

Appendix E Environmental Commitment Record

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
PARKS AND RECREATIONAL FACILITIES										
PRF-1 (Minimization Measure): To further control the generation of construction-related fugitive dust emissions, the following measures will be implemented during construction: A. The construction contractor must comply with the Department's Standard Specifications in Section 14-9 (2010) and/or (2014). ▪ Section 14-9.02 specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances. ▪ Section 14-9.03 is directed at controlling dust. If dust palliative materials other than water are to be used, material specifications are described in Standard Specifications Section 18. B. Water or dust palliative will be applied to the site and equipment as often as necessary to control fugitive dust emissions. C. Soil binder will be spread on any unpaved roads used for construction purposes, and on all project construction parking areas. D. Trucks will be rinsed as they leave the right of way, as necessary, to control fugitive dust emissions. E. Construction equipment and vehicles will be properly tuned and maintained. All construction equipment will use low sulfur fuel as required by CA Code of Regulations Title 17, Section 93114. F. A dust control plan will be developed documenting sprinkling, temporary paving, speed limits, and timely revegetation of disturbed slopes as needed to minimize construction impacts to existing communities. G. Equipment and materials storage sites will be located as far away from residential and park uses, as practicable. Construction areas will be kept clean and orderly. H. Construction activities involving the extended idling of diesel equipment or vehicles will be prohibited, to the extent feasible. I. Track-out reduction measures, such as gravel pads at project access points to minimize dust and mud deposits on roads affected by construction traffic, will be used. J. Use tarps or other suitable enclosures on haul trucks carrying soils or other wet materials. K. Dust and mud that are deposited on paved, public roads due to construction activity and traffic will be promptly and regularly removed to decrease particulate matter.	2-24	Community Impact Assessment (CIA)	RE, Contractor	CONSTRUCTION	Standard Specifications 13-4.03E(3) 13-4.03E(4) 14-9 14-9.02 14-9.03 18					

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
							YES	NO		YES	NO
L. Mulch will be installed or vegetation planted as soon as practical after grading to reduce windblown particulate in the area. Be aware that certain methods of mulch placement, such as straw blowing, may themselves cause dust and visible emission issues and may need to use controls such as dampened straw.											
RELOCATIONS AND REAL PROPERTY ACQUISITIONS											
RRPA-1: Right of way will be acquired in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as Amended, and property owners will receive just compensation and fair market value for their property.	2-44	CIA	SANBAG, Caltrans	PRIOR TO RELOCATION OF PROPERTIES							
UTILITIES											
UT-1: A thorough investigation of existing utilities will be performed, as well as identification of any required future utilities, to determine the appropriate steps for protection-in-place, relocation, and utility openings as needed. Additional environmental analysis will be completed and measures implemented, to avoid or minimize impacts.	2-52	CIA	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION							
UT-2: Any utility relocation work determined to be necessary will include coordination with affected utility companies, to avoid any service disruptions, if at all possible, or minimize the impacts of any disruptions that cannot be avoided.	2-52	CIA	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION							
TRAFFIC AND TRANSPORTATION											
TRAF-1 (Minimization Measure): A traffic management plan (TMP) will be prepared and will include the detailing of any projected temporary street closures or expected traffic delays due to construction vehicles using roadways. The TMP will also include a public awareness program that would use the HAR, local media, newsletters, and flyers. The following elements will be major components of the TMP: Public Awareness Campaign, particularly related to the scheduling of work; Construction Zone Enforcement Enhancement Program (COZEPP); Utilization of Portable Changeable Message Signs (PCMSs); and Notification to be sent to the local fire station and any residents, if applicable, that may be substantially affected by any street closures (including partial and/or full closures) or traffic diversions at least two weeks in advance of the planned closure or diversion. The TMP will be provided to city and county police and fire departments with construction plans prior to commencement.	2-69	Traffic Impact Analysis (TIA), Supplemental Traffic Impact Analysis (STIA), and Draft Environmental Document (ED)	SANBAG, Caltrans, RE, Contractor	PRIOR TO CONSTRUCTION, CONSTRUCTION	Standard Specification 12-4.01						

