MMRP

San Francisco Planning

AGREEMENT TO IMPLEMENT MITIGATION MONITORING AND REPORTING PROGRAM

Record No.:	2022-000112ENV	*Block/Lot:*	N/A
Project Title:	Islais Creek Bridge Project	*Lot Size:*	N/A
BPA Nos:	N/A	*Project Sponsor:*	Thomas Roitman, San Francisco Public Works, 628.271.2404
Zoning:	P (Public) Use District PDR-2 (Production, Distribution and Repair) M-2 (Heavy Industrial)	*Lead Agency:* *Staff Contact:*	San Francisco Planning Department Elizabeth White, 628.652.7557, elizabeth.white@sfgov.org

The table below indicates when compliance with each mitigation measure must occur. Some mitigation 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.

Adopted Mitigation Measure	Period of Compliance			Compliance with Mitigation Measure Completed?
	Prior to the Start of Construction*	During Construction**	Post-construction or Operational	
Mitigation Measure M-CR-1a: Islais Creek Bridge Documentation	X			
Mitigation Measure M-CR-1b: Salvage Plan	X			
Mitigation Measure M-CR 1c: Public Interpretive Plan	X			
Mitigation Measure M-CR 1d: Community Memorial Event	X			
Mitigation Measure M-CR-3: Accidental Discovery	X	X		
Mitigation Measure M-TR-1: Reduce Transit Travel Times for T-Third Street and 19 Polk Riders	X	X		
Mitigation Measure M-AQ-3: Requirements for Off-Road Construction Equipment	X	X		
Mitigation Measure M-BI-1: Special-Status Species and Jurisdictional Waters Impact Avoidance	X	X		
Mitigation Measure M-BI-2: Fish and Marine Mammal Protection during Pile Removal		X		
Mitigation Measure M-BI-3: Avoidance and Minimization Measures for Bats	X	X		
Mitigation Measure M-BI-4: Worker Environmental Awareness Program Training	X			
Mitigation Measure M-BI-5: Protection of Herring Spawn		X		

NOTES:

* Prior to any ground disturbing activities at the project site, including during the design phase.

** 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.

In addition to the mitigation measures in this Mitigation Monitoring and Reporting Program, the Public Works standard construction measures are required to be implemented for work undertaken by the Public Works Department. The standard construction measures would also be required to apply as part of any funding agreement.

MITIGATION MONITORING AND REPORTING PROGRAM

Adopted Mitigation Measure	Monitoring and Reporting Program			
	Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
MITIGATION MEASURES AGREAED TO BY PROJECT SPONSOR				
CULTURAL RESOURCES				
Mitigation Measure M-CR-1a: Islais Creek Bridge Documentation. Prior to approval of the proposed project by the Public Works Commission, the project sponsor shall submit to the department for review photographic and narrative documentation of the bridge. The documentation shall be funded by the project sponsor and undertaken by a qualified professional who meets the standards for history, architectural history, or architecture (as deemed appropriate by the department's preservation staff), as set forth by the Secretary of the Interior's Professional Qualification Standards (36 Code of Federal Regulations, Part 61). The scope of the documentation should focus on the bridge's character-defining features and significance under Criterion 3 as an outstanding example of an Art Moderne-style drawbridge. The documentation scope shall be reviewed and approved by the department prior to any work on the documentation. The types and level of documentation shall include the following formats: *Historic American Engineering Record (HAER)-Like Measured Drawings* – A set of Historic American Engineering Survey-like (HAER-like) measured drawings that depict the existing size, scale, and dimension of the subject property. The department's preservation staff will accept the original architectural drawings or an as-built set of architectural drawings (plan, section, elevation, etc.). The department's preservation staff will assist the consultant in determining the appropriate level of measured drawings. A cover sheet may be required that describes the historic significance of the property. *HAER-Like Photographs* – Digital photographs of the subject property. Large-format negatives are not required. The scope of the digital photographs shall be reviewed by the department's preservation staff for concurrence, and all digital photography shall be conducted according to current National Park Service (NPS) standards. The photography shall be undertaken by a qualified professional with demonstrated experience in HAER or Historic American Building Survey (HABS) photography. *HAER-Like Historical Report* – If the department determines that existing survey information or historic resource evaluations of a property do not sufficiently document the historic resources' significant associations, a written historical narrative and report shall be provided in accordance with the HAER 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. *Print-on-Demand Book* – The Print-on-Demand book shall be made available to the public for distribution by the project sponsor by uploading the book onto a website so the public can access and download and or print out the book. The project sponsor shall make the content	Public Works (Project Sponsor) and/or construction contractor with assistance from qualified historian or architectural historian	Prior to approval of the proposed project by the Public Works Commission	Planning Department Preservation Staff and Public Works	Considered complete once the completed documentation is approved by the Planning Department Preservation Staff.

