

4. MITIGATION MONITORING AND REPORTING PROGRAM

4.1. INTRODUCTION

Section 21081.6 of the PRC requires a lead agency to 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” (Section 15097 of the CEQA Guidelines provides additional direction on mitigation monitoring or reporting). As lead agency for the Proposed Project, Metro is responsible for administering and implementing the MMRP. The decisionmakers must define specific monitoring requirements to be enforced during project implementation prior to final approval of the Proposed Project. The primary purpose of the MMRP is to ensure that the mitigation measures identified in the Draft and Final EIR are implemented, effectively minimizing the identified environmental effects.

4.2. PURPOSE

Table 4.1 has been prepared to ensure compliance with all mitigation measures identified in the Draft EIR and this Final EIR which would lessen or avoid potentially significant adverse environmental impacts resulting from implementation of the Proposed Project. Each mitigation measure is identified in Table 4.1 and is categorized by environmental topic and corresponding number, with identification of:

- Monitoring Action – The criteria that would determine when the measure has been accomplished and/or the monitoring actions to be undertaken to ensure the measure is implemented.
- Party Responsible for Implementing Mitigation – The entity accountable for the action.
- Enforcement Agency, Monitoring Agency, and Monitoring Phase – The agencies responsible for overseeing the implementation of mitigation and when the implementation is verified.

Table 4.1 Mitigation Monitoring and Reporting Program

Impact Area	Potential Effects	Mitigation Measures	Action	Responsible Party	1. Enforcement Agency 2. Monitoring Agency 3. Monitoring Phase
Aesthetics	Light and Glare	AES-1 Construction-related light fixtures shall be equipped with glare diffusers and feature directional shielding in order to avoid the spillover of light onto adjacent residences.	Equip construction lighting with glare diffusers and directional shielding	Metro/ Contractor	1. Metro 2. Metro 3. Construction
		AES-2 Permanent operations-related light fixtures shall feature directional shielding in order to avoid the spillover of backlight and uplight onto adjacent residences.	Equip permanent operations-related lighting with directional shielding	Metro/ Contractor	1. Metro 2. Metro 3. Operations
Cultural Resources	Significance of a Historical Resource	CR-1 Design measures shall be developed by the Project Architect and Engineer and implemented by the Project Contractor to minimize harm due to alterations to the 1 st Street Bridge. Design measures shall include surface treatment of new concrete to reflect but be distinguishable from the original board-form appearance, retention of the decorative brackets, and an infill treatment of the incising arches in a manner similar to the treatment used when the Bridge was first widened to accommodate the Eastside Light-Rail Extension of the Metro Gold Line Project.	Develop and implement design measures to minimize harm resulting from alterations to the 1 st Street Bridge.	Metro/ Contractor	1. Metro/City of Los Angeles Office of Historic Resources 2. Metro 3. Pre-construction
		CR-2 Metro shall conduct further historical research and analysis to document, in an exhibit, report, or website, the historic association and significance of the Citizens Warehouse/Lysle Storage Company building. The documentation shall include a discussion of who lived and worked in the building and its role in the early settlement history of the Arts District. A description of the construction history of the complex from 1888 until the present time shall also be included in the documentation. Copies of the report or exhibit shall be provided to the City of Los Angeles Public Library for public education purposes. The documentation shall be completed prior to commencement of any Project	Document the historic association and significance of the Citizens Warehouse/Lysle Storage Company building, including a discussion of its role in the early settlement history of the Arts District and its former occupants. Provide this research and analysis to the City of	Metro/ Cultural Resources Consultant	1. Metro/City of Los Angeles Office of Historic Resources 2. Metro 3. Prior to demolition of the Citizens Warehouse/Lysle Storage Company building

