

1.0 MITIGATION MONITORING AND REPORTING PROGRAM

1.1 Public Resources Code

When approving projects with Initial Studies (IS) that identify significant impacts, the California Environmental Quality Act (CEQA) requires public agencies to adopt monitoring and reporting programs or conditions of project approval to mitigate or avoid the identified significant effects (Public Resources Code Section 21081.6(a)(1)). A public agency adopting measures to mitigate or avoid the significant impacts of a proposed project is required to ensure that the measures are fully enforceable, through permit conditions, agreements, or other means (Public Resources Code Section 21081.6(b)). The program must be designed to ensure project compliance with mitigation measures during project implementation.

The Mitigation Monitoring and Reporting Program (MMRP) is organized in a table format (see Table 1: Mitigation Monitoring and Reporting Program for the Adobe Road and Main Street Intersection Improvements Project), keyed to each significant impact and each mitigation measure. Only mitigation measures adopted to address significant impacts are included in this program. Each mitigation measure is set out in full, followed by a tabular summary of monitoring requirements. The column headings in the tables are defined as follows:

- **Mitigation Measures:** This column presents the mitigation measure identified in the Initial Study Mitigated Negative Declaration (IS/MND).
- **Monitoring/Reporting Responsibility:** This column contains an assignment of responsibility for the monitoring and reporting tasks.
- **Timing of Implementation:** This column refers to when the measure is required to be implemented.
- **County Staff/Notes:** This column will be used by the lead agency to document the person who verified the implementation of the mitigation measure and the date on which this verification occurred.

1.2 Enforcement

If the project is approved, the MMRP for the development would be incorporated as a condition of such approval. Therefore, all mitigation measures for significant impacts must be carried out to fulfill the requirements of approval. A number of the mitigation measures would be implemented during the course of the development review process. These measures would be checked on plans, in reports, and in the field prior to construction. Most of the remaining mitigation measures would be implemented during the construction, or project implementation phase

Table 1: Mitigation Monitoring and Reporting Program for the Adobe Road and Main Street Intersection Improvements Project

Mitigation Measure	Monitoring/ Reporting Responsibility	Timing of Implementation	County Staff Notes; Initials/Date when Done
Biological Resources			
<p>MM BIO 4.4-1: Environmental Training Prior to the commencement of project-related activities, a qualified biologist shall provide an environmental awareness training program to educate project personnel on relevant special-status species and their habitats, sensitive/regulated habitats, and applicable environmental laws and permits. The training shall include a description of the species and their habitats, importance of preserving species and habitats, penalties for unauthorized take, and the project limits.</p>	Sonoma County, Qualified Biologist	Prior to commencement of project-related activities	
<p>MM BIO 4.4-2: Special-Status Amphibians and Reptiles A qualified biologist shall conduct preconstruction surveys for special-status amphibians and reptiles (California red-legged frog, foothill yellow-legged frog, and western pond turtle) within two days of project commencement.</p> <p>In the event that California red-legged frog, foothill yellow-legged frog, or western pond turtle are found on the project site, the individual(s) shall be allowed to leave the area of their own volition. Prior to resumption of project-related activities, suitable wildlife exclusion fencing shall be installed along the outside edge of project work limits along the boundary with the unnamed intermittent drainage feature to ensure that individuals are precluded from entering active work areas. The fencing shall be monitored for routine maintenance and should be permanent enough to ensure that it remains in good condition throughout the duration of the construction period at the project site. In lieu of exclusion fencing, a qualified biologist shall conduct monitoring for the duration of project-related activities at the location and in the vicinity of the previous detection.</p> <ul style="list-style-type: none"> To prevent inadvertent entrapment of amphibian and reptile species, all steep-walled excavations or trenches shall be covered or provided with a wildlife escape ramp at the end of each working day. Before these holes or 	Sonoma County, Qualified Biologist	Within two days of project commencement, prior to resumption of project-related activities, and during construction	

