

**TABLE A: MITIGATION MEASURES ADOPTED AS CONDITIONS OF APPROVAL or TO BE ADOPTED AS CONDITIONS OF APPROVAL FOR SUBSEQUENT DEVELOPMENT PROJECTS WITHIN THE HUB PLAN AREA, AS DETERMINED TO BE APPLICABLE DURING SUBSEQUENT PROJECT REVIEW (TO BE IMPLEMENTED BY THE CITY AND COUNTY OF SAN FRANCISCO OR PROJECT SPONSORS)**

This table identifies Plan-level and Project-level mitigation measures to be implemented by the City and County of San Francisco, project sponsors of the 30 Van Ness Avenue and 98 Franklin Street Projects, or project sponsors for subsequent development projects in the Hub Plan area. The project applicability columns indicate which project is required to implement a given mitigation measure. For subsequent development projects in the Hub Plan area, during subsequent environmental review, the Planning Department would determine the applicability of each measure and prepare a project-specific Mitigation and Monitoring Reporting Program to be adopted with each subsequent project.

Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
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<b>Cultural Resources</b>								
<b>M-CUL-1a: Avoid or Minimize Effects on Identified Built Environment Resources.</b> This mitigation measure is required in recognition of Objective 3.2 of the Market and Octavia Area Plan, to which the Hub Plan is an amendment. Objective 3.2 states that the Market and Octavia Area Plan shall “promote the preservation of notable historic landmarks, individual historic buildings, and features that help to provide continuity with the past.” Policy 3.2.2 of the Market and Octavia Plan states that the plan shall “encourage rehabilitation and adaptive reuse of historic buildings and resources.” In order to meet Objective 3.2 and Policy 3.2.2, the project sponsor of a subsequent development project in the Hub Plan area that occurs on the site of a built environment historic resource or contributor to a historic district shall seek feasible means for avoiding significant adverse effects on historic architectural resources, with judgment of the significance of the impact to be based on the Secretary of the Interior’s Standards for	X				Project sponsor and qualified architectural historian.	Prior to approval of project environmental document.	Planning department preservation staff to review and approve.	Considered complete when environmental document approved by Environmental Review Officer.

<sup>1</sup> Implementation of the Hub Housing Sustainability District (HSD) is a procedural change that may reduce the time required for approval of projects that satisfy all of the requirements of the HSD ordinance. Designation of an HSD, through adoption of an ordinance by the San Francisco Board of Supervisors, would allow the city to exercise streamlined ministerial approval of residential and mixed-use development projects meeting certain requirements within the HSD. Qualifying projects approved under the HSD would still be required to implement mitigation measures identified in this EIR and comply with adopted design review standards and all existing city laws and regulations but would not require additional CEQA analysis. Because the Hub HSD would be a procedural change that would be shown as an overlay on zoning maps, no impacts would result from implementation of the HSD beyond those identified for the Hub Plan.

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Rehabilitation. If a project that conforms to the Secretary of the Interior’s Standards for Rehabilitation is not feasible, the project sponsor shall a.) demonstrate that infeasibility to the San Francisco Planning Department’s preservation staff, and b.) consult with the San Francisco Planning Department’s preservation and urban design staff to determine if effects on built environment resources should be minimized by retaining a portion of the existing building and incorporating it into the project, with the understanding that such minimization would still result in a significant adverse impact on historical resources. If retention of a portion of the existing building is not feasible, the project sponsor shall demonstrate that infeasibility to the San Francisco Planning Department’s preservation staff. California Environmental Quality Act Guidelines section 15364 defines “feasible” as “capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.” For the purposes of this mitigation measure, economic factors will not be considered. The applicability of each remaining factor would vary from project to project and be determined by staff members on a case-by-case basis.								
<b>M-CUL-1b: Prepare and Submit Historical Documentation of Built Environment Resources.</b> Where avoidance is not feasible, as described in Mitigation Measure M-CUL-1a, the project sponsor of a subsequent development project in the Hub Plan area shall	X				Project sponsor, qualified architectural historian, and photographer.	Prior to the issuance of any demolition, site, or building permit for the project.	Planning department preservation staff to review and approve.	Considered complete upon submittal of final Historic American Buildings Survey documentation to the

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undertake historical documentation. The project sponsor shall retain a professional who meets the Secretary of the Interior’s Qualification Standards for Architectural Historian or Historian (36 Code of Federal Regulations part 61) and a photographer with demonstrated experience in Historic American Buildings Survey photography to prepare written and photographic documentation for the affected built environment resources. The Historic American Buildings Survey documentation package for each affected built environment resource shall be reviewed and approved by the San Francisco Planning Department’s preservation staff prior to the issuance of any demolition, site, or construction permit for the project.  The documentation shall consist of the following: <ul style="list-style-type: none"> <li>• <i>Historic American Buildings Survey-level Photographs:</i> Historic American Buildings Survey standard large-format photography shall be used to document the built environment resources and surrounding context. The scope of the photographs shall be reviewed and approved by the San Francisco Planning Department’s preservation staff for concurrence, and all photography shall be conducted according to the current National Park Service Historic American Buildings Survey standards. The photograph set shall include distant/elevated views to capture the extent and context of the resource.</li> </ul>							Preservation Technical Specialist.	

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<ul style="list-style-type: none"> <li>○ All views shall be referenced on a key map of the resource, including a photograph number with an arrow to indicate the direction of the view.</li> <li>○ The draft photograph contact sheets and key map shall be provided to the San Francisco Planning Department’s preservation staff for review to determine the final number and views for inclusion in the final dataset.</li> <li>○ Historic photographs identified in previous studies shall also be collected, scanned as high-resolution digital files, and reproduced in the dataset.</li> <li>● <i>Written Historic American Buildings Survey Narrative Report:</i> A written historical narrative, using the outline format, shall be prepared in accordance with the Historic American Buildings Survey Historical Report Guidelines.</li> <li>● <i>Measured Drawings:</i> A set of measured drawings shall be prepared to document the overall design and character-defining features of the affected built environment resource. Original design drawings of the resource, if available, shall be digitized and incorporated into the measured drawings set. The San Francisco Planning Department’s preservation staff shall assist the consultant in determining the appropriate level of measured drawings.</li> <li>● <i>Print-on-Demand Booklet:</i> Following preparation of the Historic American Buildings Survey photography, narrative report, and</li> </ul>								

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<p>drawings, a print-on-demand softcover book shall be produced for the resource that compiles the documentation and historical photographs. The print-on-demand book shall be made available to the public for distribution.</p> <p>Format of Final Dataset:</p> <ul style="list-style-type: none"> <li>The project sponsor shall contact the History Room of the San Francisco Public Library, San Francisco Planning Department, Northwest Information Center, and California Historical Society to inquire as to whether the research repositories would like to receive a hard or digital copy of the final dataset. Labeled hard copies and/or digital copies of the final book, containing the photograph sets, narrative report, and measured drawings, shall be provided to these repositories in their preferred format.</li> <li>The project sponsor shall prepare documentation for review and approval by the San Francisco Planning Department's preservation staff, along with the final Historic American Buildings Survey dataset, that outlines the outreach, response, and actions taken with regard to the repositories listed above. The documentation shall also include any research conducted to identify additional interested groups and the results of that outreach. The project sponsor shall make digital copies of the final dataset, which shall be made available to additional interested organizations, if requested.</li> </ul>								

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<p><b>M-CUL-1c: Develop and Implement an Interpretive Program for Projects Demolishing or Altering a Historical Resource or Contributor to a Historic District.</b> For projects that would demolish or materially alter a historical resource or contributor to a historic district, the project sponsor shall work with the San Francisco Planning Department’s preservation staff or other qualified professionals to institute an interpretive program onsite that references the property’s history and the contribution of the historical resource to the broader neighborhood or historic district. The interpretive program would include the creation of historical exhibits, incorporating a permanent display featuring historic photos of the affected resource and a description of its historical significance, in a publicly accessible location on the project site. This may also include a website. The contents of the interpretative program shall be determined by the San Francisco Planning Department’s preservation staff. Development of the interpretive displays shall be overseen 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). An outline of the format and the location and content of the interpretive displays shall be reviewed and approved by the San Francisco Planning Department’s preservation staff prior to issuance of a demolition permit or site permit. The format, location,</p>	X				Project sponsor and qualified architectural historian.	Prior to issuance of a demolition or site permit (for an outline of the format and location/content of displays) and prior to issuance of any building permits.	Planning department preservation staff to review and approve the interpretive display.	Considered complete upon installation of display or publication of website.

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content, specifications, and maintenance of the interpretive displays must be finalized prior to issuance of any building permits for the project.								
<b>M-CUL-1d: Video Recordation for Projects Demolishing or Altering a Historical Resource or Contributor to a Historic District.</b> For projects that would demolish or materially alter a historical resource or contributor to a historic district, the project sponsor shall work with the San Francisco Planning Department’s preservation staff or other qualified professionals to undertake video documentation of the affected historical resource and its setting. The documentation shall be conducted by a professional videographer, preferably one with experience recording architectural resources, prior to the commencement of any demolition or project activities at the project site. The documentation shall be narrated by a qualified professional who meets the standards for history, architectural history, or architecture (as appropriate), as 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 significance and historic context of the historical resource.	X				Project sponsor, qualified historic preservation individual, qualified videographer.	Prior to issuance of a demolition, site, or building permit.	Planning department preservation staff to review and approve.	Considered complete upon submittal of completed video documentation to the San Francisco Public Library or other interested historical institution.

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Digital copies of the video documentation shall be submitted to the San Francisco Planning Department; archival copies of the video documentation shall be submitted to repositories including, but not limited to, the San Francisco Public Library, Northwest Information Center, and California Historical Society. The video documentation shall be reviewed and approved by the San Francisco Planning Department's preservation staff prior to issuance of a demolition, site, or building permit for the project.								
<b>M-CUL-1e: Architectural Salvage for Projects Demolishing or Altering a Historical Resource or Contributor to a Historic District.</b> For projects that would demolish or materially alter a historical resource or contributor to a historic district, the project sponsor shall seek feasible means for salvaging the building's character-defining architectural features and incorporating them into either the design of the new project proposed at the site or the interpretive program that would be developed under M-CUL-1c. The project sponsor shall work closely with the San Francisco Planning Department preservation and urban design staff to determine which elements should be salvaged. In the event that reuse of salvaged elements in either the design of a new building or in an interpretive program proves infeasible or otherwise undesirable as determined by the San Francisco Planning Department preservation staff, the project sponsor may, at the direction of the San Francisco Planning Department preservation	X				Project sponsor and planning department.	Prior to the issuance of any demolition, site, or construction permit.	Planning department preservation staff to review and approve.	Considered complete upon approval of the salvage plan and after salvage activities are complete.



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staff, be required to attempt to donate the elements to an appropriate historical or arts organization. A detailed salvage plan shall be reviewed and approved by the San Francisco Planning Department’s preservation staff prior to the issuance of any demolition, site, or construction permit for the project.								
<b>M-CUL-1f: New Locations for Contributing Auxiliary Water Supply System Elements to Preserve Historic District Character.</b> Where a streetscape or street network improvement proposed under the Hub Plan would require moving an Auxiliary Water Supply System hydrant, the San Francisco Planning Department shall conduct additional study to determine if it contributes to the historic significance of the Auxiliary Water Supply System. If the element is determined to be a contributing feature of the Auxiliary Water Supply System, the project sponsor shall work with the San Francisco Planning Department’s preservation staff to determine a location where the contributing Auxiliary Water Supply System hydrant could be reinstalled to preserve the historic relationships and functionality that are character-defining features of the Auxiliary Water Supply System. Generally, hydrants shall be reinstalled near the corner or the intersection from where they were removed. Any hydrant found not to contribute to the significance of the Auxiliary Water Supply System could be removed or relocated without diminishing the historic integrity of the district.		X			Project sponsor and planning department.	Prior to San Francisco Public Works approval of streetscape and street network improvements.	Planning department preservation staff to review and approve.	Considered complete with implementation of streetscape and street network improvements and, where necessary, the reinstallation of hydrants that are determined to contribute to the historic nature of the Auxiliary Water Supply System.

