MITIGATION MONITORING AND REPORTING PROGRAM

SCH# 2014051061

LAC+USC MEDICAL CENTER CAMPUS MASTER PLAN

PREPARED FOR:

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Mitigation Monitoring and Reporting Program

CEQA requires agencies that adopt EIRs to take affirmative steps to determine that approved mitigation measures are implemented after project approval.

As part of CEQA's environmental review procedures, Section 21081.6 requires a public agency to adopt a reporting or monitoring program for assessing and ensuring efficacy of any mitigation measures applied to a proposed project. Specifically, the lead or responsible agency must adopt a reporting or monitoring program for mitigation measures incorporated into a project or imposed as conditions of approval. The program must be designed to ensure compliance during project implementation. As stated in Public Resources Code Section 21081.6 (a) (1):

The public agency shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation. For those changes which have been required or incorporated into the project at the request of a responsible agency or a public agency having jurisdiction by law over natural resources affected by the project, that agency shall, if so requested by the lead agency or a responsible agency, prepare and submit a proposed reporting or monitoring program.

CEQA Section 15097 provides general guidelines for implementing mitigation monitoring and reporting programs (MMRPs). Specific reporting and/or monitoring requirements, which are to be enforced during project implementation, shall be defined prior to final approval of the proposal by the responsible decision maker(s). In response to established CEQA requirements and those of Public Resources Code Section 21000 et seq., the MMRP for the proposed project shall be submitted for adoption by the decision makers prior to completion of the environmental review process. Under each identified resource, the mitigation measure(s) identified in the draft EIR and the implementation and monitoring requirements are discussed. The implementation and monitoring requirements set forth in this MMRP are as follows:

- Party Responsible for Implementation of Mitigation;
- Implementation Phase;
- Party Responsible for Monitoring Implementation;
- Monitoring Activity
- Monitoring Period;
- Monitoring Frequency; and
- Outside Agency Coordination.

Mitigation is required to address significant or potentially significant impact(s) in the following issue areas:

- Air Quality
- Cultural Resources
- Greenhouse Gas Emissions
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Public Services
- Noise
- Transportation and Traffic and
- Utilities

The table below presents the MMRP for the proposed project.

Mitigation Monitoring and Reporting Program

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
MM-AES-1: All new development proposed under the master plan shall be sited and designed to ensure that those views identified as important by the County are not obstructed.	County of Los Angeles and its contractors	Pre-design, design, and construction	County of Los Angeles	1. Check prior to development of plans for individual development projects that the County has identified important views to be protected that could be affected by proposed development projects. 2. Check building design specifications during preparation of final design bid packages to ensure mitigation measure have been identified in specifications for projects that may obstruct views identified as important by County. 3. Check building plans at least once during design to confirm compliance with design specifications intended to avoid obstruction of important views. 4. Periodically inspect construction sites, as necessary, to confirm compliance with plans and mitigation measure.	None
MM-AQ-1: To reduce VOC emissions during construction, the County (or its contractors) shall use low-VOC coatings that go beyond the requirements of SCAQMD Rule 1113 and have a VOC content of 10 g/L or less during construction.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure use of low-VOC coatings are specified. 2. Periodically inspect construction sites, as necessary, to confirm use of low-VOC coatings.	None
MM-AQ-2: To reduce NO_X emissions during construction, the County (or its contractors) shall ensure that all off-road diesel-powered equipment used during construction will be equipped with an EPA Tier 4 Interim engine, except for specialized construction equipment in which an EPA Tier 4 Interim engine is not available. The use of Tier 4 Interim engines will also act to reduce ROG and PM emissions from construction equipment.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure use of EPA Tier 4 Interim engines have been specified. 2. Periodically inspect construction sites, as necessary, to confirm use of EPA Tier 4 Interim engine equipment.	None

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MM-AQ-3: To reduce NO_X and PM emissions during construction, the County (or its contractors) shall implement the following measures during construction. • Haul and delivery truck idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to less than 3 minutes (beyond that required by the California airborne toxics control measure, 13 California Code of Regulations [CCR] 2485). Clear signage shall be provided for construction workers and construction vehicles at all access points. • All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation. • A traffic control plan shall be prepared. • A carpool program for construction workers, including incentivizing carpooling as well as providing bus service for crew members, shall be implemented. • Truck deliveries shall be consolidated when possible.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-AQ-3 have been specified. 2. Periodically inspect construction sites, as necessary, to confirm compliance with signage, equipment maintenance, and truck delivery mitigation measures. 3. Check once during construction to confirm a carpool program has been implemented by construction contractor.	None
MM-BIO-1: To avoid impacts on roosting bats, preconstruction surveys shall be conducted prior to the on-set of work within the vicinity of vacant buildings and prior to tree removal. During surveys, biologists shall avoid unnecessary disturbance of potentially occupied roosts. Full-spectrum acoustic detectors shall be used during emergence surveys to assist in species identification. If it is determined that trees or structures in the	County of Los Angeles	Pre-construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified biologist has been hired and is under contract to conduct preconstruction surveys, installation of exclusion devices, and monitoring of roost tree removal or trimming. 2. Check once prior to construction to confirm that pre-construction surveys have been conducted.	CDFW

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project area are being used by bats as roost sites, the following protective measures shall be implemented: • Disturbance of maternity roosting structures or trees (e.g., structure removal, construction equipment operation near roosts, tree trimming or removal) shall not occur during the maternity period (April 15 to September 15) to avoid impacts on reproductively active females and active maternity roosts (whether colonial or solitary). The maternity roost shall remain undisturbed from the time it is located until the following September 15 or until a qualified biologist has determined the roost is no longer active. No construction work shall occur at the roost or within a 100-foot-wide buffer zone (or an alternative width, as determined in consultation with CDFW) until September 15. • Exclusion devices may be installed outside of the maternity period (September 16 to April 14) to preclude bats from occupying buildings during, or prior to the on-set of, construction. Exclusionary devices shall be installed only by or under the supervision of an experienced bat biologist. Eviction of bats roosting in trees outside the maternity season shall be done in favorable weather under the supervision of a qualified bat biologist and adhering to the following two-step removal process: o On Day 1, for trees with cavities, crevices, and exfoliating bark, and that are found to support roosting bats, Step 1 would be the removal of branches and limbs with no cavities. These limbs shall be removed by hand				3. Check periodically, as necessary, to confirm that no construction occurs near identified roosts during the maternity period. 4. If exclusion devices are proposed, check to ensure they have been installed by or under the supervision of an experienced bat biologist. 5. Check to confirm that removal of roost trees is monitored by a qualified biologist.	

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(e.g., using chainsaws). This will create a disturbance (noise and vibration) and physically alter the tree. Bats roosting in the tree, which may not have been detected during the preconstruction survey, will either abandon the roost immediately (rarely) or, after emergence, will avoid returning to the roost. For foliage roosting bats, Step 1 would be to remove adjacent, smaller, or non-habitat trees to create noise and vibration disturbance that would cause abandonment. On Day 2, under the supervision of a qualified biological monitor familiar with the life history of subject bat species, the tree may be removed. o Qualified biologists should search all downed roost trees for dead and injured bats. The presence of dead or injured bats that are species of special concern shall be reported to CDFW. • Non-maternity roost trees should ideally be removed or trimmed in the fall between September 16 and October 31. If the removal of non-maternity roost trees cannot be timed to occur within this period, tree trimming and removal of non-maternity roost trees shall be timed to avoid periods of inclement or unseasonably cold weather to avoid impacts on bats in torpor (a period of seasonal inactivity). In all circumstances, qualified biologists shall monitor non-maternity tree removal.					

