P) Use District	*Lead Agency:*	San Francisco Planning Department
	65-X Height and Bulk District	*Staff Contact:*	Jennifer McKellar, Planning – (628) 652-7563

Tables 1 and 3 below indicate when compliance with each mitigation and improvement measure must occur. Some mitigation and improvement measures span multiple phases. Substantive descriptions of each mitigation measure's requirements are provided on the following pages in the Mitigation Monitoring and Reporting Program. The San Francisco Municipal Transportation Agency (SFMTA) is the project sponsor and property owner of the project site at 2500 Mariposa Street (Potrero Yard). Together the SFMTA and a private project co-sponsor (developer) are referenced below as the project sponsor team. In addition, pursuant to the May 11, 2023, memorandum regarding Public Works' Authority for project delivery of the Potrero Yard Project and the May 31, 2020, attachment referenced therein, San Francisco Public Works assumes responsibility for environmental compliance, including applicable Standard Construction Measures in Tables 2 and 6 below.

	Period of Compliance			
Table 1: Adopted Mitigation Measure	**Prior to the start of Construction***	**During Construction****	**Post-Construction or Operational**	**Compliance with MM completed?**
Mitigation Measure M-CR-1a: Documentation of Historical Resource	X			
Mitigation Measure M-CR-1b: Salvage Plan	X			
Mitigation Measure M-CR-1c: Interpretation of the Historical Resource	X			
Mitigation Measure M-CR-1d: Oral Histories	X			
Mitigation Measure M-TCR-1: Tribal Cultural Resources Preservation and/or Interpretive Program	X	X	X	
Mitigation Measure M-NO-1: Construction Noise Control	X	X		
Mitigation Measure M-NO-2: Vibration-Sensitive Equipment at 2601 Mariposa Street (KQED Building)	X	X		
Mitigation Measure NO-3: Fixed Mechanical Equipment Noise Control for Building Operations	X		X	

Mitigation Measure M-AQ-1: Off-Road Construction Equipment Emissions Minimization	X	X		
Mitigation Measure M-AQ-3: Emergency Diesel Generator Health Risk Reduction Plan	X		X	
Mitigation Measure M-WI-1: Design Measures to Reduce Project-Specific Wind Impacts	X			
Mitigation Measure M-GE-6a: Inadvertent Discovery of Paleontological Resources	X	X		
Mitigation Measure M-GE-6b: Preconstruction Paleontological Evaluation for Class 3 (Moderate) Paleontological Sensitivity Sediments during Construction	X	X		

*Prior to any ground disturbing activities at the project site.
**Construction is broadly defined to include any physical activities associated with construction of a development project including, but not limited to: site preparation, clearing, demolition, excavation, shoring, foundation installation, and building construction.

	Period of Compliance			
Table 2: Adopted Public Works Standard Construction Measure	**Prior to the start of Construction***	**During Construction****	**Post-Construction or Operational**	**Compliance with SCM completed?**
SCM #1: SEISMIC AND GEOTECHNICAL STUDIES	X	X		
SCM #2: AIR QUALITY	X	X		
SCM #3: WATER QUALITY	X	X		
SCM #4: TRAFFIC	X	X		
SCM #5: NOISE	X	X		
SCM #6: HAZARDOUS MATERIALS	X	X		
SCM #7: BIOLOGICAL RESOURCES	X	X		
SCM #8: VISUAL AND AESTHETIC CONSIDERATIONS, PROJECT SITE	X	X		
SCM #9: CULTURAL RESOURCES	X	X		

*Prior to any ground disturbing activities at the project site.
**Construction is broadly defined to include any physical activities associated with construction of a development project including, but not limited to: site preparation, clearing, demolition, excavation, shoring, foundation installation, and building construction.

(Continues on next page)

	Period of Compliance			
Table 3: Adopted Improvement Measure	**Prior to the start of Construction***	**During Construction****	**Post-Construction or Operational**	**Compliance with Improvement Measure completed?**
Improvement Measure I-TR-A: Construction Management Plan – Additional Measures	X	X		
Improvement Measure I-TR-B: Driveway and Loading Operations Plan (DLOP)			X	

*Prior to any ground disturbing activities at the project site.
**Construction is broadly defined to include any physical activities associated with construction of a development project including, but not limited to: site preparation, clearing, demolition, excavation, shoring, foundation installation, and building construction.

Signatures:

I agree to implement the attached mitigation measure(s) and standard construction measures as described herein as conditions of project approval.

Private Project Co-Sponsor (Developer)

December 22, 2023
Date

Note to project sponsor team: Please contact CPC.EnvironmentalMonitoring@sfgov.org to begin the environmental monitoring process prior to the submittal of your building permits to the San Francisco Department Building Inspection.

(Continues on next page)

MITIGATION MONITORING AND REPORTING PROGRAM

Table 4: MITIGATION MEASURES FOR THE POTRERO YARD MODERNIZATION PROJECT

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
		MONITORING AND REPORTING PROGRAM[1]		
MITIGATION MEASURES AGREED TO BY PROJECT SPONSOR TEAM				
HISTORIC ARCHITECTURAL/CULTURAL RESOURCES				
Mitigation Measure M-CR-1a: Documentation of Historical Resource (HRER Part II, Mitigation Measure 1)				
Prior to issuance of a demolition permit, the project sponsor team shall undertake Historic American Building/Historic American Landscape Survey-like (HABS/HALS-like) documentation of the building features. The documentation shall be undertaken by a professional who meets the Secretary of the Interior's Professional Qualifications Standards for Architectural History, History, or Architecture (as appropriate) to prepare written and photographic documentation of the Potrero Trolley Coach Division Facility. The specific scope of the documentation shall be reviewed and approved by the Planning Department but shall include the following elements: Measured Drawings – A set of measured drawings shall be prepared that depict the existing size, scale, and dimension of the historic resource. Planning Department staff will accept the original architectural drawings or an as-built set of architectural drawings (e.g., plans, sections, elevations). Planning Department staff will assist the consultant in determining the appropriate level of measured drawings. Historic American Buildings/Historic American Landscape Survey-Level Photographs – Either Historic American Buildings/Historic American Landscape Survey (HABS/HALS) standard large-format or digital photography shall be used. The scope of the digital photographs shall be reviewed by Planning Department staff for concurrence, and all digital photography shall be conducted according to the latest National Park Service (NPS) standards. The	Project Sponsor Team and qualified consultant, at the direction of the ERO	Prior to issuance of excavation permit or commencement of construction	Planning Department preservation staff shall review and approve the documentation package	Considered complete upon completion of the Planning Department approved documentation provided to the repositories in their preferred format and the print-on-demand booklet is made available to the public, upon request