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<p><b>M-CUL-4a: Project-Specific Preliminary Archaeological Review for Projects Involving Soil Disturbance.</b> This archaeological mitigation measure shall apply to any subsequent development project involving any soil-disturbing or soil-improving activities including excavation, utilities installation, grading, soils remediation, or compaction/chemical grouting 2 feet or more below ground surface, for which no archaeological assessment report has been prepared.</p> <p>Projects to which this mitigation measure applies shall be subject to Preliminary Archaeological Review by the San Francisco Planning Department archaeologist.</p> <p>Based on the Preliminary Archaeological Review, the Environmental Review Officer shall determine if there is a potential for effects on an archaeological resource, including human remains, and, if so, what further actions are warranted to reduce the potential effect of the project on archaeological resources to a less-than-significant level. Such actions may include project redesign to avoid the potential to affect an archaeological resource, or further investigations by an archaeological consultant, such as preparation of a project-specific Archaeological Research Design and Treatment Plan or the undertaking of an archaeological monitoring or testing program based on an archaeological monitoring or testing plan. The scope of the Archaeological Research Design and Treatment Plan, archaeological testing, or</p>	X	X	Complete	Complete	Project sponsor, planning department's archaeologist or qualified archaeological consultant, and planning department Environmental Review Officer	Prior to completion of the environmental review of subsequent projects.	Planning department (Environmental Review Officer; department's archaeologist or qualified archaeological consultant) to review and approve.	Considered complete upon completion of the Preliminary Archaeological Assessment and if necessary the Archaeological Research Design and Treatment Plan.

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archaeological monitoring plan shall be determined in consultation with the Environmental Review Officer and consistent with the standards for archaeological documentation established by the Office of Historic Preservation for the purposes of compliance with the California Environmental Quality Act (Office of Historic Preservation, Preservation Planning Bulletin No. 5). Avoidance of effects on an archaeological resources is always the preferred option.								
<p><b>M-CUL-4b: Procedures for Accidental Discovery of Archaeological Resources for Projects Involving Soil Disturbance.</b> This mitigation measure is required for projects that would result in soil disturbance and are not subject to Mitigation Measure M-CUL-4a.</p> <p>Should any indication of an archaeological resource, including human remains, be encountered during any soil-disturbing activity of the project, the project head foreman and/or project sponsor shall immediately notify the Environmental Review Officer and immediately suspend any soil-disturbing activities in the vicinity of the discovery until the Environmental Review Officer has determined what additional measures should be undertaken.</p> <p>If the Environmental Review Officer determines that an archaeological resource may be present within the project site, the project sponsor shall retain the services of an archaeological consultant from the pool of qualified archaeological consultants</p>	X	X			Project sponsor, archaeological consultant, and project head foreman.	During any soil-disturbing activity.	Planning department (Environmental Review Officer) to determine if an archaeological resource may be present within the project site, approve additional measures if warranted, and approve a Final Archaeological Resources Report is necessary.	Considered complete after additional measures are implemented and Final Archaeological Resources Report is approved.

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<p>maintained by the San Francisco Planning Department archaeologist. The archaeological consultant shall advise the Environmental Review Officer as to whether the discovery is an archaeological resource, whether it retains sufficient integrity, and whether it is of potential scientific/historical/cultural significance. If an archaeological resource is present, the archaeological consultant shall identify and evaluate the archaeological resource. The archaeological consultant shall make a recommendation as to what action, if any, is warranted. Based on this information, the Environmental Review Officer may require, if warranted, specific additional measures to be implemented by the project sponsor.</p> <p>Measures might include preservation of the archaeological resource in situ, an archaeological monitoring program, an archaeological testing program, or an archaeological treatment program. If an archaeological treatment program, archaeological monitoring program, or archaeological testing program is required, it shall be consistent with the San Francisco Planning Department's Environmental Planning Division guidelines for such programs. The Environmental Review Officer may also require that the project sponsor immediately implement a site security program if the archaeological resource is at risk from vandalism, looting, or other damaging actions. If human remains are found, all applicable state laws will be followed, as outlined in Impact CUL-7, and an archaeological treatment program will be implemented in</p>								

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consultation with appropriate descendant groups and approved by the Environmental Review Officer.  The project archaeological consultant shall submit a Final Archaeological Resources Report to the Environmental Review Officer that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological monitoring/data recovery program(s) undertaken. Information that may put at risk any archaeological resource shall be provided in a separate removable insert within the final report.  Copies of the Draft Final Archaeological Resources Report shall be sent to the Environmental Review Officer for review and approval. Once approved by the Environmental Review Officer, copies of the Final Archaeological Resources Report shall be distributed as follows: California Archaeological Site Survey Northwest Information Center shall receive one copy, and the Environmental Review Officer shall receive a copy of the transmittal of the Final Archaeological Resources Report to the Northwest Information Center. The Environmental Planning Division of the San Francisco Planning Department shall receive one bound copy, one unbound copy, and one unlocked, searchable PDF copy on a compact disc of the Final Archaeological Resources Report, along with copies of any formal site recordation forms (California Department of Parks and Recreation 523 series) and/or documentation for nomination to								

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
the National Register of Historic Places/California Register of Historical Resources. In instances of high public interest or interpretive value, the Environmental Review Officer may require a different final report content, format, and distribution from that presented above.								
<b>M-CUL-4c: Requirement for Archaeological Monitoring for Streetscape and Street Network Improvements.</b> Based on reasonable potential that archaeological resources may be present within the Hub Plan area, in instances where streetscape and street network improvements are proposed that include soil disturbance of 2 feet or more below the street grade, the following measures shall be undertaken to avoid any potentially significant adverse effects from the proposed project on buried or submerged historical resources and human remains and associated or unassociated funerary objects. The project sponsor shall retain the services of an archaeological consultant from the rotational Qualified Archaeological Consultants List maintained by the San Francisco Planning Department archaeologist. After the first project approval action, or as directed by the Environmental Review Officer, the project sponsor shall contact the San Francisco Planning Department archaeologist to obtain the names and contact information for the next three archaeological consultants on the Qualified Archaeological Consultants List. The archaeological consultant shall undertake an archaeological monitoring program.		X			Project sponsor, planning department's archaeologist or qualified archaeological consultant, and planning department Environmental Review Officer.	Archaeological Monitoring Program, including worker training: development of program work scope prior to commencement of project-related-soil-disturbing activities; monitoring activity to occur during site excavation and construction, as per the Archaeological Monitoring Program. Archaeological Data Recovery Program: If required, the development of work	The archaeological consultant to prepare the Archaeological Monitoring Program and, if required, the Archaeological Data Recovery Program and Final Archaeological Resources Report. Planning department Environmental Review Officer to review and approve.	Considered complete on approval of Archaeological Monitoring Program by Environmental Review Officer; submittal of report regarding findings of Archaeological Monitoring Program, Archaeological Data Recovery Program, and Final Archaeological Resources Report; and findings by the Environmental Review Officer that the Archaeological Monitoring Program, Archaeological Data Recovery Program, and Final Archaeological

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<p>All plans and reports prepared by the consultant, as specified herein, shall be submitted first and directly to the Environmental Review Officer for review and comment and considered draft reports, subject to revision until final approval by the Environmental Review Officer. Archaeological monitoring and/or data recovery programs required by this measure could suspend construction of the project for up to a maximum of four weeks. At the direction of the Environmental Review Officer, 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 archaeological resource, as defined in California Environmental Quality Act Guidelines section 15064.5(a) and (c).</p> <p><i>Consultation with Descendant Communities:</i> On discovery of an archaeological site<sup>2</sup> associated with descendant Native Americans, overseas Chinese, or other potentially interested descendant group, an appropriate representative<sup>3</sup> of the descendant group and the Environmental Review Officer shall be contacted. The representative of the descendant group shall be given the</p>						<p>scope would occur prior to commencement of continued soil-disturbing construction activities; recovery activities would occur during and subsequent to construction activity, as per Archaeological Data Recovery Program.</p> <p>Treatment of human remains: upon discovery, if applicable.</p> <p>Final Archaeological Resources Report: upon completion of the</p>	Resources Report is implemented.	

<sup>2</sup> The term “archaeological site” is intended here to minimally include any archaeological deposit, feature, burial, or evidence of burial.

<sup>3</sup> An “appropriate representative” of the descendant group is here defined to mean, in the case of Native Americans, any individual listed in the current Native American contact list for the City and County of San Francisco maintained by the California Native American Heritage Commission and, in the case of the overseas Chinese, the Chinese Historical Society of America. An appropriate representative of other descendant groups should be determined in consultation with the San Francisco Planning Department archaeologist.

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<p>opportunity to monitor archaeological field investigations of the site and offer recommendations to the Environmental Review Officer regarding appropriate archaeological treatment of the site, recovered data from the site, and, if applicable, any interpretative treatment of the associated archaeological site. A copy of the Final Archaeological Resources Report shall be provided to the representative of the descendant group.</p> <p><i>Archaeological Monitoring Program.</i> The archaeological monitoring program shall minimally include the following provisions:</p> <ul style="list-style-type: none"> <li>The archaeological consultant, project sponsor, and Environmental Review Officer shall meet and consult on the scope of the archaeological monitoring program reasonably prior to commencement of any project-related soil-disturbing activities. The Environmental Review Officer, in consultation with the project archaeologist, shall determine which project activities shall be archaeologically monitored. In most cases, any soil-disturbing activities, such as demolition, foundation removal, excavation, grading, utilities installation, foundation work, driving of piles (foundation, shoring, etc.), site remediation, etc., shall require archaeological monitoring because of the potential risk these activities pose to archaeological resources and their depositional context.</li> <li>The archaeological consultant shall undertake a worker training program for soil-disturbing workers that shall include</li> </ul>						Archaeological Monitoring Program and Archaeological Data Recovery Program, and prior to issuance of a temporary certificate of occupancy.		



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<p>an overview of expected resource(s), how to identify the evidence of the expected resource(s), and the appropriate protocol in the event of apparent discovery of an archaeological resource.</p> <ul style="list-style-type: none"> <li>The archaeological monitor(s) shall be present on the project site, according to a schedule agreed upon by the archaeological consultant and the Environmental Review Officer until the Environmental Review Officer has, in consultation with the archaeological consultant, determined that project construction activities could have no effects on significant archaeological deposits.</li> <li>The archaeological monitor shall record and be authorized to collect soil samples and artifactual/ecofactual material as warranted for analysis.</li> <li>If an intact archaeological deposit is encountered, all soil-disturbing activities in the vicinity of the deposit shall cease. The archaeological monitor shall be empowered to temporarily redirect demolition/excavation/pile-driving/construction crews and heavy equipment until the deposit is evaluated. In the case of pile driving or deep foundation activities (foundation, shoring, etc.), if the archaeological monitor has cause to believe that the pile driving or deep foundation activities may affect an archaeological resource, the pile driving or deep foundation activities shall be terminated</li> </ul>								

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<p>until an appropriate evaluation of the resource has been made in consultation with the Environmental Review Officer. The archaeological consultant shall immediately notify the Environmental Review Officer of the encountered archaeological deposit. The archaeological consultant shall, after making a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological deposit, present the findings of this assessment to the Environmental Review Officer.</p> <p>If the Environmental Review Officer, in consultation with the archaeological consultant, determines that a significant archaeological resource is present and that the resource could be adversely affected by the proposed project, at the discretion of the project sponsor, either:</p> <ul style="list-style-type: none"> <li>• The proposed project shall be redesigned to avoid any adverse effect on the significant archaeological resource, or</li> <li>• An archaeological data recovery program shall be implemented, unless the Environmental Review Officer determines that the archaeological resource is of greater interpretive than research significance and that interpretive use of the resource is feasible.</li> </ul> <p>If an archaeological data recovery program is required by the Environmental Review Officer, the archaeological data recovery program shall be conducted in accordance with an archaeological</p>								

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<p>data recovery plan. The project archaeological consultant, project sponsor, and Environmental Review Officer shall meet and consult on the scope of the archaeological data recovery plan. The archaeological consultant shall prepare a draft archaeological data recovery plan that shall be submitted to the Environmental Review Officer for review and approval. The archaeological data recovery plan shall identify how the proposed data recovery program will preserve the significant information the archaeological resource is expected to contain. That is, the archaeological data recovery plan shall identify which scientific/historical research questions are applicable to the expected resource, which data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Data recovery, in general, shall be limited to the portions of the historical property that could be adversely affected by the proposed project. Destructive data recovery methods shall not be applied to portions of the archaeological resources if nondestructive methods are practical.</p> <p>The scope of the archaeological data recovery plan shall include the following elements:</p> <ul style="list-style-type: none"> <li>• <i>Field Methods and Procedures.</i> Descriptions of proposed field strategies, procedures, and operations.</li> <li>• <i>Cataloguing and Laboratory Analysis.</i> Descriptions of selected cataloguing system and artifact analysis procedures.</li> </ul>								