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MM-BIO-2: The County shall avoid the nesting season for birds or conduct preconstruction nesting bird surveys if construction activities are carried out during the nesting season. To ensure compliance with the MBTA and similar provisions under Sections 1600–1616 of the California Fish and Game Code, the County of Los Angeles, through the general contractor, shall conduct all vegetation removal during the non-breeding season, between September 1 and February 14, or implement the following: • If the removal of vegetation, demolition of buildings, or noise-generating construction activities are scheduled between February 15 and August 31, the County of Los Angeles Department of Public Works or the construction contractor shall retain a qualified biologist (i.e., experienced with conducting nesting bird surveys) who shall conduct a focused nesting bird survey prior to the start of vegetation removal, building demolition, or noise-generating activities within any potential nesting habitat (i.e., all vegetation, buildings, eaves on buildings, etc.). The size of the nesting bird survey area shall be determined by a qualified biologist at the time of the survey and include the entire limits of disturbance. It may also include a buffer area if deemed necessary by the biologist. The preconstruction nesting bird surveys shall be conducted no more than 7 days prior to initiation of vegetation removal, building demolition, or noise-generating construction activities. If no active nests are detected during these surveys, no restrictions on project activities shall be necessary.	County of Los Angeles	Pre-construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified biologist has been hired and is under contract to conduct preconstruction surveys, and if nests are found, a buffer around the nests has been flagged and established. 2. Check once prior to construction to confirm that pre-construction surveys have been conducted. 3. Check periodically, as necessary, to confirm that no construction occurs near identified nests during the breeding season. 4. If nests have been identified, check to ensure they have been flagged and that no construction activities occur within the buffer zone of the nest, until the qualified biologist has determined that the young have fledged or that the nest is no longer active. 5. Check to confirm that the qualified biologist has submitted results of the pre-construction survey to the County of Los Angeles Department of Public Works for review and approval of the recommended nest buffer area.	None

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• If active nests are found, a qualified biologist shall identify and flag an appropriate buffer around the nest, and no construction activities shall occur within the buffer until the qualified biologist has determined that the young have fledged or the nest is no longer active. The specific buffer width shall be determined by a qualified biologist at the time of discovery and vary according to the bird species, site conditions, and the type of work activities to be conducted. The survey results shall be submitted to County of Los Angeles Department of Public Works for review and approval of the recommended nest buffer areas, if any, prior to the commencement of any vegetation removal, building demolition, or noise-generating construction activities on the project site.					
MM BIO-3: Prior to the removal of any trees, a qualified arborist shall inventory native oak trees on the project site to support the application regarding the impacts on oak trees. Oak tree permit requests require a property owner to file an application with the Department of Regional Planning and provide a filing fee, an oak tree report, site plans for the property, and maps of the surrounding area. The oak tree report shall include information about the protection of oak trees that may be adjacent to construction activities that are to remain. The oak tree report shall also include the proposed replanting plan, in accordance with the required replacement ratio, for any oak trees that are to be removed.	County of Los Angeles	Pre-construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified arborist has been hired and is under contract to inventory native oak trees on the proposed project site to support any required oak tree permit request application, and prepare an oak tree report. 2. Check once prior to construction to confirm that a pre-construction oak tree inventory has been conducted. 3. Check once prior to construction to confirm that an oak tree report has been prepared by a qualified arborist. The oak tree report shall include information about the protection of oak trees to remain adjacent to construction activities as well as a proposed replanting plan, in accordance with the County's replacement ratio.	Department of Regional Planning

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				4. Check once prior to tree removal to confirm that the necessary oak tree permits have been filed and requested with the County Department of Regional Planning.	
MM-CR-1: Prior to the removal of or alterations to the 1933 retaining walls or the overall setting of State Street, which are considered character-defining features of the General Hospital/Acute Unit setting, documentation of these features of the General Hospital setting in a manner that meets Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) standards shall be prepared. This shall include photographs and drawings of the current conditions, including State Street, the retaining walls, the forecourt, and the ancillary buildings. Preservation of the character-defining features shall be attempted.	County of Los Angeles	Pre-construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified architectural historian with HABS/HAER experience has been hired and is under contract to document the 1933 retaining walls and overall setting of State Street, as character-defining features of the General Hospital/Acute Unit setting in a manner that meets HABS/HAER standards. 2. Check once prior to construction to confirm that photographs and drawings of the current conditions, including State Street, the retaining walls, the forecourt, and the ancillary buildings have been produced per HABS/HAER standards.	None
MM-CR-2: Prior to demolition of the Women's and Children's Hospital, documentation of this property to HABS/HAER standards shall be prepared. Character-defining features shall be called out, and a historic context for this building shall be prepared.	County of Los Angeles	Pre-construction and prior to demolition or alterations to the Women's and Children's Hospital	County of Los Angeles	1. Check once prior to construction to confirm that a qualified architectural historian with HABS/HAER experience has been hired and is under contract to document the Women's and Children's Hospital to HABS/HAER standards. 2. Check once prior to demolition or alterations to the Women's and Children's Hospital to confirm that character-defining features have been called out and a historic context for this building has been prepared, per HABS/HAER standards.	None

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MM-CR-3: A protection plan for the viaduct/tunnel shall be prepared prior to the construction of any master plan project that would occur in the immediate vicinity of the viaduct/tunnel. This protection plan shall be prepared by a qualified historic preservation specialist who shall document the current condition of this structure before any construction begins and monitor the structure during construction.	County of Los Angeles	Pre-construction and during construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified historic preservation specialist has been hired and is under contract to prepare a protection plan for the viaduct/tunnel. 2. Check once prior to construction to confirm that a protection plan for the viaduct/tunnel has been prepared by a qualified historic preservation specialist to document the current condition of the structure before any construction begins and includes a monitoring plan for the structure during construction. 3. Check periodically during construction to confirm a qualified historic preservation specialist is monitoring the viaduct/tunnel structure per the protection plan.	None
MM-CR-4: A historic structures report shall be prepared that identifies the character-defining features of the old Administration Building and the Pharmacy/Service Building, which will provide the basis for preparation of a protection and preservation plan for these buildings. The preservation and protection plan shall be prepared by a qualified historic preservation consultant who will document the current condition of the buildings and monitor the condition of the buildings during any construction activities.	County of Los Angeles	Pre-construction and during construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified historic preservation specialist has been hired and is under contract to prepare a historic structures report and a preservation and protection plan for the old Administration Building and the Pharmacy/Service Building. 2. Check once prior to construction to confirm that a historic resources report and a protection plan for the old Administration Building and the Pharmacy/Service Building have been prepared by a qualified historic preservation specialist. The historic structures report shall identify the character defining features of these buildings and provide the basis for	None

