MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) was formulated based on the findings of the Draft Initial Study/Mitigated Negative Declaration (IS/MND) for the Center Parkway, Elder Creek Bridge Project. This MMRP lists mitigation measures recommended in the Draft IS/MND and identifies mitigation monitoring requirements. These requirements are provided only for mitigation measures that would reduce or avoid significant impacts of the proposed project.

Table 1 presents the mitigation measures identified for the proposed project. Each mitigation measure is numbered according to the topical section to which it pertains. For example, Mitigation Measure BIO-1 is the first mitigation measure identified in Section IV, Biological Resources.

The first column of Table 1 provides the mitigation measures that were identified in the Draft IS/MND. The column entitled "Party Responsible for Monitoring," and "Timing," identify the party ultimately responsible for ensuring that the mitigation measure is implemented, and the approximate time frame for the oversight agency to ensure implementation of the mitigation measures.

Table 1: Mitigation Monitoring and Reporting Program

Mitigation Measures	Party Responsible for Implementing Mitigation	Party Responsible for Monitoring	Timing
Transportation/Circulation			
T/C 1. During construction, in order to avoid potential conflict with traffic in the public right-of-way, the construction contractor would be required to submit to the City of Sacramento and implement an approved traffic control plan as a component of the proposed project. The traffic control plan would include the following measures: • Staging construction plans, a construction schedule, and a description of the City's noticing procedures, prepared prior to commencement of construction activities to avoid inadequate emergency access or access to nearby uses. • Statements on the improvement plans that: o Public safety and emergency services will be kept informed of construction activities for use in planning emergency response routing, if necessary. o Construction will occur during non-peak hours (i.e., 8:30-4:00) so as to not significantly impact traffic flow. o Only one lane of travel will be closed at one time; thereby, allowing controlled through access.	Contractor	Department of Public Works Director	During Construction
Biological Resources			
BIO-1: The project will implement the following measures to avoid and minimize impacts to western pond turtle: • Prior to the start of construction activities, the reach of Elder Creek	Contractor	Department of Public Works Director	Before Construction

within the project site shall be surveyed by a qualified biologist for the presence of pond turtles. If turtles are observed in the project site, they shall be relocated outside of the work area.			
BIO-2: Construction activity within habitat shall 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 U.S. Fish and Wildlife Service's Sacramento Office to determine if additional measures are necessary to minimize and avoid take.	Contractor	Department of Public Works Director	Before and During Construction
BR-3: Clearing shall be confined to the minimum area necessary to facilitate construction activities. The contractor will be required to establish ESA fencing around giant garter snake habitat adjacent to the project impact area. This area shall be avoided by all construction personnel.	Department of Public Works Director	Department of Public Works Director	Before Construction
BR-4: The work area for installation of RSP (rock slope protection) around pier footings shall be dewatered prior to the start of work. Dewatering shall consist of installation of a flow diversion upstream of the bridge to isolate the base of the pier footings from the live channel (area of active stream flow). The flow diversion shall consist of K-rail with visquine, sandbags, or an equivalent method to block flows upstream and downstream of the project site. Flows shall be temporarily diverted into a pipe through the work area and then returned to the live channel downstream of the project site.	Contractor	Department of Public Works Director	Before Construction
BR-5: Construction personnel shall receive U.S. Fish and Wildlife Service-approved worker environmental awareness training. This training instructs workers to recognize giant garter snakes and their habitat(s).	Contractor	Department of Public Works Director	Before Construction
BR-6: Twenty-four hours prior to construction activities, the project area shall be surveyed for giant garter snakes. Survey of the project area shall be repeated if a lapse in construction activity of two weeks or greater has occurred. If a snake is encountered during construction,	Contractor	Department of Public Works Director	Before Construction

activities shall cease and consultation with the Service shall be reinitiated.			
BR-7: Following project completion, all areas temporarily disturbed during construction shall be restored following the "Guidelines for Restoration and/or Replacement of Giant Garter Snake Habitat" outlined below. • Restoring of giant garter snake habitat includes minimizing impacts of project activities to the existing habitat, including using silt fencing, designating ESAs, using protective mats, preventing runoff, and providing worker awareness training. • Remove all construction debris and stockpiled materials. • Regrade area to preexisting contour, or a contour that would improve restoration potential of the site. Project will have minimal impact outside RSP area. • Replant and hydroseed the restoration area. Recommended plantings consist of a) wetland emergents, b) low-growing cover on or adjacent to banks, and c) upland plantings/hydroseeding mix to encourage use by other wildlife. Riparian plantings are not appropriate because shading may result in lack of basking sites. Native plantings are encouraged except where nonnatives shall provide additional values to wildlife habitat and shall not become invasive in native communities. The applicant should obtain cuttings, plantings, plugs, or seeds, from local sources wherever possible. The applicant should attempt to restore conditions similar to that of adjacent or nearby habitats. • Emergent wetland plants recommended for giant garter snake habitat are California bulrush (Scirpus californicus), cattail (Typha spp.), and water primrose. Additional wetland plantings may include common tule (Scirpus acutus), Baltic rush (Juncus balticus), or duckweed.	Contractor	Department of Public Works Director	After Construction

