

# CHAPTER 6 Environmental Mitigation Monitoring and Reporting Program for the Rose Bowl Renovation Project

## 6.1 AUTHORITY

This Environmental Mitigation Monitoring and Reporting Program has been prepared pursuant to Section 21081.6 of the *California Environmental Quality Act*, known as CEQA (*Public Resources Code* Section 21000 et seq.), to provide for the monitoring of mitigation measures required of the Rose Bowl Renovation Project, as set forth in the Final Supplemental Environmental Impact Report (Final SEIR) prepared for the project. This report will be kept on file in the offices of the City of Pasadena Planning and Development Department, 175 North Garfield Avenue, Pasadena, CA 91101.

## 6.2 MONITORING SCHEDULE

Prior to the issuance of building permits, while detailed development plans are being prepared for approval by City staff, City staff will be responsible for ensuring compliance with mitigation monitoring applicable to the project design phase. City staff will prepare or cause to be prepared reports identifying compliance with mitigation measures. Once construction has begun and is underway, monitoring of the mitigation measures associated with construction will be included in the responsibilities of designated City staff, who shall prepare or cause to be prepared reports of such monitoring no less than once a month until construction has been completed. Once construction has been completed, the City will monitor the project as appropriate and provided in the monitoring plan.

## 6.3 FORMAT OF MITIGATION MONITORING MATRIX

The mitigation monitoring matrix on the following pages is formatted to parallel the format of the Executive Summary table contained in the Final EIR. The matrix identifies the environmental issue areas for which monitoring is required, the required mitigation measures, the time frame for monitoring, and the responsible monitoring agencies.

If any mitigation measures are not being implemented, the City may pursue corrective action. Penalties that may be applied include, but are not limited to, the following: (1) a written notification and request for compliance, (2) withholding of permits, (3) administrative fines, (4) a stop-work order, (5) criminal prosecution and/or administrative fines, (6) forfeiture of security bonds or other guarantees, and (7) revocation of permits or other entitlements.



<p>Impact 3.1-2B Implementation of Options A or C of the revised project would change the existing visual character and quality of the site and its surroundings.</p>	<p>MM3.1-1, MM3.1-2, MM3.1-3, MM3.3-1, and MM3.3-2a would also apply</p>	<p>Applicant's mitigation monitor</p>	<p>At plan review; weekly during construction</p>	<p>Planning and Development Department—Design &amp; Historic Preservation  Public Works Department—Parks &amp; Natural Resources</p>
<p>Impact 3.1-3 The revised project could substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a scenic highway.</p>	<p>MM 3.1-3 and MM 3.3-2(a) would also apply.</p>	<p>Applicant's mitigation monitor</p>	<p>At plan review; weekly during construction</p>	<p>Planning and Development Department—Design &amp; Historic Preservation  Public Works Department—Parks &amp; Natural Resources</p>
<p>Impact 3.1-4 The revised project would result in new sources of increased light and glare from new lighting systems. This is considered a potentially significant impact.</p>	<p>MM 3.1-4 The City of Pasadena shall specify the lighting type and placement on the project site to ensure that the effects of security lighting are limited as a means of minimizing night lighting and the associated impacts to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that all light fixtures will use glare-control visors, arc tube suppression caps, and will use a photometric design that maintains 70 percent of the light intensity in the lower half of the light beam.</p> <p>MM 3.1-5 Prior to opening the stadium, the Applicant shall test the installed field-lighting system to ensure that lighting meets operating requirements in the stadium and minimizes obtrusive spill lighting in the stadium facility. Testing would include light-meter measurements at selected locations in the vicinity to measure spill lighting from field-lighting fixtures, permit adjustment of lighting fixtures, and confirm that spill-lighting effects would not exceed 3 foot-candles one block from the stadium and no more than 1 foot-candle three blocks from the stadium.</p> <p>MM 3.1-6 Stadium lighting and advertising (including signage) shall be oriented in such a manner to reduce that amount of light shed onto sensitive receptors and incorporate "cut-off" shields as appropriate to minimize any increase in lighting at adjacent properties.</p> <p>MM 3.1-7 All interior floodlights, exterior parking lot, and other security lighting shall be directed away from sensitive receptors and towards the specific location intended for illumination. State-of-the-art fixtures shall be used, and all lighting shall be shielded to minimize the production of glare and light spill onto both existing and proposed residential units on the adjacent hillsides. A lighting design</p>	<p>Applicant's Lighting Engineer  Applicant's Lighting Engineer  Applicant's Lighting Engineer</p>	<p>At design review and plan check; field inspection and confirmation prior to final building approval  Prior to final building approval  At design review and plan check</p>	<p>Planning and Development Department—Design &amp; Historic Preservation and Building Division  Planning and Development Department—Code Compliance  Planning and Development Department—Design &amp; Historic Preservation and Public Works Department</p>