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				preparation of a protection and preservation plan for these buildings. The preservation and protection plan shall document the current condition of the buildings and guide monitoring of the condition of the buildings during construction activities. 3. Check periodically during construction to confirm a qualified historic preservation specialist is monitoring the old Administration Building and the Pharmacy/Service Building per the preservation and protection plan.	
MM-CR-5: The County shall consult with a qualified historic preservation consultant to determine appropriate street and walkway lighting that both enhances the historic setting of General Hospital and provides sufficient illumination. All new material, such as streetlights, benches, bollards, and other street/landscape furniture, shall be chosen in consultation with the historic preservation expert and meet the Secretary of the Interior's Standards.	County of Los Angeles and its contractors	Pre-construction and during construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified historic preservation specialist has been hired and is under contract to review the proposed types of street and walkway lighting, benches, bollards, and other street/landscape furniture, so that it enhances the setting of General Hospital and provides sufficient illumination, and is complaint with the Secretary of the Interior's Standards. 2. Check construction specifications during preparation of construction bid packages to ensure use of appropriate street and walkway lighting, benches, bollards, and other street/landscape furniture per recommendations by the qualified historic preservation specialist and the Secretary of the Interior's Standards has been specified. 3. Periodically inspect construction sites, as necessary, to confirm use of appropriate street and walkway	None

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				lighting, benches, bollards, and other street/landscape furniture per recommendations by the qualified historic preservation specialist and the Secretary of the Interior's Standards.	
MM-CR-6: Prior to proceeding with construction of individual development projects that could adversely affect properties 50 years of age or older on the medical center campus, the County shall evaluate those properties to determine their eligibility for the CRHR and/or NRHP.	County of Los Angeles	Prior to construction of individual development projects that could adversely affect properties 50 years of age or older on the LAC+USC Medical Center campus	County of Los Angeles	1. Check prior to construction of any individual development project that could adversely affect properties 50 years of age or older on the LAC+USC Medical Center campus, that a qualified architectural historian has been hired is under contract to evaluate those properties. 2. Check once prior to construction of each individual development project that could adversely affect properties 50 years of age or older on the LAC+USC Medical Center campus to confirm that those properties have been evaluated to determine their eligibility for the CRHR and/or NRHP.	None
MM-CR-7: An updated State of California Department of Parks and Recreation (DPR) 523 form shall be prepared by a qualified architectural historian, historian, or historical architect for General Hospital and its setting that specifically identifies the contributing and non-contributing features of the historic General Hospital and its setting. The DPR 523 form shall be prepared prior to undertaking of any work within the setting of General Hospital that could adversely affect this historic resource.	County of Los Angeles	Prior to any construction activity within the setting of General Hospital that could adversely affect this historic resource	County of Los Angeles	1. Check once prior to construction to confirm that a qualified architectural historian, historian, or historical architect has been hired and is under contract to prepare an updated DPR 523 form identifying the contributing and non-contributing features of the historic General Hospital and its setting. 2. Check once prior to construction activity within the setting of General Hospital that could adversely affect this historic resource to confirm that the updated DPR 523 form identifying the contributing and non-contributing features of the historic General Hospital and its setting has been prepared.	None

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MM-CR-8: Prior to any demolition, grading, or excavation related to the construction of facilities or improvements under the master plan, a qualified archaeologist shall be retained by the County or construction contractor to determine which areas shall require cultural resources monitoring during initial ground disturbance. The location of construction activities that are likely to encounter subsurface sediments with archaeological sensitivity shall be determined by the qualified archaeologist upon review of project excavation and grading plans. If determined necessary, monitoring by a qualified archaeologist shall be conducted in the project area during all initial ground-disturbing activities. If, during cultural resources monitoring, the archaeologist determines that the sediments being excavated have been previously disturbed and are unlikely to contain significant cultural materials, the archaeologist shall request that monitoring be reduced or eliminated. Spot-check monitoring shall occur during all construction, on a schedule determined by the project archaeologist. If buried cultural resources such as trash deposits, building foundations, privy pits, flaked or ground stone, or human remains are inadvertently discovered during ground-disturbing activities, work shall stop in that area and within 100 feet of the find. Treatment measures for items that are not associated with human remains typically include development of avoidance strategies, capping with fill material, or mitigation of impacts through data recovery programs such as excavation or detailed documentation.	County of Los Angeles and its contractors	Pre-construction and during construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified archaeologist has been hired and is under contract to determine which areas on the campus shall require cultural resources monitoring during initial ground disturbance. 2. Check once prior to construction to confirm that the qualified archaeologist has reviewed the project excavation and grading plans and determined the location of any construction activities that are likely to encounter subsurface sediments with archaeological sensitivity. 3. Check periodically during construction, as necessary, to confirm that a qualified archaeologist is monitoring all initial ground-disturbing activities at sites previously determined likely to encounter subsurface sediments with archaeological sensitivity. 4. Spot-check monitoring periodically during all construction, on a schedule determined by the project archaeologist.	None

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MM-CR-9: Prior to any excavation related to the construction of facilities or improvements proposed under the master plan, a qualified vertebrate paleontologist with a graduate degree and more than 10 years of experience shall be retained by the County or construction contractor to determine areas that shall require paleontological monitoring during initial ground disturbance. The locations for construction activities, especially excavation for the proposed parking garages, which is likely to encounter subsurface sediments with high paleontological sensitivity, shall be determined by the qualified paleontologist upon review of project excavation and grading plans. Very shallow surficial excavations (i.e., less than 5 feet in depth) within areas of previous disturbance or areas of Quaternary younger alluvial deposits shall be monitored on a part-time basis to ensure that underlying sensitive units (i.e., Quaternary older alluvium) are not adversely affected. Areas consisting of artificial fill materials shall not require monitoring. If excavations for the project take place in Quaternary older alluvial deposits or within Fernando or Puente Formation bedrock, such excavations shall be monitored on a full-time basis by a qualified paleontological monitor and under the supervision of the qualified paleontologist. The paleontological resource monitoring shall include inspection of exposed rock units during active excavations within the geologically sensitive sediments. Monitoring may be reduced if some of the potentially fossiliferous units described herein are, upon exposure and examination by qualified paleontologic personnel, determined to have a low potential for containing fossil resources.	County of Los Angeles and its contractors	Pre-construction and during construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified vertebrate paleontologist with a graduate degree and more than 10 years of experience has been hired and is under contract to determine which areas on the campus shall require paleontological monitoring during initial ground disturbance. 2. Check once prior to construction to confirm that the qualified paleontologist has reviewed the project excavation and grading plans and determined the location of any construction activities, such as excavation for the proposed parking garages, which are likely to encounter subsurface sediments with high paleontological sensitivity. 3. Check periodically during construction, to confirm that the qualified paleontologist is monitoring very shallow surficial excavations (i.e., less than 5 feet in depth) within areas of previous disturbance or areas of Quaternary younger alluvial deposits on a part-time basis, to ensure that underlying sensitive units (i.e., Quaternary older alluvium) are not adversely affected. Areas consisting of artificial fill materials shall not require monitoring. 4. Check periodically during construction, to confirm that the qualified paleontologist is monitoring excavations for the project that take place in Quaternary older alluvial deposits or within Fernando or Puente Formation bedrock, on a full-	None

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The paleontologic monitors shall be equipped to salvage fossils as they are unearthed to avoid construction delays and remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. The monitor shall have authority to temporarily divert grading away from exposed fossils to recover the fossil specimens professionally and efficiently and collect associated data. All efforts to avoid delays in project schedules shall be made. To prevent construction delays, paleontological monitors shall be equipped with the necessary tools for the rapid removal of fossils and retrieval of associated data. This equipment shall include handheld global positioning system receivers, digital cameras, and cell phones as well as a tool kit with specimen containers, matrix sampling bags, field labels, field tools (e.g., awls, hammers, chisels, shovels, etc.), and plaster kits. At each fossil locality, field data forms shall be used to record pertinent geologic data, stratigraphic sections shall be measured, and appropriate sediment samples shall be collected and submitted for analysis. Fossils collected, if any, shall be transported to a paleontological laboratory for processing where they shall be prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility (such as LACM). Following analysis, a Report of Findings with an appended itemized inventory of specimens shall be prepared. The report and inventory, when submitted to the				time basis. The paleontological resource monitoring shall include inspection of exposed rock units during active excavations within the geologically sensitive sediments. Monitoring may be reduced if some of the potentially fossiliferous units described herein are, upon exposure and examination by qualified paleontologic personnel, determined to have a low potential for containing fossil resources. 5. Check periodically to confirm the qualified paleontologist has recovered any encountered fossil material per the protocol listed in this Measure MM-CR-9 and if any fossils have been collected during construction, that they have been transported to a paleontological laboratory for processing. 6. Check periodically to confirm any found fossils from the project site sent to a paleontological laboratory have been prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility. 7. Check once to confirm that the qualified paleontologist has prepared, for the County of Los Angeles, a Report of Findings with an appended itemized inventory of specimens, and a confirmation of the curation of recovered specimens into an established, accredited museum repository.	