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
from the historical report, historical photographs, HAER photography, measured drawings, and field notes available to the public through a digital book that will contain all the content in a format that is easy to read and or download and print out. The project sponsor shall be required to keep the book up for public access digitally, but is not responsible for the physical print out of the book for the public. *Video Recordation* – In coordination with the department's preservation staff, the project sponsor shall prepare video documentation of the historic resource. The purpose of this video documentation is to supplement other recordation and interpretive measures and enhance the collection of reference materials that would be available to the public and inform future research. This video recordation should also document the raising of the drawbridge, as required by Mitigation Measure M-CR-1d, Community Memorial Event, as detailed below. Video recordation shall be conducted by a professional videographer with experience recording architectural resources or experience with the Bayview community. The professional videographer shall provide a storyboard of the proposed video recordation for review and approval by the department's preservation staff. The project sponsor, in consultation with the department, shall conduct outreach to determine which repositories may be interested in receiving copies of the above documentation, either digital or physical copies. Potential repositories include, but are not limited to, the San Francisco Public Library, the Environmental Design Library at the University of California, Berkeley, the Northwest Information Center, San Francisco Architectural Heritage, the California Historical Society, and Archive.org. The final approved documentation shall be provided in electronic or printed form to the interested repositories. The department requires one printed copy of the print-on-demand book and digital copies of the print-on-demand book and all other materials. Additionally, the department will make electronic versions of the documentation available to the public for their use at no charge. The professional(s) shall submit the completed documentation for review and approval by the department's preservation staff. All documentation must be reviewed and approved by the department prior to Public Works Commission approval.				
Mitigation Measure M-CR-1b: Salvage Plan. Prior to approval of the proposed project by the Public Works Commission, the project sponsor shall consult with the department's preservation staff as to whether any such features may be salvaged, in whole or in part, during demolition or alteration. The project sponsor shall make a good faith effort to salvage character-defining features or materials of historical interest to be used as part of the interpretative program, incorporated into the architecture of the new bridge, or offered to other city agencies, non-profit or culturally affiliated groups, or other educational or artistic groups. The project sponsor shall prepare a salvage plan for review and approval by the department's preservation staff, and for review by the Historic Preservation Commission, prior to Public Works Commission approval.	Public Works (Project Sponsor), construction contractor, and qualified historian or architectural historian	Prior to approval of the proposed project by the Public Works Commission	Planning Department Preservation Staff and Public Works	Considered complete once the salvage plan is approved by the Planning Department Preservation Staff and the requirements of the salvage plan are implemented.

Monitoring and Reporting Program				
Adopted Mitigation Measure	**Implementation Responsibility**	**Mitigation Schedule**	**Monitoring/Reporting Responsibility**	**Monitoring Actions/ Completion Criteria**
Mitigation Measure M-CR-1c: Public Interpretive Plan. The project sponsor shall facilitate the development of a public interpretive program focused on the history of the project site, the identified historic resource, and its significant historic context. The interpretive program should be developed and implemented by a qualified design professional with demonstrated experience in displaying information and graphics to the public in a visually interesting manner, as well as a professionally qualified historian or architectural historian, or community group approved by the department. Through consultation with department preservation staff, coordination with local Native American tribal representatives should occur to ensure that a holistic history of the bridge and Islais Creek area is presented to the public. The primary goal of the program 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. The interpretive program shall be initially outlined in an interpretive plan subject to review and approval by the department's preservation staff; it shall be provided to the Historic Preservation Commission for review prior to Public Works Commission approval. The plan shall include the general parameters of the interpretive program including the substance, media, and other elements of the interpretative program. The interpretive program shall include —in publicly accessible areas of the project site —permanent display(s) of interpretive materials concerning the history and design features of the affected historic resource, including both the site as a whole and the individual contributing buildings and features. The display shall be placed in a prominent public setting near the new bridge such as the proposed public observation platform. The interpretive material(s) shall be made of durable all-weather materials and may also include digital media in addition to a permanent display. The interpretive material(s) shall be of high quality and installed to allow for high public visibility. Content developed for other mitigation measures, as applicable, including the documentation programs, may be used to inform and provide content for the interpretive program. The interpretive program may also incorporate video documentation completed under M-CR-1a, Islais Creek Bridge Documentation, as applicable to provide a narrated video that describes the materials, construction methods, current condition, historical use, historic context and cultural significance of the historic resource. The detailed content, media, and other characteristics of such an interpretive program shall be coordinated and approved by the department's preservation staff. The final components of the public interpretation program shall be constructed and installed, and a plan for their maintenance shall be finalized prior to completion of the new bridge. The interpretive program shall be developed in coordination with the other interpretative programs as relevant, such as interpretation under archeological mitigation measure, if required. In particular, this interpretive program shall present the full and holistic history of the Islais Creek Bridge and Islais Creek area and should be developed in consultation with the local Native American representatives as requested during tribal cultural resources consultation.	Public Works (Project Sponsor) and qualified design professional, qualified historian or architectural historian, or community group	Interpretive program shall be outlined in an interpretive plan subject to review and approval by the department's preservation staff (including review by Historic Preservation Commission) prior to Public Works Commission approval Prior to completion of construction, installation and maintenance of the interpretation program shall be approved by Planning Department Preservation Staff	Planning Department Preservation Staff and Public Works	Considered complete when Planning Department preservation staff approve the installation of interpretation program; maintenance of interpretation program ongoing.