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
photography shall be undertaken by a qualified professional with demonstrated experience in HABS/HALS photography. Photograph views for the data set shall include contextual views; views of each side of the building and interior views, including any original interior features, where possible; oblique views of the building; and detail views of character-defining features. All views shall be referenced on a photographic key. This photographic key shall be on a map of the property and shall show the photograph number with an arrow to indicate the direction of the view. Historic photographs shall also be collected, reproduced, and included in the data set. HABS/HALS Historical Report – A written historical narrative and report shall be provided in accordance with the HABS/HALS Historical Report Guidelines. The written history shall follow an outline format that begins with a statement of significance supported by the development of the architectural and historical context in which the structure was built and subsequently evolved. The report shall also include architectural description and bibliographic information. Video Recordation (HRER Part II, Mitigation Measure 3) – Video recordation shall be undertaken before demolition or site permits are issued. The project sponsor team shall undertake video documentation of the affected historical resource and its setting. The documentation shall be conducted by a professional videographer, one with experience recording architectural resources. The documentation shall be narrated by a qualified professional who meets the standards for history, architectural history, or architecture (as appropriate) set forth by the Secretary of the Interior's Professional Qualification Standards (36 Code of Federal Regulations Part 61). The documentation shall include as much information as possible—using visuals in combination with narration—about the materials, construction methods, current condition, historic use, and historic context of the historical resource. This mitigation measure would supplement the				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
traditional HABS/HALS documentation, and would enhance the collection of reference materials that would be available to the public and inform future research. Softcover Book – A Print-on-Demand softcover book shall be produced that includes the content from the historical report, historical photographs, HABS/HALS photography, measured drawings, and field notes. The Print-on-Demand book shall be made available to the public for distribution. The project sponsor team shall transmit such documentation to the History Room of the San Francisco Public Library, San Francisco Architectural Heritage, the Planning Department, and the Northwest Information Center. The HABS/HALS documentation scope will determine the requested documentation type for each facility, and the project sponsor team will conduct outreach to identify other interested groups. All documentation will be reviewed and approved by the Planning Department's staff before any demolition or site permit is granted for the affected historical resource.				
Mitigation Measure M-CR-1b: Salvage Plan (HRER Part II, Mitigation Measure 2)				
Prior to any demolition that would remove character-defining features, the project sponsor team shall consult with the planning department as to whether any such features may be salvaged, in whole or in part, during demolition/alteration. The project sponsor team shall make a good faith effort to salvage materials of historical interest to be utilized as part of the interpretative program.	Project Sponsor Team/qualified preservation consultant at the direction of the ERO	Prior to issuance of construction permits	Planning Department	Considered compete after salvage occur and interpretive program is complete
Mitigation Measure M-CR-1c: Interpretation of the Historical Resource (HRER Part II, Mitigation Measure 4)				
The project sponsor team shall facilitate the development of an interpretive program focused on the history of the project site. The interpretive program should be developed and implemented by a qualified professional with demonstrated experience in displaying information and graphics to the public in a visually interesting	Project Sponsor Team, construction contractors, and qualified consultant, at the	Prior to issuance of excavation permit or commencement of construction	Planning Department preservation staff shall review and approve the interpretive program plan	Considered complete upon the Planning Department's approval and the Project Sponsor Team's implementation of the interpretive program plan

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
manner, such as a museum or exhibit curator. This program shall be initially outlined in a proposal for an interpretive plan subject to review and approval by Planning Department staff. The proposal shall include the proposed format and the publicly-accessible location of the interpretive content, as well as high-quality graphics and written narratives. The proposal prepared by the qualified consultant describing the general parameters of the interpretive program shall be approved by Planning Department staff prior to issuance of the architectural addendum to the site permit. The detailed content, media, and other characteristics of such an interpretive program shall be approved by Planning Department staff prior to issuance of a Temporary Certificate of Occupancy. The interpretative program shall include but not be limited to the installation of permanent on-site interpretive displays or screens in publicly accessible locations. Historical photographs, including some of the large-format photographs required by Mitigation Measure M-CR-1a, may be used to illustrate the site's history. The oral history program required by Mitigation Measure M-CR-1d will also inform the interpretative program. The primary goal is to educate visitors and future residents about the property's historical themes, associations, and lost contributing features within broader historical, social, and physical landscape contexts. These themes would include but not be limited to the subject property's historic significance for its association with the earliest years of San Francisco's Municipal Railway, the United States' first publicly owned street railway and for its distinctive characteristics as a car barn, for its post-Earthquake period of construction, and as the work of master Michael M. O'Shaughnessy.	direction of the ERO			
Mitigation Measure M-CR-1d: Oral Histories (HRER Part II, Mitigation Measure 5)				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
The project sponsor team shall undertake an oral history project on the resource that may include interviews of people such as former SFMTA employees, or other community members who may offer informative historic perspectives on the history and significance of the resource. The project shall be conducted by a professional historian in conformance with the Oral History Association's Principles and Best Practices (https://www.oralhistory.org/principles-and-best-practices-revised-2018/). In addition to transcripts of the interviews, the oral history project shall include a narrative project summary report containing an introduction to the project, a methodology description, and brief summaries of each conducted interview. Copies of the completed oral history project shall be submitted to the San Francisco Public Library, Planning Department, and other interested historical institutions. The oral history project shall also be incorporated into the interpretative program.	Project Sponsor Team and qualified consultant, at the direction of the ERO	Prior to issuance of excavation permit or commencement of construction	Planning Department preservation staff shall review and approve the documentation package	Considered complete upon the Planning Department's approval and the Project Sponsor Team's implementation of the interpretive program plan
Mitigation Measure M-TCR-1: Tribal Cultural Resources Preservation and/or Interpretive Program				
During ground-disturbing activities that encounter archeological resources, if the Environmental Review Officer (ERO) determines that a significant archeological resource is present, and if in consultation with the affiliated Native American tribal representatives, the ERO determines that the resource constitutes a tribal cultural resource (TCR) and that the resource could be adversely affected by the proposed project, the proposed project shall be redesigned so as to avoid any adverse effect on the significant tribal cultural resource, if feasible. If the ERO, in consultation with the project sponsor, determines that preservation-in-place of the TCR would be both feasible and effective, then the archeological consultant shall prepare an archeological resource preservation plan (ARPP). Implementation of	Project Sponsor Team, construction contractors, and qualified consultant, at the direction of the ERO	Consultation and planning starting upon discovery of a potential TCR during archeological testing or during construction excavations; interpretive program to be implemented prior to issuance of building occupancy permit	Environmental Review Officer (ERO) or designee	In the event of the discovery of a TCR, considered complete after implementation of the Planning Department approved interpretation program