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<ul style="list-style-type: none"> <li>• <i>Discard and Deaccession Policy.</i> Descriptions of and rationale for field and post-field discard and deaccession policies.</li> <li>• <i>Interpretive Program.</i> Consideration of an onsite/offsite public interpretive program during the course of the archaeological data recovery program.</li> <li>• <i>Security Measures.</i> Recommended security measures to protect the archaeological resource from vandalism, looting, and non-intentionally damaging activities.</li> <li>• <i>Final Report.</i> Descriptions of proposed report format and distribution of results.</li> <li>• <i>Curation.</i> Descriptions 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.</li> </ul> <p><i>Human Remains, Associated or Unassociated Funerary Objects.</i> The treatment of human remains and associated or unassociated funerary objects discovered during any soil-disturbing activity shall comply with applicable state and federal laws, including immediate notification of the coroner of the City and County of San Francisco and, in the event of the coroner’s determination that the human remains are Native American remains, notification of the California Native American Heritage Commission, which shall appoint a most likely descendant (Public Resources Code section</p>								

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<p>5097.98). The Environmental Review Officer shall also be immediately notified upon discovery of human remains.</p> <p>The archaeological consultant, project sponsor, Environmental Review Officer, and most likely descendent shall make all reasonable efforts to develop an agreement for the treatment of human remains and associated or unassociated funerary objects with appropriate dignity (California Environmental Quality Act Guidelines section 15064.5(d)) within six days of the discovery of the human remains. This proposed timing shall not preclude the Public Resources Code section 5097.98 requirement that descendants make recommendations or preferences for treatment within 48 hours of being granted access to the site. The agreement shall take into consideration the appropriate excavation, removal, recordation, analysis, curation, possession, and final disposition of the human remains and associated or unassociated funerary objects. Nothing in existing state regulations or in this mitigation measure compels the project sponsor and the Environmental Review Officer to accept recommendations of a most likely descendant. The archaeological consultant shall retain possession of any Native American human remains and associated or unassociated burial objects until completion of any scientific analyses of the human remains or objects, as specified in the treatment agreement, if such an agreement has been made or, otherwise, as determined by the archaeological consultant and the</p>								

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Environmental Review Officer. If no agreement is reached, state regulations shall be followed, including the reburial of the human remains and associated burial objects with appropriate dignity on the property in a location not subject to further subsurface disturbance (Public Resources Code section 5097.98).  <i>Final Archaeological Resources Report.</i> The archaeological consultant shall submit a Draft Final Archaeological Resources Report to the Environmental Review Officer that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological testing/monitoring/data recovery program(s) undertaken. The Draft Final Archaeological Resources Report shall include a curation and deaccession plan for all recovered cultural materials. The Draft Final Archaeological Resources Report shall also include an Interpretation Plan for public interpretation of all significant archaeological features.  Copies of the Draft Final Archaeological Resources Report shall be sent to the Environmental Review Officer for review and approval. Once approved by the Environmental Review Officer, the consultant shall also prepare a public distribution version of the Final Archaeological Resources Report. Copies of the Final Archaeological Resources Report shall be distributed as follows: California Archaeological Site Survey Northwest Information Center shall receive one copy, and the Environmental Review								

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Officer shall receive a copy of the transmittal of the Final Archaeological Resources Report to the Northwest Information Center. The Environmental Planning Division of the San Francisco Planning Department shall receive one bound and one unlocked, searchable portable document format copy on compact disc of the Final Archaeological Resources Report, along with copies of any formal site recordation forms (California Department of Parks and Recreation 523 series) and/or documentation for nomination to the National Register of Historic Places/California Register of Historical Resources. In instances of public interest in or the high interpretive value of the resource, the Environmental Review Officer may require a different or additional final report content, format, and distribution than that presented above.								
<b>M-CUL-4d: Requirements for Archaeological Testing Consisting of Consultation with Descendent Communities, Testing, Monitoring, and a Report.</b> Based on a reasonable presumption that archaeological resources may be present within the project site, the following measures shall be undertaken to avoid any potentially significant adverse effect from the proposed project on buried or submerged historical resources and on human remains and associated or unassociated funerary objects. The project sponsor shall retain the services of an archaeological consultant from the rotational Department Qualified Archaeological Consultants List maintained by the San Francisco Planning Department			X	X	Project sponsors and qualified archaeological consultants.	After the first project approval action or as directed by the Environmental Review Officer.	Planning department archaeologist and Environmental Review Officer to review and approve.	Considered complete when all plans and reports are approved by the Environmental Review Officer.





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<p>in California Environmental Quality Act Guidelines sections 15064.5 (a) and (c).</p> <p><i>Consultation with Descendant Communities:</i> On discovery of an archaeological site associated with descendant Native Americans, the Overseas Chinese, or other potentially interested descendant group, an appropriate representative of the descendant group and the Environmental Review Officer shall be contacted. The representative of the descendant group shall be given the opportunity to monitor archaeological field investigations of the site and to offer recommendations to the Environmental Review Officer regarding appropriate archaeological treatment of the site, of recovered data from the site, and, if applicable, any interpretative treatment of the associated archaeological site. A copy of the Final Archaeological Resources Report shall be provided to the representative of the descendant group.</p> <p><i>Archaeological Testing Program.</i> The archaeological consultant shall prepare and submit to the Environmental Review Officer for review and approval an archaeological testing plan. The archaeological testing program shall be conducted in accordance with the approved archaeological testing plan. The archaeological testing plan shall identify the property types of the expected archaeological resource(s) that potentially could be adversely affected by the proposed project, the testing method to be used, and the locations recommended for testing. The purpose of the</p>								

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<p>archaeological testing program will be to determine to the extent possible the presence or absence of archaeological resources and to identify and evaluate whether any archaeological resource encountered on the site constitutes a historical resource under the California Environmental Quality Act.</p> <p>At the completion of the archaeological testing program, the archaeological consultant shall submit a written report of the findings to the Environmental Review Officer. If, based on the archaeological testing program, the archaeological consultant finds that significant archaeological resources may be present, the Environmental Review Officer in consultation with the archaeological consultant shall determine if additional measures are warranted. Additional measures that may be undertaken include additional archaeological testing, archaeological monitoring, and/or an archaeological data recovery program. No archaeological data recovery shall be undertaken without the prior approval of the Environmental Review Officer or the San Francisco Planning Department archaeologist. If the Environmental Review Officer determines that a significant archaeological resource is present and that the resource could be adversely affected by the proposed project, at the discretion of the project sponsor either:</p> <ul style="list-style-type: none"> <li>The proposed project shall be redesigned to avoid any adverse effect on the significant archaeological resource; or</li> </ul>								

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<ul style="list-style-type: none"> <li>A data recovery program shall be implemented, unless the Environmental Review Officer determines that the archaeological resource is of greater interpretive than research significance and that interpretive use of the resource is feasible.</li> </ul> <p><i>Archaeological Monitoring Program.</i> If the Environmental Review Officer in consultation with the archaeological consultant determines that an archaeological monitoring program shall be implemented, the archaeological monitoring program shall minimally include the following provisions:</p> <ul style="list-style-type: none"> <li>The archaeological consultant, project sponsor, and Environmental Review Officer shall meet and consult on the scope of the archaeological monitoring program reasonably prior to commencement of any project-related soil-disturbing activities. The Environmental Review Officer in consultation with the archaeological consultant shall determine which project activities shall be archaeologically monitored. In most cases, any soil-disturbing activities, such as demolition, foundation removal, excavation, grading, utilities installation, foundation work, driving of piles (foundation, shoring, etc.), site remediation, etc., shall require archaeological monitoring because of the risk these activities pose to potential archaeological resources and to their depositional context.</li> <li>The archaeological consultant shall undertake a worker training program for soil-disturbing workers that shall include</li> </ul>								

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
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<p>an overview of expected resource(s), how to identify the evidence of the expected resource(s), and the appropriate protocol in the event of apparent discovery of an archaeological resource.</p> <ul style="list-style-type: none"> <li>The archaeological monitor(s) shall be present on the project site according to a schedule agreed upon by the archaeological consultant and the Environmental Review Officer until the Environmental Review Officer has, in consultation with project archaeological consultant, determined that project construction activities could have no effects on significant archaeological deposits.</li> <li>The archaeological monitor shall record and be authorized to collect soil samples and artifactual/ecofactual material as warranted for analysis.</li> <li>If an intact archaeological deposit is encountered, all soil-disturbing activities in the vicinity of the deposit shall cease. The archaeological monitor shall be empowered to temporarily redirect demolition/excavation/pile driving/construction activities and equipment until the deposit is evaluated. In the case of pile driving or deep foundation activities (foundation, shoring, etc.), if the archaeological monitor has cause to believe that the pile driving or deep foundation activities may affect an archaeological resource, the pile driving or deep foundation activities shall be terminated until an appropriate evaluation of</li> </ul>								

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<p>the resource has been made in consultation with the Environmental Review Officer. The archaeological consultant shall immediately notify the Environmental Review Officer of the encountered archaeological deposit. The archaeological consultant shall make a reasonable effort to assess the identity, integrity, and significance of the encountered archaeological deposit, and present the findings of this assessment to the Environmental Review Officer.</p> <p>Whether or not significant archaeological resources are encountered, the archaeological consultant shall submit a written report of the findings of the monitoring program to the Environmental Review Officer.</p> <p><i>Archaeological Data Recovery Program.</i> The archaeological data recovery program shall be conducted in accord with an archaeological data recovery plan. The archaeological consultant, project sponsor, and Environmental Review Officer shall meet and consult on the scope of the archaeological data recovery plan prior to preparation of a draft archaeological data recovery plan. The archaeological consultant shall submit a draft archaeological data recovery plan to the Environmental Review Officer. The archaeological data recovery plan shall identify how the proposed data recovery program will preserve the significant information the archaeological resource is expected to contain. That is, the archaeological data recovery plan shall identify which</p>								

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scientific/historical research questions are applicable to the expected resource, which data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Data recovery, in general, shall be limited to the portions of the historical property that could be adversely affected by the proposed project. Destructive data recovery methods shall not be applied to portions of the archaeological resources if nondestructive methods are practical. The scope of the archaeological data recovery plan shall include the following elements: <ul style="list-style-type: none"> <li>• <i>Field Methods and Procedures.</i> Descriptions of proposed field strategies, procedures, and operations.</li> <li>• <i>Cataloguing and Laboratory Analysis.</i> Descriptions of selected cataloguing system and artifact analysis procedures.</li> <li>• <i>Discard and Deaccession Policy.</i> Descriptions of and rationale for field and post-field discard and deaccession policies.</li> <li>• <i>Interpretive Program.</i> Consideration of an onsite/offsite public interpretive program during the course of the archaeological data recovery program.</li> <li>• <i>Security Measures.</i> Recommended security measures to protect the archaeological resource from vandalism, looting, and non-intentionally damaging activities.</li> </ul>								

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<ul style="list-style-type: none"> <li><i>Final Report.</i> Descriptions of proposed report format and distribution of results.</li> <li><i>Curation.</i> Descriptions 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.</li> </ul> <p><i>Human Remains, Associated or Unassociated Funerary Objects.</i> The treatment of human remains and of associated or unassociated funerary objects discovered during any soil-disturbing activity shall comply with applicable state and federal laws, including immediate notification of the Office of the Chief Medical Examiner of the City and County of San Francisco and, in the event of the medical examiner’s determination that the human remains are Native American remains, notification of the California Native American Heritage Commission, who shall appoint a most likely descendant (Public Resources Code section 5097.98). The Environmental Review Officer shall also be immediately notified upon discovery of human remains.</p> <p>The archaeological consultant, project sponsor, Environmental Review Officer, and most likely descendant shall have up to but not beyond six days after the discovery to make all reasonable efforts to develop an agreement for the treatment of human remains and associated or unassociated funerary objects with</p>								

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<p>appropriate dignity (California Environmental Quality Act Guidelines section 15064.5(d)). The agreement shall take into consideration the appropriate excavation, removal, recordation, analysis, curation, possession, and final disposition of the human remains and associated or unassociated funerary objects. Nothing in existing state regulations or in this mitigation measure compels the project sponsor and the Environmental Review Officer to accept recommendations of a most likely descendant. The archaeological consultant shall retain possession of any Native American human remains and associated or unassociated burial objects until completion of any scientific analyses of the human remains or objects as specified in the treatment agreement if such as agreement has been made or, otherwise, as determined by the archaeological consultant and the Environmental Review Officer. If no agreement is reached, state regulations shall be followed including the reburial of the human remains and associated burial objects with appropriate dignity on the property in a location not subject to further subsurface disturbance (Public Resources Code section 5097.98).</p> <p><i>Final Archaeological Resources Report.</i> The archaeological consultant shall submit a Draft Final Archaeological Resources Report to the Environmental Review Officer that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods</p>								



