

MEMORANDUM

DEPARTMENT OF PUBLIC WORKS
County of Placer

TO: BOARD OF SUPERVISORS

DATE: AUGUST 4, 2015

FROM: KEN GREHM

SUBJECT: **INITIAL STUDY-MITIGATED NEGATIVE DECLARATION / STATE CLEARINGHOUSE NO. 2015062005 BRIDGE REPLACEMENT PROJECT ON GOLD HILL ROAD OVER AUBURN RAVINE**

ACTION REQUESTED / RECOMMENDATION

Adopt a Resolution approving the Initial Study/Mitigated Negative Declaration (IS/MND) with the required findings and mitigations for the bridge replacement project on Gold Hill Road over Auburn Ravine

BACKGROUND/SUMMARY

The Department of Public Works is proposing to replace the existing bridge on Gold Hill Road over Auburn Ravine under the Federal Highway Bridge Program (HBP). The existing bridge is 85 years old and nearing the end of its useful life because of deteriorating structural condition, a narrow deck and narrow roadway approach geometry. The proposed project will design the bridge and roadway approaches to current structural, geometric, and hydraulic guidelines.

DPW staff has solicited public input for this project by contacting property owners directly adjacent to the project site and by providing updates to the Newcastle/Ophir Municipal Advisory Council. The proposed bridge will preserve the rural character and provide safe access for residents, emergency vehicles, trucks, and other users, while still providing a bridge and approaches designed to current standards. Construction is tentatively planned for the summer of 2018.

ENVIRONMENTAL

The County is currently in the process of obtaining National Environmental Policy Act (NEPA) clearance for this project. An Initial Study/ Mitigated Negative Declaration (IS/MND) was prepared for this project by Dokken Engineering in May 2015, pursuant to the California Environmental Quality Act (CEQA). Minor comments received during the public comment period, which closed on July 2, 2015 have been appropriately addressed. Upon approval of the MND, the Notice of Determination will be processed.

FISCAL IMPACT

The total cost of the project is estimated to be \$6,122,600. This project is funded through the Federal HBP Program (100 percent). There are sufficient funds available in the FY 2015-16 and will be recommended in future budgets. There is no net cost to the County.

Attachment 1 – Resolution
Attachment 2 – Location Map
Attachment 3 – Mitigation Monitoring Plan

Mitigated Negative Declaration and Initial Study are on file with the Clerk of the Board

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**Before the Board of Supervisors
County of Placer, State of California**

In the matter of:

Resol. No: _____

A RESOLUTION APPROVING THE INITIAL
STUDY/ MITIGATED NEGATIVE
DECLARATION (STATE CLEARING HOUSE
NO. 2015062005) FOR THE GOLD HILL
ROAD OVER AUBURN RAVINE BRIDGE
REPLACEMENT PROJECT.

The following Resolution was duly passed by the Board of Supervisors of the County of
Placer at a regular meeting held _____ by the following
vote on roll call:

Ayes:

Noes:

Absent:

Signed and approved by me after its passage.

Chair, Board of Supervisors

Attest:

Clerk of said Board

WHEREAS, the existing bridge on Gold Hill Road over Auburn Ravine has been
determined to be structurally deficient; and

WHEREAS, a preliminary design for the project has been prepared by Placer County;
and

WHEREAS, the design of the bridge replacement is consistent with the California Department of Transportation and Placer County Standards; and