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
VISUAL/AESTHETICS										
VR-1: Construction staging shall be planned to avoid environmentally sensitive areas and vegetation shall be protected and restored where needed.	2-82	Visual Impact Analysis (VIA)	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION						
VR-2 (Minimization Measure): Landscaping shall be consistent with Caltrans' 210 Corridor Landscape Plan, SANBAG/Caltrans BMPs, water quality protection requirements per CWA Sections 401, 402 and 404, and USFWS requirements for the protection of SBKR. The selection of planting seed mix and pre-emergents (herbicides) will be reviewed by the Caltrans District Biologist for consistency with Caltrans requirements. Highway right of way landscaping such as trees and other vegetation that is removed will be replaced at a rate, size, and location determined by the Caltrans District Landscape Architect. New irrigation systems will be placed at the direction of the Caltrans District Landscape Architect.	2-82	VIA	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION						
CULTURAL RESOURCES										
CR-1: 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.	2-86	Historic Property Survey Report (HPSR) and Archaeological Survey Report (ASR)	RE and Contractor	ALL GROUND DISTURBING ACTIVITIES, CONSTRUCTION	Standard Specification 14-2.02A			Contact The District Environmental Branch Chief (DEBC), Gabrielle Duff ([909] 383-6933) or District Native American Coordinator (DNAC), Gary Jones ([909] 383-7505) if any cultural elements or human remains are discovered. An additional survey will be required if the project changes to include areas not previously surveyed for cultural resources. Use on all "large operations" with a disturbed soil area of 50 acres or more or where the contractor will move 5,000 cubic yards or more of soil in a year. Use on all "large operations" for projects in the Coachella/Searless Valley Planning Area		

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
<p>CR-2: 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 Section 5097.98, if the remains are thought to be Native American, the coroner will notify the Native American Heritage Commission (NAHC) who will then notify the Most Likely Descendant (MLD). At this time, the person who discovered the remains will contact the Caltrans District 8 Environmental Branch Chief, or his/her designee, 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.</p>	2-86	HPSR and ASR	RE and Contractor	ALL GROUND DISTURBING ACTIVITIES, CONSTRUCTION				Contact The District Environmental Branch Chief (DEBC), Gabrielle Duff ([909] 383-6933) or District Native American Coordinator (DNAC), Gary Jones ([909] 383-7505) if any cultural elements or human remains are discovered. An additional survey will be required if the project changes to include areas not previously surveyed for cultural resources.		
<p>CR-3: An Osteologically trained Archaeologist and Native American Monitor shall monitor all ground disturbing construction activities for the whole of the project area for the duration of the project. Monitors shall be notified five (5) working days prior to the commencement of work. This measure will need to be drawn up as an NSSP and approved by Caltrans Headquarters.</p>	2-86	HPSR and ASR	RE, Contractor	ALL GROUND DISTURBING ACTIVITIES, CONSTRUCTION	NSSP			Contact The District Environmental Branch Chief (DEBC Gabrielle Duff ([909] 383-6933) or District Native American Coordinator (DNAC), Gary Jones ([909] 383-7505) if any cultural elements or human remains are discovered. An additional survey will be required if the project changes to include areas not previously surveyed for cultural resources.		

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
WATER QUALITY AND STORM WATER RUNOFF										
WR-1: Construction Site BMPs shall be implemented during construction for controlling potential pollutants on construction sites. The following BMP categories shall be considered and implemented, where feasible: Soil Stabilization Practices; Sediment Control Practices; Tracking Control Practices; Wind Erosion Control; Non-Storm Water Controls; and Waste Management and Material Pollution Controls.	2-102	Summary Floodplain Encroachment Report (Floodplain Encroachment Report), Location Hydraulic Study (Hydraulic Study), Scoping Questionnaire for Water Quality Issues (WQ Questionnaire), and New Preliminary Materials Report (Materials Report)	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN (Incorporate BMPs into project), PRIOR TO AND DURING GRADING AND CONSTRUCTION (Implement BMPs)	Standard Specification 13-4.01					
HAZARDOUS WASTE/MATERIALS										
HAZ-1: The following Department Waste Management (WM) and Materials Pollution Control BMPs from the <i>Caltrans Construction Site Best Management Practice Field Manual and Troubleshooting Guide (2003)</i> shall be implemented: <ul style="list-style-type: none"> HAZ-1a: Material Delivery and Storage. Materials associated with construction activities shall be delivered and stored using practices that prevent these materials from polluting receiving waters. Typical materials include PCC components, petroleum products, pesticides, herbicides, fertilizers, detergents, plasters, acids, lime, glues, adhesives, paints, and solvents. HAZ-1b: Material Use. Materials associated with construction activities shall be used in accordance with practices that prevent them from polluting receiving waters. 	2-113	Initial Site Assessment (ISA) and Materials Report	RE, Contractor	PRIOR TO DEMOLITION/ GRADING, DURING GRADING/ CONSTRUCTION						
HAZ-2: A Site Safety Plan, which addresses the management of potential health and safety hazards to workers and the public, shall be prepared and implemented prior to initiation of the proposed construction activities. The instructions, guidelines, and requirements for handling hazardous materials to ensure employee safety as provided in Chapter 16, "Hazardous Materials Communication Program," of the Department's Safety Manual will be followed.	2-114	ISA and Materials Report	RE, Contractor	PRIOR TO DEMOLITION/ GRADING, DURING GRADING/ CONSTRUCTION						

