

Appendix G

**MITIGATION MONITORING AND REPORTING PROGRAM
SUMMARY TABLE**

The following mitigation monitoring and reporting program (MMRP) summary table includes the mitigation measures identified in the California Highway Patrol (CHP) Academy Drainage Channel Improvements Project Initial Study/Mitigated Negative Declaration (IS/MND). For each mitigation measure, this table identifies monitoring and reporting actions that shall be carried out, the party responsible for implementing these actions, and the monitoring schedule. This table also includes a column where responsible parties can check off monitoring and reporting actions as they are completed. It is the responsibility of the Contractor to ensure that actions required for all of the mitigation measures listed herein are included in the project plans and specifications. It is the responsibility of the State to review and confirm that all of the mitigation measure actions described herein are in the project plans and specifications.

Acronyms and Abbreviations

CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CHP	California Highway Patrol
CRHR	California Register of Historical Resources
CWA	Clean Water Act
DBH	diameter at breast height
DGS	California Department of General Services
IS/MND	initial study/mitigated negative declaration
MLD	Most Likely Descendant
MMRP	mitigation monitoring and reporting program
NAHC	Native American Heritage Commission
OSHA	Occupational Safety and Health Administration
WPT	Western pond turtle

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Mitigation Measure	Contractor Responsibility	State Responsibility	Monitoring Schedule	Completion Date and Initials	
Biological Resources					
<p>BIO-1</p>	<p>Implement Measures to Avoid Impacts on Valley Elderberry Longhorn Beetle.</p> <p>Before ground disturbance within 100 feet of any elderberry shrubs, a qualified biologist will identify any shrubs in the Project site that may have potential to support valley elderberry longhorn beetle. DGS or its contractor will establish a 20-foot buffer around shrubs and the Project footprint by installing temporary orange construction fencing (4-foot-high commercial-quality polypropylene). Within buffer areas, signs would be posted along fencing for the duration of construction. The signs would contain the following text:</p> <p><i>“This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the Federal Endangered Species Act of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment.”</i></p> <p>Dust emissions from construction equipment within 100 feet of an elderberry shrub shall be suppressed by the use of water. DGS would ensure that the Project site is watered down as necessary to prevent fugitive dust from becoming airborne and accumulating on the elderberry shrub.</p>	<ol style="list-style-type: none"> 1. Provide the state with advance notice of construction schedule and anticipated start date. Do not initiate construction activities until authorization is given from the State. 2. Assist the biologist with installation of buffer fencing and signage. 3. Proceed with construction activities after fencing and signage is intact. 4. Maintain suppression of dust emissions with the use of water. 	<ol style="list-style-type: none"> 1. Retain a qualified biologist to identify elderberry shrubs. 2. Ensure coordination between the qualified biologist and contractor to install buffer fencing and signage. 3. Authorize construction activities to proceed after the qualified biologist has confirmed that the signage and fencing is intact. 4. Ensure that dust suppression is maintained. 	<ol style="list-style-type: none"> 1. Prior to construction 2. Prior to construction 3. During construction 4. During construction 	

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BIO-2	<p>Conduct Preconstruction Surveys, Establish Buffers around Nests, and Implement Measures to Avoid or Minimize Impacts on Western Pond Turtle.</p> <p>Preconstruction surveys for western pond turtle (WPT) shall be conducted by a qualified biologist within 24 hours before the start of construction activities where suitable habitat exists (i.e., riparian areas, freshwater emergent wetlands, and adjacent uplands).</p> <p>WPTs found within the construction area will be allowed to leave on their own volition or will be relocated by the qualified biologist out of harm’s way to suitable habitat immediately upstream or downstream of the Project site. To be qualified to move turtles, the biologist shall possess a valid memorandum of understanding from California Department of Fish and Wildlife (CDFW) authorizing the capture and relocation of turtles.</p> <p>If a WPT nest is identified in the work area during preconstruction surveys or during construction, a 50-foot no-disturbance buffer shall be established between the nest and any areas of potential disturbance. Buffers will be clearly marked with temporary fencing. Construction will not be allowed to commence in the exclusion area until hatchlings have emerged from the nest or the nest is deemed inactive by a qualified biologist.</p>	<ol style="list-style-type: none"> 1. Provide the State with advance notice of construction schedule and anticipated start date. Do not initiate construction activities until authorization is received from the State. 2. Halt construction and notify the State/qualified biologist if WPT are found in the construction area during construction activities. Do not touch or move the WPT. 3. Assist the qualified biologist with installation of no-disturbance buffer fencing around any active WPT nests. 4. Ensure that construction activities do not commence within 	<ol style="list-style-type: none"> 1. Retain a qualified biologist to conduct preconstruction surveys for WPT no more than hours before the start of construction activities where suitable habitat exists for WPT. 2. Authorize the commencement of construction activities after receiving confirmation from the qualified biologist that WPT are not present in the construction area. 3. Ensure coordination between qualified biologist and 	<ol style="list-style-type: none"> 1. Prior to construction 2. Prior to construction/ during construction 3. Prior to Construction/ during construction 4. Prior to construction/ during construction 	