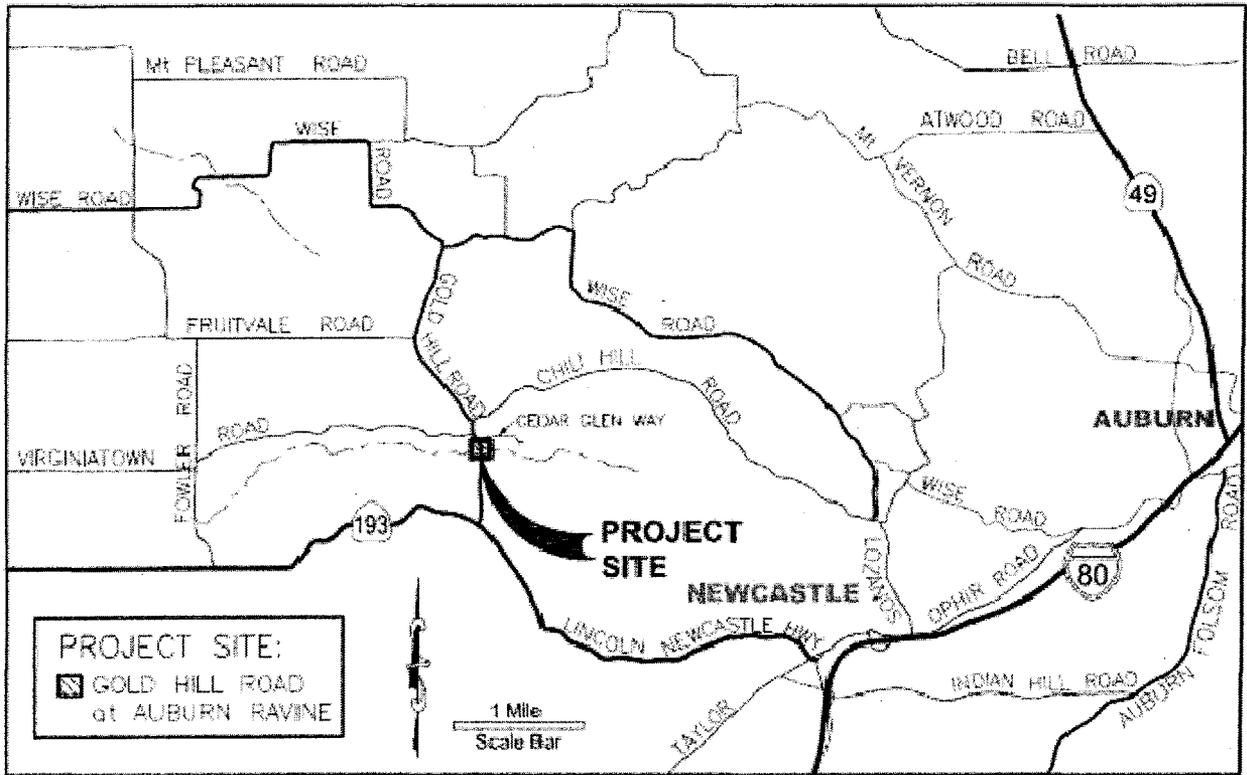
WHEREAS, the County of Placer has prepared a Mitigated Negative Declaration, circulated it as required by law and included all necessary measures to mitigate any significant impacts of the project.

NOW, THEREFORE, BE IT RESOLVED, by the Board of Supervisors of the County of Placer, State of California, that this Board approves a Mitigated Negative Declaration (STATE CLEARING HOUSE NO. 2015062005) for the Gold Hill Road over Auburn Ravine Bridge Replacement Project and make the following findings:

1. The mitigated negative declaration has been prepared as required by law.
2. There is no substantial evidence in the record as a whole that the Project mitigated may have a significant effect on the environment.
3. The mitigated negative declaration as adopted for the Project reflects the independent judgment and analysis of Placer County, which has exercised overall control and direction of its preparation.
4. The mitigation plan / mitigation monitoring program prepared for the project is approved and adopted.
5. The custodian of records for the Project is the Placer County Public Works Director, 3091 County Center Drive, Auburn, CA 95603.

LOCATION MAP

GOLD HILL ROAD OVER AUBURN BRIDGE REPLACEMENT PROJECT



LOCATION MAP

Scale As Shown

MITIGATION AND MONITORING PLAN
Gold Hill Road over Auburn Ravine Replacement Project

This Mitigation and Monitoring Plan (MMP) has been formulated based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) prepared for the proposed Gold Hill Road over Auburn Ravine Replacement Project (proposed project). The purpose of the MMP is to ensure the implementation of mitigation measures identified as part of the environmental review for the project. The MMP includes the following information:

- A list of mitigation measures;
- The party responsible for implementing the mitigation measures;
- The timing for implementation of the mitigation measure;
- The agency/city department responsible for monitoring the implementation; and
- The monitoring action and frequency.