Impact Area	Potential Effects	Mitigation Measures	Action	Responsible Party	1. Enforcement Agency 2. Monitoring Agency 3. Monitoring Phase
		construction activities that could adversely affect the Citizens Warehouse/Lysle Storage Company building.	Los Angeles Public Library.		
Cultural Resources	Significance of a Historical Resource	<p>CR-3 Metro shall do the following to minimize impacts to the Citizens Warehouse/Lysle Storage Company building:</p> <p>A. Metro shall retain and stabilize approximately 24,000 square feet of floor area of the extant portion of the Citizens Warehouse/Lysle Storage Company building along Center Street (8,000 square feet per story on the basement, the ground floor, and the second floor), including the former location of the Art Dock, for potential future reuse.</p> <ol style="list-style-type: none"> 1. Stabilization of the remaining portions of the building to remain shall be designed and conducted in a manner consistent with the applicable SOI's Standards. The stabilization design shall be prepared prior to commencement of any of the Proposed Project's construction activities that could adversely affect the Citizens Warehouse/Lysle Storage Company building. 2. In order to preserve the maximum amount of historic materials comprising the floors and ceiling joists, Metro shall saw-cut through the first floor, second floor, and roof along the eastern side to be stabilized. 3. Demolition of the eastern portion of the building may not occur until after the stabilization (item A.1) and saw-cut (item A.2) are complete. 	Prepare and implement a plan to retain, stabilize, and preserve the opportunity to expand the Citizens Warehouse/Lysle Storage Company building for potential reuse and retain eligibility for designation as a City of Los Angeles Historic-Cultural Monument.	Metro/ Contractor	<ol style="list-style-type: none"> 1. Metro/City of Los Angeles Office of Historic Resources 2. Metro 3. Pre-construction

Impact Area	Potential Effects	Mitigation Measures	Action	Responsible Party	1. Enforcement Agency 2. Monitoring Agency 3. Monitoring Phase
		<p>4. Brick exterior cladding material, windows, and other character-defining materials and features obtained from the demolition of the eastern wall of the Citizens Warehouse/Lysle Storage Company building shall be salvaged and stored so that those original materials can be re-used to clad the southern façade of the existing building or to clad any proposed Pickle Works replication addition to the south.</p> <p>B. Metro shall consult with the Arts District community to identify an appropriate future use for the Citizens Warehouse/Lysle Storage Company building. Renovations to accommodate the new use shall not preclude the building’s eligibility to be considered as a City of Los Angeles Historic-Cultural Monument.</p> <p>C. Upon identification of an appropriate future use for the Citizens Warehouse/Lysle Storage Company building, Metro shall develop an adaptive reuse plan in consultation with the Los Angeles Conservancy and the City of Los Angeles Office of Historic Resources. The adaptive reuse plan shall:</p> <ol style="list-style-type: none"> 1. Develop an adaptive reuse design for historic rehabilitation consistent with the SOI’s Standards for Rehabilitation to a total of up to approximately 26,700 square feet of floor area. <ol style="list-style-type: none"> a. The adaptive reuse design shall include replication of the original southern façade of the former Pickle Works building to the maximum extent possible. 			

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		<ul style="list-style-type: none"> b. The adaptive reuse plan shall be developed by Metro in consultation with the Los Angeles Conservancy and the City of Los Angeles Office of Historic Resources to ensure that adequate guidance is in place for historic rehabilitation principles to be incorporated into the needs of potential future reuse. c. Metro shall obtain the services of a firm specializing in historic preservation rehabilitation projects to provide guidance for development of the plan. D. Metro shall do the following to enable the Cultural Heritage Commission's consideration of the Citizens Warehouse/Lysle Storage Company as a City of Los Angeles Historic-Cultural Monument: <ul style="list-style-type: none"> 1. Ensure the following character-defining features are preserved in the adaptive reuse design along the north and west elevations to convey the building's association with the Los Angeles Arts District during the 1970s and 1980s: <ul style="list-style-type: none"> a. Common-bond brick work b. Patterned but irregular spacing of fenestration and openings c. Segmentally arched windows of variegated dimensions d. Four-part corbelling at west and north elevation rooflines e. Ceramic insulators affixed to west elevation f. Sawtooth element at roof 			

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		<ul style="list-style-type: none"> g. Recessed wood-frame multi-light windows h. Faux shutters and planters i. The Art Dock bay, located at 112 Center Street (west elevation, second dock from north) j. Elevated single-bay loading docks k. Basement windows l. Stucco-capped stepped parapets at the roofline <p>4. Apply to the City of Los Angeles Office of Historic Resources and Cultural Heritage Commission for their consideration of the Citizens Warehouse/Lysle Storage Company to be designated as a City of Los Angeles Historic-Cultural Monument.</p> <ul style="list-style-type: none"> a. The application shall base the statement of significance on the building's association with the Los Angeles Arts District during the 1970s and 1980s under Criterion 1: Is identified with important events of national, state, or local history, or exemplifies significant contributions to the broad cultural, economic or social history of the nation, state, city or community. b. The nomination for Historic-Cultural Monument status would be prepared after the stabilization is complete. <p>E. Metro shall preserve the opportunity to expand the Citizens Warehouse/Lysle Storage Company building towards the 1st Street Bridge to provide up to approximately 2,700 square feet of floor area (900 square feet per</p>			

