

## **Appendix D**

### **Avoidance, Minimization, and/or Mitigation Measure Summary**



## ENVIRONMENTAL COMMITMENTS RECORD (ECR)

Date: September 2018  
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 Document Type: IS/EA

I-605/Katella Avenue Interchange Improvements  
 EA 0K8700  
 DISTRICT 12-ORA-605 (PM 1.1/1.6)

In order to be sure that all of the environmental measures identified in this document are executed at the appropriate times, the following mitigation program (as articulated on the proposed Environmental Commitments Record [ECR] which follows) would be implemented. During project design, avoidance, minimization, and /or mitigation measures will be incorporated into the project's final plans, specifications, and cost estimates, as appropriate. All permits will be obtained prior to implementation of the project. During construction, environmental and construction/engineering staff will ensure that the commitments contained in this ECR are fulfilled. Following construction and appropriate phases of project delivery, long-term mitigation maintenance and monitoring will take place, as applicable. As the following ECR is a draft, some fields have not been completed, and will be filled out as each of the measures is implemented. Note: Some measures may apply to more than one resource area. Duplicative or redundant measures have not been included in this ECR.

NO.*	COMMITMENT	NSSP	RESPONSIBLE PARTY/MONITOR	TIMING/PHASE	TASK COMPLETED (Sign and Date)	ACTION TAKEN TO COMPLY WITH TASK	REMARKS
<b>LAND USE</b>							
REC-1	The existing Coyote Creek Trail access points along the north and south sides of Katella Avenue affected by the proposed project shall be restored to pre-project conditions upon completion of construction.	NO	OCTA Project Engineer Caltrans Project Engineer Construction Contractor	Construction	_____ _____ _____		
<b>TRAFFIC</b>							
PF-TR-1	<i>Transportation Management Plan.</i> The project will include preparation of a Transportation Management Plan (TMP) during the Plans, Specifications, and Estimates (PS&E) phase to minimize construction related impacts. The TMP will include potential measures such as construction signage, measures for pedestrian protection, limitations on timing for lane closures to avoid peak hours, temporary striping plans, construction vehicle routing plans, and the need for a construction	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design	_____ _____ _____		

\* These measures are mitigation measures used to lessen a significant impact under CEQA. All others are either project features, or avoidance/minimization measures.

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	flagperson to direct traffic during heavy equipment use, among others.						
<b>VISUAL/AESTHETICS</b>							
PF-VIS-1	<u>Light Shielding.</u> Temporary construction safety lighting will be installed and used during nighttime construction. Light shielding will be utilized so that lighting does not blind approaching drivers. The lighting will be contained and directed away from land uses outside the project area, and directed toward the specific area of construction.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design	_____		
PF-VIS-2	<u>Tree Removal and Replacement.</u> Removed trees will be replaced at a 10:1 ratio. Trees replaced with Eucalyptus trees will be a minimum of 15 gallons in size; pine trees and the other species will be a 24-inch or larger box container. Additional replacement plantings may include native/non-invasive groundcover. Final landscape plans will be developed during the Plans, Specifications, and Estimates (PS&E) phase.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design	_____		
<b>CULTURAL</b>							
PF-CUL-1	<u>Unknown Buried Cultural Resources.</u> If unknown buried cultural resources are discovered during construction, all earth-moving activity within and around the immediate discovery area shall be diverted until a qualified archaeologist can assess the nature and significance of the find.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design/ Construction	_____		
PF-CUL-2	<u>Human Remains.</u> If human remains are discovered during construction, California Health and Safety Code (H&SC) Section 7050.5 states that further disturbances and activities shall stop in any area or nearby area suspected to overlie remains, and the County Coroner be contacted. If the remains are thought by the coroner to be Native American, the coroner shall notify the NAHC, who, pursuant to PRC Section 5097.98, would then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains shall contact Jonathan Wright, Associate Environmental	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design/ Construction	_____		