	<ul style="list-style-type: none"> <li>■ All unpaved parking or staging areas, or unpaved road surfaces shall be watered three times daily or have chemical soil stabilizers applied according to manufacturers' specifications</li> <li>■ Enclose, cover, water twice daily, or apply approved soil binders to exposed piles (i.e., gravel, sand, and dirt) according to manufacturers' specifications</li> <li>■ The construction disturbance area shall be kept as small as possible</li> <li>■ All trucks hauling dirt, sand, soil, or other loose materials shall be covered or have water applied to the exposed surface prior to leaving the site to prevent dust from impacting the surrounding areas</li> <li>■ Wheel washers shall be installed where vehicles enter and exit unpaved roads onto paved roads and used to wash off trucks and any equipment leaving the site each trip</li> <li>■ Streets adjacent to the project site shall be swept at the end of the day if visible soil material is carried over to adjacent roads</li> <li>■ Wind barriers shall be installed along the perimeter of the site</li> <li>■ All excavating and grading operations shall be suspended when wind speeds (as instantaneous gusts) exceed 25 miles per hour over a 30-minute period</li> <li>■ A traffic speed limit of 15 miles per hour shall be posted and enforced for the unpaved construction roads (if any) on the project site</li> <li>■ Remediation operations, if required, shall be performed in stages concentrating in single areas at a time to minimize the impact of fugitive dust on the surrounding area</li> </ul>			
<b>Biological Resources</b>				
<p>Impact 3.3-3 Implementation of the revised project could, through habitat modifications, result in a potential reduction in nesting opportunities for resident and migratory avian species of special concern, including raptors or the loss of an active avian nest.</p>	<p>MM 3.3-1 To ensure that avian species of concern, protected migratory species (e.g., MBTA), or raptors species are not injured or disturbed by construction in the vicinity of nesting habitat, the project applicant shall implement the following measures:</p> <ul style="list-style-type: none"> <li>■ Proposed project activities (including disturbances to native and non-native vegetations, structures and substrates) should take place outside of the breeding bird season which generally runs from March to August 31 (as early as February 1 for raptors) to avoid take (including disturbances that would cause abandonment of active nests containing eggs and/ or young). Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill (Fish and Game Code Section 86).</li> <li>■ If avoidance of the breeding bird season is not feasible, beginning thirty days prior to the disturbance of suitable nesting habitat the project proponent should arrange for weekly bird surveys to detect protected native birds occurring in the habitat that is to be removed and any other such habitat within 300 feet of</li> </ul>	<p>Qualified Biologist</p>	<p>Prior to issuance of grading permit</p>	<p>Public Works Department</p>