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		<p>story on the basement, the ground floor, and the second floor). The determination whether to expand the building towards the 1st Street Bridge shall be made by Metro in consultation with the Arts District community, the Los Angeles Conservancy, and the City of Los Angeles Office of Historic Resources.</p> <p>1. Any expansion of the building towards the 1st Street Bridge area shall be conducive to replicating the appearance of the no-longer extant portion of the former Pickle Works building built in 1888, which was demolished by a different entity for a previous project – the widening of the 1st Street Bridge.</p> <p>F. A certificate of occupancy shall be recorded on the property for the future reuse within five years of Metro’s purchase of the property from the City.</p>			
		<p>CR-4 Metro shall prepare a report that documents, in-depth, the history and context of ice making and cold storage facilities in Los Angeles and the role played by National Ice and Cold Storage during its most significant years. Copies of the report shall be provided to the City of Los Angeles Public Library for public education purposes. The report shall be prepared prior to any demolition activities that would affect the National Ice and Cold Storage facility.</p>	<p>Prepare report on the history and context of ice making and cold storage facilities in Los Angeles and the role played by National Ice and Cold Storage during its most significant years. Provide copies of the report to the City of Los Angeles Public Library.</p>	<p>Metro/Cultural Resources Consultant</p>	<p>1. Metro/City of Los Angeles Office of Historic Resources 2. Metro 3. Prior to demolition of National Ice and Cold Storage facility.</p>
<p>Cultural Resources</p>	<p>Significance of an Archaeological Resource</p>	<p>CR-5 A qualified archaeologist who meets the standards of the Secretary of the Interior for Archaeology (Project Archaeologist) shall be retained to</p>	<p>1. Retain qualified archaeologist 2. Develop CRMMP</p>	<p>Metro/Project Archaeologist</p>	<p>1. Metro/California Office of Historic Preservation 2. Metro</p>

Impact Area	Potential Effects	Mitigation Measures	Action	Responsible Party	1. Enforcement Agency 2. Monitoring Agency 3. Monitoring Phase
		<p>provide and supervise archaeological monitoring of all project-related, ground-disturbing construction activities (e.g., boring, grading, excavation, drilling, trenching) that occur after existing pavement and buildings are removed. A Cultural Resources Monitoring and Mitigation Plan (CRMMP) shall be developed prior to the start of ground-disturbing activities outlining qualifications and roles of the Project Archaeologist and archaeological monitor, monitoring procedures, reporting requirements, and procedures to follow if cultural resources are encountered during construction.</p> <p>The Project Archaeologist shall prepare monthly cultural resources monitoring progress reports to be filed with Metro. In the event that cultural resources are exposed during construction, the archaeological monitor shall temporarily halt construction within 50 feet (15 meters) of the discovery (if safe) while the potential resource is evaluated for significance (i.e., eligible for listing in the CRHR per PRC Section 5024.1 (c), or in a local register of historical resources as defined in PRC Section 5020.1 (k)). Construction activities could continue in other areas that are a distance of at least 50 feet from the discovered resource. If the discovery proves to be significant, representatives of Metro and the Project Archaeologist shall meet to determine the appropriate avoidance or minimization measures. In considering suggested mitigation, Metro shall determine whether avoidance and preservation in place is feasible in light of such factors as the nature of the find, the Proposed Project design, costs, and other considerations. Under CEQA Guidelines Section 15126.6(b)(3), preservation in place is the preferred method of mitigation and, if feasible, shall be adopted to mitigate impacts to</p>	<ol style="list-style-type: none"> 3. Monitor all ground-disturbing activities 4. Monthly Reports 5. Discovery Protocols 6. Data Recovery 		<ol style="list-style-type: none"> 3. Construction

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		<p>historical resources of an archaeological nature unless the lead agency determines that another form of mitigation is available and provides superior mitigation of the impacts. If avoidance and preservation in place is infeasible, other appropriate measures, such as data recovery excavation, shall be instituted. If data recovery is deemed appropriate, a Treatment or Data Recovery Plan (Plan) outlining the field and laboratory methods to be used shall be prepared by the Project Archaeologist in accordance with CEQA Guidelines Section 15064.5(f) and approved by Metro prior to initiation of data recovery work. The Plan shall specify the appropriate treatment and/or curation of collected materials.</p>			
Cultural Resources	Destruction of Paleontological Resource or Site or Unique Geologic Feature	<p>CR-6 A qualified paleontological monitor shall be retained to monitor project-related excavation activities on a full-time basis in previously undisturbed Pleistocene deposits, if encountered. Project-related excavation activities of less than ten feet in depth shall be monitored on a part-time basis to ensure that underlying paleontologically sensitive sediments are not being affected. In addition, the monitor shall ensure the proper differentiation between paleontological and archaeological resources.</p>	<ol style="list-style-type: none"> 1. Full-time monitoring in area of undisturbed Pleistocene deposits 2. Part-time monitoring when excavation is less than ten feet. 3. Review recovered resources to differentiate between paleontological and archaeological resources 	Metro/ Paleontological Monitor	<ol style="list-style-type: none"> 1. Metro 2. Metro 3. Construction