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
<p>HAZ-3: Wastes and petroleum products used during construction shall be collected, transported, and removed from the project site in accordance with the Resource Conservation and Recovery Act regulations, and Department requirements.</p> <ul style="list-style-type: none"> HAZ-3a: Spill Prevention and Control. Spill prevention and prompt appropriate spill response reduces the potential for polluting receiving waters with spilled contaminants.¹ HAZ-3b: Solid Waste Management. Solid construction wastes shall be collected, stored, and disposed of using practices that minimize contact with storm water. HAZ-3c: Hazardous Waste Management. Hazardous wastes shall be collected, stored, and disposed of using practices that prevent contact with storm water. The following types of wastes are considered hazardous: petroleum products, concrete curing compounds, palliatives, septic wastes, paints, stains, wood preservatives, asphalt products, pesticides, acids, solvents, and roofing tar. There may be additional wastes on the project that are considered hazardous. It is also possible that non-hazardous waste could come into contact with these hazardous wastes, such that they become contaminated and are therefore considered hazardous waste.¹ HAZ-3d: All hazardous waste shall be stored, transported, and disposed as required in Title 22, California Code of Regulations (CCR), Division 4.5 and 49 CFR 261-263, and Section 7-109 Solid Waste Disposal and Recycling Reporting Department Construction Manual. 	2-114	ISA and Materials Report	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Specifications 14-11.02B 14-11.02E 14-11.02F						
AIR QUALITY											
<p>AQ-1: To control the generation of construction-related fugitive dust emissions, the construction contractors will be required to comply with SCAQMD's Rule 403 requirements. Applicable PM₁₀ and PM_{2.5}-reducing construction practices presented in Rule 403 must be implemented throughout construction.</p>	2-135	Air Quality Report (AQR)	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Specification 14-9.02						
<p>AQ-2: The construction contractor shall comply with Caltrans' Standard Specifications in Section 14.</p>	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Specification 14-9						

¹ Caltrans, 2003. *Construction Site Best Management Practice Field Manual and Troubleshooting Guide*. January.

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
AQ-3: Section 14-9.01 specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Specification 14-9.01						
AQ-4: Section 14-9.02 is directed at controlling dust. If dust palliative materials other than water are to be used, material specifications are contained in Section 18.	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Specifications 14-9.02 18						
AQ-5: Apply water or dust palliative to the site and equipment as frequently as necessary to control fugitive dust emissions. Fugitive emissions generally must meet a "no visible dust" criterion at the point of the right of way line; dust emissions must also not exceed 20 percent opacity (as determined by the appropriate test method included in the SCAQMD Rule 403 Implementation Handbook).	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Specification 19-9.03A						
AQ-6: Spread soil binder on any unpaved roads used for construction purposes and all project construction parking areas	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION							
AQ-7: Rinse off trucks as they leave the right of way as necessary to control fugitive dust emissions.	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION							
AQ-8: Properly tune and maintain construction equipment and vehicles. Use low-sulfur fuel in all construction equipment, as provided in California Code of Regulations Title 17, Section 93114.	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION							
AQ-9: Develop a dust control plan documenting sprinkling, temporary paving, speed limits, and expedited revegetation of disturbed slopes as needed to minimize construction impacts on existing communities.	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION							
AQ-10: Locate equipment and material storage sites as far away from residential and park uses as practical, with a minimum distance of 300 feet.	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION							
AQ-11: Establish Environmentally Sensitive Areas (ESAs) or their equivalent near sensitive air receptors where construction activities involving extended idling of diesel equipment would be prohibited, in compliance with applicable AQMD requirements.	2-135	AQR and ED	SANBAG, Caltrans, RE and Contractor	PRIOR TO CONSTRUCTION							
AQ-12: Use track-out reduction measures such as gravel pads at project access points to minimize dust and mud deposits on roads affected by construction traffic.	2-135	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION							
AQ-13: Cover all transported loads of soils and wet materials prior to transport or provide adequate freeboard (space from the top of the material to the top of the truck) to minimize emissions of dust (particulate matter) during transportation.	2-136	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION							