• Cover species on or adjacent to the bank may include California blackberry (Rubus californica), or wild grape, along with the hydroseeding mix recommended below. Upland plantings/hydroseeding mix: disturbed soil surfaces such as levee slopes should be hydroseeded to prevent erosion. The Service recommends a mix of at least 20-40 percent native grass seeds [such as annual fescue (Vulpia spp.), California brome (Bromus carinatus), blue wildrye (Elymus glaucus), and needle grass (Nassella spp.), 2-10 percent native forb seeds, five percent rose 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)]. The Corps shall not include aggressive non-native grasses, such as perennial ryegrass (Lolium perenne), cheatgrass (Bromus tectorum), fescue (Festuca spp.), giant reed (Arundo donax), medusa-head (Taeniatherum caput-medusae), or Pampas grass (Cortaderia selloana) in the hydroseed mix. Endophyte-infected grasses shall not be used. Mixes of one-hundred percent native grasses and forbs may also be used, and are encouraged.			
BR-8: All construction shall be conducted during daylight hours.	Contractor	Department of Public Works Director	During Construction
BR-9: 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]) shall be implemented to minimize effects to giant garter snake (e.g., siltation, etc.) during construction.	Contractor	Department of Public Works Director	Before and During Construction
BR-10: A Water Pollution Control Plan (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	Contractor	Department of Public Works Director	Before Construction

Central Valley RWQCB). The WPCP shall 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.			
BR 11. Waters of the U.S. and CDFG waters permanently impacted during construction shall be compensated by one of the following methods, or by using a combination of the two methods, contingent upon approval by the Corps and CDFG, respectively: Through use of in-lieu fee mitigation in accordance with the Corps, Sacramento District's Interim Guidelines for In-Lieu Fee Mitigation. The interim guidelines include an estimated fee schedule based on a 2:1 mitigation ratio. Through purchase of credits at a Corps/CDFG-approved mitigation bank at a minimum 1:1 mitigation ratio. Preservation, creation and/or restoration of the impacted resources at a minimum of a 1:1 ratio.	Department of Public Works Director	Department of Public Works Director	Before Construction
BR 12. Prior to the start of construction, the applicant shall obtain all regulatory permits required from the Corps, RWQCB, and/or CDFG. Specific conditions and/or mitigation requirements, if different than described above, shall also become a condition(s) of project approval.	Department of Public Works Director	Department of Public Works Director	Before Construction
Hazards			
H1. Machinery used during construction shall be maintained according to manufacturer's specifications to prevent accidental sparks.	Contractor	Department of Public Works Director	During Construction
H2. Fire extinguishers shall be kept on-site during all construction activities.	Contractor	Department of Public Works Director	During Construction

Cultural Resources			
CR 1a. In the event that any prehistoric subsurface archeological features or deposits, including locally darkened soil ("midden"), that could conceal cultural deposits, animal bone, obsidian and/or mortars are discovered during construction-related earth-moving activities, all work within 50 meters of the resources shall be halted, and the City shall consult with a qualified archeologist to assess the significance of the find. Archeological test excavations shall be conducted by a qualified archeologist to aid in determining the nature and integrity of the find. If the find is determined to be significant by the qualified archeologist, representatives of the City and the qualified archeologist shall coordinate to determine the appropriate course of action. All significant cultural materials recovered shall be subject to scientific analysis and professional museum curation. In addition, a report shall be prepared by the qualified archeologist according to current professional standards.	Contractor	Department of Public Works Director	During Construction
CR 1b. If a Native American site is discovered, the evaluation process shall include consultation with the appropriate Native American representatives. If Native American archeological, ethnographic, or spiritual resources are involved, all identification and treatment shall be conducted by qualified archeologists, who are certified by the Society of Professional Archeologists (SOPA) and/or meet the federal standards as stated in the Code of Federal Regulations (36 CFR 61), and Native American representatives, who are approved by the local Native American community as scholars of the cultural traditions. In the event that no such Native American is available, persons who represent tribal governments and/or organizations in the locale in which resources could be affected shall be consulted. If historic archeological sites are involved, all identified treatment is to be	Contractor	Department of Public Works Director	During Construction

carried out by qualified historical archeologists, who shall meet either Register of Professional Archeologists (RPA), or 36 CFR 61 requirements.			

CR 2. If a human bone or bone of unknown origin is found during construction, all work shall stop in the vicinity of the find, and the County Coroner shall be contacted immediately. If the remains are determined to be Native American, the coroner shall notify the Native American Heritage Commission, who shall notify the person most likely believed to be a descendant. The most likely descendant shall work with the contractor to develop a program for re-internment of the human remains and any associated artifacts. No additional work is to take place within the immediate vicinity of the find until the identified appropriate actions have taken place.	Contractor	Department of Public Works Director	During Construction