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<p>trenches are filled, they shall be thoroughly inspected for entrapped wildlife by a qualified biologist.</p> <ul style="list-style-type: none"> To prevent inadvertent entrapment of amphibian and reptile species, no plastic monofilament netting shall be allowed on the project site. All trash items shall be removed from the project site to reduce the potential for attracting predators of the California red-legged frog, foothill yellow-legged frog, and western pond turtle. 			
<p>MM BIO 4.4-3: Nesting Birds and Raptors Tree and vegetation clearing (removal, pruning, trimming, and mowing) shall be scheduled to occur outside the migratory bird nesting season (February 1 through August 31). However, if clearing and/or construction activities will occur during the migratory bird nesting season, then preconstruction surveys to identify active migratory bird and/or raptor nests shall be conducted by a qualified biologist within 14 days of construction initiation on the project site and within 300 feet (i.e., zone of influence) of project-related activities. The zone of influence includes areas outside the project site where birds could be disturbed by construction-related noise or earth-moving vibrations.</p> <p>If active nest, roost, or burrow sites are identified within the project site, a no disturbance buffer shall be established for all active nest sites prior to commencement of any proposed project-related activities to avoid construction or access-related disturbances to migratory bird nesting activities. A no-disturbance buffer constitutes a zone in which proposed project-related activities (e.g., vegetation removal, earth moving, and construction) cannot occur. A minimum buffer size of 50 feet for passerines and 300 feet for raptors shall be implemented; sizes of the buffers shall be determined by a qualified biologist based on the species, activities proposed near the nest, and topographic and other visual barriers. Buffers shall remain in place until the young have departed the area or fledged and/or the nest is inactive, as determined by the qualified biologist. If work is required within a buffer zone of an active bird nest, work may occur under the supervision of a</p>	<p>Sonoma County, Qualified Biologist, Qualified Avian Biologist</p>	<p>Within 14 days of construction initiation and during construction</p>	

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<p>qualified avian biologist. The qualified avian biologist monitoring the construction work shall have the authority to stop work and adjust buffers if any disturbance to nesting activity is observed.</p>			
<p>MM BIO 4.4-4: Lake or Streambed Alteration Agreement Obtain CDFW Section §1600 Lake or Streambed Alteration Agreement. If project activities impact the riparian zone subject to CDFW jurisdiction, the project proponent shall obtain a Section §1600 Lake or Streambed Alteration Standard Agreement from CDFW prior to project construction commencement. The Notification shall include a description of impacts, including quantification of impacts to bed, bank, and channel, as well as individual trees, area and linear footage of riparian vegetation, and proposed mitigation for impacts. The project shall be subject to and comply with all requirements of the permit, including but not limited to removed tree replacements and success monitoring.</p>	<p>Sonoma County, California Department of Fish and Wildlife</p>	<p>Prior to the commencement of construction</p>	
<p>MM BIO 4.4-5: Obtain RWQCB CWA Section 401 and/or Porter-Cologne Authorization, Obtain USACE CWA Section 404 If project-related activities encroach on areas, including the riparian zone and canopy of the unnamed intermittent drainage, and below ordinary high-water mark of the drainage and/or roadside ditch features, or other areas potentially regulated by the RWQCB/USACE, the project proponent shall obtain the appropriate CWA Section 401 Water Quality Certification and/or Porter-Cologne Waste Discharge Requirement approval from the RWQCB and/or CWA Section 404 permit from USACE prior to the discharge of any dredged or fill material within jurisdictional waters of the United States/state.</p> <p>In addition, the project proponent shall develop a SWPPP that will be submitted to Sonoma County as a condition of project approval demonstrating BMPs that shall be installed/implemented prior to project commencement. Stormwater protection and treatment measures shall be implemented to ensure that the proposed project remains in compliance with the Porter-Cologne Act and that discharges of dredged or fill material do not enter waters of the state.</p>	<p>Sonoma County, Regional Water Quality Control Board, United States Army Corps of Engineers</p>	<p>Prior to the discharge of any dredged or fill material, prior to project construction commencement, and during operation of the project</p>	