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
AQ-14: Promptly and regularly remove dust and mud on paved public roads from construction activity and traffic to decrease particulate matter.	2-136	AQR and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION						
AQ-15: Route and schedule construction traffic to avoid peak travel times as much as possible to reduce congestion and related air quality impacts caused by idling vehicles along local roads.	2-136	AQR and ED	SANBAG, Caltrans, Resident Engineer and Contractor	PRIOR TO/DURING CONSTRUCTION						
AQ-16: Install mulch or plant vegetation as soon as practicable following completion of all site disturbance activities to reduce windblown particulate in the area. Be aware that certain methods of mulch placement, such as straw blowing, may themselves cause dust and visible emission issues; controls, such as dampened straw, may be needed.	2-136	AQR and ED	RE, Contractor	DURING AND AFTER CONSTRUCTION						
NOISE										
NOI-1: Sound control shall conform to the provisions in Section 14-8.02, "Noise Control," of Caltrans' 2010 Standard Specifications and Special Provisions. The contractor shall not exceed 86 dBA L _{max} at 50 feet from the job site from 9 p.m. to 6 a.m. Internal combustion engines shall be equipped with the manufacturer-recommended muffler. Internal combustion engine shall not be operated on the job site without the appropriate muffler. For areas of project located within or adjacent to City of Rialto limits, City of Rialto Municipal Code Section 9.50 070 (Ordinance No. 1417) shall also apply during construction: 9.50.070 Disturbances from Construction Activity A. No person shall be engaged or employed, or cause any other person to be engaged or employed, in any work of construction, erection, alteration, repair, addition, movement, demolition, or improvement to any building or structure except within the hours provided for by subsection B of this section. B. The permitted hours for such construction work are as follows: 1. October 1st through April 30th. Monday-Friday: 7:00 a.m. to 5:30 p.m. Saturday: 8:00 a.m. to 5:00 p.m. Sunday: No permissible hours State holidays: No permissible hours 2. May 1st through September 30th: Monday-Friday: 6:00 a.m. to 7:00 p.m. Saturday: 8:00 a.m. to 5:00 p.m. Sunday: No permissible hours State holidays: No permissible hours	2-149	Noise Study Report (NSR)	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Special Provision 14-8.02					
NOI-2: In conjunction with adhering to measure NOI-1 (above), if necessary in order to ensure implementation of measure NOI-1, the contractor may be required to implement additional noise reducing measures; including changing the location of stationary construction equipment, turning off idling equipment,	2-150	Noise Study Report (NSR)	RE, Contractor	DURING GRADING/ CONSTRUCTION						