	<p>the construction work area (within 500 feet for raptors) as access to adjacent areas allows. The surveys should be conducted by a qualified biologist with experience in conducting breeding bird surveys. The surveys should continue on a weekly basis with the last survey being conducted no more than 3 days prior to the initiation of clearance/ construction work. If a protected native bird is found, the project proponent should delay all clearance/ construction disturbance activities within 300 feet of suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified biologist could continue the surveys in order to locate any nests. If an active nests is located, clearing and construction within 200 feet of the nest (within 300 feet for raptor nests) or as determine by a qualified biological monitor, must be postponed until nest is vacated and juveniles have fledged and when there is no evidence of a second attempt at nesting. Limits of construction to avoid a nest should be established in the field with flagging and stakes or construction fencing marking the protected area 300 feet (or 500 feet) for the nest. Construction personnel should be instructed on the sensitivity of the area. The project proponent should record the results of the recommended protective measures described above to document compliance with applicable State and Federal laws pertaining to the protection of native birds.</p> <ul style="list-style-type: none"> <li>■ When feasible, all tree removal shall occur between August 30 and February 15 to avoid the breeding season of any raptor species that could be using the area, and to discourage hawks or bats from nesting/roosting in the vicinity of an upcoming construction area. This period may be modified with the authorization of the DFG; or if it is not feasible to remove trees outside this window then, prior to the beginning of mass grading, including grading for major infrastructure improvements, during the period between February 15 and August 30, all trees and potential burrowing owl habitat within 350 feet of any grading or earthmoving activity shall be surveyed for active raptor nests or burrows by a qualified biologist no more than 30 days prior to disturbance. If active raptor nests are found, and the site is within 350 feet of potential construction activity, a fence shall be erected around the tree at a distance of up to 350 feet, depending on the species, from the edge of the canopy to prevent construction disturbance and intrusions on the nest area. The appropriate buffer shall be determined by the City in consultation with CDFG.</li> <li>■ No construction vehicles shall be permitted within restricted areas (i.e., raptor protection zones), unless directly related to the management or protection of the legally protected species.</li> <li>■ In the event that a nest is abandoned, despite efforts to minimize disturbance, and if the nestlings are still alive, the developer shall contact CDFG and, subject to CDFG approval, fund the recovery and hacking (controlled release of captive reared young) of the nestling(s).</li> </ul>			
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Chapter 6 Environmental Mitigation Monitoring and Reporting Program for the Rose Bowl Renovation Project

	<ul style="list-style-type: none"> <li>■ If a legally protected species nest is located in a tree designated for removal, the removal shall be deferred until after August 30<sup>th</sup>, or until the adults and young of the year are no longer dependent on the nest site as determined by a qualified biologist.</li> </ul>			
<p>Impact 3.3-4 Implementation of the revised project could conflict with the City of Pasadena Tree Ordinance.</p>	<p>MM3.3-2(a) The Applicant, prior to being issued a grading permit, shall submit a tree report prepared by a certified arborist that meets the requirements of the Pasadena Tree Protection Ordinance identifying trees to be removed and trees to be retained. It shall also include the preparation and submission of a tree protection and replacement plan. The tree replacement plan shall include replanting for increased canopy and include a minimum replacement ratio for removed or damaged trees of 1:1. The plan shall be prepared and approved by the City prior to grading or construction and shall include the following:</p> <ul style="list-style-type: none"> <li>■ The details and procedures required to prepare the restoration site for planting (i.e. grading, soil preparations, soil stocking, etc.).</li> <li>■ The methods and procedures for the installation of the plant materials.</li> <li>■ A complete list of trees to be planted, which shall emphasize, to the extent feasible, planting of tree species native to the Arroyo Seco.</li> <li>■ Guidelines for the maintenance of the mitigation site during the establishment phase of the plantings. The maintenance program shall contain guidelines for the control of nonnative plant species and the replacement of plant species that have failed to recolonize.</li> <li>■ The revegetation plan shall provide for monitoring to evaluate the growth of the trees. Annual monitoring of the replacement trees shall occur for the first five years after which it shall be performed on the seventh and tenth year. Specific success criteria for replaced trees shall include the following: <ul style="list-style-type: none"> <li>&gt; For a replacement ratio greater than 1:1: 90 percent or more of the transplanted/ replacement trees surviving ten years after transplantation with overall no net loss of trees</li> <li>&gt; For replacement ratio of 1:1: 100 percent survival</li> </ul> </li> <li>■ Contingency plans and appropriate remedial measures shall also be outlined in the replacement plan should the plantings fail to meet designated success criteria and planting goals.</li> </ul> <p>When construction activities occur near protected tree species that are to be saved, Best Management Practices (BMPs) to avoid damage to the trees shall be implemented, and verified by the City's Code Compliance staff. The BMPs will include, but are not limited to (1) installing protective fencing prior to and during construction, using wire mesh or plastic barrier fencing placed outside the drip line of the tree; (2) avoiding disturbance and trenching within the tree drip line; (3) maintaining the surface grade around the tree; and (4) prohibiting the placement of paving or landscaping requiring summer irrigation in the vicinity of</p>	<p>Applicant's Certified Arborist to prepare report</p> <p>City Code Compliance staff to monitor site for compliance with Tree Protection Ordinance</p> <p>City Arborist to monitor replacement trees</p> <p>City Code Compliance staff to monitor protected trees during construction</p>	<p>Prior to issuance of grading permit; weekly monitoring during construction</p> <p>Annual monitoring of replacement trees for first five years, and again in the seventh and tenth year.</p>	<p>Planning and Development Department—Design &amp; Historic Preservation</p> <p>Public Works—Parks &amp; Natural Resources</p> <p>Public Works—Parks &amp; Natural Resources</p>