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<p>Mitigation compensation wetlands shall be enhanced/created for replacement of wetlands permanently impacted by the proposed project. If feasible, wetlands shall be enhanced/created on site and shall resemble wetlands impacted by the proposed project (i.e., in-kind replacement with no net loss of habitat values and functions). If wetlands cannot be created in-kind and on site, in lieu of creating compensation wetlands, the Applicant may purchase mitigation credits from a RWQCB/USACE-approved mitigation bank—at a minimum 1:1 ratio or a higher ratio as otherwise required by the RWQCB/USACE upon issuance of permits. If wetlands can be created in-kind and on site, the project proponent would need to establish a monitoring program to monitor the wetland(s) progress toward established goals (i.e., hydrological/vegetative conditions) and provide annual monitoring reports to RWQCB, USACE, and other resource agencies that permitted the Project. To meet success criteria, mitigation wetlands would need to at a minimum:</p> <ul style="list-style-type: none"> • Exhibit comparable plant/wildlife habitat characteristics to existing wetlands. • Remain inundated or saturated for a sufficient duration of time to support hydrophytic (i.e., wetland) vegetation. 			
<p>MM BIO 4.4-6: Bats A qualified biologist shall be hired to conduct surveys for roosting bats no more than two weeks prior to planned commencement of construction activities that have the potential to disturb bat day roosts or maternity roosts through elevated noise levels or removal of trees. If a visual survey is not sufficient to determine the presence/absence of bats, acoustic equipment (e.g., AnaBat) shall be used to determine potential occupancy type of species present.</p> <p>If an active maternity roost is detected, a qualified biologist shall determine an appropriate avoidance buffer to be maintained from April 1 until young are flying (typically through August). If an active day roost is detected in a tree or structure planned for removal, or within a zone of influence (i.e., noise, vibration) that could result in roost abandonment, as determined by a qualified biologist, the bats shall</p>	<p>Sonoma County, Qualified Biologist</p>	<p>Within two weeks prior to planned commencement of construction activities</p>	

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<p>be safely evicted under the guidance of a qualified biologist. Day roosts shall not be removed unless the daytime temperature is at least 50 degrees Fahrenheit and there is no precipitation. Mitigation for day roosts impacted by the Project will be achieved through the installation of bat houses on site to replace lost roosts at a 1:1 ratio. Replacement roosts will be placed at the discretion of the qualified biologist.</p>			
<p>MM BIO 4.4-7: Protected Trees Any proposed tree removal and work within tree drip lines would be evaluated by the County’s staff pursuant to the Heritage or Landmark Tree Ordinance. Any tree permit approved for the proposed project would include conditions of approval for the restitution of any tree approved to be removed, protection of remaining trees where work may occur within the driplines of the trees, and any other protection measures prescribed by the Project’s arborist. In accordance with the Heritage and Landmark Tree Ordinance, any Heritage or Landmark trees found to be on site shall be appropriately fenced beyond the dripline if they are to remain, or clearly marked if they are to be removed.</p> <p>Mitigation for the removal of any protected trees could include either the planting of native trees on the project site, planting trees elsewhere, or a compensatory alternative as approved by the County. Mitigation ratios will be calculated by the diameter at breast height (DBH) of removed trees, in accordance with the Sonoma County Tree Protection Ordinance.</p>	<p>Sonoma County, Project Arborist</p>	<p>Continuous</p>	