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
rescheduling construction activity, notifying adjacent residents in advance of construction work, and installing acoustic barriers around stationary construction noise sources.										
NATURAL COMMUNITIES										
BIO-1: Avoid Clearing and Grubbing of RAFSS. RAFSS is located within the buffer associated with the Biological Study Area (BSA), but is not located within the project footprint; therefore, clearing and grubbing of RAFSS would be avoided. Clear marking of construction limits will be implemented to ensure that impacts to RAFSS do not occur.	2-157	Natural Environment Study/Jurisdictional Delineation (NES/JD)	RE, Contractor	PRIOR TO GROUND DISTURBANCE (Mark limits), DURING CONSTRUCTION (maintain marking)						
BIO-2: Regular watering for dust control. Active construction areas will be watered regularly to control dust and minimize impacts to adjacent vegetation.	2-157	NES/JD and ED	RE, Contractor	DURING GRADING/ CONSTRUCTION	Standard Specification 14-9.03A					
BIO-3: Firefighting Equipment and Preparation. When work is conducted adjacent to RAFSS or Riversidean sage scrub, appropriate firefighting equipment (e.g., extinguishers, shovels, water truck) will be available on the project site during all phases of project construction to help minimize the chance of construction-related wildfires. Shields, protective mats, and/or other fire preventative methods will be used during grinding, welding, and other spark-inducing activities.	2-157	NES/JD	RE, Contractor	DURING GRADING/ CONSTRUCTION (when work is conducted adjacent to Riversidean alluvial fan sage scrub or sage scrub)						
BIO-4: Environmental Training for All Construction Personnel. A qualified biologist will conduct an environmental training session for all project personnel prior to staging or grading activities. The training will include a description of the species of concern and their habitats, the general provisions of the Federal Endangered Species Act and the California Endangered Species Act, the need to adhere to the provisions of the federal and state Endangered Species Acts, penalties associated with violating the provisions of the Acts, the general measures that are being implemented to conserve the species of concern as they relate to the proposed project, and the access routes and project site boundaries within which the project activities must be accomplished.	2-157	NES/JD	SANBAG, Caltrans, RE, Contractor (prior to grading), RE and Contractor (during construction)	PRIOR TO GRADING (training), DURING CONSTRUCTION						
BIO-5: Presence of a Biological Monitor during Construction Activities. A qualified biologist will be present to monitor construction activities for the duration of the proposed project to ensure that all practicable measures are being employed to avoid incidental disturbance of habitat and species of concern outside of the project limits. Special attention will be provided to ensure that the Environmental Sensitive Area (ESA) (in BIO-6 , below) fencing is installed correctly and maintained daily. Additionally, ongoing monitoring and reporting will occur for the duration of construction activities to ensure implementation of BMPs.	2-157	NES/JD	SANBAG, Caltrans, RE, and Contractor	DURING GROUND-DISTURBANCE AND CONSTRUCTION						

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
<p>BIO-6: Installation of ESA Fencing. Construction limits adjacent to sensitive resource areas (i.e., RAFSS) will be demarcated using ESA fencing (i.e., orange snow screen), which will be installed by construction personnel under supervision of a biological monitor.</p> <p>Construction personnel will strictly limit their activities, vehicles, equipment, and construction materials to the project footprint and designated staging areas and routes of travel. The construction area(s) will be the minimal area necessary to complete the proposed project and will be specified in the construction plans.</p> <p>The ESA fencing will be reviewed daily by the biological monitor (as indicated in BIO-5) until the completion of all construction activities, or at a regular interval as to be determined in coordination with USFWS and CDFW. Construction personnel will be instructed that their activities are restricted to construction areas.</p>	2-158	NES/JD	SANBAG and Caltrans, RE and Contractor	FINAL DESIGN, PRIOR TO GROUND DISTURBANCE (Install fencing)/DURING CONSTRUCTION (maintain fencing)	Standard Special Provision 14-1.02A						
<p>BIO-7: Removal of Exotic Plant Species. Any exotic species that are removed during construction will be properly handled to prevent sprouting or regrowth on site.</p>	2-158	NES/JD	RE, Contractor	CONSTRUCTION (Daily before mobilizing to arrive at site and before leaving the site)							
<p>BIO-8: Clean Construction Equipment of Mud and Debris. Construction equipment will be cleaned of mud or other debris that may contain invasive plants and/or seeds and inspected by construction personnel to reduce the potential of spreading noxious weeds before mobilizing to the site and before leaving the site during the course of construction. Cleaning of equipment will occur at least 300 feet from ESA fencing in a designated area and will not drain to jurisdictional waters.</p>	2-158	NES/JD	RE, Contractor	CONSTRUCTION (Daily before mobilizing to arrive at site and before leaving the site)							
<p>BIO-9: Guidance on Removal and Disposal of Vegetation. Trucks carrying loads of vegetation that will be removed from the project site will be covered and disposed of in accordance with applicable laws and regulations.</p>	2-158	NES/JD	RE, Contractor	DURING GROUND-DISTURBING ACTIVITIES AND CONSTRUCTION							
<p>BIO-10: Post-Construction Revegetation. Once construction is complete, any disturbed areas remaining as bare ground will be hydro-seeded with a Caltrans-approved seed mix. The selection of planting seed mix and pre-emergents (herbicides) will be reviewed by the Caltrans District Biologist for consistency with Caltrans requirements.</p>	2-158	NES/JD	RE, Contractor	AFTER CONSTRUCTION (As soon as feasible following completion of grading)							