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	Planner, Archaeology, so that he may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC 5097.98 shall be followed as applicable.						
<b>HYDROLOGY AND FLOODPLAIN</b>							
PF-HYD-1	<u>Temporary Hydrology.</u> The project shall adhere the Caltrans Construction Manual (July 2017), Chapter 4, Section 61, Drainage Facilities – General, Section 70, Miscellaneous Drainage Facilities, and Section 71, Existing Drainage Facilities, to minimize potential impacts to beneficial uses during construction. Staging would consist of implementing a plan to provide safe and efficient construction operations, as well as implementation of a biological monitoring plan which would identify all mitigation, monitoring, and compliance measures related to biological resources that may be impacted during project construction.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design/ Construction	<hr/> <hr/>		
PF-HYD-2	<u>Hydrology and Hydraulics Analysis.</u> The hydrology and hydraulics analysis to be prepared for the project during the Plans, Specifications, and Estimates (PS&E) phase will specifically examine potential impacts to Los Alamitos Channel and Katella Storm Drain Channel. This analysis will determine necessary improvements to allow for extension of the reinforced concrete box culverts while meeting Orange County Flood Control District (OCFCD) minimum criteria for freeboard.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design/ Construction	<hr/> <hr/>		
<b>WATER QUALITY AND STORM WATER RUNOFF</b>							
PF-WQ-1	<u>NPDES Construction Requirements.</u> The project would be required to comply with the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities, Order No. 2009-0009-DWQ, as amended by 2010-0014-DWQ and 2012-0006-DWQ, NPDES No. CAS000002, as well as implementation of the standard Best Management Practices	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design/ Construction	<hr/> <hr/>		

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	<p>(BMPs) specified in Caltrans' Storm Water Management Plan (Caltrans, 2003).</p> <p>If dewatering is required, construction site dewatering shall comply with General Waste Discharge Requirements (WDRs) for Discharges to Surface Waters within the Santa Ana Region (Order No. R8-2015-0004, NPDES No. CAG998001) and/or the Los Angeles Region (Order No. R4-2013-0095, NPDES No. CAG 994004) and any subsequent updates to the permits at the time of construction. These Permits address temporary dewatering operations during construction. Dewatering BMPs shall be used to control sediment and pollutants, and the discharges shall comply with the WDRs issued by the Santa Ana Regional Water Quality Control Board (RWQCB) and/or the Los Angeles RWQCB.</p>						
PF-WQ-2	<p><u>SWPPP</u>. The project shall include development of a Storm Water Pollution Prevention Plan (SWPPP) prepared in accordance with the requirements stated in the National Pollutant Discharge Elimination System (NPDES) General Permit, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activities (Construction General Permit, Order Number 2009-0009-DWQ, as amended by 2010-0014-DWQ and 2012-0006-DWQ, NPDES Number CAS000002), or subsequent permit in effect at the time of construction. The SWPPP shall contain standard Best Management Practices (BMPs) that have demonstrated effectiveness at reducing stormwater pollution, and shall address all construction-related activities, equipment, and materials that have the potential to affect water quality. All standard Construction Site BMPs shall follow the latest edition of the Storm Water Quality Handbooks,</p>	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design/ Construction	<hr/> <hr/>		

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	Construction Site BMPs Manual (Caltrans, May 2017) to control and minimize the impacts of construction-related pollutants. The SWPPP shall include BMPs to control pollutants, sediment from erosion, stormwater runoff, and other construction-related impacts. In addition, the SWPPP shall include implementation of specific stormwater effluent monitoring requirements based on the project's risk level to ensure that the implemented BMPs are effective in preventing discharges from exceeding any of the water quality standards.						
PF-WQ-3	<u>Design Pollution Prevention BMPs.</u> The project will conform to the requirements of the Caltrans statewide National Pollutant Discharge Elimination System (NPDES) Storm Water Permit, Order No. 2012-0011-DWQ, NPDES No. CAS000003, adopted by the SWRCB on September 19, 2012, and any subsequent permit in effect at the time of construction. The project shall implement Design Pollution Prevention BMPs, as required under the Caltrans MS4 Permit, that focus on reducing or eliminating runoff and controlling sources of pollutants during operation of the project. The incorporation of Design Pollution Prevention BMPs as required under the Caltrans MS4 Permit shall meet the objective of maximizing vegetated surfaces, preventing downstream erosion, and stabilizing soil areas.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design	<hr/> <hr/>		
PF-WQ-4	<u>Treatment and Maintenance BMPs.</u> The project shall include an evaluation of all nine Caltrans-approved treatment BMPs and select the most efficient option in relation to the direct and indirect receiving water bodies associated with the project, in order to remove pollutants that have entered stormwater runoff. Caltrans-approved Treatment BMPs shall be implemented consistent with the requirements of the Caltrans NPDES permit. To implement water	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design	<hr/> <hr/>		