Placer County must adopt this MMP, or an equally effect program, if it approves the Gold Hill Road over Auburn Ravine Replacement Project with the mitigation measures that were adopted or made conditions of project approval.

Mitigation and Monitoring Plan
Gold Hill Road over Auburn Ravine Replacement Project
Placer County, California

Monitoring Item Number	Initial Study Mitigation Measure	Mitigation Measure	Timing	Implementing Party	Monitoring Party	Frequency and Duration of Monitoring	Performance Criteria
1	AQ-1	Unpaved areas subject to vehicle traffic must be stabilized by being kept wet or covered.	During construction	Contractor	Placer County Department of Public Works (DPW)	Continually during construction	Successful erosion or dust control during and following construction
2	AQ-2	Storage piles and disturbed areas not subject to vehicular traffic must be stabilized by being kept wet or covered when material is not being added to or removed from the pile.	During construction	Contractor	DPW	Continually during construction	Successful erosion or dust control during and following construction
3	AQ-3	When materials are transported off-site, all material shall be covered, or effectively wetted to limit visible dust emissions, and at least six inches of freeboard space from the top of the container shall be maintained.	During construction	Contractor	DPW	Continually during construction	Compliance with hauling requirements
4	AQ-4	AQ-4a: A Dust Control Plan shall be submitted and approved by the APCD prior to the commencement of any ground disturbance.	Prior to construction	Contractor	Air Pollution Control District (APCD)	Once prior to construction	Compliance with air quality standards
		AQ-4b: Prior to approval of Grading/Improvement Plans, the contractor shall submit a Construction Emission / Dust Control Plan to the APCD. The applicant shall not break ground prior to receiving APCD approval, of the Construction Emission / Dust Control Plan, and delivering that approval to the local jurisdiction issuing the permit.	Prior to construction	Contractor	APCD	Once prior to construction	Compliance with air quality standards
		AQ-4c: The following standard note shall be included on the Grading Plan or Improvement Plans, or as an attached form: The prime contractor shall submit to the APCD a comprehensive inventory (e.g., make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower or greater) that will be used in aggregate of 40 or more hours for the construction project. If any new equipment is added after submission of the inventory, the prime contractor shall contact the APCD prior to the new equipment being utilized. At least three business days prior to the use of subject heavy-duty off-road equipment, the project representative shall provide the APCD with the anticipated construction timeline including start date, name, and phone number of the property owner, project manager, and on-site foreman.	Prior to construction	Contractor	APCD	Once prior to construction	Compliance with air quality standards
5	AQ-5	AQ-5a: The following standard notes will be included on the Improvement/Grading Plan, or as an attached form	Prior to construction	Contractor	APCD	Once prior to construction	Compliance with air quality standards
		AQ-5b: During construction the contractor shall utilize existing power sources (e.g., power poles) or clean fuel (e.g., gasoline, biodiesel, natural gas) generators rather than temporary diesel power generators.	During Construction	Contractor	APCD	Continuously during construction	Compliance with air quality standards
		AQ-5c: During construction, the contractor shall minimize idling time to a maximum of 5 minutes for all diesel powered equipment.	During Construction	Contractor	APCD	Continuously during construction	Compliance with air quality standards
		AQ-5d: Signs shall be posted in the designated queuing areas of the construction site to limit idling to a maximum of 5 minutes.	During Construction	Contractor	APCD	Continuously during construction	Compliance with air quality standards
		AQ-5e: Idling of construction related equipment and construction related vehicles should not occur within 1,000 feet of any sensitive receptor.	During Construction	Contractor	APCD	Continuously during construction	Compliance with air quality standards