**Chapter 6 Environmental Mitigation Monitoring and Reporting Program for the Rose Bowl Renovation Project**

	<p>trees.</p> <p>MM 3.3-2(b) A drainage plan shall be designed in such a way as to avoid changes to hydrology in the vicinity of the protected trees.</p> <p>MM 3.3-2(c) Construction staging areas shall be designated on the construction plans and parking, loading, and grading during all construction activities shall be prohibited within the root zone of the protected trees.</p> <p>MM 3.1-3 also applies to this impact.</p>	<p>Applicant's Engineer</p> <p>Code Compliance staff</p>	<p>At plan review</p> <p>Weekly monitoring during construction</p>	<p>Public Works Department</p> <p>Planning and Development Department—Code Compliance</p>
<p>Impact 3.3-5 The revised project would increase nighttime illumination, but no adverse effect on wildlife within the area would occur.</p>	<p>MM 3.3-3 All lighting along the perimeter of natural areas such as the channel shall be downcast luminaries with light patterns directed away from natural areas, as coordinated with a certified lighting engineer and project biologist.</p>	<p>Applicant's Lighting Engineer and Qualified Biologist</p>	<p>At design review and plan check; inspection prior to final building approval</p>	<p>Planning and Development Department—Code Compliance</p>

**Cultural Resources**

<p>Impact 3.4-1 The revised project could cause a substantial adverse change in the significance of an archaeological resource, directly or indirectly destroy a unique paleontological resource or site or unique geologic feature, or disturb any human remains, including those interred outside of formal cemeteries.</p>	<p>MM 3.4-1(a) Prior to site preparation or grading activities, the Applicant shall retain a qualified (ROPA-listed) archaeologist to inform construction personnel of the potential for encountering unique archaeological resources and the regulatory framework of cultural resources protection. All construction personnel shall be instructed to stop work within 50 feet of a potential discovery until a qualified (ROPA-listed) archaeologist assesses the significance of the find and implements appropriate measures to protect or scientifically remove the find. Construction personnel shall also be informed that unauthorized collection of archaeological resources is prohibited.</p> <p>MM 3.4-1(b) The Applicant shall retain a qualified archaeologist to provide spot-checks—on a schedule approved by the City—during grading and excavation activity and to be available on-call in the event of a discovery. In the event of a discovery, the archaeologist shall first determine whether an archaeological resource uncovered during construction is a “unique archaeological resource” under Public Resources Code Section 21083.2(g). If the archaeological resource is determined to be a “unique archaeological resource,” the archaeologist shall formulate a mitigation plan in consultation with the City that satisfies the requirements of Section 21083.2.</p> <p>If the archaeologist determines that the archaeological resource is not a unique archaeological resource, the archaeologist shall record the site and submit the recordation form to the California Historic Resources Information System South Central Coastal Information Center, and no further investigation of the particular find would be required.</p> <p>The archaeologist shall prepare a report of the results of any study prepared as part of a mitigation plan, following accepted professional practice. Copies of the report shall be submitted to the City and to the California Historic Resources</p>	<p>Applicant's Qualified Archeologist</p>	<p>Prior to issuance of grading permit; monthly during construction period</p>	<p>Planning and Development Department—Design &amp; Historic Preservation</p>
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	<p>Information System South Central Coastal Information Center.</p> <p>MM 3.4-2(a) Prior to site preparation or grading activities, the Applicant shall retain a qualified paleontologist to inform construction personnel of the potential for encountering paleontological resources and the regulatory framework of cultural resources protection. All construction personnel shall be instructed to stop work within 50 feet of a potential discovery until a qualified paleontologist assesses the significance of the find and implements appropriate measures to protect or scientifically remove the find. Construction personnel shall also be informed that unauthorized collection of paleontological resources is prohibited.</p> <p>MM 3.4-2(b) The Applicant shall retain a qualified paleontologist to provide spot-checks—on a schedule approved by the City—during grading and excavation activities and, in the event of a discovery, shall first determine whether a paleontological resource uncovered during construction meets the definition of a “unique archaeological resource” under Public Resources Code Section 21083.2(g). If the paleontological resource is determined to be a “unique archaeological resource,” the paleontologist shall formulate a mitigation plan in consultation with the campus that satisfies the requirements of Section 21083.2.</p> <p>If the paleontologist determines that the paleontological resource is not a unique resource, the paleontologist shall record the site and submit the recordation form to the Natural History Museum of Los Angeles County, and no further investigation of the particular find would be required.</p> <p>The paleontologist shall prepare a report of the results of any study prepared as part of a mitigation plan, following accepted professional practice. Copies of the report shall be submitted to the City and to the Natural History Museum of Los Angeles County.</p>	<p>Applicant’s Qualified Paleontologist</p>		