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
							YES	NO		YES	NO
BIO-11: Best Management Practices for Erosion Control and Water Pollution. Applicable Best Management Practices will be implemented. These may include but are not limited to: a) Water pollution and erosion control plans will be developed and implemented in accordance with Santa Ana Regional Water Quality Control Board (SARWQCB) requirements. Refer to Measure WR-1 . b) To avoid attracting wildlife to the project site, the construction will be kept as clean of debris as possible. All food related trash items will be enclosed in sealed containers and regularly removed from the site(s).	2-158	NES/JD	SANBAG and Caltrans, RE and Contractor	FINAL DESIGN, PRIOR TO GROUND DISTURBANCE/ DURING CONSTRUCTION							
WETLANDS AND OTHER WATERS											
WET-1: Best Management Practices for Erosion Control and Water Pollution. Applicable Best Management Practices will be implemented. These may include but are not limited to: <ul style="list-style-type: none"> Water pollution and erosion control plans will be developed and implemented in accordance with SARWQCB requirements. Equipment storage, fueling, and staging areas will be located at sites with minimal risks of direct drainage into surface waters. Project related spills of hazardous materials will be reported to appropriate entities, including but not limited to the City and/or SARWQCB, and will be cleaned up immediately and contaminated soils removed to approved disposal areas. To avoid attracting wildlife to the project site, the construction will be kept as clean of debris as possible. All food related trash items will be enclosed in sealed containers and regularly removed from the site(s). 	2-170	NES/JD and WQ Questionnaire	SANBAG and Caltrans, RE and Contractor	FINAL DESIGN, DURING CONSTRUCTION							
WET-2: Impacts to 0.003 acre of non-wetland Waters of the U.S./ Waters of the State and 0.005 acre of CDFW unvegetated streambed may require mitigation under Section 401 and 404 of the CWA and Section 1602 of the CFGC. Replacement of resources at no less than a 1:1 ratio is currently proposed. Options for mitigation may include, but are not limited to, purchase of credits for invasive removal and on-going restoration through the Santa Ana Watershed Association In-Lieu Fee program. Final mitigation under CWA Sections 401 and 404 and CFGC Section 1602 will be determined during the aquatic permit process. Any measures included in these permits shall be implemented.	2-170	NES/JD	SANBAG and Caltrans	AFTER APPROVAL OF ED, PRIOR TO CONSTRUCTION							

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
ANIMAL SPECIES										
ANI-1: Take Avoidance Burrowing Owl Survey. To determine if Burrowing Owl are occupying the project limits or adjacent areas prior to construction, a take avoidance survey following CDFW protocol (2012) will be conducted no less than 14 days prior to initiating ground disturbance activities. In addition, any time lapses between project activities would trigger subsequent take avoidance surveys including but not limited to a final survey conducted within 24 hours prior to ground disturbance. The survey will be conducted from civil twilight to 10:00 am or two hours before sunset until evening civil twilight within areas providing suitable habitat for Burrowing Owl. The survey will include the proposed project limits and a 300-ft buffer if performed between February 15 and August 31 (nesting season) and a 100-ft buffer if the survey is conducted outside of the nesting season. If Burrowing Owls are present, ANI-2 or ANI-3 shall be implemented.	2-184	NES/JD	SANBAG and Caltrans	PRIOR TO GROUND DISTURBANCE (Within 14 days prior to any ground disturbance in potentially suitable habitat)	Standard Special Provision 14-6.03A					
ANI-2: Avoidance of Burrowing Owl During the Nesting Season. If Burrowing Owl are found during pre-construction take avoidance surveys (ANI-1) during the nesting season, the Burrowing Owl will be fully avoided by establishing an appropriate buffer in coordination with CDFW (minimum of 300 feet), where feasible.	2-184	NES/JD	SANBAG and Caltrans	PRIOR TO GROUND DISTURBANCE (Survey performed within 14 days prior to any ground disturbance in potentially suitable habitat and this measure would be implemented if any Burrowing Owls are found.)	Standard Special Provision 14-6.03A					
ANI-3: Passive Relocation of Burrowing Owl. If Burrowing Owl are found during pre-construction take avoidance surveys outside of the nesting season, passive relocation by a qualified ornithologist will be conducted once it has been confirmed that pairing activities have not begun. Passive relocation efforts will be conducted in coordination with CDFW. If the Burrowing Owl is found to be paired and exhibiting potential nesting behavior, construction disturbance will not occur within 300 feet of the active burrow(s) until it is confirmed by the ornithologist that the pair is not nesting and that young are not present, or if present are independently foraging.	2-184	NES/JD	SANBAG and Caltrans	PRIOR TO GROUND DISTURBANCE (Survey performed within 14 days prior to any ground disturbance in potentially suitable habitat and this measure would be implemented if any Burrowing Owls are found.)	Standard Special Provision 14-6.03A					

