MEMORANDUM

DEPARTMENT OF PUBLIC WORKS
County of Placer

TO BOARD OF SUPERVISORS DATE February 23, 2010

FROM KEN GREHM / MATT RANDALL

SUBJECT **DOWD ROAD OVER MARKHAM RAVINE BRIDGE REPLACEMENT PROJECT – INITIAL STUDY/MITIGATED NEGATIVE DECLARATION STATE CLEARINGHOUSE NO 2009122041**

ACTION REQUESTED / RECOMMENDATION

Adopt a Resolution approving the Initial Study/Mitigated Negative Declaration (IS/MND) with the required findings and the mitigation and monitoring plan for the Dowd Road Bridge over Markham Ravine

BACKGROUND / SUMMARY

The Department of Public Works is proposing to replace the existing bridge on Dowd Road at Markham Ravine under the Federal Highway Bridge Program (HBP) The project will replace the existing structurally deficient bridge which is deteriorating and does not meet current design standards The replacement bridge and improved approaches will bring this bridge into compliance with 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 Rural Lincoln and Sheridan Municipal Advisory Councils By implementing an economical and context sensitive design philosophy, an acceptable design was developed The proposed bridge will preserve the rural atmosphere 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 2011

ENVIRONMENTAL

NEPA clearance was obtained for this project with a Categorical Exclusion on January 6, 2010 An Initial Study/ Mitigated Negative Declaration (IS/MND) was prepared for this project by LSA, Inc in December 2009, pursuant to the California Environmental Quality Act (CEQA) No comments were received during the public comment period, which closed on January 15, 2010 Upon approval of the MND, the Notice of Determination will be processed

FISCAL IMPACT

The total cost of the project is estimated to be $4,800,000 The project is funded through the Federal Highway Bridge Program (88 53%) and the County Road Fund (11 47%) Funding for construction of the project will be included in the 2010/2011 Fiscal Year Budget

Attachment Resolution
Location Map
Mitigation and Monitoring Plan

A copy of the Mitigated Negative Declaration and Initial Study is 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 A RESOLUTION APPROVING A MITIGATED NEGATIVE DECLARATION (SCH#2009122041) FOR THE DOWD ROAD BRIDGE OVER MARKHAM RAVINE REPLACEMENT PROJECT.

Resol. No

Ord. No:

First Reading:

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

Attest.
Clerk of said Board

_____

Chairman, Board of Supervisors

_____

WHEREAS, the existing bridge on Dowd Road over Markham 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

BE IT HEREBY RESOLVED by the Board of Supervisors of the County of Placer, State of California, that this Board Approves a Mitigated Negative Declaration (SCH#2009122041) for the Dowd Road Bridge over Markham Ravine 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 as revised and 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