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<p>employed in the archaeological testing/monitoring/data recovery program(s) undertaken. The Draft Final Archaeological Resources Report shall include a curation and deaccession plan for all recovered cultural materials. The Draft Final Archaeological Resources Report shall also include an Interpretation Plan for public interpretation of all significant archaeological features.</p> <p>Copies of the Draft Final Archaeological Resources Report shall be sent to the Environmental Review Officer for review and approval. Once approved by the Environmental Review Officer, the consultant shall also prepare a public distribution version of the Final Archaeological Resources Report. Copies of the Final Archaeological Resources Report shall be distributed as follows: California Archaeological Site Survey Northwest Information Center shall receive one copy and the Environmental Review Officer shall receive a copy of the transmittal of the Final Archaeological Resources Report to the Northwest Information Center. The Environmental Planning division of the San Francisco Planning Department shall receive one bound and one unlocked, searchable portable document format copy on compact disc of the Final Archaeological Resources Report along with copies of any formal site recordation forms (California Department of Parks and Recreation 523 series) and/or documentation for nomination to the National Register of Historic Places/California Register of Historical Resources. In instances of public interest in or the high</p>								

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interpretive value of the resource, the Environmental Review Officer may require a different or additional final report content, format, and distribution than that presented above.								
<b>Tribal Cultural Resources</b>								
<p><b>M-TCR-1: Project-Specific Tribal Cultural Resources Assessment for Projects Involving Ground Disturbance.</b> This tribal cultural resources cultural mitigation measure shall apply to any project involving any soils-disturbing or soils-improving activities including excavation, utilities installation, grading, soils remediation, or compaction/chemical grouting at depths that would extend into sand dune and marsh deposits, that occurs at depths of 2 feet or more below the ground surface.</p> <p>Projects to which this mitigation measure applies shall be reviewed for the potential to affect a tribal cultural resource in tandem with Preliminary Archaeological Review of the project by the San Francisco Planning Department senior archaeologist. For projects requiring a Mitigated Negative Declaration or Environmental Impact Report, the San Francisco Planning Department "Notification Regarding Tribal Cultural Resources and the California Environmental Quality Act" shall be distributed to the San Francisco Planning Department tribal distribution list. Consultation with California Native American tribes regarding the potential of the project to affect a tribal cultural resource shall occur</p>	X	X	X	X	Planning department's archaeologist, California Native American tribal representative, planning department-qualified archaeological consultant; project sponsors.	The environmental review of 30 Van Ness Avenue and 98 Franklin Street for potential to affect a tribal cultural resource and conduct outreach has been completed.  For subsequent projects, potential to affect a tribal cultural resource and conduct outreach during environmental review.  Prior to issuance of demolition permit for preservation in place or interpretive program, if needed following	Planning department archaeologist to review the potential for a project to affect a tribal cultural resource, perform outreach, and review plan for preservation in place or interpretive program; planning department-qualified archaeological consultant, project sponsor implement an interpretive program of the tribal cultural resource.	Considered complete if no Tribal Cultural Resource is discovered or Tribal Cultural Resource is discovered and either preserved in-place or project effects to Tribal Cultural Resources are mitigated by implementation of planning department-approved interpretive program.

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<p>at the request of any notified tribe. For all projects subject to this mitigation measure, if the San Francisco Planning Department senior archaeologist determines that the proposed project may have a potential significant adverse effect on a tribal cultural resources, then the following shall be required as determined warranted by the Environmental Review Officer.</p> <p>If the Environmental Review Officer determines that preservation-in-place of the tribal cultural resource is both feasible and effective, based on information provided by the applicant regarding feasibility and other available information, then the project’s archaeological consultant shall prepare an archaeological resource preservation plan. Implementation of the approved archaeological resource preservation plan by the archaeological consultant shall be required when feasible. If the Environmental Review Officer determines that preservation in place of the tribal cultural resource is not a sufficient or feasible option, then the project sponsor shall implement an interpretive program of the tribal cultural resource in coordination with affiliated Native American tribal representatives. An interpretive plan produced in coordination with affiliated Native American tribal representatives, at minimum, and approved by the Environmental Review Officer shall 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,</p>						identification of a potential significant adverse effect on a tribal cultural resources.		

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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, artifact displays and interpretation, and educational panels or other informational displays								
<b>Transportation and Circulation</b>								
<b>M-TR-1: Construction Management Plan.</b> For projects within the Hub Plan area, the project sponsor shall develop and, upon review and consultation with the San Francisco Municipal Transportation Agency and San Francisco Public Works, implement a Construction Management Plan to address issues related to transportation-related circulation, access, staging, and hours of delivery. The Construction Management Plan would disseminate appropriate information to contractors and affected agencies regarding coordinating construction activities to minimize disruption and maintain circulation in the project area to the extent possible, with particular focus on ensuring connectivity for transit, people walking, and people bicycling. The Construction Management Plan would supplement and expand, rather than modify or supersede, any manual, regulations, or provisions set forth by San Francisco Municipal Transportation Agency, San	X	X			Project sponsor.	Prior to the start of project construction and throughout the construction period.	Project sponsors to develop the plan; San Francisco Municipal Transportation Agency, San Francisco Public Works, and planning department to review and approve.	Considered complete upon approval of each construction management plan and completion of each project's construction.

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<p>Francisco Public Works, other City departments and agencies, the California Department of Transportation.</p> <p>If it is determined during a subsequent project-level transportation study that construction of the proposed project would overlap with adjacent project(s) so as to result in transportation-related impacts, the project sponsor or its contractor(s) shall consult with City departments such as San Francisco Municipal Transportation Agency and San Francisco Public Works and conduct interdepartmental meetings, as deemed necessary by San Francisco Municipal Transportation Agency, San Francisco Public Works, and the department, to coordinate a Construction Management Plan with adjacent project(s) to minimize the severity of any disruption to adjacent land uses and transportation facilities by overlapping construction-related transportation impacts to the extent feasible and commercially reasonable in light of noise regulations, labor and contract requirements, available daylight hours, and critical-path construction schedules. Based on review of this plan, the project may be required to consult with San Francisco Municipal Transportation Agency Muni Operations prior to construction to review potential effects on nearby transit operations.</p> <p>The Construction Management Plan shall include a range of measures for the project sponsor, with San Francisco Municipal Transportation Agency concurrence, to select and prioritize to</p>								

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minimize disruption to the extent feasible so that overall circulation in the project area is maintained to the extent possible. Potential measures to be included in the Construction Management Plan shall include, but not be limited to, the following: <ul style="list-style-type: none"> <li>• <i>Restricted Truck Access Hours</i> – Limit truck movements between the peak hours of 7 a.m. and 9 a.m. and between 4 p.m. and 7 p.m. to the extent feasible and commercially reasonable in light of noise regulations, labor and contract requirements, available daylight hours, and critical-path construction schedules, as well as other times, if required by San Francisco Municipal Transportation Agency, to minimize disruptions to vehicular traffic, including transit during the a.m. and p.m. peak periods.</li> <li>• <i>Construction Truck Routing Plans</i> – Identify optimal truck routes between regional facilities and the project site, taking into consideration truck routes of other development projects and any construction activities affecting the roadway network.</li> <li>• <i>Carpooling, Bicycle, Walking, and Transit Access for Construction Workers</i> – The construction contractor shall encourage carpooling, bicycling, or walking to the project site as well as transit options for construction workers. These methods could include providing transit subsidies to construction workers, providing secure bicycle parking spaces, participating in free-to-employee ride-matching programs from <a href="http://www.511.org">www.511.org</a>, participating in the emergency ride-home program through the</li> </ul>								

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City (www.sferh.org), or providing transit information to construction workers. • <i>Project Construction Updates for Adjacent Businesses and Residents</i> – To minimize construction impacts on access, the project sponsor shall provide nearby residences and adjacent businesses with regularly updated information regarding project construction, including construction activities, peak construction vehicle activities (e.g., concrete pours), and travel-lane closures. At regular intervals, to be defined in the Construction Management Plan and, if necessary, the Coordinated Construction Management Plan, a regular email notice shall be distributed by the project sponsor to adjacent neighbors, residents, and others, as requested, providing current construction information of interest to neighbors as well as contact information for those with specific construction inquiries or concerns.								
<b>Noise and Vibration</b>								
<b>M-NOI-1a: Construction Noise Control Plan for Projects within 250 Feet of a Noise-Sensitive Land Use.</b> The project sponsor for each subsequent development project under the Hub Plan located within 250 feet of a noise-sensitive land use or proposing or required to conduct nighttime construction shall develop a noise control plan to ensure that project noise from all construction	X		X	X	Project sponsor for projects located within 250 feet of a noise-sensitive land use or proposing to conduct nighttime construction.	Prior to the issuance of building permits and along with the submission of construction documents to the	Planning department to review and approve the plan and to review monitoring reports, as needed; health department or police department for complaints.	Considered complete upon approval of the Construction Noise Control Plan for each subsequent development project and

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activities (including construction, demolition, and excavation, etc.) is minimized to the maximum extent feasible, with a goal of construction noise not exceeding 90 dBA and 10 dBA above the ambient noise level at noise-sensitive receptors. The measures specified by the project sponsor for each individual project shall be reviewed and approved by the San Francisco Planning Department prior to the issuance of building permits. Measures that may be used to restrict noise include, but are not limited to, those listed below. <ul style="list-style-type: none"> <li>• Locate construction equipment, including stationary noise sources (e.g., temporary generators), as far as feasible from adjacent or nearby noise-sensitive receptors.</li> <li>• Stationary noise sources (e.g., generators and compressors) located in proximity to noise-sensitive land uses shall be muffled, enclosed within temporary enclosures, and shielded by barriers (which can reduce construction noise by as much as 5 dB).</li> <li>• Electric motors rather than gasoline- or diesel-powered engines shall be used to avoid noise associated with compressed air exhaust from pneumatically powered tools. Where the use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used (which can reduce noise levels from exhaust by approximately 10 dB). External jackets</li> </ul>					planning department for development of the plan. During construction for plan implementation. If noise monitoring is required, reporting to be submitted to the planning department regularly as established in the noise monitoring plan.		after construction is complete.	



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on the tools themselves shall also be used (which could reduce noise by approximately 5 dB). <ul style="list-style-type: none"> <li>• Construction contractors shall be required to use “quiet” gasoline-powered compressors or electrically powered compressors as well as electric rather than gasoline- or diesel-powered forklifts for small lifting, where feasible.</li> <li>• Prohibit idling of inactive construction equipment for prolonged periods (i.e., more than two minutes).</li> <li>• Prohibit or limit gasoline or diesel engines from having unmuffled exhaust systems.</li> <li>• Ensure that equipment and trucks used for project construction use the best available noise control techniques (e.g., improved mufflers, equipment redesign, intake silencers, ducts, engine enclosures, acoustically attenuating shields or shrouds).</li> <li>• Ensure that impact tools (e.g., jack hammers, pavement breakers, rock drills) used for project construction are hydraulically or electrically powered, when possible. Quieter equipment shall be used instead of impact equipment, when feasible (such as drills rather than impact equipment).</li> <li>• Electric motors rather than gasoline- or diesel-powered engines shall be used to avoid noise associated with compressed air exhaust from pneumatically powered tools. Where the use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used; this muffler can lower</li> </ul>								

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noise levels from the exhaust by about 10 A-weighted decibels. External jackets on the tools themselves shall be used, which could achieve a reduction of 5 A-weighted decibels. <ul style="list-style-type: none"> <li>Construction contractors shall be required to use “quiet” gasoline-powered compressors or electrically powered compressors as well as electric rather than gasoline- or diesel-powered forklifts for small lifting, where feasible.</li> <li>Undertake the noisiest activities during times of least disturbance to surrounding residents and occupants.</li> <li>Limit nighttime construction to the extent feasible. If nighttime construction is determined to be necessary, a special permit shall be obtained from the Director of Public Works or the Director of Building Inspection. Nighttime construction activities shall comply with the requirements of the permit. In addition, the contractor shall employ the measures discussed above (e.g., limiting idling, locating equipment far from noise-sensitive receptors, using noise-reducing enclosures, etc.) or other feasible measures to reduce noise such that interior noise at nearby receptors is reduced to the extent practicable (below 45 A-weighted decibels, equivalent sound level, where feasible).</li> <li>If required by the San Francisco Planning Department, based on the degree of construction, proximity of sensitive uses, or a noise complaint, project sponsor shall monitor the noise levels</li> </ul>								

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<p>during periods of noisy construction activities (demolition, excavation, etc.). A plan for noise monitoring and reporting shall be provided to the San Francisco Planning Department for review prior to the commencement of construction.</p> <p>Prior to the issuance of the building permit, along with the submission of construction documents, the project sponsor shall submit to the San Francisco Planning Department a list of measures for responding to and tracking complaints pertaining to construction noise. These measures shall include onsite posting and a noise hotline, and may include:</p> <ul style="list-style-type: none"> <li>• A procedure and phone number for notifying the San Francisco Planning Department, the health department, or the police department of complaints (during regular construction hours and off hours).</li> <li>• A sign posted onsite describing noise complaint procedures and a complaint hotline number that shall be answered at all times during construction.</li> <li>• Designation of an onsite construction complaint and enforcement manager for the project.</li> </ul>								
<p><b>M-NOI-1b: Site-Specific Noise Control Measures for Projects Involving Pile Driving.</b> For subsequent development projects under the Hub Plan that require pile driving, a set of site-specific noise attenuation measures shall be prepared under the</p>	X				Project sponsor and qualified acoustical consultant for projects that require pile driving.	Prior to and during the period of pile-driving.	Planning department to review and approve noise attenuation measures and to review daily noise measurements	Considered complete after implementation of noise attenuation measures

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supervision of a qualified acoustical consultant and reviewed and approved by the San Francisco Planning Department prior to the commencement of any pile driving activity. These attenuation measures shall be included in the construction of the project and include as many of the following control strategies, and any other effective strategies, as feasible to reduce noise from pile driving at nearby noise-sensitive land uses: <ul style="list-style-type: none"> <li>• Require the construction contractor to erect temporary plywood or similar solid noise barriers along the boundaries of the project site to shield potential sensitive receptors and reduce noise levels;</li> <li>• Require the construction contractor to implement “quiet” pile-driving technology (such as pre-drilling of piles, sonic pile drivers, and the use of more than one pile driver to shorten the total pile driving duration), where feasible, with consideration of geotechnical and structural requirements and soil conditions;</li> <li>• Require the construction contractor to monitor the effectiveness of noise attenuation measures by taking noise measurements, at a distance of 100 feet, at least once per day during pile-driving; and</li> <li>• Require that the construction contractor limit pile driving activity to result in the least disturbance to neighboring uses.</li> </ul>						periodically, police department (on complaint basis).	during pile-driving activities.	