<p>Impact 3.4-4 The revised project with Options A or C would cause alteration of the resource or its immediate surroundings such that the significance of the historical resource would be materially impaired.</p>	<p>MM 3.4-3(a) Compliance with the <i>Secretary of the Interior’s Standards for Treatment of Historic Properties</i>. The scope of work is currently schematic and will be defined further as the project progresses. All work on elements of the Rose Bowl to be retained shall be designed for maximum possible compliance with the <i>Secretary of the Interior’s Standards for Treatment of Historic Properties</i>. This shall be accomplished through the oversight of an independent historic preservation consultant and City staff, as described below.</p> <ul style="list-style-type: none"> <li>■ <b>Historic Preservation Consultant.</b> The City shall retain the services of a qualified historic preservation consultant with experience in architectural preservation. The role of the historic preservation consultant shall be to review structural designs and construction activities that could potentially affect character-defining features as identified in this EIR and the Historic Structure Report. All reviews by the historic preservation consultant shall be carried out by a person or persons meeting the Secretary of the Interior’s Professional Qualification Standards. Knowledge of historic architecture, materials, surface</li> </ul>	<p>Applicant’s Independent Historic Preservation Consultant</p>	<p>At design review and plan check; weekly during design phases and construction</p>	<p>Planning and Development Department—Design &amp; Historic Preservation</p>

	<p>finishes, and historic restoration techniques is required. This consultant shall have a structural engineer and conservator available for consultation. The consultant's main responsibility shall be to monitor and advise the City regarding compliance with the Secretary of Interior's Standards with respect to elements of the Rose Bowl that would be retained, as well as approved design criteria. Through a series of development, design, and specification review meetings, as well as construction monitoring, the historic preservation consultant shall work in conjunction with City and with the Applicant's project and construction management teams. In addition, the consultant shall review the historic record and photo documentation, protection of historic fabric, mock-ups, and test panels of treatments to historic fabric. In consultation with other experts, the consultant shall approve the materials and replica designs used in the restoration, rehabilitation and new construction related to the historic resources.</p> <ul style="list-style-type: none"> <li>■ <b>Construction Monitoring.</b> On-site construction monitoring by a historic preservation consultant shall be undertaken throughout the construction phase to ensure protection of historic fabric and compliance with the Standards and approved design and construction documents. Monitoring will be scheduled based on potential construction impacts and specific scope of work and will vary between daily and weekly visits upon approval by the City. In addition, all submittals, mock-ups, and change orders that affect historic fabric shall be reviewed by the consultant. On-site changes that might affect historic fabric shall be undertaken in consultation with the historic consultant. If the historic preservation consultant determines that construction does not substantially conform to the approved criteria, the historic preservation consultant will immediately notify the City. The City will require any contractors, vendors etc. to take all reasonable measures to avoid or minimize harm to the property until the issue is resolved. The historic preservation consultant, design team, and construction management will work cooperatively and diligently to resolve issues in a timely manner.</li> </ul> <p>MM 3.4-3(b) Documentation. A Historical Resource Documentation Report shall be prepared for the Rose Bowl. The resources shall be described photographed in a manner that conforms to Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) Level I documentation standards, as well as the HABS/HAER Guidelines for HABS Historical Reports. The documentation shall amend the existing HABS report for the Rose Bowl in the Library of Congress collection, focusing on those areas that would be directly affected by the proposed project. The documentation shall be donated to suitable repositories selected by the City, one of which shall include the main branch of the Pasadena Library.</p>			
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Chapter 6 Environmental Mitigation Monitoring and Reporting Program for the Rose Bowl Renovation Project