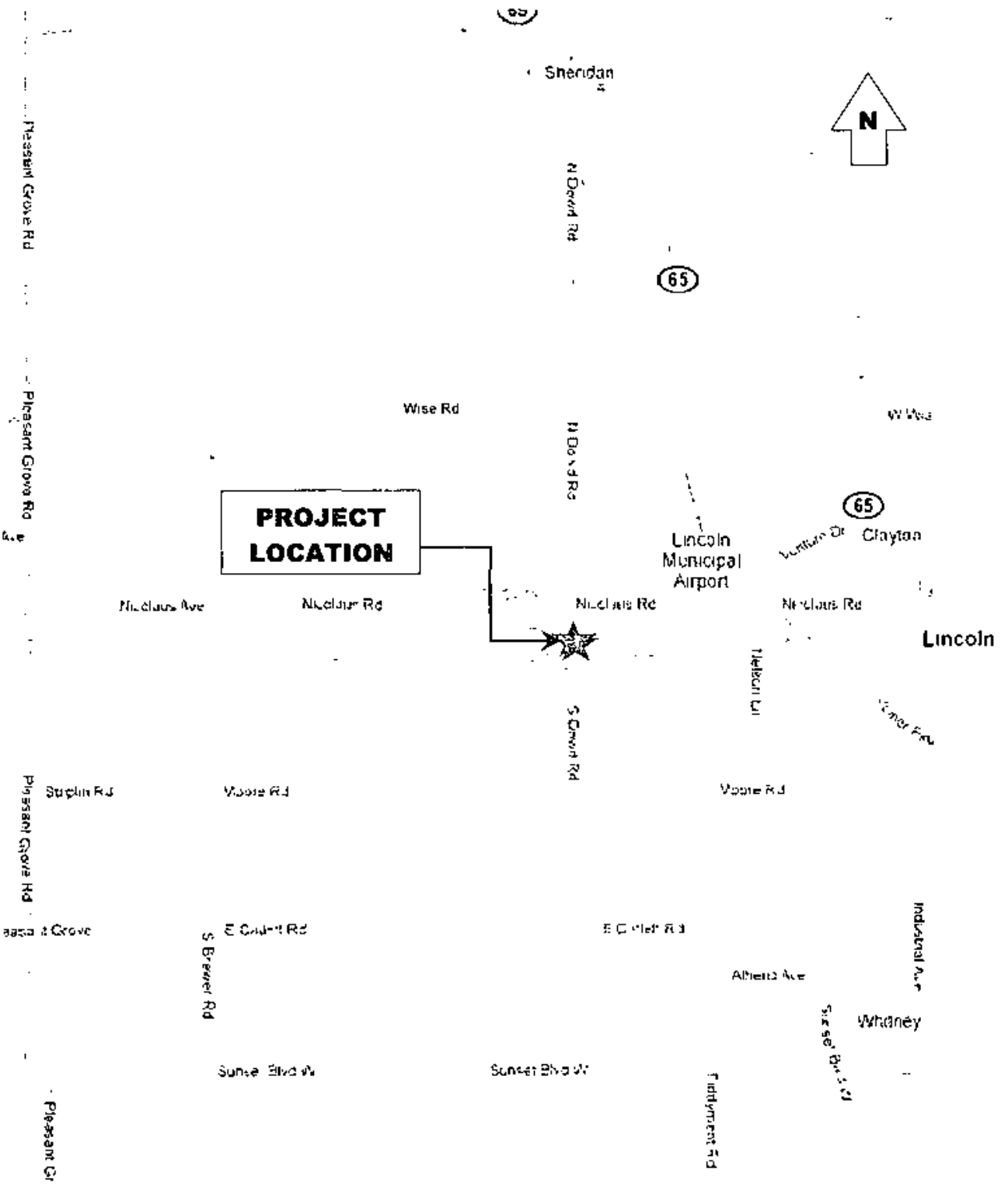
4 The mitigation plan / mitigation monitoring program prepared for the project is approved and adopted

5 The custodian of records for the Project is the Placer County Planning Director, 3091 County Center Drive, Auburn, CA 95603

PLACER COUNTY
DEPARTMENT OF PUBLIC WORKS

BRIDGE REPLACEMENT PROJECT ON DOWD ROAD AT MARKHAM RAVINE

LOCATION MAP



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DOWD ROAD OVER MARKHAM RAVINE BRIDGE REPLACEMENT PROJECT
MITIGATION AND MONITORING PLAN

MITIGATION MEASURE	RESPONSIBLE PARTY	ORGANIZATION OR INDIVIDUAL RESPONSIBLE FOR VERIFYING COMPLIANCE	TIMING OF INITIAL ACTION	FREQUENCY AND DURATION OF MONITORING	PERFORMANCE CRITERIA	PROPOSED FUNDING
MM3 1 Wind erosion of soil or dust will be controlled during construction by periodic watering of the soil and rock exposed by the construction process Periodic watering should be conducted routinely as needed to prevent raising dust from construction via vehicle usage and/or wind erosion of newly created unprotected surfaces This action shall be included in the construction contract Permit compliance will reduce the potential impacts of soil erosion and deposition into Markham Ravine to a less than significant impact Following construction of the new bridge the addition of rock slope protection and revegetation of riparian trees and habitat should result in future water quality of equal to or better than exists with the existing bridge See also MM4 1 4 2 4 3 4 4 5 1 7 7 7 8 and 7 9	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CONDITIONS INCLUDED IN CALIFORNIA DEPT OF FISH AND GAME SECTION 1602 STREAMBED ALTERATION AGREEMENT REGIONAL WATER QUALITY CONTROL BOARD SECTION 401 WATER QUALITY CERTIFICATION PERMIT US ARMY CORPS OF ENGINEERS SECTION 404 PERMIT AND PLACER COUNTY GRADING ORDINANCE REQUIREMENTS	HBP/ROAD FUND
MM4 1 Prior to construction the County shall prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) designed to reduce potential impacts to surface water quality through the construction and operation of the project The SWPPP would act as the overall program document designed to provide measures to mitigate potential water quality impacts associated with the implementation and operation of the proposed project	DPW/CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CONDITIONS INCLUDED IN CALIFORNIA DEPT OF FISH AND GAME SECTION 1602 STREAMBED ALTERATION AGREEMENT REGIONAL WATER QUALITY CONTROL BOARD SECTION 401 WATER QUALITY CERTIFICATION PERMIT US ARMY CORPS OF ENGINEERS SECTION 404 PERMIT AND PLACER COUNTY GRADING ORDINANCE REQUIREMENTS	