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appropriate lead agency along with confirmation of the curation of recovered specimens into an established, accredited museum repository, shall signify completion of the program to mitigate impacts on paleontological resources.					
MM-CR-10: In the event that human remains are uncovered, construction plans shall specify that construction shall halt in the area of discovery, the area shall be protected, and no further disturbance shall occur, as specified by State Health and Safety Code Section 7050.5. The County coroner shall determine the origin and disposition of the human remains pursuant to PRC Section 5097.98. If the coroner recognizes the remains to be Native American, he or she shall contact the NAHC within 24 hours. For remains of Native American origin, no further excavation or disturbance shall take place until the most likely descendant of the deceased Native American(s) has made a recommendation to the landowner or the person responsible for the excavation work regarding the means for treating or disposing of the human remains and any associated grave goods, with appropriate dignity, as provided by PRC Section 5097.9. In consultation with the most likely descendant, the project archaeologist and the project proponent shall determine a course of action regarding preservation or excavation of Native American human remains, and this recommendation shall be implemented expeditiously. If the NAHC is unable to identify a most likely descendant or the descendant fails to make a recommendation within 48 hours after being notified by the commission, the project archaeologist and the	County of Los Angeles and its contractors	Pre-construction and during construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-CR-10 have been. 2. Check as necessary during construction, to confirm that in the event that human remains are uncovered, construction has been halted in the area of discovery and the area protected per State Health and Safety Code Section 7050.5. Confirm that the County coroner has been notified to determine the origin and disposition of the human remains pursuant to PRC Section 5097.98. 3. Check periodically during construction, as necessary, to confirm the NAHC has been notified within 24 hours and all coordination protocol listed under this mitigation measure has been followed, in the event that the coroner determined the remains to be Native American.	Native American Heritage Commission

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project proponent shall determine a course of action regarding preservation or excavation of Native American human remains, which shall be submitted to the NAHC for review prior to implementation.					
MM-GEO-1: All recommendations included in the preliminary geotechnical evaluation prepared for the proposed project (see Appendix D) shall be followed. A detailed subsurface geotechnical evaluation shall be performed to address site-specific conditions at the locations of the planned improvements and provide detailed recommendations for design and construction. The geotechnical evaluation shall include the following measures to mitigate potential fault rupture, seismic ground shaking, and liquefaction hazards identified under Impacts GEO-1 and GEO-2. • *Seismicity*: Structural elements of future improvements shall be designed to resist or accommodate appropriate site-specific ground motions and conform to the current seismic design standards. • *Liquefaction*: An assessment of the liquefaction potential shall be made prior to detailed design and construction of project improvements. Structural design and mitigation techniques, such as in situ ground modification or supporting foundations with piles at depths designed specifically for liquefaction, shall be included. To evaluate the potential for liquefaction, subsurface evaluation may be performed. Site-specific geotechnical evaluations that assess the liquefaction and dynamic settlement characteristics of the on-site	County of Los Angeles and its contractors	Pre-construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified geotechnical engineer has been hired and is under contract to perform a detailed subsurface geotechnical evaluation to address site-specific conditions at the locations of the planned improvements and provide detailed recommendations for design and construction. 2. Check once prior to awarding contract for geotechnical engineering to confirm geotechnical engineer's scope of work includes all of the measures listed in Mitigation Measure MM-GEO-1, as necessary to investigate and identify appropriate design and construction measures to mitigate potential risks of seismicity, liquefaction, groundwater, collapsible soils/settlement, expansive soils, and corrosive soils. 3. Check design plans to ensure conformance with geotechnical evaluation recommendations. 4. Inspect construction site periodically to confirm compliance with plans.	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
soils shall include the drilling of exploratory borings, evaluation of groundwater depths, and laboratory testing of soils. Methods for construction in areas with a potential liquefaction hazard may include in situ ground modification, removal of liquefiable layers and replacement with compacted fill, or support of project improvements on piles at depths designed specifically for liquefaction. Pile foundations can be designed for a liquefaction hazard by supporting the piles on dense soil or bedrock located below the liquefiable zone or employing other appropriate methods, as evaluated during the site-specific evaluation. Additional recommendations for mitigation pertaining to liquefaction may include densification by installation of stone columns, vibration, deep dynamic compaction, and/or compaction grouting. The geotechnical evaluation shall include the following measures to mitigate unstable soil impacts identified under Impact GEO-3. • *Groundwater*: Excavations for foundations in areas with shallow perched groundwater may need to be cased/shored and/or dewatered to maintain stability of the excavations and provide access for construction. All recommendations included in the preliminary geotechnical evaluation pertaining to groundwater shall be followed. Excavations for underground structures will need to be performed with care to reduce the potential for lateral deflection					

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
of excavation sidewalls and/or shoring, which may also cause differential movement of structures located near the excavation. Further study, including subsurface exploration, shall be performed during the detailed design phase of future improvements to evaluate the presence of groundwater, seepage, and/or perched groundwater at the site and the potential impacts on design and construction of project improvements. An assessment of the potential for shallow groundwater shall be made during the design phase of the project, and mitigation techniques shall be developed as necessary. • *Collapsible Soils/Settlement*: An assessment of the potential for soils that are prone to settlement shall be made prior to detailed design and construction of project improvements, and mitigation techniques shall be developed, as appropriate, to reduce impacts related to settlement to low levels. During the detailed design phase of the project, surface reconnaissance and site-specific geotechnical evaluations shall be performed to assess the settlement potential of the on-site natural soils and undocumented fill. This may include detailed surface reconnaissance to evaluate site conditions, drilling of exploratory borings or test pits, and laboratory testing of soils, where appropriate, to evaluate site conditions. Prescribed mitigation measures for soils with the potential for settlement shall include either removal of the compressible/collapsible soil layers and replacement with compacted fill,					

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
surcharging to induce settlement prior to construction of improvements, allowing for a settlement period after or during construction with new fills, or a specialized foundation design, including the use of deep foundation systems to support structures. Varieties of in situ soil improvement techniques are also available, such as dynamic compaction (heavy tamping) or compaction grouting. The geotechnical evaluation shall include the following measures to mitigate the expansive and corrosive soils hazards identified under Impact GEO-4. • *Expansive Soils*: Mitigation techniques to reduce expansive soil potential shall be included as necessary. Techniques shall include overexcavation and replacement with non-expansive soil, soil treatment, moisture management, and/or a specific structural design for expansive soil conditions developed during the design phase. • *Corrosive Soils*: An assessment of the potential for corrosive soils shall be made during the detailed design phase of the project through soil testing procedures. Mitigation techniques shall be developed, as appropriate, to reduce impacts related to corrosive soils to low levels. Subsurface evaluation, including laboratory testing, shall be performed. Evaluation of the corrosive soil potential shall be accomplished through testing and analysis of soils at foundation design depths. The laboratory tests conducted on the soils prior to construction and improvement plan preparation shall include corrosivity tests.					