Monitoring Item Number	Initial Study Mitigation Measure	Mitigation Measure	Timing	Implementing Party	Monitoring Party	Frequency and Duration of Monitoring	Performance Criteria
6	AQ-6	The APCD's Rules and Regulations will be included as standard notes, or as an attached form to all subsequent Grading/Improvement Plans. A list of the APCD's Rules and Regulations can be found in Appendix B of the APCD's CEQA Handbook – located at: http://www.placer.ca.gov/~media/apc/documents/Planning/CEQAHandbook/Final/PCAPCDCEQAHandbookB.pdf	Prior to construction	Contractor	APCD	Once prior to construction	Compliance with air standards
7	BIO-1	Prior to the start of construction activities, the project limits in proximity to jurisdictional waters must be marked with high visibility Environmentally Sensitive Area (ESA) fencing or staking to ensure construction will not further encroach into waters.	Prior to construction	Contractor	DPW	Once prior to construction and continuously maintained	Comply with Federal Endangered Species Act
8	BIO-2	Before any activities begin on the project, the project biologist will conduct an environmental awareness training for all construction personnel. At a minimum, the training will include a description of sensitive species with potential to occur, their habitat, the project specific measures being implemented to conserve the species, and the boundaries within which the project may be accomplished.	Prior to construction	Contractor	DPW	Once prior to construction	Receipt of environmental awareness training
9	BIO-3	Plastic mono-filament netting (erosion control matting) or similar material that could trap wildlife must not be used. Acceptable substitutes include jute, coconut coir matting or tackified hydroseeding compounds.	Prior to construction/ During Construction	Contractor	DPW	Once prior to construction and continuously maintained	Successful implementation of erosion and sedimentation control
10	BIO-4	If western pond turtle or any other sensitive species are found, construction will stop within the area of discovery and the animal will be allowed to leave the project area. Construction will resume as determined by the biologist and in coordination with the wildlife agencies.	During construction	Contractor	DPW	Continually during construction	Successful avoidance of western pond turtle
11	BIO-5	If possible, initial construction should occur outside the nesting season (February 15th – August 31st). If vegetation removal is to take place during the nesting season (February 15th – August 31st), a pre-construction nesting bird survey must be conducted within 7 days prior to vegetation removal. Within 2 weeks of the nesting bird survey, all vegetation cleared by the biologist must be removed by the contractor.	Prior to construction/ During construction	Contractor	DPW	Once prior to nesting and exclusion structures will be maintained during work window	Compliance with work windows and compliance with MBTA
12	BIO-6	Should work occur within the Swainson's hawk nesting season (March 1st-August 31st), the project biologist must conduct a pre-construction nesting survey consistent with survey methods recommended by the Swainson's Hawk Technical Advisory Committee within 1/4 mile of the project and two weeks prior to construction clearing and grubbing activities.	Prior to construction/ During Construction	Contractor	DPW	Once prior to nesting and during construction	Compliance with work windows
13	BIO-7	Vegetation clearing must only occur within the delineated project boundaries. Trees and vegetation should be removed in the late fall through winter months, to the greatest extent practicable. Trees removal should be avoided to the greatest extent practicable and should be trimmed wherever possible.	Prior to construction/ During Construction	Contractor	DPW	Once prior to construction and during construction	Compliance with work windows