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MITIGATION MEASURE	RESPONSIBLE PARTY	ORGANIZATION OR INDIVIDUAL RESPONSIBLE FOR VERIFYING COMPLIANCE	TIMING OF INITIAL ACTION	FREQUENCY AND DURATION OF MONITORING	PERFORMANCE CRITERIA	PROPOSED FUNDING
MM4 2 Specific and detailed BMPs included in the SWPPP shall include practices to minimize the contact of construction materials equipment and maintenance supplies (e g fuels lubricants paints solvents adhesives) with storm water The SWPPP shall specify properly designed centralized storage areas that keep these materials out of the rain	DPW/CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CONDITIONS INCLUDED IN CALIFORNIA DEPT OF FISH AND GAME SECTION 1602 STREAMBED ALTERATION AGREEMENT REGIONAL WATER QUALITY CONTROL BOARD SECTION 401 WATER QUALITY CERTIFICATION PERMIT US ARMY CORPS OF ENGINEERS SECTION 404 PERMIT AND PLACER COUNTY GRADING ORDINANCE REQUIREMENTS	HBP/ROAD FUND
MM4 3 Specific BMP s including the following						
MM4 3a Work within the live channel of the waterway would be limited to the period between May 1 and October 15 (outside the rainy season)	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CONSTRUCTION WINDOW PROVIDED	HBP/ROAD FUND
MM4 3b Land disturbing activities and the installation of erosion and sedimentation control practices shall be coordinated to reduce on site erosion and off-site sedimentation These measures may include mulches (above the mean high water line only) soil binders and erosion control blankets silt fencing fiber rolls sediment desilting basins sediment traps and check dams	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3c Existing vegetation shall be protected where feasible to provide an effective form of erosion and sediment control as well as watershed protection landscape beautification dust and pollution control and noise reduction	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3d The area of construction and disturbance will be limited to as small an area as feasible	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3e Loose bulk materials shall be applied to the soil surface as a temporary cover to protect bare soil from rainfall impact increase infiltration and reduce runoff and erosion	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3f Stabilizing materials shall be applied to the soil surface to prevent the movement of dust at the project site caused by traffic wind and grading activities	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3g Roughening and terracing shall be implemented as feasible to reduce erosion potential decrease runoff velocities and trap sediment aiding in the establishment of vegetative cover from seed and increasing infiltration into soil	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3h All areas shall be restored to preconstruction contours and revegetated with native species Hydroseeding will be implemented as a temporary measure if feasible	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND