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
Review of these data by a corrosion engineer will result in corrosion protection measures that will be suitable to the project elements. Evaluation of the potential corrosive soils hazard shall be performed prior to detailed design and construction so that, in the event the hazard exists, mitigation techniques may be implemented. To avoid site-specific subsurface evaluation, corrosion protection measures may be included in the initial design for the proposed project improvements. Mitigation for corrosive soil conditions may involve the use of concrete that is resistant to sulfate exposure. Corrosion protection for metals may be needed for underground foundations or structures in areas where corrosive groundwater or soil could cause deterioration. Typical mitigation techniques include epoxy and metallic protective coatings, the use of alternative (corrosion-resistant) materials, and selection of the appropriate type of cement and water/cement ratio.					
MM-GEO-2: All earthwork and grading shall be performed in accordance with the recommendations in the SWPPP and the Construction Activities Stormwater General Permit. Additionally, BMPs related to ongoing drainage design and maintenance practices shall be included in the SWPPP and implemented to reduce soil erosion during operation of the proposed project. The BMPs shall include design procedures such as a surface drainage design for roadways and facilities to provide for positive surface runoff and reduce concentrated runoff conditions. Other examples of BMPs include the use of erosion prevention mats or geofabrics, silt fencing, sandbags and plastic sheeting, and temporary drainage devices.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to confirm all measures listed as part of MM-GEO-2 have been specified. 2. Periodically inspect construction sites, as necessary, to confirm compliance with surface drainage design and stormwater runoff mitigation per the SWPPP and Stormwater General Permit, as well as implementation of BMPs.	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
MM-GHG-1. To reduce GHG emissions during operations, the County shall incorporate the following mitigation measures into the design of each new element, as practicable. • Maximize use of solar energy including solar panels; installing the maximum possible number of solar energy arrays on the building roofs and/or on the Project site to generate solar energy for the facility. The project applicant should commit to applying to the local utility to install the maximum number of solar panels possible. • Require all lighting fixtures, including signage, to be state-of-the art and energy efficient, and require that new traffic signals have light-emitting diode (LED) bulbs and require that light fixtures be energy efficient compact fluorescent and/or LED light bulbs. Where feasible use solar powered lighting. • Maximize the planting of trees in landscaping and parking lots. • Use passive heating, natural cooling, solar hot water systems, and reduced pavement. • Utilize only Energy Star heating, cooling, and lighting devices, and appliances. • Install light colored "cool" roofs and cool pavements. • Limit the use of outdoor lighting to only that needed for safety and security purposes. • Require use of electric lawn mowers and leaf blowers. • Require use of electric or alternatively fueled sweepers with HEPA filters. • Use of water-based or low VOC cleaning products.	County of Los Angeles and its contractors	Final Design and construction	County of Los Angeles	1. Check building design specifications during preparation of final design bid packages to ensure all practicable measures listed as part of MM-GHG-1 have been specified. 2. Check design plans to ensure proposed GHG reduction measures are incorporated in plans to extent practicable. 3. Periodically inspect construction sites, as necessary, to confirm compliance with identified practicable measures.	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
• Install Electric Vehicle (EV) Charging Stations on at-least 5% of all vehicle parking spaces, consistent with City of Los Angeles requirements for all new projects.					
MM-HAZ-1: In order to minimize exposure, prior to demolition activities, asbestos-containing materials and lead-based paint surveys and evaluations shall be conducted in buildings that are to be demolished or renovated. Abatement measures shall be implemented in accordance with the recommendations of these evaluations. Asbestos surveys shall be conducted in accordance with SCAQMD Rule 1403, which specifies that all surveys are to be carried out by a Cal/OSHA-certified asbestos consultant and will follow established survey protocols, notification, and work practice requirements. Lead-based paint surveys shall be carried out by California Department of Public Health (CDPH)-certified inspector/assessor. If necessary, a lead abatement plan would be prepared by the CDPH-certified project monitor or supervisor, and demolition activities would be performed by CDPH-certified workers.	County of Los Angeles and its contractors	Pre-construction and during construction	County of Los Angeles	1. Check once prior to construction to confirm that a qualified Cal/OSHA-certified asbestos consultant has been hired and is under contract to conduct asbestos-containing materials surveys and evaluations in buildings that are to be demolished or renovated. 2. Check once prior to construction to confirm that a qualified CDHP-certified inspector/assessor is has been hired and is under contract to conduct lead-based paint surveys and evaluations in buildings that are to be demolished or renovated. 3. Check once prior to construction to confirm that pre-construction surveys and evaluations for asbestos-containing materials and lead-based paint have been conducted, and if necessary, that abatement measures and a lead abatement plan were prepared. 4. Check construction specifications during preparation of construction bid packages to confirm that, if determined necessary as part of the asbestos-containing materials and lead-based paint pre-construction surveys and evaluations, abatement measures and/or the requirement of demolition by CDPH-certified workers, have been specified. 5. Periodically inspect demolition activities to ensure compliance with specified asbestos and lead-based pain removal protocols.	South Coast Air Quality Management District

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
MM-HAZ-2: Prior to start of construction, an additional investigation of the leaking underground storage tank site at 1200 North State Street (according to SWRCB's GeoTracker website, groundwater is currently being monitored at the address) shall be conducted to determine its potential impact on project site development. In the event that environmental concerns are discovered, a certified geologist or industrial hygienist will specify an appropriate course of action, which may involve removal and disposal of contaminated materials, and remediation of the area of concern.	County of Los Angeles	Pre-construction	County of Los Angeles	1. Check once prior to construction to confirm that an additional investigation of the leaking underground storage tank at 1200 North State Street has been conducted to determine its potential impact on project site development. 2. Check once prior to construction to confirm that a certified geologist or industrial hygienist has been hired and is under contract to specify an appropriate course of action if environmental concerns are discovered as a result of the investigation of the leaking underground storage tank at 1200 North State Street. The course of action for identified environmental concerns may involve removal and disposal of contaminated materials, and remediation of the area of concern. 3. Check once, prior to construction to confirm that any contaminated materials have been removed and disposed of, or the site has been remediated.	City of Los Angeles Fire Department's Bureau of Fire Prevention and Public Safety
MM-HAZ-3: As part of a Phase II Environmental Site Assessment, prior to construction, additional investigations at the former suspected locations of USTs (both abandoned in place and those where no records of removal have been found) and the former boilers and powerhouse. In the event that environmental concerns are discovered, a certified geologist or industrial hygienist will specify an appropriate course of action, which may involve removal, disposal, and remediation of the area of concern.	County of Los Angeles	Pre-construction	County of Los Angeles	1. Check once prior to construction to confirm that additional investigations at the former suspected locations of underground storage tanks (USTs) and the former boilers and powerhouse have been conducted to determine their potential impact on project site development. 2. Check once prior to construction to confirm that a certified geologist or industrial hygienist has been hired and is under contract to specify an	City of Los Angeles Fire Department's Bureau of Fire Prevention and Public Safety