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	quality controls that would minimize pollutant discharges during the operational phase, the project shall implement Maintenance BMPs that shall be ongoing throughout the lifespan of the facility.						
<b>GEOLOGY/SOILS/SEISMIC/TOPOGRAPHY</b>							
GEO-1	The project shall adhere to the earthwork recommendations provided in the District Preliminary Geotechnical Report. The recommendations pertain to earthwork (fill, compressible soils, overexcavation/recompaction), soil expansion, erosion, liquefaction and seismically-induced settlement, embankment settlement and stability, cut slopes, and requirements for geotechnical field investigations for the proposed project during the Plans, Specifications, and Estimates (PS&E) phase.	NO	OCTA Project Engineer Caltrans Project Engineer Construction Contractor	Final Design Construction	<hr/> <hr/>		
PF-GEO-1	<u>Seismic Design Criteria.</u> The project shall comply with the most current Caltrans' procedures and design criteria regarding seismic design to mitigate any adverse effects related to seismic ground shaking. Earthwork shall be performed in accordance with Caltrans Standard Specifications, Section 19, which require standardized measures related to compacted fill, overexcavation and recompaction, and retaining walls, among other requirements. Moreover, Caltrans Highway Design Manual (HDM) Topic 113, Geotechnical Design Report, would require that a site-specific, geotechnical field investigation is performed for the proposed project during the Plans, Specifications, and Estimates (PS&E) phase.	NO	OCTA Project Engineer Caltrans Project Engineer Construction Contractor	Final Design Construction	<hr/> <hr/>		
<b>PALEONTOLOGY</b>							
PAL-1*	Prior to construction activities, Caltrans shall ensure that a project-specific Paleontological Mitigation Plan (PMP) is prepared by a qualified principal paleontologist (MS or PhD in paleontology) once adequate project design information regarding subsurface disturbance location, depth, and lateral	NO	OCTA Project Engineer OCTA Resident Engineer Caltrans Resident Engineer Project	Final Design Construction	<hr/> <hr/>		

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	<p>extent is available, and implemented during construction of the project in those parts of the project area that have been identified as having a high potential to impact significant nonrenewable paleontological resources. The PMP shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> <li>• Mandatory paleontological training during the Worker Environmental Awareness Program;</li> <li>• Full-time paleontological monitoring by a qualified principal paleontologist in cuts measuring more than eight feet below ground surface;</li> <li>• Proposed field and laboratory methods that are consistent with repository requirements;</li> <li>• Reporting requirements that conform to the Caltrans' PMP format; and</li> <li>• Submission of the final Paleontological Mitigation Report to Caltrans upon completion of project earth-moving activities.</li> </ul>		Paleontologist Construction Contractor				
<b>HAZARDOUS WASTE/MATERIALS</b>							
HAZ-1	A special provision prepared and submitted as part of the project will ensure proper removal, handling, and disposal of the generated traffic striping waste at a permitted disposal facility.	NO	OCTA Project Engineer OCTA Resident Engineer Caltrans Resident Engineer Construction Contractor	Construction	<hr/> <hr/>		
HAZ-2	Prior to the start of construction, the contractor will contact Dig Alert to confirm the location of the existing petroleum pipeline and coordination with the owner of the existing petroleum pipeline to ensure that a	NO	OCTA Project Engineer OCTA Resident Engineer Caltrans Resident Engineer	Construction	<hr/> <hr/>		