Impact 3.4-5 The revised project could alter the significance of the Arroyo Seco Cultural Landscape.	MM 3.4-3(b) would also apply to this impact	Applicant's Independent Historic Preservation Consultant	At design review and plan check; weekly during construction	Planning and Development Department—Design & Historic Preservation
<b>Geology and Soils</b>				
Impact 3.5-2 The revised project would not be located on expansive soil.	<p>MM 3.5-1 Site-specific soil suitability analysis and stabilization procedures, and design criteria for foundations and road bases (described in the current Pasadena Building Code Chapters 16, 18, and A33) shall be required, as recommended by a California-registered soil engineer, during the design phase for each site where the existence of unsuitable soil conditions is known or suspected. During the design phase, where the existence of unsuitable soil conditions is known or suspected, the Developer's registered soil engineering consultant shall provide documentation to the City that:</p> <ul style="list-style-type: none"> <li>■ Site specific soil suitability and stability analyses have been conducted in the area of the proposed foundations and road bases to establish the design criteria for appropriate foundation or road base type and support</li> <li>■ The recommended criteria have been incorporated in the design of foundation</li> </ul> <p>During grading, the registered soils professional shall be on the site to do the following:</p> <ul style="list-style-type: none"> <li>■ Observe areas of potential soil unsuitability or instability</li> <li>■ Supervise the implementation of soil remediation or reconstruction programs</li> <li>■ Verify final soil conditions prior to setting the foundations</li> </ul> <p>The registered soils engineering consultant shall prepare an "as built" map/report, to be filed with the City, showing details of the site soils, the location of foundations, retaining walls, sub-drains, clean-outs, etc., and the results of suitability/stability analyses and compaction tests.</p>	Applicant's Geotechnical and/or Structural Engineer	Prior to issuance of grading permits	Planning and Development Department—Building
Impact 3.5-3 The revised project could expose people or structures to potentially substantial adverse effects from seismic activity or landslides.	<p>MM 3.5-2 The Applicant shall incorporate site-specific ground motion criteria, as described in the current Pasadena Building Code Chapters 16, 18, and A33, and reviewed by the city's California-registered geotechnical and/or structural engineer, in the design of trenches, slopes, foundations, and structures for the project. Implementation of this measure is required by the Building Code and includes the following provisions:</p> <ul style="list-style-type: none"> <li>■ The minimum seismic-resistant design standards for all proposed facilities shall conform to the California Building Code Seismic Zone 4 Standards</li> <li>■ Additional seismic-resistant earthwork and construction design criteria shall be incorporated in the project as necessary, based on the site-specific recommendations of a California Certified Engineering Geologist in cooperation with California-registered geotechnical and structural engineering</li> </ul>	Applicant's Geotechnical and/or Structural Engineer	At design review and plan check; Prior to issuance of grading permits	Planning and Development Department—Building Division