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
				appropriate course of action if environmental concerns are discovered as a result of the investigations of the former suspected locations of USTs and the former boilers and powerhouse. The course of action for identified environmental concerns may involve removal and disposal of contaminated materials, and remediation of the area of concern. 3. Check once, prior to construction to confirm that any contaminated materials have been removed and disposed of, or the site has been remediated.	
MM-HYD-1: Construction activity (clearing, grading, excavation, stockpiling, and reconstruction of existing facilities involving removal and replacement) resulting in a land disturbance of one or more acre, or less than one acre but part of the larger master plan for the campus must obtain the Construction Activities Storm Water General Permit. Prior to beginning any construction activity, the County shall require the contractor(s) to develop the SWPPP, Construction Activities Storm Water General Permit, erosion/sediment control plan, and submit these plans for approval by the governing regulatory agency. The contractor(s) shall then perform all construction activity in accordance with the recommendations in the SWPPP, the Construction Activities Storm Water General Permit, and erosion/sediment control plan. The contractor's erosion control plan must comply with the California Stormwater Best Management Practices Handbook and meet the requirements of the statewide Construction General Permit.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-HYD-1 have been specified. 2. Periodically inspect construction sites, as necessary, to confirm compliance with the recommendations in the SWPPP, the Construction Activities Storm Water General Permit, and erosion/sediment control plan.	Regional Water Quality Control Board

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
MM-HYD-2: LID features shall be designed to improve water quality and minimize the leaching of nutrients from growing media. Best design practices based on the latest monitoring and research recommendations shall be incorporated. In addition to avoiding the use of growing media, mulch, and compost containing animal products, which may leach nutrients, design modifications may include incorporation of an internal storage zone. With an internal storage zone, the underdrain is elevated and anaerobic conditions are created, causing denitrification to occur, provided that a carbon food source is provided for the denitrifying bacteria. Additionally, due to the large area of proposed landscaping, phosphorous is a likely pollutant in stormwater runoff from the site. Phosphorous can be minimized through organic maintenance methods, Integrated Pest Management, and avoiding products containing animal manure or other animal products. Although these practices apply specifically to bioretention, they should also be considered for other landscape-based LID features that could be included in the final design. If phosphorous is added to the 303(d) list for the Los Angeles River Reach 2 or the Tier 3 Pollutants of Concern for the Los Angeles River Watershed Management Area, then it becomes a pollutant of concern for the receiving water body and the specialized design measures shall be incorporated at the landscape-based LID features proposed for the site.	County of Los Angeles and its contractors	Final Design and construction	County of Los Angeles	1. Check final design specifications during preparation of final design bid packages to ensure all LID measures listed as part of MM-HYD-2 have been specified to be implemented, as practicable. 2. Periodically inspect construction sites, as necessary, to confirm compliance with identified practicable measures.	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
MM-HYD-3: Where groundwater seepage is expected, permanent monitoring wells shall be installed during construction within and around the perimeter of each building to monitor the groundwater level and evaluate the performance of the dewatering system. Before starting dewatering operations, a baseline conditions survey shall be made of all adjacent foundations and structures to assess the impact of deep excavation dewatering on adjacent structures. All signs of existing distress shall be recorded.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-HYD-3 have been specified. 2. Periodically inspect construction sites, as necessary, to confirm permanent monitoring wells have been installed during construction, and that a baseline conditions survey has been performed of all adjacent foundations and structures to assess the impact of deep excavation dewatering on adjacent structures. 3. Check once during construction to confirm that all signs of existing distress have been recorded.	None
MM-HYD-4: Irrigation water demands above existing irrigation demands shall be met by alternative supply sources to the maximum extent technically feasible. The use of alternative water supply sources for irrigation shall be maximized to reduce the use of potable water for irrigation and approximate existing irrigation demands. Alternative water supply sources include, but are not limited to, reclaimed water, gray water, harvested rainwater (stormwater), and air-conditioning condensate (although not specifically mentioned in the master plan, this could represent a significant source of clean irrigation water).	County of Los Angeles and its contractors	Final design and construction	County of Los Angeles	1. Check final design specifications during preparation of final design bid packages to ensure all measures listed as part of MM-HYD-4 have been specified to be implemented, as practicable. 2. Periodically inspect construction sites, as necessary, to confirm compliance with identified practicable measures.	None
MM-HYD-5: During and after construction, positive drainage shall be provided to direct water away from buildings and foundations. Where positive drainage is not provided, area drains shall be used to drain depressions or low spots that are not part of the designed LID	County of Los Angeles and its contractors	Final design and construction	County of Los Angeles	1. Check final design specifications during preparation of final design bid packages to ensure all measures listed as part of MM-HYD-5 have been specified to be implemented, as	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
features. Area drains shall not be placed next to buildings or in contact with buildings. All area drains and LID features shall be located, at a minimum, 8 feet away from building foundations or as directed in the International Building Code or other regulatory requirements. Roof drainage shall be controlled and directed to proper drainage devices in an acceptable manner or to LID features.				practicable. 2. Periodically inspect construction sites, as necessary, to confirm compliance with identified practicable measures.	
MM-HYD-6: An Operations and Maintenance Plan shall be developed for LID features at the site during the design of the initial development projects and expanded as development progresses and different LID features are added. The plan shall consider impacts on water quality and address issues related to Integrated Pest Management or organic maintenance practices, including those for hand weeding. The use of fertilizers, pesticides, herbicides, and products containing animal manure or animal products shall be avoided within any LID features at the project site. Outside of the LID features, Integrated Pest Management and organic maintenance practices shall be used.	County of Los Angeles and its contractors	Final design and construction	County of Los Angeles	1. Check final design specifications during preparation of final design bid packages to ensure an Operations and Maintenance Plan, as described in MM-HYD-6 has been specified to be implemented, as practicable. 2. Periodically inspect construction sites, as necessary, to confirm compliance with identified Operations and Maintenance Plan.	None
MM-NOI-1: Reduce Construction Noise to the Extent Possible. The County shall implement the following noise reduction measures during construction: • Construction activities should be limited to between the hours of 7 a.m. to 7 p.m. on Monday through Friday or 8 a.m. to 6 p.m. on Saturdays, and should not occur at any time on Sundays or legal holidays. Construction personnel should not be permitted on the job site, and material or equipment deliveries and collections should not be permitted outside of these hours.	County of Los Angeles and its contractors	Pre-construction and Construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-NOI-1 have been specified. 2. Periodically inspect construction sites, as necessary, to confirm compliance with construction hours, equipment maintenance, and noise-producing construction activity mitigation measures.	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
• To the fullest extent practicable, the quietest available type of construction equipment should be used. Newer equipment is generally quieter than older equipment. The use of electric powered equipment is typically quieter than diesel or gasoline powered equipment, and hydraulic powered equipment is typically quieter than pneumatic power. • Where possible, impact pile driving should be replaced with other piling techniques, such as vibratory pile driving or drilled and poured-in-place piles. • All mobile and fixed noise-producing equipment used on the proposed project that is regulated for noise output by a local, state, or federal agency shall comply with such regulation while in the course of project activity. • All construction equipment should be properly maintained. Poor maintenance of equipment typically causes excessive noise levels. • All construction equipment, stationary and mobile, should be equipped with properly operating and maintained mufflers, air-inlet silencers where appropriate, and any other shrouds, shields, or other noise-reducing features that meet or exceed original factory specification. Mobile or fixed "package" equipment (e.g., arc welders, air compressors) shall be equipped with shrouds and noise control features that are readily available for that type of equipment. • All noisy equipment should be operated only when necessary, and should be switched off when not in use.					