MITIGATION MEASURE	RESPONSIBLE PARTY	ORGANIZATION OR INDIVIDUAL RESPONSIBLE FOR VERIFYING COMPLIANCE	TIMING OF INITIAL ACTION	FREQUENCY AND DURATION OF MONITORING	PERFORMANCE CRITERIA	PROPOSED FUNDING
MM4 3i Provide berms along the tops of slopes to prevent water from running uncontrolled down the slopes	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3j Collect the water in these berms and take it down the slopes in an erosion-proof drainage system Sediment that is collected within these berms will be allowed to settle out and will be removed from the site	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3k Install permanent landscaping (e g sprayable Hydroseed) as soon as practical after the completion of grading	CONSTRUCTION CONTRACTOR	DPW	AFTER GRADING	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3l Construction activities and vehicles will be confined to paved areas as feasible to prevent erosion and sediment discharge to the river channel	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3m All demolished or unused bridge material will be hauled off site	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3n All erosion control measures and stormwater control measures will be properly maintained until the site has returned to a preconstruction state The condition and effectiveness of the measures will be monitored until they are removed At a minimum all measures should be inspected after every rain event and weekly throughout the rainy season	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	DURING AND AFTER CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3o Construction roadways will be properly protected to prevent excess erosion and sedimentation	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3p All vehicle and equipment maintenance procedures will be conducted off site In the event of an emergency maintenance will occur away from the creek channel	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3q All concrete curing activities will be conducted to minimize spray drift and prevent curing compounds from entering the waterway directly or indirectly	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3r A spill prevention and countermeasure plan will be prepared for the project prior to commencing construction activities	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	ONCE	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 3s All construction materials vehicles stockpiles and staging areas will be situated outside of the creek channel as feasible All stockpiles will be covered as feasible	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO AND DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ PLACER COUNTY BMP S INCLUDED IN THE SWPPP	HBP/ROAD FUND
MM4 4 A monitoring program will be implemented by the construction site supervisor that includes both dry and wet weather inspections	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ THE WORK HOURS LISTED IN THE SPECIAL PROVISIONS	HBP/ROAD FUND
MM7 1 Construction activity within giant garter snake habitat will be conducted between May 1 and October 1 This is the active period for giant garter snakes and direct mortality is lessened because snakes are expected to actively move and avoid danger Between October 2 and April 30 contact the Service s Sacramento Fish and Wildlife Office to determine if additional measures are necessary to minimize and avoid take	DPW/CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CONSTRUCTION WINDOW PROVIDED	HBP/ROAD FUND

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MITIGATION MEASURE	RESPONSIBLE PARTY	ORGANIZATION OR INDIVIDUAL RESPONSIBLE FOR VERIFYING COMPLIANCE	TIMING OF INITIAL ACTION	FREQUENCY AND DURATION OF MONITORING	PERFORMANCE CRITERIA	PROPOSED FUNDING
MM7.2 Clearing will be confined to the minimal area necessary to facilitate construction activities. Flag and designate potential giant garter snake habitat within or adjacent to the project area as ESA's. This area will be avoided by all construction personnel.	DPW/CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.3 Construction personnel will receive Service approved worker environmental awareness training. This training instructs workers to recognize giant garter snakes and their habitat(s).	DPW	DPW	PRIOR TO CONSTRUCTION	ONCE	COMPLY W/FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.4 A biological monitor shall be present during installation and implementation of (1) any water diversion in Markham Ravine, and (2) any dewatering system for construction of the pier foundation. If a giant garter snake is observed during any dewatering activities, the biological monitor shall relocate the snake downstream of the work area.	DPW	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.5 The project area will be surveyed for giant garter snakes a maximum of 24 hours prior to construction activities. Surveys of the project area will be repeated if a lapse in construction activity of two weeks or greater has occurred. If a snake is encountered during construction activities shall cease until appropriate corrective measures have been completed or it has been determined that the snake will not be harmed. Any sightings and any incidental take will be reported to the Service immediately by telephone at (916) 414-6600.	DPW	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	QUALIFIED BIOLOGIST	HBP/ROAD FUND

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MM7.6 The conservation measures in the table below will be implemented to minimize the effects of loss and disturbance of habitat on giant garter snakes. Replacement ratios are based on acreage and duration of disturbance. The project will result in less than 20 ac (i.e. 0.13 ac) of temporary impacts to giant garter snake habitat lasting one season. The project will also result in less than 3 ac (i.e. 0.06 ac) net permanent loss of giant garter snake habitat and less than 1 ac loss of aquatic habitat. Due to these factors, it was determined that the project will qualify as Level 1 impacts requiring restoration and Level 3 impacts (for permanent loss) requiring 3:1 replacement. **Summary of Giant Garter Snake Conservation Measures** LEVEL 1: 1 season; Less than 20 and temporary; Restoration LEVEL 2: 2 seasons; Less than 20 and temporary; Restoration plus 1:1 replacement LEVEL 3: More than 2 seasons and temporary; Less than 20 and temporary; 3:1 Replacement (or restoration plus 2:1 replacement) Permanent loss; Less than 3 acres total giant garter snake habitat AND Less than 1 acre aquatic habitat OR Less than 218 linear feet bank habitat; 3:1 Replacement	DPW	DPW		ONCE	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.7 As a result of lengthening the bridge from 24 feet to 125 feet and moving the new southern abutment approximately 65 feet to the south, the project will create 0.08 acre of aquatic habitat resulting in a 0.06 acre net increase in GGS aquatic habitat	DPW	DPW	DURING CONSTRUCTION	ONCE	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.8 - Following project completion, all areas temporarily disturbed during construction, totaling 0.13 ac, will be restored following the Guidelines for Restoration and/or Replacement of Giant Garter Snake Habitat, outlined below	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	ONCE	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.9 The disturbed area will be regraded to its preexisting contour and ripped, if necessary, to decompact the soil	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	ONCE	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND