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<p><b>M-NOI-3a: Protect Adjacent Potentially Susceptible Structures from Construction-Generated Vibration.</b> The project sponsor for subsequent development projects in the Hub Plan area shall consult with the San Francisco Planning Department’s environmental planning and preservation staff (as applicable) to determine whether adjacent or nearby buildings constitute structures that could be adversely affected by construction-generated vibration. For purposes of this measure, nearby potentially susceptible buildings within 100 feet of a construction site for a subsequent development project shall be considered if pile driving would be required at that site; if no pile driving would occur, potentially susceptible buildings within 25 feet of vibration-generating construction activity, such as the use of excavators, drill rigs, bulldozers, and vibratory rollers, shall be considered.</p> <p>If buildings adjacent to construction activity are identified that could be adversely affected, the project sponsor shall incorporate into construction specifications for the proposed project a requirement that the construction contractor(s) use all feasible means to avoid damage to adjacent and nearby historic buildings. Such methods to help reduce vibration-related damage effects may include maintaining a safe distance between the construction site and the potentially affected building, to the extent possible, based on site constraints, or using construction techniques that reduce vibration, such as concrete saws instead of jackhammers or hoe-</p>	X		X	X	Project sponsor.	Prior to and during construction activities.	Planning department’s environmental planning/preservation staff to review and approve, police department (on complaint basis).	Considered complete after implementation of vibration attenuation measures during construction activities.

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rams to open excavation trenches, non-vibratory rollers, or hand excavation to the extent feasible. For projects that would require piles, “quiet” pile-driving technologies (such as predrilling piles or using sonic pile drivers) shall be used, as feasible; appropriate excavation shoring methods shall be employed to prevent the movement of adjacent structures; and adequate security shall be ensured to minimize risks related to vandalism and fire.								
<p><b>M-NOI-3b: Construction Monitoring Program for Structures Potentially Affected by Vibration.</b> For structures located close enough to experience vibration levels that could result in building damage, as determined by compliance with Mitigation Measure M-NOI-3a, the project sponsor shall undertake a monitoring program to minimize damage to adjacent buildings and ensure that any such damage is documented and repaired. The monitoring program, which shall apply within 100 feet of pile driving activities and within 25 feet of other vibration generating activities, shall be followed and include the following components:</p> <ul style="list-style-type: none"> <li>• Prior to the start of any ground-disturbing activity, the project sponsor shall engage a historic architect or qualified historic preservation professional to undertake a pre-construction survey of potentially affected historic buildings identified by the San Francisco Planning Department within 100 feet of planned pile driving activity or within 25 feet of other vibration generating activity to document and photograph the</li> </ul>	X		X	X	Project sponsor, historic architect or qualified historic preservation professional.	Prior to the start of any ground-disturbing activity, during construction, and regular periodic inspections of each building during ground-disturbing activity on the project site.	Planning department’s preservation staff to review and approve preconstruction survey and monitoring program and review periodic monitoring reports.	Considered complete after construction and remediation activities are complete.

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<p>existing conditions of the building(s). If nearby affected buildings are not potentially historic, a structural engineer or other professional with similar qualifications shall document and photograph the existing conditions of potentially affected buildings within 100 feet of pile driving activity or within 25 feet of other vibration generating construction activity.</p> <ul style="list-style-type: none"> <li>Based on the construction and condition of the resource(s), the consultant shall also establish a standard maximum vibration level that shall not be exceeded at any building, based on existing conditions, character-defining features, soil conditions, and anticipated construction practices (common standards are a peak particle velocity of 0.25 inch per second for historic and some old buildings, a peak particle velocity of 0.3 inch per second for older residential structures, and a peak particle velocity of 0.5 inch per second for new residential structures and modern industrial/commercial buildings, as shown in <b>Table 3.C-7</b>, p. 3.C-20).</li> <li>To ensure that vibration levels do not exceed the established standard, the project sponsor shall monitor vibration levels at each structure and prohibit vibratory construction activities that generate vibration levels in excess of the standard.</li> <li>Should vibration levels be observed in excess of the selected standard, construction shall be halted and alternative construction techniques put in practice, to the extent feasible</li> </ul>								

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(e.g., pre-drilled piles could be substituted for driven piles, if feasible, based on soil conditions, or smaller, lighter equipment could be used in some cases).  The historic preservation professional (for effects to historic buildings) and/or structural engineer (for effects to non-historic structures) shall conduct regular (every three months) inspections of each building during ground-disturbing activity on the project site. Should damage to any building occur, the building(s) shall be remediated to their pre-construction condition at the conclusion of ground-disturbing activity on the site.								
<b>M-NOI-4: Noise Analysis for Projects in Excess of Applicable Noise Standards.</b> To reduce potential conflicts between existing sensitive receptors and new noise-generating uses developed under the Hub Plan, a noise analysis shall be required for new development that includes noise-generating activities or equipment (e.g., outdoor gathering areas; places of entertainment; heating, ventilation, and air-conditioning equipment) with the potential to generate noise levels substantially in excess of ambient noise levels or in excess of any applicable standards. This analysis shall include, at a minimum, a site survey to identify potential noise-sensitive uses within 900 feet of and with a direct line of sight to the subsequent development project site. It shall also include at least one 24-hour noise measurement (with maximum noise level readings that permit accurate description of maximum levels	X		Complete	Complete	Planning department; project sponsor for projects that include noise-generating activities or equipment, and acoustical consultant.	Analysis to be completed during environmental review of subsequent development projects in the Hub Plan area, prior to the first project approval action.	Planning department to review and approve.	Considered complete upon project approval by planning department/ Planning Commission via approval of final plan set by the Department of Building Inspection.



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reached during nighttime hours). This analysis shall be conducted prior to the first project approval action.  The analysis shall be prepared by persons qualified in acoustical analysis and/or engineering and shall demonstrate with reasonable certainty that the proposed use would not adversely affect nearby noise-sensitive uses, would not substantially increase ambient noise levels, and would not result in noise level in excess of any applicable standards. All recommendations from the acoustical analysis necessary to ensure that noise sources would meet applicable requirements of the noise ordinance and/or not result in substantial increases in ambient noise levels shall be incorporated into the building design and operations. Should such concerns be present, the San Francisco Planning Department may require the completion of a detailed noise control analysis (by a person qualified in acoustical analysis and/or engineering) that includes the incorporation of noise reduction measures (including quieter equipment, construction of barriers or enclosures, etc.) prior to the first project approval action.								
<b>Air Quality</b>								
<b>M-AQ-4a: Construction Emissions Analysis for Projects Above Screening Levels or That Exceed Criteria Air Pollutant Significance Thresholds.</b> Subsequent development projects that do not meet the applicable screening levels in <b>Table 3.D-6</b> , p. 3.D-	X		Complete	Complete	Project sponsors of projects that do not meet the applicable screening levels, planning department	During environmental review of subsequent development projects in the Hub Plan area.	Planning department (Environmental Review Officer, Air Quality technical staff) to review and approve.	Considered complete upon approval of analysis by Environmental Review Officer.

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47, of this EIR or that the planning department otherwise determines could exceed one or more significance thresholds for criteria air pollutants shall undergo an analysis of the project's construction emissions. If no significance thresholds are exceeded, no further mitigation is required. If one or more significance thresholds are exceeded, Mitigation Measure M-AQ-4b shall be implemented.								
<p><b>M-AQ-4b: Construction Emissions Minimization Plan Above Screening Levels or That Exceed Criteria Air Pollutant Significance Thresholds or as Required in Impact AQ-7.</b> If required based on the analysis described in Mitigation Measure M-AQ-4a or as required in Impact AQ-7 the project sponsor shall submit a construction emissions minimization plan to the Environmental Review Officer (ERO) for review and approval by an Environmental Planning Air Quality Specialist.</p> <p>1. All off-road equipment greater than 25 horsepower and operating for more than 20 total hours over the entire duration of construction activities shall meet the following requirements:</p> <p>a) Where access to alternative sources of power is reasonably available, portable diesel engines shall be prohibited;</p> <p>b) All off-road equipment shall have:</p>	X				Project sponsor; planning department.	<p>Prior to the issuance of demolition permits (plan development).</p> <p>Prior to the commencement of construction activities, the project sponsor shall certify (1) compliance with the construction emissions minimization plan, and (2) all applicable requirements of the construction emissions minimization plan have been incorporated into contract specifications.</p>	<p>Planning department (Environmental Review Officer, Air Quality technical staff) to review and approve.</p>	<p>Within six months of the completion of construction activities, the project sponsor shall submit to the Environmental Review Officer a final report summarizing construction activities. The final report shall indicate the start and end dates and duration of each construction phase</p> <p>Considered complete upon planning department review and acceptance of Construction Emissions Minimization Plan and</p>

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i. Engines that meet or exceed either U.S. Environmental Protection Agency or California Air Resources Board Tier 2 off-road emission standards (or Tier 3 or Tier 4 off-road emissions standards if NO <sub>x</sub> emissions exceed applicable thresholds), <i>and</i> ii. Engines that are retrofitted with an ARB Level 3 Verified Diesel Emissions Control Strategy (VDECS) <sup>4</sup> , and iii. Engines shall be fueled with renewable diesel (at least 99 percent renewable diesel or R99). iv. Any other best available technology offered at the time that future projects are submitted to the planning department for review may be included in the Plan as substitutions for the above items i through iii. c) Exceptions: i. Exceptions to 1(a) may be granted if the project sponsor has submitted information providing evidence to the satisfaction of the ERO that an alternative source of power is limited or infeasible at the project site and that the requirements of this exception provision apply. Under this circumstance,								when construction is complete.

<sup>4</sup> Equipment with engines meeting Tier 4 Interim or Tier 4 Final emission standards automatically meet this requirement, therefore VDECS would not be required.