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
• The use of noise-producing signals, including horns, whistles, alarms, and bells, shall be for safety warning purposes only. • To the extent practicable, temporary barriers should be employed around the project site and/or around noisy construction equipment. • For barriers to be effective they should break the line-of site between the equipment and any noise-sensitive receiver. These barriers may be constructed as follows: o From commercially available acoustical panels lined with sound absorbing material (the sound absorptive faces of the panels should face the construction equipment). o From common construction materials such as plywood and lined with sound absorptive material (the sound absorptive material should face the construction equipment). o From acoustical blankets hung over or from a supporting frame. The blankets should provide a minimum sound transmission class (STC) rating of 28 and a minimum noise reduction coefficient (NRC) of 0.80 and should be firmly secured to the framework with the sound absorptive side of the blankets oriented towards the construction equipment. The blankets should be overlapped by at least 6 inches at seams and taped so that no gaps exist. The largest blankets available should be used in order to minimize the number of seams. The					

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blankets shall be draped to the ground to eliminate any gaps at the base of the barrier. • Construction employees shall be trained in the proper operation and use of the equipment. Careless or improper operation or inappropriate use of equipment can increase noise and vibration levels. Poor loading, unloading, excavation, and hauling techniques are examples of how a lack of adequate guidance and training may lead to increased noise and vibration levels. • Storage, staging, parking, and maintenance areas shall be located away from sensitive receptors. Where this is not possible, the storage of waste materials, earth, and other supplies should be positioned in a manner that will function as a noise barrier to the closest sensitive receivers. • Stationary noise sources such as generators and compressors should be positioned as far away as possible from noise sensitive areas. • Construction equipment shall be stored on the project site while in use. This will eliminate noise associated with repeated transportation of the equipment to and from the site. • To the extent possible, haul roads should not be designated through noise-sensitive areas					
MM-NOI-2: Design Non-Residential Project Buildings to Comply with CALGreen Exterior-to-Interior Noise Control Standards. During the architectural and engineering design phase of each new non-residential building that would be located	County of Los Angeles and its contractors	Design	County of Los Angeles	1. Check final design specifications during preparation of final design bid packages to confirm that an acoustical consultant has been hired and is under contract to evaluate the design and provide recommendations listed	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
within the 65 dB CNEL contour of any of the surrounding roadways (i.e., within 129 feet of Marengo Street, 172 feet of Mission Road, 46 feet of Zonal Avenue, 590 feet of I-5, or 482 feet of I-10), and prior to the issuance of any building permits for the building, the County shall retain an acoustical consultant to evaluate the design and provide recommendations, as necessary, to comply with the State of California Green Building Standards Code. Such mitigation measures may include, but are not limited to: installation of sound-rated windows or upgrades to façade wall elements. It is noted that this mitigation measure does not apply to "buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings."				under MM-NOI-2, as necessary, to comply with the State of California Green Building Standards Code. 2. Check to confirm that the acoustical consultant has developed recommendations in accordance with Green Building Standards Code and that those recommendations have been incorporated in project plans. 3. Periodically inspect construction sites, as necessary, to confirm compliance with design plans and recommendations of the acoustical consultant, as practicable.	
MM-NOI-3: Design Residential Project Buildings to Comply with the County of Los Angeles Building Code's Interior Noise Standards. During the architectural and engineering design phase of each new residential building to be developed as part of the project, and prior to the issuance of any building permits for the building, the County shall retain an acoustical consultant to evaluate the design and provide recommendations, as necessary, to comply with the County of Los Angeles Building Code's interior noise standard of 45 dB L_{dn} or CNEL. Such mitigation measures may include, but are not limited to: installation of sound-rated windows or upgrades to façade wall elements.	County of Los Angeles and its contractors	Design	County of Los Angeles	1. Check final design specifications during preparation of final design bid packages to confirm that an acoustical consultant has been hired and is under contract to evaluate the design and provide recommendations, as necessary to comply with the County of Los Angeles Building Code's interior noise standard of 45 dB L_{dn} or CNEL for any proposed residential buildings on the campus. 2. Check to confirm that the acoustical consultant has developed recommendations in accordance with County's noise standards and that those recommendations have been incorporated in project plans.	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
				3. Periodically inspect construction sites, as necessary, to confirm compliance with design plans and recommendations of the acoustical consultant, as practicable.	
MM-NOI-4: Design Project Facilities to Ensure All Mechanical Equipment Complies with Chapter XI of the City of Los Angeles Municipal Code. During the architectural and engineering design phase of each new facility (building, central plant, parking structure, etc.) that would introduce new mechanical equipment to the project site, and prior to the issuance of any building permits for the facility, the County shall retain an acoustical consultant to evaluate the design and provide recommendations, as necessary, to ensure that the mechanical equipment complies with Chapter XI of the City of Los Angeles Municipal Code. Such recommendations may include, but are not limited to: changes in equipment locations, upgrades to central plant buildings, rooftop parapet walls, acoustical louvers or screens, or intake and exhaust silencers.	County of Los Angeles and its contractors	Design	County of Los Angeles	1. Check final design specifications during preparation of final design bid packages to confirm that an acoustical consultant has been hired and is under contract to evaluate the design and provide recommendations, as necessary to comply with Chapter XI of the City of Los Angeles Municipal Code for any proposed facility that would introduce new mechanical equipment as detailed in this Mitigation Measure MM-NOI-4, as practicable. 2. Check to confirm that the acoustical consultant has developed recommendations in accordance with Chapter XI of City of Los Angeles Municipal Code and that those recommendations have been incorporated in project plans. 3. Periodically inspect construction sites, as necessary, to confirm compliance with design and recommendations of the acoustical consultant, as practicable.	None
MM-NOI-5: Design and Manage Outdoor Use Areas to Ensure Organized Outdoor Events Comply with Chapter XI of the City of Los Angeles Municipal Code. Prior to the issuance of any building permits for outdoor use areas that are anticipated to host organized events such as outdoor markets, farmers markets, summer concerts and health marches, etc. the County shall retain an acoustical consultant to	County of Los Angeles and its contractors	Prior to issuance of building permits	County of Los Angeles	1. Prior to issuance of permits for outdoor events, check that an acoustical consultant has been hired and is under contract to evaluate operational design details, as necessary, to comply with Chapter XI of the City of Los Angeles Municipal Code as detailed in this Mitigation Measure MM-NOI-5.	None

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
evaluate the design (event layout, sound system design, etc.) and operational event details (crowd sizes, times of operation, etc.) to ensure that such events will comply with Chapter XI of the City of Los Angeles Municipal Code. Such recommendations may include, but are not limited to: controls on crowd sizes and event times, and limits on sound system power levels.				2. Check outdoor events, as necessary, to confirm compliance with design recommendations of the acoustical consultant, as practicable.	
MM-NOI-6: Reduce Construction-Generated Groundborne Vibration to the Extent Possible. The County shall implement the following vibration reduction measures during construction: • Where possible, impact pile driving should be replaced with other piling techniques, such as vibratory pile driving or drilled and poured-in-place piles. • To the extent possible, heavy construction equipment should not be operated within 111 feet of on-site or off-site sensitive receptors.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to confirm limits on pile driving and operation of heavy construction equipment near sensitive receptors, as described in this mitigation measure, have been specified. 2. Periodically inspect construction sites, as necessary, to confirm compliance with measures limiting the use of pile driving and operation of heavy construction equipment within 111 feet of on-site or off-site sensitive receptors, to the extent practicable.	None
MM-PS-1: The Los Angeles County project manager and construction contractor shall regularly notify and coordinate with the LAFD, LASD and LAPD on project construction design, activities, and scheduling, including any on and off campus street or lane closures related to the proposed developments before construction begins.	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to confirm notification and coordination requirements with public safety providers, as described in this mitigation measure, have been specified. 2. Periodically check with contractor, as necessary, to confirm compliance with this measure.	City of Los Angeles Fire Department, City of Los Angeles Police Department, Los Angeles County Sheriff's Department