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
<p>ANI-4: Preconstruction Bat Survey. To prevent impacts on daytime bat roosts and maternity roosts, a qualified biologist will be retained to conduct bat and bat roosting site surveys prior to commencement of mature tree removal activities. This pre-construction survey will be conducted at any mature tree proposed for removal and within 100 feet of the project limits. If roosting sites or bats are not found, a report confirming their absence will be sent to the CDFW and no further mitigation will be required.</p> <p>If the pre-construction survey finds bats to be roosting, and tree removal is scheduled to occur between October 1 and March 30 (outside of the maternity season of April 1 through September 30), eviction of bats will be conducted using bat exclusion techniques, developed by Bat Conservation International (BCI) and in consultation with CDFW. These techniques allow the bats to exit the roosting site but prevent re-occupation of the site.</p> <p>Where applicable for tree roosts, the following two-step cutting process would occur: Surrounding branches that do not house bats at the time that the eviction would occur, would be removed as step one. This would alter the condition of the roost tree, causing bats to abandon the roost. The tree can then be fully removed as step two. A visual inspection of the roost tree would be required prior to removal to verify that all bats have been successfully excluded. This work will be completed by a bat exclusion professional.</p> <p>If the pre-construction survey finds bats to be roosting and tree removal is scheduled to occur during the maternity season (April 1 through September 30), a qualified biologist will monitor the roost to determine if the roost site is a maternal roost. This may be determined by either visual inspection of the roost for bat pups, if possible, or monitoring the roost after the adults leave for the night to listen for bat pups. If the roost is determined to not be a maternal roost, then the bats will be evicted as described above.</p> <p>If the roost is determined to be a maternal roost, eviction of a maternal roost cannot occur during the nursery season, as bat pups cannot leave the roost until they have reached maturity. In this case, a 250-foot-wide buffer zone (or an alternative width, as determined in consultation with CDFW) will be established around the roosting site, within which no construction-related impacts will occur until the qualified biologist has determined the bat pups are mature enough to permanently leave the roost.</p>	2-185	NES/JD	SANBAG and Caltrans	PRIOR TO CONSTRUCTION (Surveys to be conducted prior to removal of any mature trees [remainder of measure would be implemented if any bats are found])							