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the sponsor shall submit documentation of compliance with 1(b) for onsite power generation. ii. Exceptions to 1(b)(ii) may be granted if the project sponsor has submitted information providing evidence to the satisfaction of the ERO that a particular piece of off-road equipment with an air board Level 3 VDECS (1) is technically not feasible, (2) would not produce desired emissions reductions due to expected operating modes, (3) installing the control device would create a safety hazard or impaired visibility for the operator, or (4) there is a compelling emergency need to use off-road equipment that are not retrofitted with an air board Level 3 VDECS and the sponsor has submitted documentation to the ERO that the requirements of this exception provision apply. If granted an exception to 1(b)(ii), the project sponsor shall comply with the requirements of 1(c)(iii). iii. If an exception is granted pursuant to 1(c)(ii), the project sponsor shall provide the next cleanest piece of off-road equipment as provided by the step down schedule in <b>Table M-AQ-4B</b> :								

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<p><b>Table M-AQ-4b Off-Road Equipment Compliance Step-Down Schedule*</b></p> <table border="1"> <thead> <tr> <th>Compliance Alternative</th> <th>Engine Emission Standard</th> <th>Emissions Control</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Tier 2**</td> <td>Air Board Level 2 VDECS</td> </tr> <tr> <td>2</td> <td>Tier 2</td> <td>Air Board Level 1 VDECS</td> </tr> </tbody> </table> <p>* How to use the table. If the requirements of 1(b) cannot be met, then the project sponsor would need to meet Compliance Alternative 1. Should the project sponsor not be able to supply off-road equipment meeting Compliance Alternative 1, then Compliance Alternative 2 would need to be met.</p> <p>** Tier 3 off road emissions standards are required if NOx emissions exceed applicable thresholds.</p> <p>iv. Exceptions to 1(b)(iii) may be granted if the project sponsor has submitted information providing evidence to the satisfaction of the ERO that a renewable diesel is not commercially available in the SFBAAB. If an exception is granted pursuant to this</p>	Compliance Alternative	Engine Emission Standard	Emissions Control	1	Tier 2**	Air Board Level 2 VDECS	2	Tier 2	Air Board Level 1 VDECS							
Compliance Alternative	Engine Emission Standard	Emissions Control														
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2	Tier 2	Air Board Level 1 VDECS														

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section, the project sponsor shall provide another type of alternative fuel, such as biodiesel (B20 or higher). v. Prior to any waiver sought by a project sponsor, the sponsor shall provide documentation demonstrating that by granting the waiver, the project would not exceed any applicable criteria air pollutant threshold. 2. The project sponsor shall require the idling time for off-road and on-road equipment be limited to no more than two minutes, except as provided in exceptions to the applicable State regulations regarding idling for off-road and on-road equipment. Legible and visible signs shall be posted in multiple languages (English, Spanish, Chinese) in designated queuing areas and at the construction site to remind operators of the two minute idling limit. 3. The project sponsor shall require that construction operators properly maintain and tune equipment in accordance with manufacturer specifications. 4. The construction emissions minimization 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. Off-road equipment descriptions and information may include, but is not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating),								

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<p>horsepower, engine serial number, and expected fuel use and hours of operation. For the VDECS installed: technology type, serial number, make, model, manufacturer, air board verification number level, and installation date and hour meter reading on installation date. For off-road equipment not using renewable diesel, reporting shall indicate the type of alternative fuel being used.</p> <p>5. The construction emissions minimization plan shall be kept on-site and available for review during working hours by any persons requesting it and a legible sign shall be posted at the perimeter of the construction site indicating to the public the basic requirements of the construction emissions minimization plan and a way to request a copy of the Plan. The project sponsor shall provide copies of the Plan as requested.</p> <p>6. Reporting. Quarterly reports shall be submitted to the ERO indicating the construction phase and off-road equipment information used during each phase including the information required in Paragraph 4, above. In addition, for off-road equipment not using renewable diesel, reporting shall indicate the type of alternative fuel being used.</p> <p>Within six months of the completion of construction activities, the project sponsor shall submit to the ERO a final report summarizing construction activities. The final report shall indicate the start and end dates and duration of each</p>								

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<p>construction phase. For each phase, the report shall include detailed information required in Paragraph 4. In addition, for off-road equipment not using renewable diesel, reporting shall indicate the type of alternative fuel being used.</p> <p>7. Certification Statement and On-site Requirements. Prior to the commencement of construction activities, the project sponsor shall certify (1) compliance with the construction emissions minimization plan, and (2) all applicable requirements of the construction emissions minimization plan have been incorporated into contract specifications.</p> <p>It should be noted that for specialty equipment types (e.g., drill rigs, shoring rigs and concrete pumps) it may not be feasible for construction contractors to modify their current, older equipment to accommodate the particulate filters, or for them to provide newer models with these filters pre-installed. Therefore, alternative compliance options are provided for in Mitigation Measure M-AQ-4b.</p>								



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<p><b>M-AQ-5a: Educate Residential and Commercial Tenants Concerning Low-VOC Consumer Products.</b> Prior to receipt of any building permit and every five years thereafter, the project sponsor shall develop electronic correspondence to be distributed by email or posted on-site annually to tenants of the project that encourages the purchase of consumer products and paints that are better for the environment and generate less volatile organic compound (VOC) emissions. The correspondence shall encourage environmentally preferable purchasing and shall include contact information and links to SF Approved.<sup>5</sup></p>	X				Project sponsor; subsequent project owner; Homeowners' Association (for condominium projects).	Prior to receipt of final Certificate of Occupancy and every five years thereafter.	Planning department and Department of Building Inspection to review and approve.	Project sponsor to submit written information to planning department prior to Department of Building Inspection issuance of Certificate of Occupancy; Sponsor or Owner to continue submittals at 5-year intervals (ongoing).
<p><b>M-AQ-5b: Reduce Operational Emissions for Projects That Exceed Criteria Air Pollutant Thresholds.</b> Proposed projects that would exceed the criteria air pollutant thresholds shall implement the additional measures, as applicable and feasible, to reduce operational criteria air pollutant emissions. Such measures may include, but are not limited to, the following:</p> <ul style="list-style-type: none"> <li>For any proposed refrigerated warehouses or large (greater than 20,000 square feet) grocery retailers, provide electrical hook-ups for diesel trucks with Transportation Refrigeration Units at the loading docks.</li> </ul>	X				Project sponsor; subsequent project owner, as applicable based on mitigation measure; Homeowners' Association (for condominium projects).	For warehouses and large grocers, prior to issuance of building permit.  Ongoing for maintenance use of architectural coatings.  For other measures, schedule to be determined by planning department.	Planning department and Department of Building Inspection to review and approve.	For warehouses and large grocers, considered complete upon approval of final construction plan set.  Ongoing for maintenance use of architectural coatings.  For other measures, schedule to be determined by planning department.

<sup>5</sup> SF Approved (sfapproved.org) is administrated by the San Francisco Department of Environment staff, who identifies products and services that are safer and better for the environment (e.g., those that are listed as "Required" or "Suggested").

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<ul style="list-style-type: none"> <li>Use low- and super-compliant VOC architectural coatings in maintaining buildings. "Low-VOC" refers to paints that meet the more stringent regulatory limits in South Coast Air Quality Management District Rule 1113; however, many manufacturers have reformulated to levels well below these limits. These are referred to as "Super-Compliant" architectural coatings.</li> <li>Other measures that become available and are shown to effectively reduce criteria air pollutant emissions onsite or offsite if emissions reductions are realized within the air basin. Measures to reduce emissions onsite are preferable to offsite emissions reductions.</li> </ul>								
<p><b>M-AQ-5c: Best Available Control Technology for Projects with Diesel Generators and Fire Pumps.</b> All diesel generators and fire pumps shall have engines that (1) meet Tier 4 Final or Tier 4 Interim emission standards, or (2) meet Tier 2 emission standards and are equipped with a California Air Resources Board Level 3 Verified Diesel Emissions Control Strategy. All diesel generators and fire pumps shall be fueled with renewable diesel, R99, if commercially available. Additional restrictions limiting the hours per year that generators may be tested may also be required, as determined necessary by the San Francisco Planning Department. For each new diesel backup generator or fire pump permit submitted for a project, including any associated generator pads, engine and filter specifications shall be submitted to the San</p>	X			X	Project sponsors of projects with new diesel generators and/or fire pumps; planning department.	For specifications, prior to issuance of building permit for diesel generator or fire pump. For maintenance, ongoing.	Planning department (Environmental Review Officer, Air Quality technical staff) to review and approve.	Equipment specifications portion considered complete when equipment specifications approved by Environmental Review Office. Maintenance portion is ongoing and records are subject to planning department review upon request.

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<p>Francisco Planning Department for review and approval prior to issuance of a permit for the generator or fire pump from the San Francisco Department of Building Inspection. Once operational, all diesel backup generators and Verified Diesel Emissions Control Strategy shall be maintained in good working order in for the life of the equipment and any future replacement of the diesel backup generators, fire pumps, and Level 3 Verified Diesel Emissions Control Strategy filters shall be required to be consistent with these emissions specifications. The operator of the facility at which the generator or fire pump is located shall maintain records of the testing schedule for each diesel backup generator and fire pump for the life of that diesel backup generator and fire pump and provide this information for review to the Planning Department within three months of requesting such information.</p>								
<p><b>M-AQ-7a: Additional Air Quality Improvement Strategies to Reduce Hub Plan-Generated Emissions and Population Exposure.</b> The planning department, in cooperation with other interested agencies or organizations, shall consider additional actions for the Hub Plan area with the goal of reducing Hub Plan-generated emissions and population exposure including, but not limited to:</p> <ul style="list-style-type: none"> <li>Collection of air quality monitoring data that could provide decision makers with information to identify specific areas of</li> </ul>	X				Planning Department, in cooperation with other interested agencies or organizations.	Strategy will be developed within four years of the Hub Plan adoption.	Planning Department, in cooperation with other interested agencies or organizations.	Ongoing for the duration of the Hub Plan.

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<p>the Hub Plan were changes in air quality have occurred and focus air quality improvements on these areas;</p> <ul style="list-style-type: none"> <li>• Additional measures that could be incorporated into the City’s Transportation Demand Management program with the goal of further reducing vehicle trips;</li> <li>• Incentives for replacement or upgrade of existing emissions sources;</li> <li>• Other measures to reduce air pollutant exposure, such as the distribution of portable air cleaning devices; and</li> <li>• Public education regarding reducing air pollutant emissions and their health effects.</li> </ul> <p>The department shall develop a strategy to explore the feasibility of additional air quality improvements within four years of Hub Plan adoption.</p>								
<p><b>M-AQ-7b: Air Quality Analysis That Considers the Siting of Uses That Emit Particulate Matter (PM<sub>2.5</sub>), Diesel Particulate Matter, or Other Toxic Air Contaminants.</b> To minimize potential exposure of sensitive receptors to diesel particulate matter or substantial levels of toxic air contaminants as part of everyday operations from stationary or area sources (other than the sources in Mitigation Measure M-AQ-5c), the San Francisco Planning Department shall require, during the environmental review process of subsequent development projects, but not later than the</p>	X		Complete	Complete	Project sponsors of projects with stationary equipment other than diesel generators and fire pumps that emit PM 2.5, diesel particulate, or other toxic air contaminants, as determined by the planning department.	Prior to first project approval action.	Planning department (Environmental Review Officer, Air Quality technical staff) to review and approve.	Considered complete upon Environmental Review Officer review and approval of air quality analysis and implementation of any required measures to reduce emissions.

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first project approval action, the preparation of an analysis by a qualified air quality specialist that includes, a site survey to identify residential or other sensitive receptors within 1,000 feet of the project site. For purposes of this measure, sensitive receptors are considered to include housing units; child care centers; schools (high school age and below); and inpatient health care facilities, including nursing or retirement homes and similar establishments. The assessment shall also include an estimate of emissions of toxic air contaminants from the source from the subsequent development and shall identify all feasible measures to reduce emissions. These measures shall be incorporated into the project prior to the first approval action.								
<b>M-AQ-7c: Design Land Use Buffers Around Active Loading Docks.</b> For subsequent development projects that include loading docks that would be expected to accommodate more than 100 trucks per day (or 40 transportation refrigeration trucks per day), locate truck activity areas including loading docks and delivery areas as far away from sensitive receptors (such as residences, child care, or medical facilities) as feasible.	X		X	X	Project sponsor.	Prior to approval of final plan set.	Planning department and Department of Building Inspection to review and approve.	Considered complete upon approval of final plan set.
<b>M-AQ-7d: Implementation of Mitigation Measures M-AQ-4b and M-AQ-5c for Projects within the Existing or Future Air Pollutant Exposure Zone.</b> All construction within the existing APEZ or newly added parcels that meet the APEZ criteria (Block 3505, Lots	X		X	X	Project sponsor.	Prior to the start of diesel equipment use on site.	Planning department (Environmental Review Officer, Air Quality technical staff) to review and approve.	Considered complete upon planning department review and acceptance of

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007 and 008; Block 3503, Lot 004; and Block 0814, Lot 003), shall implement <b>M-AQ-4b</b> . All subsequent development projects that include diesel generators or diesel fire pumps within the existing APEZ or newly added parcels that meet the APEZ criteria, as listed above, shall implement <b>Mitigation Measure M-AQ-5c</b> .								Construction Emissions Minimization Plan.
<b>M-AQ-7e: Update Air Pollution Exposure Zone.</b> The Department of Public Health in coordination with the Planning Department is required to update the Air Pollution Exposure Zone Map in San Francisco Health Code Article 38 at least every five years. The Planning Department shall coordinate with the Department of Public Health to update the Air Pollution Exposure Zone, taking into account updated health risk methodologies and traffic generated by the Hub Plan.	X				Planning Department and Department of Public Health (DPH).	Ongoing at 5-year intervals.	Planning Department and Department of Public Health.	Ongoing at 5-year intervals.
<b>M-AQ-9a: Construction Emissions Minimization Plan for 30 Van Ness Avenue Project.</b> Prior to construction, the 30 Van Ness Avenue project sponsor shall submit a construction emissions minimization plan to the Environmental Review Officer (ERO) for review and approval by an Environmental Planning Air Quality Specialist. Upon approval of construction emissions minimization plan, the sponsor shall implement the plan. The plan shall detail project compliance with the following requirements: 1. All construction equipment shall contain engine tiers consistent with the U.S. Environmental Protection Agency engine tiers as			X		Project sponsor.	Prior to the start of diesel equipment use on site.	Planning department (Environmental Review Officer, Air Quality technical staff) to review and approve.	Considered complete upon planning department review and acceptance of Construction Emissions Minimization Plan.