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MM7.10 The area will be hydroseeded. Hydroseed mix will contain at least 20-40 percent native grass seeds. Some acceptable native grasses include annual fescue (Vulpia spp.), California brome (Bromus carinatus), blue wildrye (Elymus glaucus) and needle grass (Nassella spp.). The seed mix shall also contain 2-10 percent native forb seeds, five percent sub clover (Trifolium hirtum), and five percent alfalfa (Medicago sativa). Approximately 40-68 percent of the mixture may be non aggressive European annual grasses, such as wild oats (Avena sativa), wheat (Triticum sp.), and barley (Hordeum vulgare). Aggressive non native grasses will not be included in the seed mix. These grasses include perennial ryegrass (Lolium perenne), cheatgrass (Bromus tectorum), fescue (Festuca sp.), giant reed (Arundo donax), medusa head (Taeniatherum caput medusae), or Pampas grass (Cortaderia selloana). Endophyte infected grasses will not be included in the seed mix.	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	ONCE	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.11 Replacement of giant garter snake habitat will be implemented through on site creation of aquatic habitat and purchase of mitigation credits at a USFWS approved mitigation bank. The creation of 0.08 ac of aquatic habitat reduces the net permanent impacts from 0.14 ac to 0.06 ac. Sufficient credits will be purchased to compensate for 0.06 ac of permanent impacts at a 3:1 replacement ratio, a total of 0.18 ac of mitigation credits are required.	DPW/CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	ONCE	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.12 All construction will be conducted during daylight hours.	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.13 In October, following construction, all areas temporarily disturbed during construction (e.g., equipment storage and access areas) will be reseeded with erosion control seeding consisting of a sterile, non proliferating grass species such as cereal barley or Regreen. The seed mix shall not include any fertilizers or chemicals.	CONSTRUCTION CONTRACTOR	DPW	AFTER CONSTRUCTION	ONCE	COMPLY W/ FHWA GIANT GARTER SNAKE PROGRAMMATIC BIOLOGICAL OPINION	HBP/ROAD FUND
MM7.14 Measures consistent with the current Caltrans Construction Site Best Management Practices (BMPs) Manual (including the Storm Water Pollution Prevention Plan [SWPPP] and Water Pollution Control Program [WPCP] Manuals [http://www.dot.ca.gov/hq/construc/Construction_Site_BMPs.pdf]) will be implemented to minimize effects to giant garter snake (e.g., siltation, etc.) during construction.	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CALTRANS CONSTRUCTION BMP'S	HBP/ROAD FUND
MM7.15 A WPCP shall be prepared by the contractor in accordance with typical provisions associated with a Regional General Permit for Construction Activities (on file with the Central Valley RWQCB). The WPCP will contain a Spill Response Plan with instructions and procedures for reporting spills, the use and location of spill containment equipment, and the use and location of spill collection materials.	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CALTRANS CONSTRUCTION BMP'S	HBP/ROAD FUND
MM7.16 Prior to the start of the swallow nesting season (March 1 to August 31) exclusion netting (or equivalent material) shall be installed on the underside, the side of the existing bridge, and the face of the existing abutments to prevent swallows or other birds from nesting on the bridge. Exclusion structures shall be left in place and maintained until the existing bridge is removed, or August 31, whichever is earlier.	DPW	DPW	BEFORE MARCH 1	CONTINUOUS UNTIL AUGUST 31 OR BRIDGE REMOVAL	COMPLY W/ MIGRATORY BIRD TREATY ACT AND THE STATE FISH AND GAME CODE	HBP/ROAD FUND