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
Mitigation Measure M-CR-1d: Community Memorial Event. Prior to commencement of demolition activities on the bridge, the project sponsor shall host a community memorial event with the intent of raising and lowering the drawbridge to demonstrate the bridge's character-defining feature as a drawbridge. The project sponsor shall reach out to relevant community groups associated with the historic resource, and other neighborhood groups that may be interested in cosponsoring or attending the commemorative event. The purpose of the event would be to commemorate the site's history, but it would also be an opportunity to provide information about the bridge's construction schedule, logistics of the bus bridge while the bridge is under construction, and general information about how the new bridge fits within the city's overall approach to addressing sea-level rise around Islais Creek. The event shall be coordinated with department staff and may take on a variety of forms, but the preferred location of the event would be at the site of the Islais Creek Bridge. The community memorial event and raising and lowering of the drawbridge should be documented by video and photographs in coordination with the requirements of Mitigation Measure M-CR1a: Islais Creek Bridge Documentation. Additionally, the video documentation should incorporate the actions of or an interview with current or former staff responsible for operating- the drawbridge or a drawbridge engineer familiar with the Islais Creek Bridge, to understand what actions must take place when raising and lowering the drawbridge. The project sponsor will make efforts to ready the draw-span for a successful raising and lowering, but this will depend on the condition of the drawbridge and whether it can be raised and lowered practically and safely at the time of the community memorial event.	Public Works (Project Sponsor) and/or construction contractor with assistance from qualified historian or architectural historian	Prior to the Start of Construction	Planning Department Preservation Staff and Public Works	1. Plan and host a community memorial event. 2. Complete upon hosting the community memorial event and the raising and lowering of the drawbridge are documented by video and photographs.
Mitigation Measure M-CR-3: Accidental Discovery ***Construction Crew Archeological Awareness.*** Prior to any soils-disturbing activities being undertaken, a qualified archeologist shall conduct a brief on-site archeological awareness training that describes the types of resources that might be encountered and how they might be recognized, and requirements and procedures for work stoppage, resource protection and notification in the event of a potential archeological discovery. The archeologist or the project sponsor also shall distribute the department's "Alert" wallet card and the department's "ALERT" sheet, that summarizes stop work requirements and provides necessary contact information for the planning department's archeological staff and project sponsor to all field personnel involved in soil disturbing activities, including machine operators, field crew, pile drivers, supervisory personnel, etc., have received. The qualified archeologist shall repeat the training at intervals during construction, as determined necessary by the environmental review officer (ERO), including when new construction personnel start work and prior to periods of soil disturbing work when the project archeologist will not be on site. ***Tribal Cultural Resources Sensitivity Training.*** In addition to and concurrently with the archeological awareness training, the project sponsor shall ensure that a local Native American representative is afforded the opportunity to provide a Native American cultural resources sensitivity training to all construction personnel. ***Procedures Upon Discovery of a Suspected Archeological Resource.*** The following measures shall be implemented in the event of a suspected archeological discovery during project soil-disturbing activities: ***Discovery Stop Work and Environmental Review Officer Notification.*** Should any indication of an archeological resource be encountered during any soils-disturbing activity of the project, the project sponsor shall immediately notify the ERO and shall immediately suspend any soils-disturbing activities in the vicinity of the discovery and protect the find in place until the significance of the find has been evaluated and the ERO has determined whether and what additional measures are warranted, and these measures have been implemented, as detailed below. The ERO may also require that the project sponsor immediately implement a site	Public Works (Project Sponsor) and/or construction contractor with assistance from qualified archaeologist and Native American representative Public Works (Project Sponsor) and/or construction contractor with assistance from qualified archaeologist and Native American representative	Prior to the Start of Construction; During Construction Upon discovery of an archeological resource	Planning Department Cultural Resources Staff and Public Works Planning Department Cultural Resources Staff and Public Works	Prior to and during soils-disturbing activities. Durning soil disturbing activities, considered complete after final archeological resources report is finalized, interpretation plan is implemented and curation is completed for all significant archeological resources as directed by Planning Department Cultural Resources Staff.

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
security program if the archeological resource is at risk from vandalism, looting, or other damaging actions. ***Archeological Consultant Identification.*** If an archeological discovery during construction occurs and the ERO determines that the discovery may represent a significant archeological resource, the project sponsor shall retain the services of an archeological consultant (hereinafter "project archeologist") from a firm listed on the Qualified Archeological Consultant list maintained by the department to identify, document, and evaluate the resource, under the direction of the ERO. The project sponsor shall ensure that the project archeologist or designee is empowered, for the remainder of soil-disturbing project activity, to halt soil disturbing activity in the vicinity of potential archeological finds, and that work remains halted until the discovery has been assessed and a treatment determination made, as detailed below. ***Resource Evaluation and Treatment Determination.*** Initial documentation and assessment. The project archeologist shall document the find and make a reasonable effort to assess its identity, integrity, and significance of the encountered archeological deposit through sampling or testing, as needed. The project sponsor shall make provisions to ensure that the project archeologist can safely enter the excavation, if feasible. The project sponsor shall ensure that the find is protected until the ERO has been consulted and has determined appropriate subsequent treatment in consultation with the project archeologist, and the treatment has been implemented, as detailed below. The project archeologist shall make a preliminary assessment of the significant and physical integrity of the archeological resource and shall present the findings to the ERO. If, based on this information, the ERO determines that construction would result in impacts to a significant resource, the ERO shall consult with the project sponsor and other parties regarding the feasibility and effectiveness of preservation-in-place of the resource, as detailed below. Native American archeological deposits and tribal notification. All Native American archeological deposits shall be assumed to be significant unless determined otherwise in consultation with the ERO. If a Native American archeological deposit is encountered, soil disturbing work shall be halted as detailed above. In addition, the ERO shall notify any tribal representatives who, in response to the project tribal cultural resource notification, requested to be notified of discovery of Native American archeological resources in order to coordinate on the treatment of archeological and tribal cultural resources. Further the project archeologist shall offer a Native American representative the opportunity to monitor any subsequent soil disturbing activity that could affect the find. Paleosols. Should a paleosol be identified, the project archeologist shall extract and process samples for dating, paleobotanical analysis, and other applicable special analyses pertinent to identification of possible cultural soils and for environmental reconstruction. Archeological site records. After assessment of any discovered resources, the project archeologist shall prepare an archeological site record or primary record (DPR 523 series) for each documented resource. In addition, a primary record shall be prepared for any prehistoric isolate. Each such record shall be accompanied by a map and GIS location file. Records shall be submitted to the planning department for review as attachments to the archeological resources report (see below) and once approved by the ERO, to the Northwest Information Center. Plans and Reports. All archeological plans and reports identified herein and in the subsequent measures, shall be submitted by the project archeologist directly to the ERO for review and comment and shall be considered draft reports subject to revision until final approval by the ERO. The project archeologist may submit draft reports to the project sponsor simultaneously with submittal to ERO.				