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)		Remarks	Environmental Compliance	
										YES	NO
<p>ANI-5: Preconstruction Raptor Surveys. Within 30 days prior to the commencement of construction (if between January 15 and September 1), a qualified biologist will perform a raptor nesting survey that will consist of a single visit to ascertain whether there are active raptor nests within 300 feet of the project footprint. This survey will also identify the species of nesting raptor and to the degree feasible, nesting stage (e.g., incubation of eggs, feeding of young, near fledging). Nests will be mapped (not by using GPS because close encroachment may cause nest abandonment). If active nests are found, construction will not occur within 300 feet of the nest until the nesting attempt has been completed and/or abandoned due to non-project-related reasons.</p>	2-186	NES/JD	SANBAG and Caltrans	PRIOR TO CONSTRUCTION (Within 30 days prior to construction if construction would occur between January 15 and September 1 [remainder of measure would apply only if burrowing owls are found])	Standard Special Provision 14-6.03A						
THREATENED AND ENDANGERED SPECIES											
<p>END-1: Maintenance of SBKR Exclusionary Fencing. To protect San Bernardino Kangaroo Rat (SBKR) from construction areas, SBKR exclusionary fencing (EF) has been used. SBKR Critical Habitat (i.e. RAFSS) adjacent to construction areas demarcated using EF, and exclusionary fencing has been installed by construction personnel under the supervision of a biological monitor. EF consists of a fine, wire mesh, opaque fencing material. The location of EF has been placed along State right of way at the southwest corner of the project area. EF follows the right of way fence from coordinates (34.13486 / -117.35759) for approximately 500 feet toward the east. The EF was buried below ground 12-18 inches, and extends for 36 inches above ground. This will help to exclude SBKR entering construction areas during construction activities, from known occupied SBKR habitat south of the State right of way. The EF will be reviewed by the biological monitor and maintained daily (as indicated in BIO-5), until the completion of all construction activities, or at a regular interval as to be determined in coordination with USFWS and CDFW.</p>	2-195	NES/JD	RE and Contractor	CONSTRUCTION							
<p>END-2: Impacts on 8.70 acres of designated SBKR critical habitat are proposed to be mitigated in the Vulcan Bank or other approved SBKR bank at a 2:1 ratio. Impacts to 29.2 acres to SBKR critical habitat have been previously mitigated through the purchase of 130 credits from the Vulcan Materials Company Cajon Creek Habitat Conservation Management Area.</p>	2-195	USFWS Section 7 Consultation Letter	SANBAG and Caltrans	AFTER APPROVAL OF ED, PRIOR TO CONSTRUCTION							
INVASIVE SPECIES											
<p>INV-1: In areas of particular sensitivity, extra precautions will be taken if invasive species are found in or next to the construction areas. These include the inspection and cleaning of construction equipment and eradication strategies to be implemented should an invasion occur.</p>	2-197	ED	RE, Contractor								

Date of ECR: May 2014
 Type/Date of Environmental Compliance:
 CEQA – IS
 X / X / XXXX

NEPA – EA
 X / X / XXXX

Project Phase:
 PA/ED (DED/FED)
 PS&E Submittal _____ %
 ReValidation (# ___) During: ___ Phase
 Ready To List
 Construction

ENVIRONMENTAL COMMITMENTS RECORD

State Route 210 / Pepper Avenue New Interchange

08—SBd—210
 19.3/20.1

EA 08-443940
 PN 0800020180

Avoidance, Minimization, and/or Mitigation Measures	Page # in Env. Doc.	Environmental Analysis Source (Technical Study, Environmental Document, and/or Technical Discipline)	Responsible for Development and/or Implementation of Measure	Timing/ Phase	If applicable, corresponding construction provision: (standard, special, non-standard)	Action(s) Taken to Implement Measure	Measure Completed (Date and Initials)	Remarks	Environmental Compliance	
									YES	NO
CLIMATE CHANGE										
CC-1: Comply with SCAQMD Rules and Regulations. According to Caltrans' Standard Specifications, the contractor must comply with all of SCAQMD's rules, ordinances, and regulations regarding air quality restrictions. See also minimization measure AQ-3 .	2-218	ED	RE, Contractor	DURING GRADING/ CONSTRUCTION						
CC-2: Use Energy-efficient Lighting. The Project would incorporate the use of energy-efficient lighting, such as light-emitting diode traffic signals, to the extent feasible. The Light Emitting Diodes consume 10 percent of the electricity of traditional lights, which would also help reduce the project's carbon dioxide emissions.	2-218	ED	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION						
CC-3: Provide Landscaping (in lieu of shade trees). Landscaping reduces surface warming and through photosynthesis, decreases CO ₂ . Landscaping would be provided where necessary within the corridor to provide aesthetic treatment, replacement planting, or mitigation planting for the Project. The landscape planting would help offset some project CO ₂ emissions. Landscaping measures are currently proposed for the proposed project; refer to minimization measure VR-2 and minimization measure BIO-10 . Use the minimum feasible amount of GHG-emitting construction materials that is feasible.	2-218	ED	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION						
CC-4: Use lighter-colored pavement where feasible.	2-218	ED	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION						
CC-5: Recycle construction debris to maximum extent feasible.	2-218	ED	SANBAG, Caltrans, RE, Contractor	FINAL DESIGN, CONSTRUCTION						

This page intentionally left blank.