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
MM-TRAF-1: The County shall develop and implement traffic control measures for master plan projects that would result in lane or sidewalk closures, removal of parking, or similar traffic disruptions. Temporary traffic control during construction shall meet the requirements of the California Manual on Traffic Control Devices (CA-MUTCD). Daytime closures shall be covered by the applications shown in Chapter 6 of the manual. Overnight closures, long-term closures, and detours shall require a Traffic Control Plan, which shall be prepared as part of the project design package according to CA-MUTCD requirements. The Traffic Control Plan may include, but is not limited to, the elements listed below. Note that some of these elements may not be feasible or appropriate in all circumstances. The project-level environmental analysis shall identify the appropriate measures for each project. • Provide a roadway layout that shows the locations of construction activity and surrounding roadways to be used as detour routes, including special signage. • Establish detour routes in coordination with the City of Los Angeles to minimize disturbances to local traffic conditions; review potential detour routes to make sure adequate capacity is available. • Avoid creating additional delay at intersections that are currently operating under congested conditions either by choosing haul routes that avoid these locations (such as choosing haul routes that avoid the State Street/Marengo Street and State Street/Cesar Chavez Avenue intersections) or constructing during non-	County of Los Angeles and its contractors	Pre-construction and construction	County of Los Angeles	1. Check construction specifications during preparation of construction bid packages to ensure all measures listed as part of MM-TRAF-1 are specified. 2. Periodically inspect construction sites, as necessary, to confirm project traffic control measures have been implemented, as practicable.	Los Angeles Department of Transportation, City of Los Angeles Fire Department, City of Los Angeles Police Department, Los Angeles County Sheriff's Department

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
peak times of day (peak periods are generally 7 a.m. to 9 a.m. and 4 p.m. to 6 p.m., Monday through Friday). • Maintain access to existing residences at all times. • Work with LADOT, LASD, LAFD, and LAPD to coordinate all construction-related plans and minimize disturbances to local EMS providers; ensure that alternative evacuation and emergency routes are designed to maintain response times during construction. • Provide adequate off-street parking areas at designated staging areas for construction-related vehicles. • Work with local and regional transit providers to maintain access and circulation routes to existing stops and stations during construction phases and identify appropriate detours to provide traffic rerouting during construction while minimizing disturbance to bus services. • Work with the City of Los Angeles to maintain continuity and operation of existing pedestrian and bicycle facilities during construction.					
MM-TRAF-2: To mitigate the significant traffic impact at the intersection of State Street and Marengo Street (study intersection #13) during the AM and PM peak hours, the southbound approach on State Street (within the LAC+USC Medical Center) shall be widened and reconfigured to provide one left-turn lane, one through lane, and one shared through/right-turn lane. Traffic signal enhancements, such as additional closed-circuit television cameras, should also be considered. In addition, the existing	County of Los Angeles and its contractors	Pre-construction, design, and construction	County of Los Angeles	1. Check once prior to construction of proposed intersection improvements to confirm coordination with LADOT and Metro regarding reconfiguration of the intersection of State Street and Marengo Street and relocation of the bus stop has occurred, and that their approval of mitigation measure has been obtained. 2. If mitigation measure is approved by LADOT and Metro, check construction plans to confirm consistency with mitigation measure.	Los Angeles Department of Transportation, Metro

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
westbound bus stop at this intersection on Marengo Street shall be relocated eastward to allow for the introduction of a separate westbound right-turn lane. The County shall consult with affected transit providers as well as LADOT to coordinate relocation of this bus stop. All elements of this mitigation measure need to be implemented to mitigate the significant impact.				3. Periodically inspect construction site, as needed, to confirm construction is consistent with plans.	
MM-TRAF-3: The County shall explore implementation of the following TDM measures to further reduce vehicle trips: • provide bicycle parking for new development that exceeds the County's code requirement; • provide other bicycle-supportive amenities such as bicycle lockers; • locate a station of a bicycle-sharing system on-site; • expand the County-operated Wellness Center Shuttle to include more stops on or near the site; and, work cooperatively with other transit providers (Metro, LADOT, Metrolink, Foothill Transit, USC) to establish new transit stops or stations or to upgrade existing transit stops adjacent to the Medical Center or in the local area.	County of Los Angeles	Pre-construction, construction, and operation	County of Los Angeles	1. Check periodically as appropriate during the lifetime of the master plan to confirm consultation and coordination occurs with transit providers regarding establishment of new transit stops or stations. 2. Check initial plans for new development facilities to confirm bicycle facilities have been considered and included, if appropriate and as practicable, in proposed master plan projects. 3. Periodically inspect construction sites to confirm bicycle facilities are being constructed in accordance with plans.	Los Angeles Department of Transportation, Metro, Metrolink, Foothill Transit, USC
MM-UTL-1: In conjunction with preparation of a subsequent CEQA environmental document for any future development project under the master plan proposed in 2035 and beyond that is defined as a "water-demand project" in Section 15155 of the CEQA Guidelines, the County shall request, pursuant to Section 15155, that the water provider determine whether the projected water demand associated with the project was included in the most recently adopted urban	County of Los Angeles	Environmental project approval and pre-construction	County of Los Angeles	1. Check to confirm that a water supply assessment has been prepared, if required, prior to proceeding with individual development projects that are proposed in year 2035 and beyond. 2. Check construction specifications during preparation of construction bid packages to confirm any required water conservation design measures, as identified in the water supply assessment, are specified.	Los Angeles Department of Water and Power

Mitigation Measure	Party Responsible for Implementation	Phase	Party Responsible for Monitoring	Monitoring Activity/Period/Frequency	Outside Agency Coordination
water management plan. If required pursuant to Section 15155 and SB 610, the County shall request that LADWP prepare a water assessment for the proposed project. The County shall determine, pursuant to Section 15155, whether projected water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses.				3. Check project plans to ensure water conservation measures identified in the water supply assessment and construction specifications have been incorporated. 4. Periodically inspect construction sites to confirm water conservation measures are being constructed in accordance with plans.	
MM-UTL-2: Prior to issuance of a building permit for any future development project under the master plan that could result in an increase in wastewater generation, the County shall coordinate with the City of Los Angeles Bureau of Sanitation to conduct further detailed gauging and evaluation to identify a specific sewer connection point with sufficient capacity. If the public sewer has insufficient capacity, then the County shall be required to build a sewer line to a point in the sewer system with sufficient capacity.	County of Los Angeles	Prior to issuance of building permits	County of Los Angeles	1. Check once prior to issuance of any building permits to confirm that the Los Angeles Bureau of Sanitation has conducted further detailed gauging and evaluation and has identified a sewer connection point with sufficient wastewater capacity for proposed development under the campus Master Plan. 2. Check once prior to issuance of building permits to confirm, that in the event that the public sewer has insufficient capacity, a sewer line is built to a point in the sewer system with sufficient capacity.	City of Los Angeles Bureau of Sanitation