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
the approved ARPP by the archeological consultant shall be required when feasible. If the ERO, in consultation with the affiliated Native American tribal representatives and the project sponsor, determines that preservation-in-place of the TCR is not a sufficient or feasible option, then the project sponsor shall implement an interpretive program of the TCR in consultation with affiliated Native American tribal representatives. An interpretive plan produced in consultation with affiliated Native American tribal representatives, at a minimum, and approved by the ERO, would be required to guide the interpretive program. The plan shall identify proposed locations for installations or displays, the proposed content and materials of those displays or installation, the producers or artists of the displays or installation, and a long-term maintenance program. The interpretive program may include artist installations, preferably by local Native American artists, oral histories with local Native Americans, artifacts displays and interpretation, and educational panels or other informational displays.				
NOISE				
Mitigation Measure M-NO-1: Construction Noise Control				
The SFMTA and private project co-sponsor and/or its contractors on SFMTA's behalf (referred to below as project sponsor team) shall prepare construction noise control documentation as detailed below. Prior to issuance of any demolition or building permit, the project sponsor team shall submit a project-specific construction noise control plan to the Environmental Review Officer (ERO) or the ERO's designee for approval. The construction noise control plan shall be prepared by a qualified acoustical engineer, with input from the construction contractor, and include all feasible measures to reduce construction noise. The construction noise control plan shall identify noise control measures to meet a performance target of	Project Sponsor Team, construction contractors, acoustical engineer	Prior to the issuance of construction permits; prior to the commencement of each construction stage; implementation of monitoring ongoing during construction	Environmental review officer or designee in Planning Department, Project Sponsor Team	Noise control plan approved by ERO/Planning Department prior to construction and considered complete upon submission of a noise monitoring report after each construction phase and completion of construction activities

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
construction activities not resulting in a noise level greater than 90 dBA at noise-sensitive receptors and 10 dBA above the ambient noise level at noise-sensitive receptors. The project sponsor team shall ensure that requirements of the construction noise control plan are included in contract specifications. If nighttime construction is required, the plan shall include specific measures to reduce nighttime construction noise. The plan shall also include measures for notifying the public of construction activities, complaint procedures, and a plan for monitoring construction noise levels in the event complaints are received. The construction noise control plan shall include the following measures to the degree feasible, or other effective measures, to reduce construction noise levels: • Use construction equipment that is in good working order, and inspect mufflers for proper functionality; • Select "quiet" construction methods and equipment (e.g., improved mufflers, use of intake silencers, engine enclosures); • Use construction equipment with lower noise emission ratings whenever possible, particularly for air compressors; • Prohibit the idling of inactive construction equipment for more than five minutes; • Locate stationary noise sources (such as compressors) as far from nearby noise-sensitive receptors as possible (including future onsite noise-sensitive receptors at the Phase 2 Bryant Street Housing under the phased construction scenarios for the Refined Project), muffle such noise sources, and construct barriers around such sources and/or the construction site. • Avoid placing stationary noise-generating equipment (e.g., generators, compressors) within noise-sensitive buffer areas (as determined by the acoustical engineer) immediately adjacent to neighbors (including future onsite noise-				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
sensitive receptors at the Phase 2 Bryant Street Housing under the phased construction scenarios for the Refined Project). • Enclose or shield stationary noise sources from neighboring noise-sensitive properties (including the future onsite noise-sensitive receptors at the Phase 2 Bryant Street Housing under the phased construction scenarios for the Refined Project) with noise barriers to the extent feasible. To further reduce noise, locate stationary equipment in pit areas or excavated areas, if feasible; and • Install temporary barriers, barrier-backed sound curtains and/or acoustical panels around working powered impact equipment and, if necessary, around the perimeter of active construction areas or phases. When temporary barrier units are joined together, the mating surfaces shall be flush with each other. Gaps between barrier units, and between the bottom edge of the barrier panels and the ground, shall be closed with material that completely closes the gaps, and dense enough to attenuate noise. • Under the phased construction scenarios for the Refined Project, develop strategies to reduce exposure to construction noise in coordination with future onsite noise-sensitive receptors at the Phase 2 Bryant Street Housing. Some options to reduce noise include limiting noise to Phase 2 Bryant Street receptors by delaying or limiting occupancy in units closest to the construction zone or notifying receptors of loud construction periods. These options should be explored as part of the noise control plan prepared by a qualified noise consultant and the construction contractor. The construction noise control plan shall include the following measures for notifying the public of construction activities, complaint procedures, and monitoring construction noise levels:				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
• Designate an on-site construction noise manager for the project; • Notify neighboring noise-sensitive receptors within 300 feet of the project construction area at least 30 days in advance of high-intensity noise-generating activities (e.g., pier drilling, pile driving, and other activities that may generate noise levels greater than 90 dBA at noise-sensitive receptors) about the estimated duration of the activity (including future onsite noise-sensitive receptors at the Phase 2 Bryant Street Housing under the phased construction scenarios for the Refined Project); • Post a sign onsite describing noise complaint procedures and a complaint hotline number that shall always be answered during construction; • Implement a procedure for notifying the planning department of any noise complaints within one week of receiving a complaint; • Establish a list of measures for responding to and tracking complaints pertaining to construction noise. Such measures may include the evaluation and implementation of additional noise controls at sensitive receptors (residences, hospitals, convalescent homes, schools, churches, hotels and motels, and sensitive wildlife habitat); and • Conduct noise monitoring (measurements) at the beginning of major construction phases (e.g., demolition, grading, excavation) and during high-intensity construction activities to determine the effectiveness of noise attenuation measures and, if necessary, implement additional noise control measures. The construction noise control plan shall include the following additional measures in the event of pile-driving activities:				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
• When pile driving is to occur within 600 feet of a noise-sensitive receptor, implement "quiet" pile-driving technology (such as pre-drilling of piles, sonic pile drivers, auger cast-in-place, or drilled-displacement, or the use of more than one pile driver to shorten the total pile-driving duration [only if such measure is preferable to reduce impacts to sensitive receptors]) where feasible, in consideration of geotechnical and structural requirements and conditions; • Where the use of driven impact piles cannot be avoided, properly fit impact pile driving equipment with an intake and exhaust muffler and a sound-attenuating shroud, as specified by the manufacturer; and • Conduct noise monitoring (measurements) before, during, and after the pile-driving activity.				
Mitigation Measure M-NO-2: Vibration-Sensitive Equipment at 2601 Mariposa Street (KQED Building)				
Prior to construction, the SFMTA and private project co-sponsor and/or its contractors on SFMTA's behalf (referred to below as project sponsor team) shall designate and make available a community liaison to respond to vibration complaints from building occupants at the KQED building, located at 2601 Mariposa Street. Contact information for the community liaison shall be posted in a conspicuous location so that it is clearly visible to building occupants most likely to be disturbed. Through the community liaison, the project sponsor team shall provide notification to property owners and occupants of 2601 Mariposa Street at least 10 days prior to construction activities involving equipment that can generate vibration capable of interfering with vibration-sensitive equipment, informing them of the estimated start date and duration of vibration-generating construction activities. Equipment types capable of generating such vibration include an impact pile	Project Sponsor Team, and qualified consultant, at the direction of the ERO	Prior to the issuance building and construction permits	Project sponsor, project acoustical engineer and Planning Department	Considered complete after construction activities are completed and after buildings and/or structures are remediated to their pre-construction condition at the conclusion of vibration-generating activity on the site, should any damage occur