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Limit on construction delays for archeological treatment. Archeological testing and as applicable data recovery programs required to address archeological discoveries, pursuant to this measure, could suspend construction of the project for up to a maximum of four weeks. At the direction of the ERO, the suspension of construction can be extended beyond four weeks only if such a suspension is the only feasible means to reduce to a less than significant level potential effects on a significant archeological resource as defined in the CEQA Guidelines. Preservation-in-place consideration. Should an archeological resource that meets California register significance criteria be discovered during construction, archeological testing, or monitoring, preservation-in-place (i.e., permanently protect the resource from further disturbance and take actions, as needed, to preserve depositional and physical integrity) of the entire deposit or feature is the preferred treatment option. The ERO shall consult with the project sponsor—and, for Native American archeological resources, with tribal representatives, if requested—to consider the feasibility of permanently preserving the resource in place. If preservation in place is determined by the ERO to be feasible and effective, the project archeologist and project sponsor, in consultation with the ERO, shall prepare a Cultural Resources Preservation Plan. For Native American archeological resources, the project archeologist shall also consult with the tribal representatives, and the Cultural Resources Preservation Plan shall take into consideration the cultural significance of the tribal cultural resource to the tribes. Preservation options may include measures such as design of the project layout to place open space over the resource location; foundation design to avoid the use of pilings or deep excavations in the sensitive area; a plan to expose and conserve the resource and include it in an on-site interpretive exhibit; tribal representatives for review and for ERO approval. The project sponsor shall ensure that the approved plan is implemented and shall coordinate with the department to ensure that disturbance of the resource will not occur in future, such as establishing a preservation easement. If, based on this consultation, the ERO determines that preservation-in-place is infeasible or would be ineffective in preserving the significance of the resource, archeological data recovery and public interpretation of the resource shall be carried out, as detailed below. The ERO in consultation with the project archeologist shall also determine whether and what additional treatment is warranted, which may include additional testing, construction monitoring, and public interpretation of the resource, as detailed below. Coordination with Descendant Communities. On discovery of an archeological site associated with descendant Native Americans, Chinese, or other identified descendant cultural group, the project archeologist shall contact an appropriate representative of the descendant group and the ERO. The representative of the descendant group shall be offered the opportunity to monitor archeological field investigations of the site and to offer recommendations to the ERO regarding appropriate archeological treatment of the site and data recovered from the site, and, if applicable, any interpretative treatment of the site. The project archeologist shall provide a copy of the Archeological Resources Report (ARR) to the representative of the descendant group. Compensation. Following on the initial tribal consultation, the ERO, project sponsor and project archeologist, as appropriate, shall work with the tribal representative or other descendant or descendant community representatives to identify the scope of work for a representative to fulfill the requirements of this mitigation measure, which may include participation in archeological monitoring, preparation and review of deliverables (e.g., plans, interpretive materials, art work). Tribal representatives or other descendant community representatives for archeological resources or tribal cultural resources, who complete tasks in the agreed upon scope of work project, shall be compensated for their work as identified in the agreed upon scope of work.				

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
Archeological Data Recovery Program. The project archeologist shall prepare an archeological data recovery plan if all three of the following apply: (1) a potentially significant resource is discovered, (2) preservation-in-place is not feasible, as determined by the ERO after implementation of the Preservation-in-Place Consideration procedures, and (3) the ERO determines that archeological data recovery is warranted. When the ERO makes such a determination, the project archeologist, project sponsor, ERO and, for tribal cultural archeological resources, the tribal representative, if requested by a tribe, shall consult on the scope of the data recovery program. The project archeologist shall prepare a draft archeological data recovery plan and submit it to the ERO for review and approval. If the time needed for preparation and review of a comprehensive archeological data recovery plan would result in a significant construction delay, the scope of data recovery may instead be agreed upon in consultation between the project archeologist and the ERO and documented by the project archeologist in a memorandum to the ERO. The archeological data recovery plan/ memorandum shall identify how the proposed data recovery program will preserve the significant information the archeological resource is expected to contain. That is, the archeological data recovery plan/memorandum will identify what scientific/historical research questions are applicable to the expected resource, what data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Data recovery, in general, should be limited to the portions of the property that could be adversely affected by the proposed project. Destructive data recovery methods shall not be applied to portions of the archeological resource that would not otherwise by disturbed by construction if nondestructive methods are practical. The archeological data recovery plan shall include the following elements: • Field Methods and Procedures: Descriptions of proposed field strategies, procedures, and operations • Cataloguing and Laboratory Analysis: Description of selected cataloguing system and artifact analysis procedures • Discard Policy: Description of and rationale for field and post-field discard and deaccession policies • Security Measures: Recommended security measures to protect the archeological resource from vandalism, looting, and non-intentionally damaging activities • Report of Data Recovery Results: Description of proposed report format and distribution of results • Public Interpretation: Description of potential types of interpretive products and locations of interpretive exhibits based on consultation with project sponsor • Curation: Description of the procedures and recommendations for the curation of any recovered data having potential research value, identification of appropriate curation facilities, and a summary of the accession policies of the curation facilities The project archeologist shall implement the archeological data recovery program upon approval of the archeological data recovery plan/memo by the ERO. ***Coordination of Archeological Data Recovery Investigations.*** In cases in which the same resource has been or is being affected by another project for which data recovery has been conducted, is in progress, or is planned, the following measures shall be implemented to maximize the scientific and interpretive value of the data recovered from both archeological investigations: • In cases where an investigation has not yet begun, project archeologists for each project impacting the same resource and the ERO, as applicable, shall consult on coordinating and collaborating on archeological research design, data recovery methods, analytical methods, reporting, curation and interpretation to ensure consistent data recovery and treatment of the resource.				