Impact Area	Potential Effects	Mitigation Measures	Action	Responsible Party	1. Enforcement Agency 2. Monitoring Agency 3. Monitoring Phase
		<p>CR-7 A Paleontological Monitoring and Mitigation Plan (PMMP) shall be developed by a qualified professional paleontologist prior to the start of ground-disturbing activities. A qualified professional paleontologist shall be retained to supervise the monitoring of construction. Paleontological resource monitoring shall include inspection of exposed geologic units during active excavations within sensitive geologic sediments, as defined by the PMMP and as needed. The monitor shall have authority to temporarily divert grading away from exposed fossils in order to efficiently recover the fossil specimens and collect associated data. The qualified paleontologist shall prepare monthly progress reports to be filed with Metro. 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. Matrix sampling shall be conducted to test for the presence of microfossils.</p>	<ol style="list-style-type: none"> 1. PMMP development 2. Retain paleontologist 3. Monitoring 4. Monthly reporting 5. Matrix sampling 	Metro/ Paleontological Monitor	<ol style="list-style-type: none"> 1. Metro 2. Metro 3. Pre-construction/ Construction
Cultural Resources	Destruction of a Paleontological Resource or Site or Unique Geologic Feature	<p>CR-8 Recovered fossils 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. The most likely repository would be the Natural History Museum of Los Angeles County.</p>	Curate recovered fossils and deposit in designated curation facility.	Metro/ Paleontological Monitor	<ol style="list-style-type: none"> 1. Metro 2. Metro 3. Construction
	Disturbance of Human Remains	<p>CR-9 In the event that human remains, as defined above, are encountered at the Project Site, procedures specified in the Health and Safety Code Section 7050.5, Public Resources Code Section 5097.98, and the California Code of Regulations Section 15064.5(e) shall be followed. In this event, all work within 100 feet (30 meters) of the burial shall cease, and any necessary steps to ensure the integrity of the immediate area shall be taken. This shall include establishment of a temporary Environmentally</p>	<ol style="list-style-type: none"> 1. Cease work within 100 feet of discovery. 2. Notify Los Angeles County Coroner 3. Preserve in place/reburial/repatriation of remains in 	Metro/ Archaeological Monitor	<ol style="list-style-type: none"> 1. Los Angeles County Department of Medical Examiner-Coroner 2. Metro 3. Construction

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		<p>Sensitive Area (ESA) marked with stakes and flagging tape around the find and 100-foot buffer. The Los Angeles County Coroner shall be immediately notified. The Coroner must then determine whether the remains are Native American. Work shall continue to be diverted while the Coroner determines whether the remains are Native American. Should the Coroner determine that the remains are Native American, the Coroner has 24 hours to notify the NAHC, who shall in turn, notify the person they identify as the most likely descendent (MLD) of any human remains. Further actions shall be determined in consultation with the MLD. Upon being granted access to the site, the MLD has 48 hours to make recommendations regarding the treatment or disposition of the remains of the discovery. If requested by the MLD, measures shall be taken to the extent feasible to preserve and protect the remains in situ. If preservation in place is not feasible in light of such factors as the nature of the find, the Proposed Project design, costs, and other considerations, the appropriate treatment, reburial, or repatriation of the remains shall be determined in consultation with the MLD. If the MLD does not make recommendations within 48, Metro shall, with appropriate dignity, reinter the remains in an area of the property secure from further disturbance. Alternatively, if Metro does not accept the MLD's recommendations, Metro or the MLD may request mediation by the NAHC. The location of the remains shall be kept confidential and secured from disturbances and looting until the appropriate treatment has been identified and implemented. No information regarding the discovery of human remains shall be publicized.</p>	<p>consultation with MLD</p>		