Mitigation Measure		Contractor Responsibility	State Responsibility	Monitoring Schedule	Completion Date and Initials
		exclusion area until authorization is received from the qualified biologist.	contractor for installation of no-disturbance buffer fencing around WPT nests. 4. Authorize construction activities to proceed within exclusion area if a qualified biologist has confirmed that hatchlings have emerged or the nest is deemed inactive by the qualified biologist.		
BIO-3	<p>Conduct Nesting Bird Surveys for work between February 15 and August 31 and Implement Avoidance Measures (if necessary).</p> <p>If construction activities commence between February 15 and August 31, a qualified biologist shall conduct a nesting bird survey in all accessible areas of suitable nesting habitat. Surveys for raptors will extend out to 500 feet of construction activities and 100 feet for passerines. The survey shall be conducted within 2 weeks prior to the start of work. If a lapse in Project-related work of 2 weeks or longer occurs, another focused survey shall be conducted</p>	1. Provide the State with advance notice of construction schedule and anticipated start date. Do not initiate construction activities until authorization is received from the State.	1. Retain a qualified biologist to conduct pre-construction surveys of construction work area within two weeks before construction activity.	1. Prior to construction 2. Prior to construction/ during construction 3. Prior to construction/ during construction	

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<p>before Project work can be reinitiated. Timing of these surveys shall be appropriate to detect Swainson’s hawks and white-tailed kite, if they are suspected of nesting in the vicinity of the Project.</p> <p>If nesting birds are found, a buffer shall be established around the nest and maintained until the young have fledged. Appropriate buffer widths are 500 feet for listed raptors, 300 feet for non-listed raptors and special-status passerines, and 100 feet for non-listed passerines. A qualified biologist may identify an alternative buffer based on a site-specific evaluation and in consultation with CDFW. Work shall not commence within the buffer until fledglings are fully mobile and no longer reliant upon the nest or parental care for survival.</p>	<ol style="list-style-type: none"> 2. Inform the State if no work occurs for a period of 2 or more weeks during the nesting season. 3. If nesting birds are found, remain out of buffer zones until authorization is received from the State. 	<ol style="list-style-type: none"> 2. Ensure that if no construction work occurs for a period of 2 or more weeks during the nesting season, the qualified biologist performs another survey before work is resumed. 3. Authorize construction activities to proceed if a qualified biologist has confirmed that the young have fledged or that any nests located in the buffer are no longer active. 		
<p>BIO-4 Conduct Preconstruction Surveys and Implement Measures to Avoid or Minimize Impacts on Bat Colonies</p> <p>The following measures shall be implemented to minimize impacts on individual colonial bats using trees for temporary roosts, and obligate tree bats, such as hoary bats:</p>	<ol style="list-style-type: none"> 1. Provide the State with advance notice of construction schedule and anticipated start date. Do not remove any trees 	<ol style="list-style-type: none"> 1. Retain a qualified biologist to assess all trees that are scheduled for removal for the presence of bats. 	<ol style="list-style-type: none"> 1. Prior to construction 2. Prior to construction/ prior to the removal of trees 	