	<p>professionals</p> <ul style="list-style-type: none"> <li>■ During site preparation, the registered geotechnical professional shall be on the site to supervise implementation of the recommended criteria</li> <li>■ The California Certified Engineering Geologist consultant shall prepare an “as built” map/report, to be filed with the City, showing details of the site geology, the location and type of seismic-restraint facilities, and documenting the following requirements, as appropriate             <ul style="list-style-type: none"> <li>&gt; Engineering analyses shall demonstrate satisfactory performance of compacted fill or natural unconsolidated sediments where either forms part or all of the support for any structures, especially where the possible occurrence of liquefiable soils exists</li> <li>&gt; Access roads, foundations, and underground utilities in fill or alluvium shall be designed to accommodate settlement or compaction estimated by the site-specific geotechnical investigations of the geotechnical consultant</li> </ul> </li> </ul> <p>MM 3.5-1 would also apply.</p>			
<p>Impact 3.5-4 The revised project would not result in substantial soil erosion or the loss of topsoil.</p>	<p>MM 3.5-3 The following actions shall be taken:</p> <ul style="list-style-type: none"> <li>■ To the extent practicable, project site grading shall be scheduled for the dry season (April through September)</li> <li>■ In addition, NPDES permit requirements shall be fulfilled prior to issuance of building permits</li> <li>■ The Applicant shall submit a soil erosion and sedimentation control plan for the project to the City of Pasadena prior to grading, subject to the following recommendations:             <ul style="list-style-type: none"> <li>&gt; The Erosion and Sediment Transport Control Plan (as part of the overall SWPPP) shall be submitted, reviewed, implemented, and inspected as part of the approval process for the grading plans</li> <li>&gt; The Plan shall be designed by the Applicant’s erosion control consultant, using concepts similar to those formulated by the state of California, as appropriate, based on the specific erosion and sediment transport control needs of the site where grading, excavation, and construction is to occur. Those concepts include some that apply generally to the entire project area and some that would be appropriate only for specific sites. The possible methods are not necessarily limited to the following items:                 <ul style="list-style-type: none"> <li>○ Confine grading and activities related to grading (demolition, excavation, construction, preparation and use of equipment and material storage areas and staging areas) to the dry season, whenever possible</li> <li>○ Locate staging areas outside streams and drainage ways</li> <li>○ Keep the lengths and gradients of constructed slopes (cut or fill) as</li> </ul> </li> </ul> </li> </ul>	<p>Applicant</p>	<p>Prior to issuance of grading permits</p>	<p>Planning and Development Department—Building Division</p> <p>Public Works Department</p>

	<p>low as possible</p> <ul style="list-style-type: none"> <li>○ Discharge grading and construction runoff into small drainages at frequent intervals to avoid buildup of large potentially erosive flows</li> <li>○ Prevent runoff from flowing over unprotected slopes</li> <li>○ Keep disturbed areas (areas of grading and related activities) to the minimum necessary for demolition or construction of the project</li> <li>○ Keep runoff away from disturbed areas during grading and related activities</li> <li>○ Stabilize disturbed areas as quickly as possible, either by vegetative or mechanical methods</li> <li>○ Direct runoff over vegetated areas prior to discharge into public storm drainage systems, whenever possible</li> <li>○ Trap sediment before it leaves the site with such techniques as check dams, sediment ponds, or siltation fences</li> <li>○ Use interceptor ditches, drainage swales, or detention basins to prevent storm runoff from transporting sediment into drainage ways and to prevent sediment-laden runoff from leaving any disturbed areas</li> <li>○ Install silt fences to prevent sedimentation in areas adjacent to grading and down gradients into drainage ways. Design fences using the Universal Soil Loss Equation to calculate their proper storage capacity. The contractor shall implement installation by prior to mass grading and other soil disturbing construction activities on site</li> <li>○ The contractor shall be responsible for the removal and disposal of all project-related sedimentation in off-site retention ponds</li> <li>○ Use landscaping and grading methods that lower the potential for down-stream sedimentation. Modified drainage patterns, longer flow paths, encouraging infiltration into the ground, and slower stormwater conveyance velocities are examples of effective methods</li> <li>○ Control landscaping activities carefully with regard to the application of fertilizers, herbicides, pesticides, or other hazardous substances. Provide proper instruction to all landscaping personnel on the construction team</li> <li>○ During the installation of the erosion and sediment transport control structures, the erosion control professional shall be on the site to supervise the implementation of the designs, and the maintenance of the facilities throughout the demolition, grading, and construction period</li> </ul>			
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**Hydrology and Water Quality**

<p>Impact 3.7-2 The revised project could create or contribute runoff water which would exceed the capacity or existing or planned stormwater drainage systems, but would not provide substantial additional sources of polluted runoff. Implementation of mitigation measure MM 3.13-2 would reduce this impact to less than significant. The revised project would require the construction of new stormwater drainage facilities, the construction of which would not cause significant environmental effects.</p>	<p>MM 3.13-4 would apply to this impact</p>	<p>Applicant's Civil Engineer</p>	<p>Prior to issuance of building permits</p>	<p>Public Works Department</p>
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**Land Use**