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
• In cases where archeological data recovery investigation is under way or has been completed for a project, the project archeologist for the subsequent project shall consult with the prior project archeologist, if available; review prior treatment plans, findings and reporting; and inspect and assess existing archeological collections/inventories from the site prior to preparation of the archeological treatment plan for the subsequent discovery, and shall incorporate prior findings in the final report for the subsequent investigation. The objectives of this coordination and review of prior methods and findings shall be to identify refined research questions; determine appropriate data recovery methods and analyses; assess new findings relative to prior research findings; and integrate prior findings into subsequent reporting and interpretation. ***Treatment of Human Remains and Funerary Objects.*** If human remains or suspected human remains are encountered during construction, the contractor and project sponsor shall ensure that ground-disturbing work within 50 feet of the remains is halted immediately and shall arrange for the protection in place of the remains until appropriate treatment and disposition have been agreed upon and implemented in accordance with this measure. The treatment of any human remains and funerary objects discovered during any soil- disturbing activity shall comply with applicable state laws, including Health and Safety Code section 7050.5 and Public Resources Code (PRC) section 5097.98. Upon determining that the remains are human, the project archeologist shall immediately notify the Medical Examiner of the City and County of San Francisco, the ERO, and the project sponsor of the find. If the remains cannot be permanently preserved in place, the landowner or designee shall consult with the most likely descendant and may consult with the project archeologist, project sponsor and the ERO on recovery of the remains and any scientific treatment alternatives. The landowner shall then make all reasonable efforts to develop a burial agreement (agreement) with the most likely descendant, as expeditiously as possible, for the treatment and disposition, with appropriate dignity, of human remains and funerary objects (as detailed in CEQA Guidelines section 15064.5(d)). Per PRC section 5097.98(c)(1), the agreement shall address, as applicable and to the degree consistent with the wishes of the most likely descendant, the appropriate excavation, removal, recordation, scientific analysis, custodianship prior to reinternment or curation, and final disposition of the human remains and funerary objects. If the most likely descendant agrees to scientific analyses of the remains and/or funerary objects, the project archeologist shall retain possession of the remains and funerary objects until completion of any such analyses, after which the remains and funerary objects shall be reinterred or curated as specified in the agreement. If the landowner or designee and the most likely descendant are unable to reach an agreement on scientific treatment of the remains and/or funerary objects, the ERO, in consultation with the project sponsor shall ensure that the remains and/or funerary objects are stored securely and respectfully until they can be reinterred on the project site, with appropriate dignity, in a location not subject to further or future subsurface disturbance, in accordance with the provisions of state law. Treatment of historic-period human remains and/or funerary objects discovered during any soil-disturbing activity shall be in accordance with protocols laid out in the research design in the project archeological monitoring plan, archeological testing plan, archeological data recovery plan, and other relevant agreements established between the project sponsor, medical examiner, and the ERO. The project archeologist shall retain custody of the remains and associated materials while any scientific study scoped in the treatment document is conducted and the remains shall then be curated or respectfully reinterred by arrangement on a case-by case-basis.				

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
Cultural Resources Public Interpretation Plan and Land Acknowledgement. If a significant archeological resource (i.e., a historical resource or unique archeological resources as defined by CEQA Guidelines section 15064.5) is identified and the ERO determines that public interpretation is warranted, the project archeologist shall prepare a Cultural Resources Public Interpretation Plan. The Cultural Resources Public Interpretation Plan shall describe the interpretive products, locations or distribution of interpretive materials or displays, the proposed content and materials, the producers or artists of the displays or installation, and a long-term maintenance program. If the resource to be interpreted is a tribal cultural resource, the department shall notify Native American tribal representatives that public interpretation is being planned. If requested by tribal representatives, the Cultural Resources Public Interpretation Plan shall be prepared in consultation with and developed with the participation of Native American tribal representatives. For public projects or projects that include dedicated public spaces, the interpretive materials may include an acknowledgement that the project is located upon traditional Ohlone lands. For interpretation of a tribal cultural resource, the interpretive program may include a combination of artwork, preferably by local Native American artists, educational panels or other informational displays, a plaque, or other interpretative elements including digital products that address Native American experience and the layers of history. As feasible, and where landscaping is proposed, the interpretive effort may include the use and the interpretation of native and traditional plants incorporated into the proposed landscaping. The project archeologist shall submit the cultural resources public interpretation plan and drafts of any interpretive materials that are subsequently prepared to the ERO for review and approval. The project sponsor shall ensure that the cultural resources public interpretation plan is implemented prior to occupancy of the project. ***Archeological Resources Report.*** If significant archeological resources, as defined by CEQA Guidelines section 15064.5, are encountered, the project archeologist shall submit a confidential draft Archeological Resources Report to the ERO. This report shall evaluate the significance of any discovered archeological resource, describe the archeological and historical research methods employed in the archeological programs undertaken, the results and interpretation of analyses, and discuss curation arrangements. Once approved by the ERO, the project archeologist shall distribute the approved Archeological Resources Report as follows: copies that meet current information center requirements at the time the report is completed to the California Archeological Site Survey Northwest Information Center, and a copy of the transmittal of the approved Archeological Resources Report to the Northwest Information Center to the ERO; one bound hardcopy of the Archeological Resources Report, along with digital files that include an unlocked, searchable PDF version of the Archeological Resources Report, GIS shapefiles of the site and feature locations, any formal site recordation forms (CA DPR 523 series), and/or documentation for nomination to the National Register of Historic Places/California Register of Historical Resources, via USB or other stable storage device, to the environmental planning division of the planning department; and, if a descendant group was consulted, a digital or hard copy of the Archeological Resources Report to the descendant group, depending on their preference. ***Curation.*** If archeological data recovery is undertaken, the project archeologist and the project sponsor shall ensure that any significant archeological collections and paleoenvironmental samples of future research value shall be permanently curated at an established curatorial facility. The facility shall be selected in consultation with the ERO. Upon submittal of the collection for curation, the project sponsor or archeologist shall provide a copy of the signed curatorial agreement to the ERO.				