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
driver, or similar equipment, operating within 250 feet of the building or a vibratory roller, or similar equipment, operating within 125 feet of the building. If feasible, the project sponsor team shall identify potential alternative equipment and techniques that could reduce construction vibration levels. Alternative equipment and techniques may include, but are not limited to: • pre-drilled piles, • caisson drilling, • oscillating or rotating pile installation, • jetting piles into place using a water injection at the tip of the pile could be substituted for driven piles, if feasible, based on soil conditions, • static rollers could be substituted for vibratory rollers in some cases. If concerns prior to construction or complaints during construction related to equipment interference are identified, the community liaison shall work with the project sponsor team and the affected building occupants to resolve the concerns such that the vibration control measures would meet a performance target of the 65 VdB vibration level threshold for vibration sensitive equipment, as set forth by Federal Transit Authority (FTA). To resolve concerns raised by building occupants, the community liaison shall convey the details of the complaint(s) to the project sponsor team, such as who shall implement specific measures to ensure that the project construction meets the performance target of 65 VdB vibration level for vibration sensitive equipment. These measures may include evaluation by a qualified noise and vibration consultant, scheduling certain construction activities outside the hours of operation or recording periods of specific vibration-sensitive equipment if feasible, and/or conducting ground-borne vibration monitoring to document that the project can meet the performance target of 65 VdB at specific distances and/or locations. Ground-borne				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
vibration monitoring, if appropriate to resolve concerns, shall be conducted by a qualified noise and vibration consultant.				
Mitigation Measure NO-3: Fixed Mechanical Equipment Noise Control for Building Operations				
The SFMTA and a private project co-sponsor and/or its contractors on SFMTA's behalf (referred to below as project sponsor team) shall prepare operational noise control documentation as detailed below. Prior to approval of a building permit, the project sponsor team shall submit documentation to the Environmental Review Officer (ERO) or the officer's designee, demonstrating with reasonable certainty that the building's fixed mechanical equipment (such as heating, ventilation and air conditioning [HVAC] equipment) meets the noise limits specified in sections 2909 (b) and 2909 (d) of the noise ordinance (i.e., an 8-dB increase above the ambient noise level at the property plane for commercial or mixed-use properties; and interior noise limits of 55 dBA and 45 dBA for daytime and nighttime hours inside any sleeping or living room in a nearby dwelling unit on a residential property assuming windows open, respectively). Acoustical treatments required to meet the noise ordinance may include, but are not limited to: • Enclosing noise-generating mechanical equipment; • Installing relatively quiet models of air handlers, exhaust fans, and other mechanical equipment; • Using mufflers or silencers on equipment exhaust fans; • Orienting or shielding equipment to protect noise-sensitive receptors (residences, hospitals, convalescent homes, schools, churches, hotels and motels, and sensitive wildlife habitat) to the greatest extent feasible; • Increasing the distance between noise-generating equipment and noise-sensitive receptors; and/or	Project Sponsor Team and qualified consultant, at the direction of the ERO	Prior to the issuance building permit	Environmental Review Officer (ERO) or designee	Considered complete after receipt and acceptance of the appropriate documentation to the ERO

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
• Placing barriers around the equipment to facilitate the attenuation of noise. Compliance with this fixed-mechanical equipment noise control for building operations standard requirement does not obviate the need for the equipment to demonstrate compliance with the noise ordinance throughout the lifetime of the project.				
AIR QUALITY				
Mitigation Measure M-AQ-1: Off-Road Construction Equipment Emissions Minimization				
The SFMTA and private project co-sponsor and/or its contractors on SFMTA's behalf (referred to below as project sponsor team) shall comply with the following: A. Engine Requirements. 1. All off-road equipment greater than or equal to 25 horsepower shall have engines that meet U.S. EPA or California Air Resources Board Tier 4 Final off-road emission standards. 2. Where access to alternative sources of power is available, portable diesel engines shall be prohibited. If access to alternative sources of power is infeasible, portable diesel engines shall meet the requirements of Subsection (A)(1). 3. Diesel engines, whether for off-road or on-road equipment, shall not be left idling for more than two minutes, at any location, except as provided in exceptions to the applicable state regulations regarding idling for off-road and on-road equipment (e.g., traffic conditions, safe operating conditions). The project sponsor team shall post legible and visible signs in English, Spanish, and Chinese, in designated queuing	Project Sponsor Team, construction contractors	Prior to issuance of a construction permit; implementation ongoing during construction	Environmental Review Officer (ERO) or designee/ project sponsor	Considered complete upon Planning Department review and approval of Construction Emissions Minimization Plan, ongoing review and approval of biannual reports, and review and approval of final construction report

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
areas and at the construction site to remind operators of the two-minute idling limit. 4. The project sponsor team shall instruct construction workers and equipment operators on the maintenance and tuning of construction equipment and require that such workers and operators properly maintain and tune equipment in accordance with manufacturer specifications. B. Waivers. 1. The San Francisco Planning Department Environmental Review Officer (ERO) may waive the equipment requirements of Subsection (A)(1) if: a particular piece of off-road Tier 4 Final equipment is not regionally available, not technically feasible, or would not produce desired emissions reduction due to expected operating modes. In granting the waiver, the project sponsor team must demonstrate with substantial evidence that the project construction does not exceed the BAAQMD threshold for NOx (54 lbs/day) by resulting in a net increase of average daily NOx emissions greater than 4 pounds per day. The project sponsor team must also demonstrate with substantial evidence that the overall combined construction and operational excess cancer risk does not exceed 7 per 1 million persons exposed at nearby sensitive receptors. C. Construction Emissions Minimization Plan. 1. Before starting onsite construction activities, the project sponsor team shall submit a Construction Emissions Minimization Plan (Plan) to the ERO for review and approval. The Plan shall state, in reasonable detail, how the project sponsor team will meet the requirements of Section A.				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
2. The Plan shall include estimates of the construction timeline by phase, with a description of each piece of off-road equipment required for every construction phase. The description may include, but is not limited to: equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, engine serial number, and expected fuel use and hours of operation. 3. The project sponsor team shall ensure that all applicable requirements of the Plan have been incorporated into the contract specifications. The Plan shall include a certification statement that the project sponsor team agrees to comply fully with the Plan. 4. The project sponsor team shall make the Plan available to the public for review onsite during working hours. The project sponsor team shall post at the construction site a legible and visible sign summarizing the Plan. The sign shall also state that the public may ask to inspect the Plan for the project at any time during working hours and shall explain how to request to inspect the Plan. The project sponsor team shall post at least one copy of the sign in a visible location on each side of the construction site facing a public right-of-way. D. Monitoring 1. After start of construction activities, the project sponsor team shall submit biannual reports to the ERO documenting compliance with the Plan. After completion of construction activities and prior to receiving a final certificate of occupancy, the project sponsor team shall submit to the ERO a final report summarizing construction activities, including the start and end dates and duration of each construction phase, and the specific information required in the Plan.				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
Mitigation Measure M-AQ-3: Emergency Diesel Generator Health Risk Reduction Plan				
The SFMTA and private project co-sponsor and/or its contractors on SFMTA's behalf (referred to below as the project sponsor team) shall comply with the following: 1. Require all emergency diesel generators to meet Tier 4 Final emission standards and reduce annual testing limit to 20 hours per year for each generator; or 2. Require all emergency generators to be battery-powered; or 3. The project sponsor team shall retain a qualified air quality consultant to develop an Emergency Diesel Generator Health Risk Reduction Plan. The project sponsor team shall submit the plan to the San Francisco Planning Department Environmental Review Officer (ERO) for review and approval prior to issuance of a permit for emergency diesel generators from the San Francisco Department of Building Inspection or the Bay Area Air Quality Management District. The plan must include, for each emergency diesel generator, a description of the anticipated venting location, engine specifications, and annual maintenance testing procedures. The plan must demonstrate with substantial evidence that annual maintenance testing will not result in the project's overall construction and operational cancer risk exceeding 7 per one million persons exposed at nearby offsite sensitive receptors. Additionally, the operator of the facility at which the generators are located (including the private project co-sponsor as applicable) shall be required to maintain records of the testing schedule for each emergency diesel generator for the life of that generator and to	Project Sponsor Team and construction contractor	Prior to issuance of a permit for emergency diesel generator	Project Sponsor Team, facility maintenance contractor, and the Planning Department	Considered complete upon Planning Department review and approval of Emergency Diesel Generator Health Risk Reduction Plan