MITIGATION MEASURE	RESPONSIBLE PARTY	ORGANIZATION OR INDIVIDUAL RESPONSIBLE FOR VERIFYING COMPLIANCE	TIMING OF INITIAL ACTION	FREQUENCY AND DURATION OF MONITORING	PERFORMANCE CRITERIA	PROPOSED FUNDING
MM7 17 The new bridge design will provide similar nesting habitat for swallows as the existing bridge	DPW	DPW	DURING DESIGN	ONCE	COMPLY W/ MIGRATORY BIRD TREATY ACT AND THE STATE FISH AND GAME CODE	HBP/ROAD FUND
MM7 18 Prior to March 1 (i e the start of the nesting season) trees that will be removed by project construction (and provide suitable nesting habitat for raptors) shall be cut to ground level but the root systems left intact	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS UNTIL MARCH 1	COMPLY W/ MIGRATORY BIRD TREATY ACT AND THE STATE FISH AND GAME CODE	HBP/ROAD FUND
MM7 19 - Prior to March 1 (i e the start of the nesting season) cattails blackberries brush and other potential nesting habitat that will be removed by project construction shall be cut low to the ground but the root systems left intact If this is not possible at least 14 days prior to the start of construction a survey for nesting tricolored blackbirds and other birds shall be conducted in the BSA by a qualified biologist If nesting birds are found within the BSA a setback of 100 feet from nesting areas shall be established and maintained during the nesting season This setback applies whenever construction or other ground disturbing activities must begin during the nesting season in the presence of nests which are known to be occupied Setbacks shall be marked by brightly colored temporary fencing and maintained until construction is complete or the young have fledged as determine by a qualified biologist Alternatively the setback (if required) may be reduced if a qualified biologist is present to monitor the nest(s) when construction begins If the biologist determines nesting is not affected by construction activities with the reduced setback work can proceed If it is determined that construction activities are adversely affecting the nesting birds with the reduced setback all construction within 100 feet of a nest shall be halted until the biologist can establish an appropriate setback	DPW/CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS UNTIL MARCH 1	COMPLY W/ MIGRATORY BIRD TREATY ACT AND THE STATE FISH AND GAME CODE	HBP/ROAD FUND
MM7 20 If groundwater is encountered during the excavation of the abutment foundations water in the excavated area shall be pumped to an upland area on the site approved by a qualified biologist pumped to a settling basin or disposed of at a suitable off site location Dewatering methods could also include lowering the groundwater elevation in the area near the excavation with wellpoints Water from the wellpoint pumps shall be treated and may be discharged directly into Markham Ravine	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ ARMY CORPS OF ENGINEERS PERMIT REQUIREMENTS	HBP/ROAD FUND
MM7 21 The project shall avoid waters of the U S to the maximum extent feasible Prior to any work in or adjacent to Markham Ravine a diversion shall be constructed to channelize the flow outside of the construction area Diversion methods shall consist of either multiple corrugated metal pipe culverts concrete blocks with visquine sandbags, or an equivalent method	CONSTRUCTION CONTRACTOR	DPW	DURING CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ ARMY CORPS OF ENGINEERS PERMIT REQUIREMENTS	HBP/ROAD FUND
MM7 22 - Measures consistent with the current Caltrans Construction BMPs Manual (including the SWPPP and WPCP Manuals (http //www dot ca gov/hq/construct/ Construction_Site_BMPs pdf)) shall be implemented to minimize effects to water quality (e g siltation etc) during construction	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	CONTINUOUS DURING CONSTRUCTION	COMPLY W/ CALTRANS CONSTRUCTION BMP S	HBP/ROAD FUND