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
TRANSPORTATION				
Mitigation Measure M-TR-1: Reduce Transit Travel Times for T-Third Street and 19-Polk Riders. San Francisco Public Works is working with the San Francisco Municipal Transportation Agency (SFMTA) to provide a bus bridge service plan (plan). The plan shall identify measures targeted to meet a performance standard of limiting travel times to less than four minutes for the T-Third bus bridge between the Third Street/Evans Street Intersection on the south and the Third Street/Mariposa Street intersection to the north above conditions that existed in September 2023. The plan would also identify measures that shall meet a performance standard of limiting travel times to less than four minutes for the 19 Polk between Aquatic Park and Hunters Point. The plan may include, but not be limited to, the following temporary measures during construction: • private vehicle restrictions on certain routes (e.g., Illinois Street Bridge) or reallocating roadway space to prioritize transit (e.g., Evans Avenue); • transit signal priority or signal timing optimization; • providing transit capacity consistent with customer demand to minimize waits for riders; • providing new safe pedestrian crossings and paths, clear directions, wayfinding signs for any new transfers between the light rail and bus services, and installing temporary bus bulbs; and/or • other measures that can be feasibly and practically implemented to achieve the performance standard. The following additional measures shall be required to meet the performance standard for the 19-Polk. • Transit signal priority or signal timing optimization shall be implemented at the intersection of Evans Avenue / Toland Street / Napoleon Street. • Temporary midblock bus bulbs shall be installed for the bus stops at Evans Avenue & Cesar Chavez Street and Evans Avenue & Selby Street. Full details of the bus bridge service plan, including the extent of the light rail service, passenger pick-up/drop-off locations, bus frequency, and passenger transfer routes, shall be developed by San Francisco Public Works and SFMTA as the project's design progresses.	Public Works (Project Sponsor) and San Francisco Municipal Transportation Agency	Public Works and SFMTA to develop a bus bridge service plan prior to the Start of Construction; Public Works and SFMTA to implement the bus bridge service plan during Construction	Public Works and SFMTA in coordination with Planning Department	Considered complete when transit vehicles resume travel on the Islais Creek Bridge at end of construction.

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
AIR QUALITY				
Mitigation Measure M-AQ-3: Requirements for Off-Road Construction Equipment. The contractor shall comply with the following: A. Engine Requirements 1. All off-road equipment greater than 25 horsepower shall have engines that meet or exceed either the United States Environmental Protection Agency's or the California Air Resources Board's Tier 4 final off-road emission standards. 2. 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 and safe operating conditions). The contractor shall post legible and visible signs in English, Spanish, and Chinese in designated queuing areas and at the construction site to remind operators of the two-minute idling limit. 3. The contractor shall instruct construction workers and equipment operators in 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. Construction Emissions Minimization Plan Before starting onsite construction activities, the contractor shall submit a construction emissions minimization plan to the environmental review officer (ERO) or designee for review and approval. The plan shall state, in reasonable detail, how the contractor will meet the engine requirements listed above. 1. 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. For off-road equipment using alternative fuels, the description shall also specify the type of alternative fuel being used. 2. Public Works shall ensure that all applicable requirements of the plan have been incorporated into the contract specifications. The plan shall include a statement from the contractor certifying that the contractor agrees to comply fully with the plan. 3. Public Works shall make the plan available to the public for review on site during working hours. Public Works 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 proposed project at any time during working hours and shall explain how to request to inspect the plan. The project sponsor 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. C. Monitoring After start of construction activities, the contractor shall submit reports every six months to the ERO or designee, documenting compliance with the plan.	Public Works (Project Sponsor) and/or construction contractor	Prior to the Start of Construction: 1. Construction emissions minimization plan for review and approval, and 2. Signed certification statement Ongoing during Construction	Public Works and Planning Department	1. Ensure contract documents include construction emissions minimization requirements. 2. Monitor to ensure the contractor complies with Tier 4 Final engine requirements or next cleanest off-road equipment, as required. Report noncompliance and ensure corrective action. 3. Considered complete upon planning department review and acceptance of construction emissions minimization plan, implementation of the plan, and submittal of the final report summarizing use of construction equipment pursuant to the plan.