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
provide this information for review to the planning department within three months of requesting such information.				
WIND				
Mitigation Measure M-WI-1(a): Design Measures to Reduce Project-Specific Wind Impacts				
The project sponsor team shall retain a qualified wind consultant to prepare, in consultation with the San Francisco Planning Department (planning department), a wind impact mitigation report that identifies design measures to reduce the project's wind impacts in the project scenario. Prior to certification of the Final Environmental Impact Report, the project sponsor team shall submit the wind impact mitigation report to the planning department for its final review and approval. The wind impact mitigation report shall incorporate updated information on the building design based on a list of potential wind reduction measures identified below, along with the estimated effectiveness of each measure to reduce the identified off-site wind hazards. • Porous façades on portions of the north, east and west sides for natural ventilation as part of the heating, ventilation, and air conditioning strategy for the new transit facility at the second and third levels • Recessed building corner up to 12 feet in height at the southwest corner of proposed building near Bryant/Mariposa intersection • Vertical elevated screens on portions of the second and third levels of the west façade (Bryant Street) • Vertical wind screens at grade level on the adjacent Bryant Street sidewalk near the Bryant/Mariposa intersection Such wind reduction design measures may include additional on-site landscaping, or equivalent wind-reducing features; and off-site wind reduction measures such as landscaping, streetscape	Project Sponsor Team/qualified consultant	Prior to completion of the environmental review	Project Sponsor Team, and the Planning Department	Completion of and acceptance of the wind impact mitigation report by the Planning Department

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
improvements or other wind-reducing features, such as wind screens. The project sponsor team shall implement as many of the design measures identified in the wind impact mitigation report as needed to reduce the proposed project's or project variants' potential to create a new wind hazard or exacerbate an existing wind hazard in publicly accessible areas of substantial pedestrian use to less-than-significant levels. The final wind impact mitigation report should not find that the project produces a net increase of the already identified wind hazard exceedances. The planning department shall approve the final list of wind reduction measures that the project sponsor team shall implement.				
Mitigation Measure M-WI-1(b): Additional Wind Testing				
If changes to the building design or massing are proposed after certification of the Final Environmental Impact Report, additional wind analysis may be required to confirm the modified design does not result in any 9-hour wind hazard exceedances and to minimize 1-hour wind hazard exceedances. If the planning department determines that the modified design could result in wind hazard criterion exceedances (for example, due to the removal of one or more wind reducing features), the project sponsor team shall retain a qualified wind consultant to prepare a wind analysis under the direction of the planning department. The wind analysis may require a wind tunnel test and shall identify wind reduction measures needed to avoid 9-hour wind hazard exceedances and to minimize 1-hour wind hazard exceedances.	Project Sponsor Team /qualified consultant	Prior to completion of the environmental review	Project Sponsor Team, and the Planning Department	Completion of and acceptance of the wind impact mitigation report by the Planning Department
GEOLOGY AND SOILS				
Mitigation Measure M-GE-6a: Inadvertent Discovery of Paleontological Resources				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
Worker Awareness Training - Prior to commencing construction, and ongoing throughout ground disturbing activities (e.g., excavation, utility installation, the project sponsor and/or their designee shall ensure that all project construction workers are trained on the contents of the Paleontological Resources Alert Sheet, as provided by the Planning Department. The Paleontological Resources Alert Sheet shall be prominently displayed at the construction site during ground disturbing activities for reference regarding potential paleontological resources. In addition, the project sponsor shall inform the contractor and construction personnel of the immediate stop work procedures and other procedures to be followed if bones or other potential fossils are unearthed at the project site. Should new workers that will be involved in ground disturbing construction activities begin employment after the initial training has occurred, the construction supervisor shall ensure that they receive the worker awareness training as described above. The project sponsor shall complete the standard form/affidavit confirming the timing of the worker awareness training to the Environmental Review Officer (ERO). The affidavit shall confirm the project's location, the date of training, the location of the informational handout display, and the number of participants. The affidavit shall be transmitted to the ERO within five (5) business days of conducting the training. Paleontological Resource Discoveries - In the event of the discovery of an unanticipated paleontological resource during project construction, ground disturbing activities shall temporarily be halted within 25 feet of the find until the discovery is examined by a qualified paleontologist as recommended by the Society of	Project Sponsor Team, construction contractors, at the direction of the ERO	Prior to construction commencement	Project Sponsor Team and the Planning Department	Submission of evidence of worker awareness training and distribution of alert sheet to the satisfaction of the Planning Department, including proper adherence to procedures if a resource is encountered