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<ul style="list-style-type: none"> ▪ Prior to removal of trees a qualified biologist shall assess trees to be removed for potential bat habitat. If the biologist determines that no bats are present in tree(s), then they may be removed. ▪ For trees that provide potential bat habitat, tree removal shall occur between March 1 and April 15 or between August 31 and October 15 to avoid the bat maternity season and winter torpor period, unless a focused survey determines that bats are not roosting in the tree(s). ▪ A two-stage tree removal process over two consecutive days shall be implemented for trees that may support colonial roosts (i.e., trees with cavities, crevices, or exfoliating bark) unless a focused survey conducted by a qualified bat biologist determines that no bats are present in tree(s) to be removed. The two-stage tree removal process is as follows: <ul style="list-style-type: none"> – Step 1: small branches and small limbs containing no cavity, crevice or exfoliating bark are removed with chainsaws under field supervision by a qualified bat biologist. – Step 2: the remainder of the tree is to be removed the following day. The disturbance caused by chainsaw noise and vibration, coupled with the physical alteration, has the effect of causing colonial bat species to abandon the roost tree after nightly emergence for foraging. Removing the tree the next day prevents re-habitation and re-occupation of the altered tree. 	<p>until authorization is received from the State.</p> <p>2. If the qualified biologist determines that trees provide potential bat habitat, follow the procedures detailed in this Mitigation Measure.</p>	<p>2. Ensure that the qualified biologist and contractor follow the procedures detailed in this Mitigation Measure if the biologist determines that trees provide potential habitat for bats.</p>		

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BIO-5	<p>Implement Revegetation within Riparian Habitat and Sensitive Natural Communities Disturbed during Construction.</p> <p>Upon completion of construction, any plants of native woody species of 4 inches in diameter at breast height (dbh) or greater that are damaged or removed as result of construction activity shall be replaced at a 1:1 ratio; this ratio will increase to 3:1 for native trees of 24 inches dbh and greater. Replaced woody plant species shall be maintained and monitored to ensure a minimum of 65 percent survival of woody plantings after 3 years.</p>	<ol style="list-style-type: none"> 1. Provide the State with advance notice of construction schedule and anticipated start date. Do not disturb or remove any vegetation until authorization is received from the State. 2. Coordinate with the State/qualified biologist to implement revegetation practices for damaged/removed vegetation as outlined in this mitigation measure. 	<ol style="list-style-type: none"> 1. Retain a qualified biologist to assess all riparian habitat and sensitive natural communities prior to construction to obtain baseline conditions of existing vegetation. 2. Coordinate with the Contractor/qualified biologist to implement revegetation practices for damaged removed vegetation as outlined in this mitigation measure. 	<ol style="list-style-type: none"> 1. Prior to construction 2. After construction 	
BIO-6	<p>Obtain Regulatory Permits for Work Activities Taking Place in Wetlands and Waters of the United States and the State</p> <p>Work within areas defined as waters of the U.S. that includes placement of fill will require a CWA Section 404 permit and Section 401 Water Quality Certification. All work proposed in jurisdictional waters of the U.S. shall be</p>	<ol style="list-style-type: none"> 1. Do not start construction until all regulatory permits are obtained. 2. Comply with all conditions 	<ol style="list-style-type: none"> 1. Ensure that all regulatory permits are obtained for work within wetlands and waters of the 	<ol style="list-style-type: none"> 1. Prior to construction 2. During construction 	