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
BIOLOGICAL RESOURCES				
Mitigation Measure M-BI-1: Special-Status Species and Jurisdictional Waters Impact Avoidance. Construction activities shall avoid or minimize adverse effects to special-status species and their habitats, and on jurisdictional waters to the full extent feasible. Specifically: 1. A materials management disposal plan shall be prepared by the selected contractor to prevent any debris from falling into the bay during construction to the maximum extent practicable. The measures identified in this plan shall be based on the best available technology, and shall include, but not be limited to, the following measures: ■ During construction, the barges performing the work shall be moored in a position to capture and contain the debris generated during any substructure or in-water work. In the event that debris does reach the bay, personnel in workboats in the work area shall immediately retrieve the debris for proper handling and disposal. All debris shall be disposed of at an authorized upland disposal site. ■ Debris containment systems shall be implemented for work over water to prevent airborne or falling debris from entering the waters below. An encapsulation containment system shall be used to contain debris for rust, lead paint, and asbestos. ■ Measures shall be taken to ensure that fresh cement or concrete shall not be allowed to enter the bay. Construction materials, stockpiles, debris, and all grindings and asphaltic-concrete waste shall be stored in previously disturbed areas absent of habitat and at a minimum of 150 feet from any aquatic habitat, culvert, or drainage feature. ■ All equipment and vehicles shall be fueled only in designated areas away from catchbasins and at least 150 feet from the shoreline, fitted with functional, appropriate leak-containment best management practices (BMPs), including drip pans or other containment beneath each connection point to capture all spills and drips. For small equipment on barges, secondary containment shall also be provided during fueling. ■ All hazardous material shall be stored upland in storage trailers and/or shipping containers designed to provide adequate containment. Short-term laydown of hazardous materials for immediate use shall be permitted with the same antispill precautions.	Public Works (Project Sponsor) and/or construction contractor	Prior to the Start of Construction Materials management disposal plan for review and approval, and Ongoing during construction	Planning Department, Public Works	1. Ensure contract documents include requirement for development of a materials management disposal plan. 2. Approval of and implementation of materials management disposal plan prior to and during construction. 3. Monitor to ensure that all personnel comply with the plan. Report noncompliance and ensure corrective action. 4. Complete at the end of construction activities.
Mitigation Measure M-BI-2: Fish and Marine Mammal Protection during Pile Removal. Pile extraction shall be restricted to a work window of June 1 to November 30. Existing fenders and piling would be cut off just below the mudline and removed from the site. When piles or other debris from the existing fender system are removed from the channel, they shall be promptly removed from the water and placed on a barge. The barge shall be configured to contain all sediment that may be adhering to the removed piles to ensure that sediment does not fall into the water.	Public Works (Project Sponsor), construction contractor, and qualified biologist	During construction pile removal and all in-water work shall be restricted between June 1 to November 30.	Planning Department, Public Works	1. Ensure contract documents include requirement for pile extraction work to be restricted to a work window of June 1 to November 30. 2. Considered complete following pile removal.

Adopted Mitigation Measure	Monitoring and Reporting Program[3] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
Mitigation Measure M-BI-3: Avoidance and Minimization Measures for Bats. A qualified biologist (as defined by the CDFW[1]) who is experienced with bat surveying techniques (including auditory sampling methods), behavior, roosting habitat, and identification of local bat species shall be consulted prior to demolition activities or tree work to conduct a preconstruction habitat assessment of the project area to characterize potential bat habitat and identify potentially active roost sites. No further action is required should the preconstruction habitat assessment not identify bat habitat or signs of potentially active bat roosts in the project area (e.g., guano, urine staining, or dead bats). The following measures shall be implemented should potential roosting habitat or potentially active bat roosts be identified during the habitat assessment:	Public Works (Project Sponsor), construction contractor, and qualified biologist, CDFW	Prior to bridge demolition for the pre-construction habitat assessment.	Qualified biologist in coordination with Public Works and planning if active roost sites are observed.	1. Ensure contract documents include requirement for avoidance and minimization measure for bats. 2. Conduct pre-construction special-status bat survey prior to any demolition activities or tree work. 3. If active bat roosts or evidence of roosting is identified, implement measures specified in mitigation measure. Monitor to ensure that the contractor implements the avoidance and minimization measures in contract documents. Report noncompliance and ensure corrective action. 4. Considered complete at end of bridge demolition.
1. In areas identified as potential roosting habitat during the habitat assessment, initial structure demolition and any tree work (trimming or removal) shall occur when bats are active, approximately between the periods of March 1 to April 15 and August 15 to October 15, to the extent feasible. These dates avoid the bat maternity roosting season and period of winter torpor.[2] 2. Depending on temporal guidance, as defined below, the qualified biologist shall conduct preconstruction surveys of potential bat roost sites identified during the initial habitat assessment no more than 14 days prior to demolition activities, tree trimming, or tree removal. 3. If active bat roosts or evidence of roosting is identified during preconstruction surveys for demolition, the qualified biologist shall determine, if possible, the type of roost and species. A no-disturbance buffer shall be established around roost sites until the qualified biologist determines that they are no longer active. The size of the no-disturbance buffer would be determined by the qualified biologist and would depend on the species present, roost type, existing screening around the roost site (such as dense vegetation or a building), as well as the type of construction activity that would occur around the roost site. 4. If special-status bat species or maternity or hibernation roosts are detected during these surveys, appropriate species- and roost-specific avoidance and protection measures shall be developed by the qualified biologist in coordination with CDFW. Such measures may include postponing the demolition of structures, establishing exclusionary work buffers while the roost is active (e.g., 100-foot no-disturbance buffer), or other compensatory mitigation. 5. The qualified biologist shall be present during demolition if potential bat roosting habitat or active bat roosts are present. Structures with active roosts shall be disturbed only under clear weather conditions when precipitation is not forecast for three days and when daytime temperatures are at least 50 degrees Fahrenheit. 6. Demolition of structures containing or suspected to contain bat roosting habitat or active bat roosts shall be performed under the supervision of the qualified biologist. When appropriate, structures shall be partially dismantled to significantly change the roost conditions, causing bats to abandon and not return to the roost, likely in the evening and after bats have emerged from the roost to forage. Under no circumstances shall active maternity roosts be disturbed until the roost disbands at the completion of the maternity roosting season or otherwise becomes inactive, as determined by the qualified biologist.	Project sponsor, construction contractor(s), and qualified biologist	Prior to construction and during demolition, relocation, and tree work and ongoing during project construction.	Qualified biologist in coordination with Public Works and CDFW if active roost sites are observed.	