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
Vertebrate Paleontology standards (SVP 2010) and Best Practices in Mitigation Paleontology (Murphey et al. 2019). Work within the sensitive area shall resume only when deemed appropriate by the qualified paleontologist in consultation with the ERO. The qualified paleontologist shall determine: 1) if the discovery is scientifically significant; 2) the necessity for involving other responsible or resource agencies and stakeholders, if required or determined applicable; and 3) methods for resource recovery. If a paleontological resource assessment results in a determination that the resource is not scientifically important, this conclusion shall be documented in a Paleontological Evaluation Letter to demonstrate compliance with applicable statutory requirements (e.g., Federal Antiquities Act of 1906, CEQA Guidelines Section 15064.5, California Public Resources Code Chapter 17, Section 5097.5, Paleontological Resources Preservation Act 2009). The Paleontological Evaluation Letter shall be submitted to the ERO for review within 30 days of the discovery. If the qualified paleontologist determines that a paleontological resource is of scientific importance, and there are no feasible measures to avoid disturbing this paleontological resource, the qualified paleontologist shall prepare a Paleontological Mitigation Program. The mitigation program shall include measures to fully document and recover the resource of scientific importance. The qualified paleontologist shall submit the mitigation program to the ERO for review and approval within 10 business days of the discovery. Upon approval by the ERO, ground disturbing activities in the project area shall resume and be monitored as determined by the qualified paleontologist for the duration of such activities. The mitigation program shall include: 1) procedures for construction monitoring at the project site; 2) fossil preparation and				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
identification procedures; 3) curation of paleontological resources of scientific importance into an appropriate repository; and 4) preparation of a Paleontological Resources Report (report or paleontology report) at the conclusion of ground disturbing activities. The report shall include dates of field work, results of monitoring, fossil identifications to the lowest possible taxonomic level, analysis of the fossil collection, a discussion of the scientific significance of the fossil collection, conclusions, locality forms, an itemized list of specimens, and a repository receipt from the curation facility. The project sponsor shall be responsible for the preparation and implementation of the mitigation program, in addition to any costs necessary to prepare and identify collected fossils, and for any curation fees charged by the paleontological repository. The paleontology report shall be submitted to the ERO for review within 30 business days from conclusion of ground disturbing activities, or as negotiated following consultation with the ERO.				
Mitigation Measure M-GE-6b: Preconstruction Paleontological Evaluation and Monitoring Plan during Construction				
The project sponsor shall engage a qualified paleontologist to develop a site-specific monitoring plan prior to commencing soil-disturbing activities at the project site. The Preconstruction Paleontological Monitoring Plan would determine project construction activities requiring paleontological monitoring based on those may affect sediments with moderate sensitivity for paleontological resources. Prior to issuance of any demolition permit, the project sponsor shall submit the Preconstruction Paleontological Monitoring Plan to the ERO for approval. At a minimum, the plan shall include: 1. Project Description 2. Regulatory Environment – outline applicable federal, state and local regulations	Project Sponsor Team, construction contractors, and qualified consultant, at the direction of the ERO	Prior to construction commencement	Project Sponsor Team and the Planning Department	Completion of and acceptance of the Preconstruction Paleontological Evaluation by the Planning Department

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
3. Summary of Sensitivity Classification(s) 4. Research Methods, including but not limited to: 4.a. Field studies conducted by the approved paleontologist to check for fossils at the surface and assess the exposed sediments. 4.b. Literature Review to include an examination of geologic maps and a review of relevant geological and paleontological literature to determine the nature of geologic units in the project area. 4.c. Locality Search to include outreach to the University of California Museum of Paleontology in Berkeley. 5. Results: to include a summary of literature review and finding of potential site sensitivity for paleontological resources; and depth of potential resources if known. 6. Recommendations for any additional measures that could be necessary to avoid or reduce any adverse impacts to recorded and/or inadvertently discovered paleontological resources of scientific importance. Such measures could include: 6.a. Avoidance: If a known fossil locality appears to contain critical scientific information that should be left undisturbed for subsequent scientific evaluation. 6.b. Fossil Recovery: If isolated small, medium- or large-sized fossils are discovered during field surveys or construction monitoring, and they are determined to be scientifically significant, they should be recovered. Fossil recovery may involve collecting a fully exposed fossil from the ground surface, or may involve a systematic excavation, depending upon the size and complexity of the fossil discovery. 6.c. Monitoring: Monitoring involves systematic inspections of graded cut slopes, trench sidewalls, spoils piles, and other types of construction				

MONITORING AND REPORTING PROGRAM[1]

Adopted Mitigation Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
excavations for the presence of fossils, and the fossil recovery and documentation of these fossils before they are destroyed by further ground disturbing actions. Standard monitoring is typically used in the most paleontologically sensitive geographic areas/geologic units (moderate, high and very high potential); while spot-check monitoring is typically used in geographic areas/geologic units of moderate or unknown paleontological sensitivity (moderate or unknown potential). 6.d. Data recovery and reporting: Fossil and associated data discovered during soils disturbing activities should be treated according to professional paleontological standards and documented in a data recovery report. The plan should define the scope of the data recovery report. The consultant shall document the monitoring conducted according to the monitoring plan and any data recovery completed for significant paleontological resource finds discovered, if any. Plans and reports prepared by the consultant shall be considered draft reports subject to revision until final approval by the ERO. The final monitoring report and any data recovery report shall be submitted to the ERO prior to the certificate of occupancy.				

Continues on the next page.

Table 5: IMPROVEMENT MEASURES FOR THE POTRERO YARD MODERNIZATION PROJECT

MONITORING AND REPORTING PROGRAM[1]

Adopted Improvement Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
IMPROVEMENT MEASURES AGREED TO BY PROJECT SPONSOR TEAM				
TRANSPORTATION				
Improvement Measure I-TR-A: Construction Management Plan – Additional Measures				
As part of the project's construction management plan, the SFMTA and a private project co-sponsor and/or its contractors on SFMTA's behalf (referred to as project sponsor team) will require additional measures to further minimize disruptions to people walking and bicycling, transit, and emergency vehicles during project construction: The additional measures include: Carpool, Bicycle, Walk, and Transit Access for Construction Workers—Carpool, Bicycle, Walk, and Transit Access for Construction Workers—To minimize parking demand and vehicle trips associated with construction workers, the construction contractor will include as part of the Construction Management Plan methods to encourage carpooling, bicycle, walk, and transit access to the project site by construction workers. These methods could include providing secure bicycle parking spaces, participating in free-to-employee and employer ride matching program from www.511.org, participating in emergency ride home program through the City of San Francisco (www.sferh.org), and providing transit information to construction workers. Project Construction Updates for Adjacent Businesses and Residents— To minimize construction impacts on access to nearby residences and businesses, the project sponsor team will provide nearby residences and adjacent businesses with regularly updated information regarding project construction, including construction activities, peak construction vehicle activities, travel lane closures,	Project Sponsor Team, including SFMTA regulatory teams, and construction contractor	Prior to the issuance of construction permits; implementation ongoing during construction with construction updates provided weekly; Active Monitoring of Detours as needed	Project Sponsor Team, SFMTA (in its regulatory capacity)	Considered complete upon the submittal and approval of the Construction Management Plan to the SFMTA (in its regulatory capacity)

MONITORING AND REPORTING PROGRAM[1]