Monitoring Item Number	Initial Study Mitigation Measure	Mitigation Measure	Timing	Implementing Party	Monitoring Party	Frequency and Duration of Monitoring	Performance Criteria
14	BIO-8	BIO-8a: Erosion Control Measures must be implemented during construction. To minimize the mobilization of sediment to adjacent water bodies, the following erosion-control and sediment-control measures will be included in the construction specifications, based on standard Caltrans measures and standard dust-reduction measures:	Prior to construction/ During Construction	Contractor	DPW	Once prior to construction and during construction	Successful implementation of erosion and sedimentation control
		BIO-8b: Soil exposure must be minimized through the use of temporary BMPs, groundcover, and stabilization measures;	Prior to construction/ During Construction	Contractor	DPW	Once prior to construction and during construction	Successful implementation of erosion and sedimentation control
		BIO-8c: The contractor must conduct periodic maintenance of erosion- and sediment- control measures.	During Construction	Contractor	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
15	BIO-9	BIO-9a: To conform to water quality requirements, the Storm Water Pollution Prevention Plan (SWPPP) must include the following:	Prior to construction/ During Construction	Contractor	DPW	Prior to construction and continuously during construction	Successful implementation of SWPPP
		BIO-9b: Vehicle maintenance, staging and storing equipment, materials, fuels, lubricants, solvents, and other possible contaminants must be a minimum of 100 feet from riparian, wetlands or aquatic habitats. Any necessary equipment washing must occur where the water cannot flow into Auburn Ravine. The project proponent will prepare a spill prevention and clean-up plan;	Prior to construction/ During Construction	Contractor	DPW	Prior to construction and continuously during construction	Compliance with offsite vehicle maintenance regulation
		BIO-9c: Construction equipment will not be operated in flowing water;	During Construction	Contractor	DPW	Continuously during construction	Successful avoidance of operating vehicles in flowing water
		BIO-9d: Construction work must be conducted according to site-specific construction plans that minimize the potential for sediment input to Auburn Ravine;	During Construction	Contractor	DPW	Continuously during construction	Compliance with specified construction plans
		BIO-9e: Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life must be prevented from contaminating the soil or entering Auburn Ravine;	During Construction	Contractor	DPW	Continuously during construction	Successful removal of material
		BIO-9f: Equipment used in and around Auburn Ravine must be in good working order and free of dripping or leaking engine fluids; and,	Prior to construction/ During Construction	Contractor	DPW	Prior to construction and continuously during construction	Compliance with BMP's
		BIO-9g: Any surplus concrete rubble, asphalt, or other debris from construction must be taken to a County approved disposal site	During Construction	Contractor	DPW	Continuously during construction	Successful removal of material
16	BIO-10	Upon completion of construction activities, any barriers to surface water flow must be removed in a manner that would allow flow to resume with the least disturbance to the substrate.	Following Construction	Contractor	DPW	After Construction	Successful removal of barriers

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16	BIO-10	Upon completion of construction activities, any barriers to surface water flow must be removed in a manner that would allow flow to resume with the least disturbance to the substrate.	Following Construction	Contractor	DPW	After Construction	Successful removal of barriers
17	BIO-11	The Auburn Ravine channel and banks where the existing structure is located will be re- contoured to natural contours and vegetation will be allowed to return to pre-project conditions.	During Construction	Contractor	DPW	Continuously during construction	Successful recontouring of channel and banks
18	BIO-12	Night work must not be conducted within 200 feet of the channel to afford fish quiet, unobstructed passage during night time migratory hours.	During construction	Contractor	DPW	Continuously during construction	Successful avoidance of night work
16	BIO-13	The project biologist will be onsite during the installation of any stream diversion efforts.	During construction	Contractor	DPW	Continuously during construction	Qualified biologist
17	BIO-14	All in-channel construction including channel diversions must occur within the April 15 – November 15 work window.	During construction	Contractor	DPW	Continuously during construction	Compliance with work windows
18	BIO-15	BIO-15a: Project activities that may affect the flow of the creek through placement of fill, bridge construction, or diversion of the channel must comply with the 2001 NMFS Guidelines for Salmonid Passage at Stream Crossing, where applicable. The guidelines include but are not limited to:	During construction	Contractor	DPW	Continuously during construction	Successful avoidance of creek flow
		BIO-15b: A minimum water depth (12 inch for adults and 6 inch for juveniles) at the low fish passage;	During construction	Contractor	DPW	Continuously during construction	Maintenance of water depth
		BIO-15c: A maximum hydraulic drop of 12 inch for adults and 6 inch for juveniles; avoidance of abrupt changes in water surface and velocities; and	During construction	Contractor	DPW	Continuously during construction	Maintenance of water depth
		BIO-15d: Structures must be aligned with the stream, with no abrupt changes in flow direction upstream or downstream of the crossing.	During construction	Contractor	DPW	Continuously during construction	Maintenance of water depth
19	BIO-16	BIO-16a: Pursuant to EO 13112 and the control of invasive species:	Prior to construction/ During construction	Contractor	DPW	Continuously during construction	Control of invasive species
		BIO-16b: Prior to arrival at the project site and prior to leaving the project site, construction equipment that may contain invasive plants and/or seeds must be cleaned to reduce the spread of noxious weeds.	Prior to construction/ Following construction	Contractor	DPW	Prior to and after construction	Successful avoidance of invasive plants
		BIO-16c: All hydroseed and plant mixes must consist of a biologist approved plant palette seed mix from native, locally adapted species.	Prior to construction/ During construction	Contractor	DPW	Prior to construction	Qualified biologist
20	BIO-17	If work on or immediately adjacent to the bridge is planned to occur during the nesting season, measures will be taken to avoid impacts to migratory swallows. To protect migratory swallows, unoccupied nests will be removed from the existing bridge structure prior to the nesting season (February 15 – August 31). Exclusionary devices may be installed after removal of unoccupied nests and prior to nesting season. During the nesting season, the bridge structure must be maintained either through use of exclusion devices and/or the active removal of partially constructed nests. After a nest is completed, it can no longer be removed until nesting season is over. If active and occupied nests are discovered, disruptive work in proximity to the active nest will stop.	During construction	Contractor	DPW	Continuously during construction	Successful avoidance of migratory birds and compliance with the MBTA