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Noise and Vibration	Exceedance of Applicable Standards	<p>NV-1 The Contractor shall submit a Noise Control and Monitoring Plan to Metro that is prepared, stamped, and administered by the Contractor's Acoustical Engineer. This plan shall state that:</p> <ul style="list-style-type: none"> • Equipment shall include enclosed engines, acoustically attenuating shields, and/or high-performance mufflers; • Equipment and staging areas shall be located away from noise-sensitive receivers; • Idling of construction equipment shall be restricted to a maximum of five minutes, except as provided in the exceptions to the applicable California Air Resources Board regulations regarding idling; • Temporary noise barriers and/or noise control curtains shall be installed; • Construction-related truck traffic shall be routed away from local residential streets and/or sensitive receivers; • Impact pile driving shall be prohibited; • The use of impact devices such as jackhammers and hoe rams shall be minimized, using concrete crushers and pavement saws instead; • The Noise Control and Monitoring Plan shall include a site drawing, an inventory of equipment, calculations of the one-hour L_{eq} noise levels at sensitive receptors (i.e., OSF), and compliance with FTA noise criteria. <p>An updated Noise Control and Monitoring Plan shall be completed and submitted within ten days of the start of each quarterly period, or whenever there is a major change in work schedule, construction methods, or equipment operations.</p>	Prepare Noise Control and Monitoring Plan and submit to Metro.	Metro/ Contractor	1. Metro 2. Metro 3. Pre-construction

Impact Area	Potential Effects	Mitigation Measures	Action	Responsible Party	1. Enforcement Agency 2. Monitoring Agency 3. Monitoring Phase
Noise and Vibration	Exceedance of Applicable Standards	<p>NV-2 Metro shall install low-impact frogs at locations with special trackwork. This applies to the OSF-adjacent storage yard and yard tracks within a 200-foot radius of the northern portion of the northern OSF building. This also applies to existing yard tracks leading to the Maintenance Facility, as well as new yard tracks within a 200-foot radius of the northern portion of the southern OSF building.</p>	Install low-impact frogs	Metro/ Contractor	<p>1. Metro 2. Metro 3. Construction</p>
	Exposure of Persons to or Generation of Excessive Groundborne Vibration or Noise	<p>NV-3 The Contractor shall submit a Vibration Monitoring Plan to Metro that is prepared, stamped, and administered by the Contractor's Acoustical Engineer. This plan shall include:</p> <ul style="list-style-type: none"> • A survey of OSF building foundations with photographs of existing conditions limited to buildings within 25 feet of high-vibration-generating construction activities. Another survey shall be completed at the end of construction activities to assess potential damage. Damaged structures shall be returned to the preconstruction state by the Contractor. • A requirement to monitor vibration at any building where vibratory rollers or similar high-vibration-generating equipment would be operated within 25 feet of buildings and at any location where complaints about vibration are received from building occupants. Construction activities shall be stopped and alternative methods introduced if vibration levels exceed 0.2 inches per second at OSF. Examples of high-vibration construction activities include the use of vibratory compaction or hoe rams next to sensitive buildings. Alternative procedures include use of non-vibratory compaction in limited areas and a concrete saw in place of a hoe ram to break up pavement. 	Prepare Vibration Monitoring Plan and submit to Metro.	Metro/ Contractor	<p>1. Metro 2. Metro 3. Pre-construction</p>

Impact Area	Potential Effects	Mitigation Measures	Action	Responsible Party	1. Enforcement Agency 2. Monitoring Agency 3. Monitoring Phase
		<ul style="list-style-type: none"> Nighttime construction activities near OSF shall not include equipment operations within the minimum distances shown in Table 3.7.9. 			
Tribal Cultural Resources		<p>TCR-1 Because of the potential for tribal cultural resources, a Native American monitor shall be retained to monitor all project-related, ground-disturbing construction activities (e.g., boring, grading, excavation, drilling, trenching) that occur after existing pavement and buildings are removed. The appropriate Native American monitor shall be selected based on ongoing consultation under AB 52 and shall be identified in the Cultural Resources Monitoring and Mitigation Plan (CRMMP), as described in Mitigation Measure CR-5. Monitoring procedures and the role and responsibilities of the Native American monitor shall be outlined in the project CRMMP. In the event the Native American monitor identifies cultural or archeological resources, the monitor shall be given the authority to temporarily halt construction (if safe) within 50 feet (15 meters) of the discovery to investigate the find and contact the Project Archaeologist and Metro. The Native American monitor and consulting tribe(s) shall be provided an opportunity to participate in the documentation and evaluation of the find. If a Treatment Plan or Data Recovery Plan is prepared, the consulting tribe(s) shall be provided an opportunity to review and provide input on the Plan.</p>	Retain Native American Monitor	Native American Monitor/ Project Archaeologist	<ol style="list-style-type: none"> Metro Metro Construction

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