Adopted Improvement Measures	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
and parking lane and sidewalk closures (e.g., via the project's website). At regular intervals to be defined in the construction management plan, a regular email notice will be distributed by the project sponsor team that would provide current construction information of interest to neighbors, as well as contact information for specific construction inquiries or concerns.				
Improvement Measure I-TR-B: Driveway and Loading Operations Plan (DLOP)				
The project sponsor team (including joint development project sponsor as applicable) will be required to prepare and implement a Driveway and Loading Operations Plan (DLOP). The DLOP will be prepared by the private project co-sponsor, in coordination with the SFMTA, and submitted as part of the application for the first temporary occupancy permit. The DLOP will include provisions to manage loading activities and driveway operations associated with the below-grade onsite loading spaces; provisions for assessing on-street commercial and passenger loading supply and protocol for expanding on-street supply, if needed; provisions for trash/recycling/compost truck access and collection operations; provisions for residential move-in and move-out operations; provisions for scheduling Muni deliveries using the onsite loading facilities; and provisions for accommodating recurring deliveries such as UPS, Federal Express, and USPS within the onsite loading facilities. The intent of the DLOP is to reduce potential conflicts between passenger and freight loading and transit operations, and between passenger and freight loading activities and people walking and bicycling, and other vehicles in the project vicinity, as well as to maximize reliance on onsite facilities to accommodate freight loading demand.	Project Sponsor Team	Project Sponsor Team to submit Loading Management Plan to ERO prior to the issuance of any certificate of occupancy for the proposed project.	ERO, Project Sponsor Team or successor owner/ manager of residential building	Considered complete upon ERO approval of Loading Management Plan; Ongoing monitoring to continue indefinitely

Table 6: PUBLIC WORKS STANDARD CONSTRUCTION MEASURES FOR THE POTRERO YARD MODERNIZATION PROJECT

Public Works' Regulatory Affairs division will ensure the Standard Construction Measures are included in construction specifications and contracts. The planning department environmental monitoring team will confirm the public works standard construction measures have been incorporated into the final project agreement with the project sponsor team.

	MONITORING AND REPORTING PROGRAM[1]			
Adopted Public Works Standard Construction Measure	**Implementation Responsibility**	**Mitigation Schedule**	**Monitoring / Reporting Responsibility**	**Monitoring Actions / Completion Criteria**
PUBLIC WORKS STANDARD CONSTRUCTION MEASURES AGREED TO BY PROJECT SPONSOR TEAM				
Public Works Standard Construction Measure #1, Seismic and Geotechnical Studies (Geology and Soils)				
The project manager shall ensure that projects that may potentially be affected by existing soil, slope and/or geologic conditions at the project site will be screened for liquefaction, subsidence, landslide, fault displacement, and other geological hazards at the project site, and will be engineered and designed as necessary to minimize risks to safety and reliability due to such hazards. As necessary, geotechnical investigations will be performed.	Project Sponsor Team, construction contractors	Prior to construction	Project Sponsor Team, Planning Department, Public Works Regulatory Affairs	Considered complete upon submission of geotechnical investigations, if applicable
Public Works Standard Construction Measure #2, Air Quality				
All projects will comply with the Construction Dust Control Ordinance. Major construction projects that are estimated to require 20 or more days of cumulative work within the Air Pollutant Exposure Zone must comply with the additional clean construction requirements of the Clean Construction Ordinance.	Project Sponsor Team, construction contractors	Ongoing during construction	Project Sponsor Team, Planning Department, Public Works Regulatory Affairs	Considered complete upon submission of a Site-Specific Dust Control Plan for the review and approval of the Department of Public Health
Public Works Standard Construction Measure #3, Water Quality				
All projects will implement erosion and sedimentation controls to be tailored to the project site, such as fiber rolls and/or gravel bags around storm drain inlets, installation of silt fences, and other such measures sufficient-to prevent discharges of sediment and other pollutants to storm drains and all surface waterways, such as San Francisco Bay, the Pacific Ocean, water supply reservoirs, wetlands, swales, and streams. As required based on project location and size,	Project Sponsor Team, construction contractors	Ongoing during construction	Project Sponsor Team, Planning Department, Public Works Regulatory Affairs	Considered complete upon Project Sponsor Team's enforcement of water quality considerations

MONITORING AND REPORTING PROGRAM[1]

Adopted Public Works Standard Construction Measure	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
a Stormwater Control Plan (in most areas of San Francisco) or a Stormwater Pollution Prevention Plan (SWPPP) (in certain areas of San Francisco) will be prepared. If uncontaminated groundwater is encountered during excavation activities, it will be discharged in compliance with applicable water quality standards and discharge permit requirements.				
Public Works Standard Construction Measure #4, Traffic				
All projects will implement traffic control measures sufficient to maintain traffic and pedestrian circulation on streets affected by construction of the project. The measures will also, at a minimum, be consistent with the requirements of San Francisco Municipal Transportation Agency (SFMTA)'s Blue Book. Traffic control measures may include, but not be limited to, flaggers and/or construction warning sign age of work ahead; scheduling truck trips during non-peak hours to the extent feasible; maintaining access to driveways, private roads, and off-street commercial loading facilities by using steel trench plates or other such method; and coordination with local emergency responders to maintain emergency access. Any temporary rerouting of transit vehicles or relocation of transit facilities would be coordinated with SFMTA Muni Operations.	Project Sponsor Team, construction contractors	Ongoing during construction	Project Sponsor Team; SFMTA Muni Operations, Public Works Regulatory Affairs	Considered complete upon the submittal and approval of the Construction Management Plan to the SFMTA
Public Works Standard Construction Measure #5, Noise				
All projects will comply with local noise ordinances resulting construction noise. Public Works shall undertake measures to minimize noise disruption to nearby neighbors and sensitive receptors during construction. These efforts could include using best available noise control technologies on equipment (i.e., mufflers, ducts, and acoustically attenuating shields), locating stationary noise sources (i.e., pumps and generators) away from sensitive receptors, erecting temporary noise barriers, and other such means.	Project Sponsor Team, construction contractors	Ongoing during construction	Project Sponsor Team, Planning Department, Public Works Regulatory Affairs	Considered complete upon Project Sponsor enforcement of local noise ordinances

MONITORING AND REPORTING PROGRAM[1]