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	authorized under these permits, and the work shall comply with the general and regional conditions of the permits. In areas where disturbance to jurisdictional waters or wetlands occurs, the State shall implement mitigation, if deemed necessary, consistent with the terms of a CWA Nationwide Permit and/or the Final Rule on Compensatory Mitigation for Losses of Aquatic Resources (73 CFR § 19594). Compensatory mitigation may include creation, reestablishment, or enhancement of wetlands at an on-site or off-site location. Compensatory mitigation may also include purchase of credits at an approved mitigation bank or contribution to an approved in-lieu fee program.	described in regulatory permits.	United States and state. 2. Provide regulatory permit compliance oversight. Confirm that mitigation is consistent with terms of the permit.		
Cultural Resources					
CR-1	<p>Pre-construction Cultural Resources Awareness Training and Construction Monitoring.</p> <p>A cultural resources awareness training program will be provided to all construction personnel active on the Project site during earth moving activities. The training will be provided prior to the initiation of ground disturbing activities. The training will be developed and conducted in coordination with a qualified archaeologist meeting the U.S. Secretary of Interior guidelines for professional archaeologists. A representative or representatives from culturally affiliated Native American tribe(s) who have participated in consultations with California Department of General Services (DGS) will be invited to participate in the training. The program will include relevant information regarding sensitive cultural resources, including applicable regulations, protocols for avoidance, and consequences of violating State laws and regulations. The worker cultural</p>	<ol style="list-style-type: none"> 1. Ensure that all construction personnel receive the cultural resources awareness training. 2. Ensure that Channel CH2 excavations do not occur unless an archaeologist is present. 	<ol style="list-style-type: none"> 1. Retain an archaeologist to prepare and provide cultural resources awareness training. 2. Retain a qualified archaeologist to provide monitoring services for Channel CH2 excavation and invite Native American tribes to observe excavation 	<ol style="list-style-type: none"> 1. Prior to construction 2. During construction 	

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	<p>resources awareness program will also describe appropriate avoidance and minimization measures for resources that have the potential to be located on the Project site and will outline what to do and whom to contact if any potential archaeological resources or artifacts are encountered. The program will also underscore the requirement for confidentiality and culturally appropriate treatment of any finds of significance to Native Americans, consistent with Native American tribal values.</p> <p>Excavations to deepen Channel CH2 will be monitored by a qualified archaeologist meeting the U.S. Secretary of Interior guidelines for professional archaeologists. Interested Native American tribes will be invited to observe Project excavation activities with the archaeologist, and will be provided at least seven days' notice prior to the initiation of ground disturbing activities. The archaeological monitor will record activities daily and a weekly summary will be provided to DGS. A monitoring report will be prepared at the end of excavation activities and submitted to DGS.</p>		<p>activities in accordance with the mitigation measure.</p>		
CR-2	<p>Response Measures for Potential Unknown Archaeological Resources and Tribal Cultural Resources.</p> <p>If evidence of any subsurface archaeological features or deposits are discovered during construction-related earth-moving activities (e.g., lithic scatters, midden soils, historic era farming or construction materials), all ground-disturbing activity in the area of the discovery shall be halted within 100 feet of the find until a qualified archaeologist and Native American representative from a traditionally and culturally affiliated tribe, as appropriate,</p>	<ol style="list-style-type: none"> 1. Coordinate with the State to provide workers information about potential buried cultural resources. 2. If any cultural resources are discovered, halt construction 	<ol style="list-style-type: none"> 1. Provide workers information about potential buried cultural resources. 2. Confirm that any discoveries of archaeological finds are evaluated and 	<ol style="list-style-type: none"> 1. Prior to construction 2. During construction, if necessary 3. Following any cultural resource discovery 	

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<p>can assess the significance of the find and make recommendations for further evaluation and treatment as necessary. Culturally appropriate treatment may be, but is not limited to, processing materials for reburial, minimizing handling of cultural objects, leaving objects in place within the landscape, returning objects to a location within the project area where they will not be subject to future impacts.</p> <p>If after evaluation, a resource is considered significant, or is considered a tribal cultural resource, all preservation options shall be considered as required by CEQA (see Public Resources Code 21084.3), including possible capping, data recovery, mapping, or avoidance of the resource. Treatment that preserves or restores the cultural character and integrity of a tribal cultural resource may include tribal monitoring, culturally appropriate recovery of cultural objects, and reburial of cultural objects or cultural soil. If artifacts are recovered from significant prehistoric archaeological resources or tribal cultural resources, the first option shall be to transfer the artifacts to an appropriate tribal representative. If possible, accommodations shall be made to re-enter the artifacts at the Project site. Only if no other options are available will recovered prehistoric archeological material be housed at a qualified curation facility. The results of the identification, evaluation, and/or data recovery program for any unanticipated discoveries shall be presented in a professional-quality report that details all methods and findings, evaluates the nature and significance of the resources, analyzes and interprets the results, and distributes this information to the public.</p>	<p>immediately within 100 feet of the find, contact the State.</p> <p>3. Do not resume construction in the vicinity of the finds until clearance is given by the State.</p> <p>4. Implement all additional mitigation measures determined by the State.</p>	<p>addressed properly in accordance with the mitigation measure.</p> <p>3. Provide clearance for construction activities to resume once appropriate.</p> <p>4. For any resources that would be rendered ineligible for listing in CRHR due to effects of project construction, determine additional mitigation measures. Ensure implementation of those measures.</p>	<p>4. Following any cultural resource discovery</p>	