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<p>provided in <b>Table M-AQ-9a</b>, Construction Equipment Summary for 30 Van Ness Avenue Project, below.                      Documentation of equipment tiers for in-use equipment shall be maintained onsite as part of the plan.</p> <p>2. All off-road engines shall be fueled with renewable diesel (at least 99 percent renewable diesel or R99), if commercially available.</p> <p>3. The project sponsor shall require the idling time for off-road and on-road equipment be limited to no more than two minutes, except as provided in exceptions to the applicable state regulations regarding idling for off-road and on-road equipment. Legible and visible signs shall be posted in multiple languages (English, Spanish, Chinese) in designated queuing areas and at the construction site to remind operators of the two minute idling limit.</p> <p>4. The project sponsor shall require that construction operators properly maintain and tune equipment in accordance with manufacturer specifications.</p> <p>5. The construction emissions minimization 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. Off-road equipment descriptions and information may include, but is not limited to, equipment type, equipment manufacturer, equipment identification number,</p>								

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<p>engine model year, engine certification (Tier rating), horsepower, engine serial number, and expected fuel use and hours of operation.</p> <p>The construction emissions minimization plan shall be kept onsite and available for review during working hours by any persons requesting it and a legible sign shall be posted at the perimeter of the construction site indicating to the public the basic requirements of the construction emissions minimization plan and a way to request a copy of the plan. The project sponsor shall provide copies of the plan as requested. Should any deviations from the requirements or the equipment in <b>Table M-AQ-9a</b> be proposed prior to or during construction, the project sponsor shall demonstrate, to the satisfaction of the ERO, that an equivalent amount of emissions reduction would be achieved.</p> <p><i>Reporting.</i> Quarterly reports shall be submitted to the ERO indicating the construction phase and off-road equipment information used during each phase including the information required in Paragraph 5, above.</p>								



**TABLE M-AQ-9A: CONSTRUCTION EQUIPMENT SUMMARY FOR 30 VAN NESS AVENUE PROJECT**

Phase	Project Equipment at Site	Horsepower	Equipment Quantity	Usage Hours per Weekday	Usage Hours per Saturday	Controlled Equipment Details		Equipment Usage Data	
						Fuel	Control	Start	End
Demolition	Concrete/Industrial Saws	81	1	2.0	2.0	Diesel	Tier 4f	5/1/2020	11/1/2020
	Rubber Tired Dozers	247	1	1.0	1.0	Diesel	Tier 4f	5/1/2020	11/1/2020
	Sweepers/Scrubbers	64	1	2.0	2.0	Diesel	Tier 4f	5/1/2020	11/1/2020
	Excavators	158	1	2.4	2.4	Diesel	Tier 4f	5/1/2020	11/1/2020
Site Preparation	Tractors/Loaders/Blackhoes	97	1	8.0	8.0	Diesel	Tier 4f	11/2/2020	1/31/2021
	Excavators	158	3	8.0	8.0	Diesel	Tier 4f	11/2/2020	1/31/2021
	Road Cleaner/Sweepre/Scrubber	64	1	4.0	4.0	Diesel	Tier 4f	11/2/2020	1/31/2021
Grading	Rubber Tired Dozers	247	1	1.0	1.0	Diesel	Tier 4f	2/1/2021	4/30/2021
	Tractors/Loaders/Backoes	97	2	6.0	6.0	Diesel	Tier 4f	2/1/2021	4/30/2021
	Shoring Equipment (Boring Rigs)	221	2	2.4	2.4	Diesel	Tier 4f	2/1/2021	3/1/2021
	Tie Back Equipment (Drilling Rigs)	221	2	2.4	2.4	Diesel	Tier 4f	3/2/2021	3/30/2021
	Ground Improvement (Drilling Rig)	221	1	2.4	2.4	Diesel	Tier 4f	4/1/2021	4/30/2021
	Sweepers/Scrubbers	64	1	8.0	8.0	Diesel	Tier 4f	2/1/2021	4/3/2021
Building Construction	Cranes	231	1	3.0	3.0	Electric	N/A	8/1/2021	12/1/2022
	Forklifts	89	2	4.5	4.5	Propane	N/A	5/1/2021	12/31/2023
	Tractors/Loaders/Backoes	97	2	2.0	2.0	Diesel	Tier 4f	5/1/2021	12/31/2023
	Tower Crane	231	1	3.0	3.0	Electric	N/A	9/1/2021	5/1/2022
	Aerial Lifts (#1)	63	1	8.0	8.0	Electric	N/A	11/1/2021	3/1/2023
	Aerial Lifts (#2)	63	1	8.0	8.0	Electric	N/A	11/1/2021	5/1/2022
	Concrete Pumps	84	2	2.0	2.0	Electric	N/A	7/1/2021	10/1/2022
	Welders	46	6	0.80	0.80	Electric	N/A	5/1/2021	12/31/2023
Paving	Tractors/Loaders/Backhoes	97	1	5.3	5.3	Diesel	Tier 4f	11/1/2022	5/1/2023
	Concrete/Industrial Saws	81	2	2.0	2.0	Diesel	Tier 4f	11/1/2022	5/1/2023
Architectural Coating	Air Compressors	78	1	3.0	3.0	Electric	N/A	11/1/2021	1/1/2023

Notes: Project equipment was provided by the project sponsor.

Abbreviations:

N/A = not applicable  
 Tier 4f = Tier 4 Final  
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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
	Within six months of the completion of construction activities, the project sponsor shall submit to the ERO a final report summarizing construction activities. The final report shall indicate the start and end dates and duration of each construction phase. For each phase, the report shall include detailed information required in Paragraph 5. <i>Certification Statement and Onsite Requirements.</i> Prior to the commencement of construction activities, the project sponsor shall certify (1) compliance with the construction emissions minimization plan, and (2) all applicable requirements of the construction emissions minimization plan have been incorporated into contract specifications.							

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	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<b>M-AQ-9b Best Available Control Technology for Diesel Generators for 30 Van Ness Avenue Project.</b> The two proposed diesel generators shall have engines that meet Tier 4 Final emission standards and be fueled with renewable diesel, R99, if commercially available. The project sponsor shall limit testing of the emergency diesel generators to no more than 20 hours per year. Each diesel backup generator permit shall be submitted to the San Francisco Planning Department for review and approval prior to issuance of a permit for the generator from the San Francisco Department of Building Inspection. Once operational, all diesel backup generators shall be maintained in good working order for the life of the equipment and any future replacement of the diesel backup generators shall be required to be consistent with these emissions specifications. The project sponsor shall maintain records of the testing schedule for each diesel backup generator for the life of that diesel backup generator and provide this information for review to the planning department within three months of requesting such information.			X		Project sponsor.	Yearly on project site.	Planning department, department of building inspection.	Continuous.
<b>M-AQ-9c: Construction Emissions Minimization Plan for 98 Franklin Street Project.</b> Prior to construction, the 98 Franklin Street project sponsor shall submit a Construction Emissions Minimization Plan to the Environmental Review Officer (ERO) for review and approval by an Environmental Planning Air Quality Specialist. Upon approval of Plan, the sponsor shall implement the				X	Project sponsor.	Prior to the start of diesel equipment use on site.	Planning department (Environmental Review Officer, Air Quality technical staff) to review and approve.	Considered complete upon planning department review and acceptance of Construction Emissions Minimization Plan.

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
Plan. The plan shall detail project compliance with the following requirements: 6. All construction equipment shall contain engine tiers consistent with the United States Environmental Protection Agency (USEPA) engine tiers as provided in Table M-AQ-9c: Construction Equipment Summary for 98 Franklin Street Project, below. Documentation of equipment tiers for in-use equipment shall be maintained on site as part of the plan. 7. All off-road engines shall be fueled with renewable diesel (at least 99 percent renewable diesel or R99), if commercially available. 8. The project sponsor shall require the idling time for off-road and on-road equipment be limited to no more than two minutes, except as provided in exceptions to the applicable State regulations regarding idling for off-road and on-road equipment. Legible and visible signs shall be posted in multiple languages (English, Spanish, Chinese) in designated queuing areas and at the construction site to remind operators of the two minute idling limit. 9. The project sponsor shall require that construction operators properly maintain and tune equipment in accordance with manufacturer specifications.								

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<p>10. The construction emissions minimization 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. Off-road equipment descriptions and information 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.</p> <p>The construction emissions minimization plan shall be kept onsite and available for review during working hours by any persons requesting it and a legible sign shall be posted at the perimeter of the construction site indicating to the public the basic requirements of the construction emissions minimization plan and a way to request a copy of the Plan. The project sponsor shall provide copies of the Plan as requested. Should any deviations from the requirements or the equipment in Table M-AQ-9a be proposed prior to or during construction, the project sponsor shall demonstrate, to the satisfaction of the ERO, that an equivalent amount of emissions reduction would be achieved.</p> <p>Reporting. Quarterly reports shall be submitted to the ERO indicating the construction phase and off-road equipment information used during each phase including the information required in Paragraph 5, above.</p>								

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<p>Within six months of the completion of construction activities, the project sponsor shall submit to the ERO a final report summarizing construction activities. The final report shall indicate the start and end dates and duration of each construction phase. For each phase, the report shall include detailed information required in Paragraph 5.</p> <p>Certification Statement and Onsite Requirements. Prior to the commencement of construction activities, the project sponsor shall certify (1) compliance with the construction emissions minimization plan, and (2) all applicable requirements of the construction emissions minimization plan have been incorporated into contract specifications.</p>								

**TABLE M-AQ-9C: CONSTRUCTION EQUIPMENT SUMMARY FOR 98 FRANKLIN STREET PROJECT**

Phase	Project Equipment at Site	Horsepower	Equipment Quantity	Usage Hours per Weekday	Controlled Equipment Details		Equipment Usage Data	
					Fuel	Control	Start	End
Demolition	Concrete/Industrial Saws	81	1	8.0	Diesel	Tier 4i	6/1/2021	6/5/2021
	Excavators	67	1	8.0	Diesel	Tier 4i	6/1/2021	6/5/2021
	Rubber Tired Dozers	247	1	8.0	Diesel	Tier 4i	6/1/2021	6/5/2021
	Skid Steer Loaders	73	1	8.0	Diesel	Tier 4i	6/1/2021	6/5/2021
Shoring	Drill Rig	500	1	4.5	Diesel	Tier 4i	6/8/2021	8/7/2021
	Excavators	67	1	1.5	Diesel	Tier 4i	6/8/2021	8/7/2021
	Cranes	275	1	1.0	Diesel	Tier 4i	6/8/2021	8/7/2021
	Tieback rig	250	1	3.0	Diesel	Tier 4i	6/8/2021	8/7/2021
	Rough Terrain Forklift	100	1	1.0	Diesel	Tier 4i	6/8/2021	8/7/2021
	Generator	40	1	4.0	Diesel	Tier 4f	6/8/2021	8/7/2021
Excavation	Excavators	250	3	6.0	Diesel	Tier 4i	8/10/2021	10/30/2021
	Skid Steer Loaders	75	2	6.0	Diesel	Tier 4i	8/10/2021	10/30/2021
Building Construction	Cranes	231	1	3.0	Electric	N/A	11/2/2021	8/5/2023
	Forklifts	89	1	2.1	Propane	N/A	11/2/2021	8/5/2023
	Welders	46	2	0.16	Electric	N/A	11/2/2021	8/5/2023
	Sissor lifts	89	1	1.5	Electric	N/A	11/2/2021	8/5/2023
	Signal Boards	6.0	2	8.0	Electric	N/A	11/2/2021	8/5/2023
Paving	Pavers	130	1	4.0	Diesel	Tier 4i	8/1/2023	8/5/2023
	Rollers	50	1	4.0	Diesel	Tier 4i	8/1/2023	8/5/2023
Architectural Coating	Airless Paint Sprayers	78	3	4.0	Electric	N/A	1/7/2023	8/5/2023

Notes: Project equipment was provided by the project sponsor.