Adopted Public Works Standard Construction Measure	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
Public Works Standard Construction Measure #6, Hazardous Materials				
Projects that involve excavation of 50 cubic yards of soil in the Maher Zone will comply with the Maher Ordinance. Projects on sites that are not currently located in the Maher Zone but have the potential to contain hazardous materials in soil and/or groundwater will be referred to the Department of Public Health as newly identified Maher sites.	Project Sponsor Team, construction contractors	Ongoing during construction	Project Sponsor Team, Planning Department, Public Works Regulatory Affairs	Considered complete upon Project Sponsor enforcement of Maher ordinance
Public Works Standard Construction Measure #7, Biological Resources				
Projects will comply with all local, state, and federal requirements for surveys, analysis, and protection of biological resources (e.g., Migratory Bird Treaty Act, Federal and State Endangered Species Acts, etc.). The project site and the immediately surrounding area will be screened to determine whether biological resources may be affected by construction. If biological resources are present, a qualified biologist will carry out a survey of the project site to note the presence of general biological resources and to identify whether habitat for special-status species and/or migratory birds is present. If necessary, measures will be implemented to protect biological resources, such as installing wildlife exclusion fencing, establishing work buffer zones, installing bird deterrents, having a qualified biologist conduct monitoring, and other such applicable measures. Tree removal will also comply with any applicable tree protection ordinance.	Project Sponsor Team, construction contractors	Ongoing during construction	Project Sponsor Team, Planning Department, Public Works Regulatory Affairs	Considered complete upon Project Sponsor enforcement of biological considerations
Public Works Standard Construction Measure #8, Visual and Aesthetic Considerations, Project Site				
All project sites will be maintained in a clean and orderly state. Construction staging areas will be sited away from public view, and on currently paved or previously disturbed areas, where possible.	Project Sponsor Team, construction contractors	Ongoing during construction	Project Sponsor Team, Planning Department, Public Works Regulatory Affairs	Considered complete upon Project Sponsor Team's enforcement of visual considerations

MONITORING AND REPORTING PROGRAM[1]

Adopted Public Works Standard Construction Measure	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
Nighttime lighting will be directed away from residential areas and have shields to prevent light spillover effects. Upon project completion, project sites on City-owned lands will be returned to their general pre-project condition, including re-grading of the site and re-vegetation or re-paving of disturbed areas to the extent this is consistent with Public Works Bureau of Urban Forestry Policy and San Francisco Code. Project sites on non-City land will be restored to their general pre-project condition so that the owner may return them to their prior use, unless otherwise arranged with the property owner.				
Public Works Standard Construction Measure #9, Cultural Resources				
All projects that will alter a building or structure, produce vibrations, or include soil disturbance will be screened to assess whether cultural resources are or may be present and could be affected, as detailed below. Soil is defined as native earthen deposits or introduced earthen fill. Soil does not include materials that were previously introduced as part of roadway pavement section including asphalt concrete wearing roadway base and subbase. *Archeological Resources.* The EP Archeologist has determined that Standard Archeological Measure III (Testing/Data Recovery) shall be implemented by Public Works to protect and/or treat significant archeological resources identified as being present within the site and potentially affected by the project (see Attachment H: Public Works Archeological Measure III (Testing / Data Recovery)). 1. Public Works shall implement the EP Archeologist's recommendations prior to and/or during project construction consistent with Standard Archeological Measure III and shall consult with the EP Archeologist in	Project Sponsor Team, construction contractors	Prior to issuance of a construction permit	Project Sponsor Team, the EP Archeologist staff, Public Works and the ERO	Considered complete upon compliance with Standard Archeological Measure III (Testing/Data Recovery) requirements

Adopted Public Works Standard Construction Measure	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
selecting a qualified archeological consultant from the EP Archeological Resources Consultant Pool, as needed, to implement these measures. 2. Soil-disturbing activities in archeologically sensitive areas, as identified through the above process, will not begin until preconstruction archeological measures required by the EP Archeologist (e.g., preparation of an Archeological Testing Plan, Archeological Treatment Plan, and/or an Archeological Data Recovery Plan) have been implemented.				
Public Works Standard Construction Measure #9, Cultural Resources				
All projects that will alter a building or structure, produce vibrations, or include soil will be screened to assess whether cultural resources are or may be present disturbance and could be affected, as detailed below. *Historic (Built Environment) Resources*. Where construction will take place in proximity to a building or structure identified as a significant historical resource but would not otherwise directly affect it, Public Works will implement protective measures, such as but not limited to, the erection of temporary construction barriers to ensure that inadvertent impacts to such buildings or structures are avoided. These measures shall require the development of a Construction Best Practices for Historical Resources Plan and a plan outlining the Construction Monitoring for Historical Resources Program to be reviewed and approved by CCSF Planning Department Preservation staff. If a project includes or is directly adjacent to historic buildings or structures susceptible to vibration (such as but not limited to unreinforced masonry, earthen construction, lathe and plaster, or fragile architectural ornamentation) as determined in consultation with CCSF Planning Department Preservation staff, Public Works will determine if vibrations associated with proposed construction	Project Sponsor Team, construction contractors	Prior to issuance of a construction permit	Project Sponsor Team, the EP Preservation staff, Public Works and the ERO	Considered complete upon compliance with requirements

MONITORING AND REPORTING PROGRAM[1]

Adopted Public Works Standard Construction Measure	Implementation Responsibility	Mitigation Schedule	Monitoring / Reporting Responsibility	Monitoring Actions / Completion Criteria
activities has the potential to cause damage to such buildings or structures. Generally, vibration below 0.12 inches per second peak particle velocity does not have the potential to damage sensitive buildings or structures. A vibration study may be necessary to determine if such vibration levels will occur. If Public Works determines in consultation with CCSF Planning Department Preservation staff that vibration damage may occur, Public Works will engage a qualified historic architect or historic preservation professional to document and photograph the preconstruction condition of the building and prepare a plan for monitoring the building during construction. The monitoring plan will be submitted to and approved by CCSF Planning Department Preservation Planner prior to the beginning of construction and will be implemented during construction. The monitoring plan will identify how often monitoring will occur, who will undertake the monitoring, reporting requirements on vibration levels, reporting requirements on damage to adjacent historical resources during construction, reporting procedures to follow if such damage occurs, and the scope of the preconstruction survey and post-construction conditions assessment. If any damage to a historic building or structure occurs, Public Works will modify activities to minimize further vibration. If any damage occurs, the building will be repaired following the Secretary of the Interior's Standards for the Treatment of Historic Properties under the guidance of a qualified historic architect or historic preservation professional in consultation with CCSF Department Preservation Planner.				

[1] *Definitions of MMRP Column Headings:*
Adopted Mitigation, Improvement or Public Works Standard Construction Measures: Full text of the mitigation measures, improvement measures or Public Works Standard Construction Measures copied verbatim from the final CEQA document.
Implementation Responsibility: Entity who is responsible for implementing the mitigation measures, improvement measures or Public Works Standard Construction Measures. In most cases this is the project sponsor and/or project's sponsor's contractor/consultant and at times under the direction of the planning department.
Mitigation Schedule: Identifies milestones for when the actions in the mitigation measure, improvement measure or Public Works Standard Construction Measure need to be implemented.

Monitoring/Reporting Responsibility: Identifies who is responsible for monitoring compliance with the mitigation measure, improvement measure or Public Works Standard Construction Measure and any reporting responsibilities. In most cases it is the Planning Department who is responsible for monitoring compliance. If a department or agency other than the planning department is identified as responsible for monitoring, there should be an expressed agreement between the planning department and that other department/agency. In most cases the project sponsor, their contractor, or consultant are responsible for any reporting requirements.
Monitoring Actions/Completion Criteria: Identifies the milestone at which the mitigation measure, improvement measure or Public Works Standard Construction Measure is considered complete. This may also identify requirements for verifying compliance.