MITIGATION MEASURE	RESPONSIBLE PARTY	ORGANIZATION OR INDIVIDUAL RESPONSIBLE FOR VERIFYING COMPLIANCE	TIMING OF INITIAL ACTION	FREQUENCY AND DURATION OF MONITORING	PERFORMANCE CRITERIA	PROPOSED FUNDING
MM7 23 Following construction activities the channel will be returned to preconstruction contours (if necessary)	CONSTRUCTION CONTRACTOR	DPW	AFTER CONSTRUCTION	AS DEEMED NECESSARY	COMPLY W/ CALTRANS CONSTRUCTION BMP S	HBP/ROAD FUND
MM9 1 - The contractor will prepare a Spill Prevention and Countermeasure Plan (SPCP) prior to the commencement of construction activities The SPCP will include information on the nature of all hazardous materials that will be used on site The SPCP will also include information regarding proper handling of hazardous materials and clean-up procedures in the event of an accidental release The phone number of the agency overseeing hazardous materials and toxic clean up will be provided in the SPCP	CONSTRUCTION CONTRACTOR	DPW	PRIOR TO CONSTRUCTION	PRIOR TO CONSTRUCTION	COMPLY W/ CALTRANS CONSTRUCTION BMP S	HBP/ROAD FUND
MM9 2 As is the case for any project that proposes excavation there is the potential for encountering unknown hazardous contamination during project construction For any previously unknown hazardous waste/material encountered during construction Caltrans Construction Hazardous Waste Contingency Plan shall be followed Testing and removal for yellow traffic striping and pavement marking materials shall be conducted in accordance with Caltrans Construction Program Procedure Bulletin 99 2 (CPB 99 2) if the striping should be made of thermal plastic If the yellow traffic striping consists only of paint no action is necessary	CONSTRUCTION CONTRACTOR	DPW	WHEN ENCOUNTERED	DURING CONSTRUCTION	COMPLY W/ CALTRANS CONSTRUCTION PROGRAM PROCEDURE BULLETIN 99 2(CPB 99 2) BMP S	HBP/ROAD FUND
MM14 1 If paleontological resources are discovered during construction activities all ground disturbing activities within 25 feet of the discovery should be redirected until a qualified paleontologist has assessed the situation consulted with agencies as appropriate and made recommendations for the treatment of the discovery Project personnel should not collect or move any paleontological materials It is recommended that adverse effects to paleontological resources be avoided by project activities If avoidance is not feasible the paleontological resources should be evaluated for their significance Paleontological resources are considered significant if they possess the possibility of providing new information regarding past life forms paleoecology stratigraphy and geological formation processes If the resources are not significant avoidance is not necessary If the resources are significant they must be avoided by adverse effects or such effects must be mitigated Mitigation may include monitoring recording the fossil locality data recovery sediment sampling for micro fossils analysis a technical data recovery report and accessioning the fossil material to a paleontological repository Educational public outreach may also be appropriate Upon completion of the assessment the report should be submitted to the University of California Museum of Paleontology (UCMP) and Placer County	DPW	DPW	WHEN ENCOUNTERED	DURING CONSTRUCTION	COMPLY W/ SHPO SECTION 106 GUIDANCE	HBP/ROAD FUND
MM14 2 If previously unidentified cultural materials are unearthed during construction it is Caltrans policy that work be halted in that area until a qualified archaeologist can assess the significance of the find	DPW		WHEN ENCOUNTERED	DURING CONSTRUCTION	QUALIFIED ARCHAEOLOGIST	HBP/ROAD FUND

MITIGATION MEASURE	RESPONSIBLE PARTY	ORGANIZATION OR INDIVIDUAL RESPONSIBLE FOR VERIFYING COMPLIANCE	TIMING OF INITIAL ACTION	FREQUENCY AND DURATION OF MONITORING	PERFORMANCE CRITERIA	PROPOSED FUNDING
MM14.3 If human remains are encountered work within 25 feet of the discovery will be halted and the Placer County Coroner Placer County Department of Public Works and Caltrans District 3 archaeologist will be notified immediately Project personnel will not collect or move any human remains or associated materials except as necessary for identification purposes and in coordination with the Native American on site representative If the human remains are of Native American origin the Coroner must notify the Native American Heritage Commission within 24 hours of this identification The Native American Heritage Commission will identify a Most Likely Descendant (MLD) to inspect the site and provide recommendations for the proper treatment of the remains and associated grave goods	DPW	DPW	WHEN ENCOUNTERED	DURING CONSTRUCTION	QUALIFIED ARCHAEOLOGIST/PLACER COUNTY CORONER	HBP/ROAD FUND