Monitoring Item Number	Initial Study Mitigation Measure	Mitigation Measure	Timing	Implementing Party	Monitoring Party	Frequency and Duration of Monitoring	Performance Criteria
21	BIO-18	Prior to any tree removal a Placer County Tree Removal Permit according will be obtained to ensure that the project is in compliance with the Placer County Tree Ordinance (Code 12.16.030B) and the Placer County Oak Woodland Management Plan.	Prior to construction	Contractor	DPW	Once prior to construction	Successful acquisition of permits
22	CIA-1	If the Auburn Ravine Bridge will be closed for a period longer than 48 hours, Placer County will notify all appropriate public and emergency services in Newcastle, Lincoln, and Auburn prior to construction. These services include, but are not limited to, fire protection, police/sheriff, ambulatory/medical services, public school transportation, and any other services that regularly use Gold Hill Road and would be affected by the bridge closure.	During construction	Contractor	DPW	Continuously during construction	Successful notification of emergency services and school transportation
23	CUL-1	Prior to construction, an Environmentally Sensitive Area (ESA) and fencing installed prior to construction to avoid impacts to the cultural resources from construction activity.	Prior to construction	Contractor	DPW	Once prior to construction and then maintained during construction	Comply with State Historic Preservation Officer Recommendations
24	CUL-2	If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find.	During construction	Contractor	DPW	Continuously during construction	Qualified Archaeologist
25	CUL-3	If human remains are discovered, State Health and Safety Code Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the County Coroner contacted. Pursuant to Public Resources Code (PRC) Section 5097.98, if the remains are thought to be Native American, the coroner will notify the Native American Heritage Commission who will then notify the Most Likely Descendent (Most Likely Descendent). At this time, the person who discovered the remains will contact Gary Jones, (Caltrans) District 8, so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.	During construction	Contractor	DPW	Continuously during construction	Qualified Archaeologist
26	GEO-1	BMPs will be implemented during construction to minimize erosion. BMPs include any facilities and methods used to remove, reduce, or prevent storm water runoff pollutants from entering receiving waters. Erosion control methods, temporary and permanent BMPs, and improvement of drainage facilities along the roadway would minimize impacts from storm water runoff.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of BMPs