<p>Impact 3.8-4 The revised project could interfere with existing uses in the immediate area.</p>	<p>MM 3.8-1 If the parking areas that currently accommodate the monthly Flea Market are unavailable due to construction of the proposed project, the RBOC shall make an alternate location available, and shall notify the Flea Market operators in writing at least 90 days in advance of any such unavailability as well as to advise of the alternative location.</p>	<p>Applicant</p>	<p>During construction</p>	<p>Planning and Development Department—City's Mitigation Monitoring Coordinator and Flea Market Operators</p>
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**Noise**

<p>Impact 3.9-1 The revised project could expose persons to or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.</p>	<p>MM 3.9-1 To mitigate potential pile driving or other extreme noise-generating impacts, a set of site-specific noise attenuation measures shall be completed under the supervision of a qualified acoustical consultant. This plan shall be submitted for review and approval by the City to ensure that feasible noise attenuation is achieved to satisfy standards contained in the City of Pasadena Noise Ordinance. These attenuation measures shall include as many of the following control strategies as feasible and shall be implemented prior to any required pile driving activities:</p> <ul style="list-style-type: none"> <li>■ Implement "quiet" pile driving technology (e.g., cast-in-drilled hole piles, soil-mix wall technology, shielded pile drivers, vibratory pile driving or pre-drilled pile holes), where feasible, in consideration of geotechnical and structural requirements and conditions</li> </ul>	<p>Applicant's Qualified Acoustical Consultant</p>	<p>Prior to issuance of grading permits</p>	<p>Department of Public Health—Environmental Health Division</p>
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	<p>“smart” irrigation controllers and/or drip irrigation.</p> <p>MM 3.13-3 The RBOC shall implement Water Shortage Plan I (PMC Section 13.10.040) and reduce water usage by taking the following water conservation measures during the time that Plan I is in effect:</p> <ul style="list-style-type: none"> <li>■ Refrain from hosing or washing sidewalks, walkways, driveways, parking areas, or other paved surfaces</li> <li>■ Refrain from cleaning, filling, or maintaining levels in decorative fountains, ponds, lakes, and similar structures unless such structure is equipped with a water recycling system</li> <li>■ Refrain from serving drinking water, unless at the express request of a customer, in all places in the Stadium where food is sold, served, or offered for sale</li> <li>■ Promptly repair all leaks from indoor and outdoor plumbing fixtures, including, but not limited, to sprinkler systems</li> <li>■ Refrain from allowing water to runoff landscaped areas into adjoining streets, sidewalks, parking lots or alleys</li> <li>■ Refrain from allowing water to run off into adjoining streets, sidewalks, parking lots, or alleys while washing vehicles</li> <li>■ Refrain from landscape watering more often than once every 3 days</li> <li>■ Refrain from landscape watering between the hours of 10:00 A.M. and 5:00 P.M.</li> </ul>			
<p>Impact 3.13-4 Implementation of the revised project could require an increase in electricity and natural gas, but would not require the construction of new energy production or transmission facilities, the construction of which could cause significant environmental effects.</p>	<p>MM 3.13-3 Project design and construction shall be coordinated with SCG and the City’s Department of Water Power, and improvements provided if necessary in order to ensure that connections are adequate and capacity is available to accommodate estimated demand for gas and electric utilities.</p>	<p>Applicant</p>	<p>At design review and plan check</p>	<p>Public Works Department</p>
<p>Impact 3.13-5 Implementation of the revised project is expected to increase runoff and could potentially overload existing stormwater drainage facilities.</p>	<p>MM 3.13-4 The project Applicant shall provide a storm drainage analysis to ensure that storm drain lines and connections are adequate and that capacity is available to accommodate the anticipated increase in stormwater flows. If the report provides recommendations for on-site storm drainage improvements, the recommendations must be followed and implemented. If found that off-site improvements would be necessary, the project Applicant shall pay in-lieu fees to the City for the future construction of those facilities.</p>	<p>Applicant’s Hydrologist and/or Hydraulics Engineer</p>	<p>At design review and plan check</p>	<p>Public Works Department</p>