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CR-3	<p>Response Protocol for the Unanticipated Discovery of Human Remains</p> <p>Consistent with the California Health and Safety Code and the California Native American Historical, Cultural, and Sacred Sites Act, if suspected human remains are found during project construction, all work shall be halted within 100 feet of the finds, and the Yolo County coroner shall be notified to determine the nature of the remains. The coroner shall examine all discoveries of suspected human remains within 48 hours of receiving notice of a discovery on private or State lands (Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she shall contact the NAHC by phone within 24 hours of making that determination (Health and Safety Code Section 7050[c]). The NAHC shall then assign a most likely descendant (MLD) to serve as the main point of Native American contact and consultation. Following the coroner’s findings, the MLD, in consultation with the State, shall determine the ultimate treatment and disposition of the remains.</p>	<ol style="list-style-type: none"> 1. Include a stop work provision for the discovery of human remains in the project plans and specifications. 2. In the event that human remains are encountered, halt work and contact the State. 3. Do not resume construction in the vicinity of the finds until clearance is given by the State. 	<ol style="list-style-type: none"> 1. Confirm that a stop work measure for the discovery of human remains is included in project plans and specifications. 2. The State shall immediately contact the Yolo County Coroner upon notification of any findings of human remains. 3. Confirm that any discoveries of human remains are evaluated and addressed properly in accordance with the mitigation measure. 	<ol style="list-style-type: none"> 1. During preparation of plans and specifications 2. During construction 3. During construction 	
Hazards and Hazardous Materials					
HAZ-1	<p>Management of Unknown Hazardous Materials.</p> <p>If hazardous materials, wastes, or suspected soil contamination is encountered during construction of the Proposed Project, project activities in that area should stop until appropriate health and safety procedures are</p>	<ol style="list-style-type: none"> 1. If hazardous materials are found during construction, halt work. 	<ol style="list-style-type: none"> 1. Ensure that work is halted if hazardous materials are found. 	<ol style="list-style-type: none"> 1. During construction 2. During construction 	

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	<p>implemented. CHP and/or its contractors shall be required to conduct an investigation to determine the composition of the encountered material, including sampling by an OSHA-trained individual and testing at a certified laboratory. In the event that soils to be excavated are found to be contaminated, the excavated soil shall be treated as hazardous materials and properly managed, removed, reported, and disposed of in compliance with state and federal regulations. Workers will be provided with adequate personal protective equipment to prevent unsafe exposure during handling and disposal. Effective dust suppression procedures will be used in the immediate construction area to reduce airborne emissions of contaminants and reduce the risk of exposure to workers and the public.</p>	<ol style="list-style-type: none"> 2. Assist the State in conducting an investigation to determine the composition of encountered material. 3. Properly remove hazardous materials in compliance with regulations. 4. Ensure that workers are provided with the proper protective equipment. 5. Implement dust suppression procedures to reduce exposure of airborne emissions. 	<ol style="list-style-type: none"> 2. Assist the contractor in conducting an investigation to determine the composition of encountered material. 3. Ensure that hazardous materials are properly handled and disposed of in compliance with all regulations. 4. Ensure that all workers are provided with the proper protective equipment. 5. Ensure that dust suppression is implemented by the contractor. 	<ol style="list-style-type: none"> 3. During construction 4. During construction 5. During construction 	
<i>Tribal Cultural Resources</i>					
CR-1, CR-2, and CR-3	<i>See Cultural Resources (above)</i>				

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