Monitoring Item Number	Initial Study Mitigation Measure	Mitigation Measure	Timing	Implementing Party	Monitoring Party	Frequency and Duration of Monitoring	Performance Criteria
27	HAZ-1	Any leaking transformers observed during the course of the project shall be considered a potential PCB hazard. A detailed inspection of individual electrical transformers was not conducted for this ISA. However, should leaks from electrical transformers (that will either remain within the construction limits or will require removal and/or relocation) be encountered during construction, the transformer fluid shall be sampled and analyzed by qualified personnel for detectable levels of PCB's. Should PCBs be detected, the transformer shall be removed and disposed of in accordance with Title 22, Division 4.5 of the California Code of Regulations and any other appropriate regulatory agency. Any stained soil encountered below electrical transformers with detectable levels of PCB's shall also be handled and disposed of in accordance with Title 22, Division 4.5 of the California Code of Regulations and any other appropriate regulatory agency.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful preparation implementation of spill prevention and countermeasure plan
28	HAZ-2	The location identified in the above Summary Table containing ADL is to remain in place and covered by at least one foot of clean soil. However, if the soil at that location is to be excavated or otherwise disturbed, additional testing to delineate the extent of the elevated lead concentrations and to classify the soil disposal may be appropriate. When ADL is present the Contractor is required to have and implement a lead compliance plan prepared by a Certified Industrial Hygienist (CIH).	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful preparation implementation of spill prevention and countermeasure plan
29	HAZ-3	As is the case for any project that proposes excavation, the potential exists for unknown hazardous contamination to be revealed during project construction. For any previously unknown hazardous waste/ material encountered during construction, the procedures outlined in the Caltrans Unknown Hazard Procedures (as seen Table 7-1.1 of the Caltrans 2006 Construction Manual) shall be followed.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Following Caltrans Unknown Hazard Procedures
30	NOI-1	If pile driving is necessary, it is recommended that vibratory pile driving be used if possible in order to keep project-related vibration levels below the appropriate impact criteria.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Compliance with noise ordinance
31	NOI-2	NOI-2a: Standard Specification 14-8.02, "Noise Control" states: Do not exceed 86 dBA LMax at 50 feet from the job site activities from 9 p.m. to 6 a.m.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Compliance with noise ordinance
		NOI-2b: Equip an internal combustion engine with the manufacturer recommended muffler.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Compliance with noise ordinance
		NOI-2c: Do not operate an internal combustion engine on the job site without the appropriate muffler.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Compliance with noise ordinance
		NOI-2d: According to regulations of County Ordinance Section 9.36.030 temporary construction, maintenance, repair, or demolition activities between 6:00 a.m. and 8:00 p.m. on weekdays, and 8:00 a.m. and 8:00 p.m. on weekends. And all construction equipment shall be fitted with factory installed muffling devices and that all construction equipment shall be maintained in good working order	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Compliance with noise ordinance
32	PS-1	Impacts to traffic flow as a result of construction activities would be reduced by implementing the detour routes and appropriate signage.	Prior to Construction/ During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of detours
Monitoring Item Number	Initial Study Mitigation Measure	Mitigation Measure	Timing	Implementing Party	Monitoring Party	Frequency and Duration of Monitoring	Performance Criteria