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<p>MM CUL 4.5-1: Construction Worker Awareness Training Prior to the start of ground disturbance, all construction personnel involved with earth-moving activities should be informed that artifacts protected by law could be discovered during excavating. The training should include the appearance of common artifacts and proper notification procedures should artifacts be discovered. This worker training should be prepared and presented by a qualified archaeological professional and Federated Indians of Graton Rancheria (FIGR) representative.</p>	<p>Sonoma County, Qualified Archaeological Professional, Federated Indians of Graton Rancheria (FIGR) Representative</p>	<p>Prior to the start of ground disturbance</p>	
<p>MM CUL 4.5-2: Subsurface Cultural Resources The Improvement Plans shall include the following statement: Prior to any ground disturbance the contractor shall demonstrate that a qualified archaeological monitor and a tribal monitor from the Federated Indians of Graton Rancheria (FIGR) have been retained to perform onsite construction monitoring during all ground disturbing activities within the project area. If any archaeological artifacts, exotic rock (non-native), or unusual amounts of shell or bone are uncovered during any on-site construction activities, all work shall be stopped immediately within a 50-foot radius of the find and the qualified archaeologist and FIGR tribal monitor shall evaluate the deposit. The archaeologist and FIGR tribal monitor shall 1) evaluate the find(s) to determine if they meet the definition of a historical, archaeological, or cultural resource; and (2) make appropriate recommendations regarding the disposition of such finds prior to any ground disturbance. The qualified archaeologist and FIGR tribal monitor shall have authority to halt construction activities temporarily in the immediate vicinity of an unanticipated find. If, for any reasons, the qualified archaeologist or FIGR tribal monitor is not present, but construction crews encounter a cultural resource, all work shall stop temporarily within 50 feet of the find until a qualified archaeologist and FIGR tribal monitor has been contacted to determine the proper course of action. If the finds do not meet the definition of a historical, archaeological, and</p>	<p>Sonoma County, Qualified Archaeological Professional, Federated Indians of Graton Rancheria (FIGR) Representative</p>	<p>Prior to any ground disturbance and during construction</p>	

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<p>cultural resources, no further study or protection is necessary prior to project implementation. If the find(s) does meet the definition of a historical, archaeological, or cultural resource, the find and the area around the find shall be avoided by project activities and a Cultural Resources Treatment Plan as described in MM 4.5-3 shall be implemented.</p>			
<p>MM CUL 4.5-3: Subsurface Cultural Resources Treatment Plan Prior to ground disturbing activities the qualified archeologist, in consultation with the Federated Indians of Graton Rancheria (FIGR), shall prepare an archaeological resources treatment plan. The treatment plan shall utilize data recovery methods to reduce impacts on subsurface resources. The treatment plan shall contain, at a minimum:</p> <ul style="list-style-type: none"> • Identification of the scope of work and range of subsurface effects (including location map and development plan), including requirements for preliminary field investigations. • Description of the environmental setting (past and present) and the historic/prehistoric background of the parcel (potential range of what might be found). • Development of research questions and goals to be addressed by the investigation (what is significant vs. what is redundant information). • Detailed field strategy, including reasonable and good faith efforts to consult with Native American representatives regarding the most appropriate method to record, recover, or avoid the finds and address research goals. • Analytical methods. • Report structure and outline of document contents. • Disposition of the artifacts. • Appendices: all site records, correspondence, and consultation with Native Americans, etc. <p>The treatment plan shall be prepared and submitted to County staff for review and approval prior to resuming work.</p>	<p>Sonoma County, Qualified Archaeological Professional, Federated Indians of Graton Rancheria (FIGR) Representative</p>	<p>Prior to ground disturbing activities</p>	

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<p>MM GEO 4.7-1: Paleontological Resource Discovery If any paleontological resources are encountered during ground-disturbance activities, all work within 25 feet of the find shall halt until a qualified paleontologist is able to evaluate the find and make recommendations regarding treatment. Paleontological resource materials may include resources such as fossils, plant impressions, or animal tracks preserved in rock. The qualified paleontologist shall contact the local or regional Natural History Museum or other appropriate facility regarding any discoveries of paleontological resources.</p> <p>If the qualified paleontologist determines that the discovery represents a potentially significant paleontological resource, additional investigations and fossil recovery may be required to mitigate adverse impacts from project implementation. If avoidance is not feasible, the paleontological resources shall be evaluated for their significance. If the resources are not significant, avoidance will not be required. If the resources are significant, they shall be avoided or recovered such that potential damaging effects are mitigated. Construction in that area shall not resume until approval of the qualified paleontologist and County are given. If the fossil is recovered the fossil shall be deposited in an accredited and permanent scientific institution. Copies of all correspondence and reports shall be submitted to the Lead Agency.</p>	<p>Sonoma County, Qualified Paleontologist</p>	<p>During ground- disturbance activities and construction</p>	