Abbreviations:

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<p><b>M-WI-1a: Wind Analysis and Minimization Measures for Subsequent Projects.</b> All projects proposed within the Hub Plan area that would have a roof height greater than 85 feet shall be evaluated by a qualified wind expert, in consultation with the San Francisco Planning Department, to determine their potential to result in a new wind hazard exceedance or aggravate an existing pedestrian-level wind hazard exceedance (defined as the one-hour wind hazard criterion with a 26 mph equivalent wind speed).</p> <p>If the qualified expert determines that wind-tunnel testing is required due to the potential for a new or worsened wind hazard exceedance, such testing shall be undertaken in coordination with San Francisco Planning Department staff, with results summarized in a wind report.</p> <p>The buildings tested in the wind tunnel may incorporate only those wind baffling features that can be shown on plans. Such features must be tested in the wind tunnel and discussed in the wind report in the order of preference discussed below, with the overall intent being to reduce ground-level wind speeds in areas of substantial use by people walking (e.g., sidewalks, plazas, building entries, etc.):</p> <ol style="list-style-type: none"> <li><b>Building Massing.</b> New buildings and additions to existing buildings shall be shaped to minimize ground-level wind speeds. Examples of these include setbacks, stepped facades,</li> </ol>	X		Complete	Complete	Project sponsor for projects with a roof height greater than 85 feet.	During the environmental review process for subsequent development projects.	In coordination with San Francisco Municipal Transportation Agency and San Francisco Public Works, the planning department to review and approve wind testing scope of work, wind report, and wind reduction measures.	Considered complete upon approval of final construction plan set.



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	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<p>and vertical steps in the massing to help disrupt downwashing flows.</p> <p>2. <i>Wind Baffling Measures on the Building and on the Project Sponsor's Private Property.</i> Wind baffling measures shall be included on future buildings and/or on the sponsor's private property to disrupt vertical wind flows along tower façades and through the project site. Examples of these may include staggered balcony arrangements on main tower façades, screens and canopies attached to the buildings, rounded building corners, covered walkways, colonnades, art, landscaping, free-standing canopies, or wind screens.<sup>6</sup></p> <p>Only after documenting all feasible attempts to reduce wind impacts via building massing and wind baffling measures on a building, shall the following be considered:</p> <p>3. <i>Landscaping and/or Wind Baffling Measures in the Public Right-of-Way.</i> Landscaping and/or wind baffling measures shall be installed to slow winds along sidewalks and protect places where people walking are expected to gather or linger. Landscaping and/or wind baffling measures shall be installed</p>								

<sup>6</sup> Solid windscreens have a greater effect at reducing the wind speeds to immediate leeward side of the screens; however, outside of this area of influence, the winds are either unaffected or accelerated. Porous windscreens have less of an impact to the immediate leeward side; however, they have an increased area of influence and are less likely to cause any accelerations of the winds further downwind.

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	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
on the windward side of the areas of concern (i.e., the direction from which the wind is blowing). <sup>7</sup> Examples of wind baffling measures may include street art to provide a sheltered area for people to walk and free-standing canopies and wind screens in areas where people walking are expected to gather or linger. If landscaping or wind baffling measures are required as one of the features to mitigate wind impacts, <i>Mitigation Measure M-WS-1b</i> (below) shall also apply.								
<b>M-WI-1b: Maintenance Plan for Landscaping and Wind Baffling Measures in the Public Right-of-Way.</b> If it is determined that an individual subsequent development project could not reduce additional wind hazards via massing or wind baffling measures on the subject building, the project sponsors shall prepare a maintenance plan for review and approval by the San Francisco Planning Department to ensure maintenance of the features in perpetuity.	X		X	X	Project sponsor for projects with a roof height greater than 85 feet.	During the environmental review process for subsequent development projects.	In coordination with San Francisco Municipal Transportation Agency and San Francisco Public Works, Planning department to review and approve.	Ongoing.

<sup>7</sup> Landscaping typically impacts winds locally; the larger the tree crown and canopy, the greater the area of influence. Tall, slender trees with little foliage have little to no impact on local winds speeds at ground level because of the height of the foliage above ground. Shorter street trees with larger canopies help reduce winds around them but their influence on conditions farther away is limited.

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	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<b>Biological Resources</b>								
<b>M-BI-1: California Fish and Game Code Compliance to Avoid Active Nests during Construction Activities:</b> For any project activities that result in removal or disturbance of existing trees through adjacent construction activities, tree project applicant(s) shall avoid impacts on nesting birds through compliance with the relevant California Fish and Game Code by implementing one or more of the following: <ul style="list-style-type: none"> <li>• Undertaking tree removal during the non-breeding season (i.e., September through January 15) to avoid impacts on nesting birds or conducting preconstruction surveys for work scheduled during the breeding season (March through August).</li> <li>• Conducting, by a qualified biologist, preconstruction surveys no more than 15 days prior to the start of work during the nesting season to determine if any birds are nesting in the vegetation to be removed or in the vicinity of the construction to be undertaken.</li> <li>• Avoiding any nests identified by a qualified biologist and establishing a construction-free buffer zone designated by a qualified biologist, which will be maintained until nestlings have fledged.</li> </ul>	X	X	X	X	Project sponsor.	Prior to and during construction.	Planning department to review and approve.	Considered complete upon completion of construction activities.

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	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<p><b>M-BI-2: Avoid Impacts on Special-status Bat Roosts during Construction Activities:</b> Project applicant(s) shall avoid impacts on maternity colonies or hibernating bats if identified by avoiding structural demolition between April 1 and September 15 (maternity season) and between October 30 and March 1 (hibernation) to the extent feasible. Bat roost avoidance shall be accomplished by the following steps:</p> <ul style="list-style-type: none"> <li>The project applicant(s) shall retain a qualified biologist to conduct a bat habitat assessment of the structures proposed for demolition. The assessment may be conducted at any time of year but should be conducted during peak bat activity periods (March 1–April 15, September 1–October 15) if possible. Qualified biologists shall have knowledge of the natural history of the species that could occur and sufficient experience related to determining bat occupancy in buildings and bat survey techniques. The biologist shall examine both the inside and outside of accessible structures for potential roosting habitat as well as routes of entry to the structures. If the biologist concludes that the building does not provide suitable bat roosting habitat, no further actions are necessary and work may commence. If the results of the survey are inconclusive or the biologist identifies potential roost sites, the following steps shall be implemented:</li> </ul>	X	X	X	X	Project sponsor for projects with large trees to be removed and/or vacant buildings to be demolished; qualified biologist.	Prior to issuance of demolition or building permits when trees would be removed or buildings demolished as part of an individual project.	Planning department to review and approve.	Considered complete upon issuance of demolition or building permits.

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<ul style="list-style-type: none"> <li>The project applicant(s) shall implement measures under the guidance of a qualified bat biologist to exclude bats from using the building as a roost site, such as sealing off entry points with one-way doors or enclosures. Installation of exclusion devices shall occur before maternity colonies establish or after they disperse, generally between March 1 and 30 or between September 15 and October 30, to preclude bats from occupying a roost site during demolition. Exclusionary devices shall be installed only by or under the supervision of an experienced bat biologist.</li> </ul> <p>The qualified biologist shall conduct a follow-up survey to confirm that the exclusion measures have excluded bats. If follow-up surveys determine that bats are still present, the biologist shall modify the exclusion measures to effectively exclude bats from the structure. Following successful exclusion of the bats and confirmation of their absence by the biologist, demolition or structural modification shall commence.</p>								
<p><b>Improvement Measure I-BI-2: Lighting Minimization during Hours of Darkness.</b> In compliance with the voluntary San Francisco Lights Out Program, the department could encourage buildings developed pursuant to the Hub Plan to implement bird-safe building operations to prevent or minimize bird-strike impacts, including, but not limited to, the following measures:</p>	X	X	X	X	Project sponsor.	Prior to issuance of building permits.	Planning department to review and approve.	Considered complete upon issuance of building permits.

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<ul style="list-style-type: none"> <li>• Reduce building lighting from exterior sources by:                             <ul style="list-style-type: none"> <li>○ Minimizing the amount and visual impact of perimeter lighting and façade uplighting and avoiding up-lighting on rooftop antennae and other tall equipment as well as of any decorative features</li> </ul> </li> <li>• Installing motion-sensor lighting                             <ul style="list-style-type: none"> <li>○ Using low-wattage fixtures to achieve required lighting levels</li> </ul> </li> <li>• Reduce building lighting from interior sources by:                             <ul style="list-style-type: none"> <li>○ Dimming lights in lobbies, perimeter circulation areas, and atria</li> <li>○ Turning off all unnecessary lighting by 11 p.m. through sunrise, especially during peak migration periods (mid-March to early June and late August to late October)</li> <li>○ Using automatic controls (motion sensors, photo-sensors, etc.) to shut off lights in the evening when no one is present</li> </ul> </li> <li>• Encouraging the use of localized task lighting to reduce the need for more extensive overhead lighting                             <ul style="list-style-type: none"> <li>○ Scheduling nightly maintenance to conclude by 11 p.m.</li> <li>○ Educating building users about the dangers of lighting to birds during hours of darkness</li> </ul> </li> </ul>								

**TABLE A: MITIGATION MEASURES ADOPTED AS CONDITIONS OF APPROVAL or TO BE ADOPTED AS CONDITIONS OF APPROVAL FOR SUBSEQUENT DEVELOPMENT PROJECTS WITHIN THE HUB PLAN AREA, AS DETERMINED TO BE APPLICABLE DURING SUBSEQUENT PROJECT REVIEW (TO BE IMPLEMENTED BY THE CITY AND COUNTY OF SAN FRANCISCO OR PROJECT SPONSORS)**

This table identifies Plan-level and Project-level mitigation measures to be implemented by the City and County of San Francisco, project sponsors of the 30 Van Ness Avenue and 98 Franklin Street Projects, or project sponsors for subsequent development projects in the Hub Plan area. The project applicability columns indicate which project is required to implement a given mitigation measure. For subsequent development projects in the Hub Plan area, during subsequent environmental review, the Planning Department would determine the applicability of each measure and prepare a project-specific Mitigation and Monitoring Reporting Program to be adopted with each subsequent project.

Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
	Hub Plan Subsequent Projects and Hub HSD <sup>1</sup>	Hub Plan Streetscape and Street Network Improvements	30 Van Ness Avenue Project	98 Franklin Street Project				
<b>Geology and Soils</b>								
<p><b>M-GE-1: Inadvertent Discovery of Paleontological Resources.</b>                      Before the start of any excavation activities, the project applicant(s) shall retain a qualified paleontologist, as defined by the Society of Vertebrate Paleontology, who is experienced in teaching non-specialists. The qualified paleontologist shall train all construction personnel who are involved with earthmoving activities, including the site superintendent, regarding the possibility of encountering fossils, the appearance and types of fossils that are likely to be seen during construction, the proper notification procedures should fossils be encountered, and the laws and regulations protecting paleontological resources. The qualified paleontologist shall also make periodic visits during earthmoving at high sensitivity sites to verify that workers are following the established procedures. If potential vertebrate fossils are discovered by construction crews, all earthwork or other types of ground disturbance within 25 feet of the find shall stop immediately, and the monitor shall notify the project sponsor, the qualified paleontologist, and the Environmental Review Officer.</p> <p>The fossil shall be protected by an “exclusion zone” (an area approximately 5 feet around the discovery that is marked with caution tape to prevent damage to the fossil). Work in the affected area shall not resume until a qualified professional paleontologist can assess the nature and importance of the find. Based on the</p>	X	X	X	X	Project sponsor; qualified paleontologist.	Before the start of any excavation activities.	Planning department to review and approve.	Ongoing during construction. Considered complete once ground disturbing activities are complete or once the planning department approves the recovery plan, if required.

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Mitigation Measures	Project Applicability				Responsibility for Implementation	Mitigation Schedule	Monitoring/Report Responsibility	Status/Date Completed
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scientific value or uniqueness of the find, the qualified paleontologist may record the find and allow work to continue or recommend salvage and recovery of the fossil. The qualified paleontologist may also propose modifications to the stop-work radius, based on the nature of the find, site geology, and the activities occurring on the site. If treatment and salvage is required, recommendations shall be consistent with Society of Vertebrate Paleontology’s 2010 Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources, as well as currently accepted scientific practice, and subject to review and approval by the Environmental Review Officer. If required, treatment for fossil remains may include preparation and recovery so they can be housed in an appropriate museum or university collection (e.g., the University of California Museum of Paleontology). This may also include preparation of a report for publication describing the finds. The department shall ensure that information on the nature, location, and depth of all finds is readily available to the scientific community through university curation or other appropriate means. The project sponsor shall be responsible for ensuring that the paleontologist’s recommendations regarding treatment and reporting are implemented, including the costs necessary to prepare and identify collected fossils and any curation fees charged for university or museum storage.								