[1] CDFW defines credentials of a *qualified biologist* within permits or authorizations issued for a project. Typical qualifications include a minimum of four years of academic training leading to a degree and a minimum of 2 years of experience conducting surveys for each species that may be present in the project area.
[2] *Torpor* refers to a state of decreased physiological activity with reduced body temperature and metabolic rate.

Adopted Mitigation Measure	Monitoring and Reporting Program[1] Implementation Responsibility	Mitigation Schedule	Monitoring/Reporting Responsibility	Monitoring Actions/ Completion Criteria
Mitigation Measure M-BI-4: Worker Environmental Awareness Program Training. Prior to the start of work, project-specific Worker Environmental Awareness Program (WEAP) training shall be developed specific to aquatic resources and onsite trees and implemented by a qualified biologist and attended by all project personnel performing demolition or ground-disturbing work where landscaping/street trees, natural vegetation, or shoreline habitats are present. The WEAP shall include environmental permit and CEQA mitigation requirements related to biological resources for all stages of the project and shall be repeated as necessary to ensure that all personnel on the construction crew receive the training (i.e., when new personnel are added to the crew). The WEAP training shall generally include, but not be limited to, education about the following: • applicable local, state and federal laws, environmental regulations, project permit conditions, and penalties for noncompliance; • special-status animal species with the potential to be encountered on or in the vicinity of the project area during construction; • avoidance measures and a protocol for encountering special-status species, including a communication chain; • pre-construction surveys and biological monitoring requirements associated with each phase of work and at specific locations in the project area (e.g., shoreline work) because biological resources and protection measures will vary depending on where work is occurring in the site, time of year, and construction activity; • known sensitive resource areas in the project vicinity that are to be avoided and/or protected, as well as approved project work areas, access roads, and staging areas; and • BMPs (e.g., straw wattles or spill kits) and their location around the project area for erosion control and species exclusion, in addition to general housekeeping requirements.	Public Works (Project Sponsor), construction contractor, and qualified biologist	Prior to the start of Construction.	Planning Department, Public Works	1. Ensure contract documents include requirements for all construction personnel to attend Worker Environmental Awareness Program training. 2. Prepare a project-specific biological-resources awareness training program. Include documentation of qualifications of the biologist developing the training program (e.g., resume). Refer to mitigation measure for specific worker environmental training requirements. 3. Monitor to ensure that all personnel attend training prior to beginning work, and sign training sign-in sheet. Maintain file of sign-in sheets in project record. Report noncompliance and ensure corrective action.

Monitoring and Reporting Program[a]				
Adopted Mitigation Measure	**Implementation Responsibility**	**Mitigation Schedule**	**Monitoring/Reporting Responsibility**	**Monitoring Actions/ Completion Criteria**
Mitigation Measure M-BI-5: Protection of Herring Spawn. To ensure the protection of herring spawn, biological monitoring to identify spawn events shall occur during the herring spawning season, from December 1 through March 15. If herring spawning is observed, in-water work shall be suspended within 500 meters of spawning activity, and the work shall not resume until spawning has ended and eggs have hatched (up to 21 days). If in-water work is to take place during the herring spawning season, coordination with CDFW shall occur prior to November 15 of the year when in-water work will occur.	Public Works (Project Sponsor) and/or construction contractor with assistance from qualified biologist	During Construction	Planning Department, Public Works	1. Ensure contract documents include requirements for protection of herring spawn. 2.Considered complete at end of construction.

NOTES:

[a] Definitions of MMRP Column Headings:

Adopted Mitigation and Improvements Measures: Full text of the mitigation measure(s) copied verbatim from the final CEQA document.

Implementation Responsibility: Entity who is responsible for implementing the mitigation measure. In most cases this is the project sponsor and/or project's sponsor's construction contractor/consultant and at times under the direction of the planning department.

Mitigation Schedule: Identifies milestones for when the actions in the mitigation measure need to be implemented.

Monitoring/Reporting Responsibility: Identifies who is responsible for monitoring compliance with the mitigation measure and any reporting responsibilities. In most cases it is the Planning Department who is responsible for monitoring compliance with the mitigation measure. 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 construction contractor, or consultant are responsible for any reporting requirements.

Monitoring Actions/Completion Criteria: Identifies the milestone at which the mitigation measure is considered complete. This may also identify requirements for verifying compliance.