33	VIS-1	The area impacted during construction, including roadway approaches, outside of the Central Valley Flood Protection Board jurisdiction will be re-vegetated after construction with native plants.	After Construction	Contractor/County will Verify	DPW	After Construction	Revegetation of impacted area
34	WQ-1	The staging area would contain a barrier between staging activities and the active water channel.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Proper maintenance of barriers
35	WQ-2	Access roads would contain a barrier between roads and the active water channel to reduce erosion and sedimentation.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Proper maintenance of barriers
36	WQ-3	Prior to tree removal a native hydroseed seed mix would be applied to the area to stabilize soil to reduce erosion during construction. Once construction is complete another application of native hydroseed would be applied to prevent erosion post construction.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Installation of hydroseed
37	WQ-4	WQ-4a: Best management practices: The area of construction and disturbance would be limited to as small an area as feasible to reduce erosion and sedimentation.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful limitation of construction area
		WQ-4b: Measures would be implemented during land-disturbing activities to reduce erosion and sedimentation. These measures may include mulches, soil binders and erosion control blankets, silt fencing, fiber rolls, temporary berms, sediment desilting basins, sediment traps, and check dams.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Proper maintenance of barriers
		WQ-4c: In the event temporary berms are used to prevent water from running uncontrolled down the slopes, water collected in the berms will be directed down the slopes in an erosion-proof drainage system. Sediment collected in these berms would be allowed to "settle out" and would be removed from the site. After significant rainfall events, berms would be inspected and periodically repaired.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Proper maintenance of barriers
		WQ-4d: Existing vegetation would be protected where feasible to reduce erosion and sedimentation. Vegetation would be preserved by installing temporary fencing, or other protection devices, around areas to be protected.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
		WQ-4e: Exposed soils would be covered by loose bulk materials or other materials to reduce erosion and runoff during rainfall events.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
		WQ-4f: Exposed soils would be stabilized, through watering or other measures, to prevent the movement of dust at the project site caused by wind and construction activities such as traffic and grading activities.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
		WQ-4g: All construction roadway areas would be properly protected to prevent excess erosion, sedimentation, and water pollution.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
Monitoring Item Number	Initial Study Mitigation Measure	Mitigation Measure	Timing	Implementing Party	Monitoring Party	Frequency and Duration of Monitoring	Performance Criteria
37	WQ-4	WQ-4h: All vehicle and equipment maintenance procedures would be conducted off-site. In the event of an emergency, maintenance would occur away from the stream channel.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Compliance with offsite vehicle maintenance regulation

		WQ-4i: All construction materials, vehicles, stockpiles, and staging areas would be situated outside of the stream channel as feasible. All stockpiles would be covered, as feasible.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
		WQ-4j: Energy dissipaters and erosion control pads would be provided at the bottom of slope drains. Other flow conveyance control mechanisms may include earth dikes, swales, or ditches. Stream bank stabilization measures would also be implemented.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
		WQ-4k: All erosion control measures and storm water control measures would be properly maintained until the site has returned to a pre-construction state.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful implementation of erosion and sedimentation control
		WQ-4l: All disturbed areas would be restored to pre-construction contours and revegetated, either through hydroseeding or other means, with native exotic species.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful restoration of contours if necessary
		WQ-4m: All construction materials would be hauled off-site during project construction as well as after completion of construction.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Successful remove of construction material
38	WQ-5	The proposed project would require and comply with a Section 1602 Streambed Alteration Agreement through the California Department of Fish and Wildlife to ensure protection from impacts to the streambed or associated riparian habitat.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Obtain and follow Section 1602 permit
39	WQ-6	The proposed project would require and comply with conditions associated with a Water Quality Certification (401) and a Nationwide Permit for Waters of the U.S. (404).	Prior to Construction	Contractor/County will Verify	DPW	Once prior to construction	Obtain and follow Section 401 permit
40	WQ-7	The proposed project would require and comply with conditions associated with a National Pollution Discharge Elimination System (NPDES) General Construction Permit for Discharges of storm water associated with construction activities (Construction General Permit 2009-0009-DWQ). A Storm Water Pollution Prevention Plan (SWPPP) would also be developed and implemented as part of the Construction General Permit.	Prior to Construction	Contractor/County will Verify	DPW	Once prior to construction	Obtain and follow NPDES permit
41	WQ-8	The construction contractor shall adhere to the SWRCB Order No. 2009-0009-DWQ NPDES Permit pursuant to Section 402 of the CWA. This permit authorizes storm water and authorized non-storm water discharges from construction properties, facilities and activities and would be required prior to construction of this project. As part of this Permit requirement, a SWPPP shall be prepared prior to construction consistent with the requirements of the RWQCB. This SWPPP will incorporate all applicable BMPs to ensure that adequate measures are taken during construction to minimize impacts to water quality.	During Construction	Contractor/County will Verify	DPW	Continuously during construction	Obtain and follow Section 402 permit