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	rupture during disturbance activities does not occur.		Construction Contractor				
HAZ-3	Any transformer to be relocated/removed during site construction/demolition will be conducted under the purview of the local purveyor to identify proper handling procedures regarding polychlorinated biphenyls (PCBs).	NO	OCTA Project Engineer OCTA Resident Engineer Caltrans Resident Engineer Construction Contractor	Construction	_____		
HAZ-4	A special provision prepared and submitted as part of the project will ensure proper removal, handling, and disposal of the ADL containing material at a permitted disposal facility.	NO	OCTA Project Engineer Caltrans Project Engineer Phase II/Site Characterization Specialist	Final Design	_____		
HAZ-5	If unknown wastes or suspect materials are discovered during site disturbance activities that may involve hazardous waste/materials, the contractor will immediately stop work in the vicinity of the suspected contaminant, secure the area with barriers or fences, and evacuate the vicinity; prohibit construction personnel from any exploratory or investigative work; notify the Project Engineer of the implementing agency; and notify the implementing agency's Hazardous Waste/Materials Coordinator. In accordance with Title 29, Part 1910.120, Hazardous Waste Operations and Emergency Response, of the Code of Federal Regulations, the project would require that no one enter the designated exclusion zones until a complete and effective "hazardous waste worker protection program" is established or until the consultant has determined no exposure danger exists.	NO	OCTA Project Engineer Caltrans Project Engineer Hazardous Waste/Material Coordinator	Final Design	_____		
<b>NOISE</b>							
PF-NOI-1	<u>Noise Control.</u> The project shall comply with the Caltrans Standard Specifications Section 14-8.02, "Noise Control," Caltrans Construction Manual Section 7-104C, "Noise	NO	OCTA Project Engineer Caltrans Project Engineer	Construction	_____		

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	Control," and applicable local noise standards, which provide guidance on maximum noise levels resulting from work activities and allowable construction hours.		Construction Contractor				
<b>AIR QUALITY</b>							
PF-AQ-1	<p><u>Construction Emissions Reduction.</u> The contractor will comply with all applicable laws and regulations related to air quality, including air quality management district regulations and local ordinances, as follows:</p> <ul style="list-style-type: none"> <li>• Water or dust palliative will be applied to the site and equipment as often as necessary to control fugitive dust emissions. Fugitive emissions generally must meet a "no visible dust" criterion either at the point of emissions or at the right-of-way line, depending on local regulations.</li> <li>• Soil binder will be spread on any unpaved roads used for construction purposes, and on all project construction parking areas.</li> <li>• Trucks will be washed as they leave the right-of-way as necessary to control fugitive dust emissions.</li> <li>• Construction equipment and vehicles will be properly tuned and maintained. All construction equipment will use low sulfur fuel as required by California Code of Regulations Title 17, Section 93114.</li> <li>• 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.</li> </ul>	NO	OCTA Project Engineer Caltrans Project Engineer Construction Contractor	Final Design Construction	<hr/> <hr/>		

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	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• All transported loads of soils and wet materials will be covered before transport, or adequate freeboard (space from the top of the material to the top of the truck) will be provided to minimize emission of dust (particulate matter) during transportation.</li> <li>• 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.</li> <li>• To the extent feasible, construction traffic will be scheduled and routed to reduce congestion and related air quality impacts caused by idling vehicles along local roads during peak travel times.</li> <li>• Mulch will be installed or vegetation planted as soon as practical after grading to reduce windblown particulate in the area.</li> </ul>						
<b>WETLANDS AND OTHER WATERS</b>							
WET-1*	Pursuant to the Orange County Transportation Authority (OCTA)/Caltrans Letter of Permission (LOP) procedures (File No. SPL-2012-00830-VCL), compensatory mitigation for permanent impacts to earthen	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design Construction	<hr/> <hr/>		

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	<p>features will be provided. These procedures establish permittee responsible mitigation sites and ratios for anticipated impacts. It is expected that this project will utilize the USACE and SWRCB approved OCTA Aliso Creek restoration project for compensatory mitigation. Mitigation would be implemented consistent with the Habitat Mitigation and Monitoring Plan (HMMP), which specifies the minimum criteria for the rehabilitation and enhancement of wetland and non-wetland waters within the Aliso Creek restoration site. OCTA would be responsible for the implementation and long-term management towards meeting the requirements of the HMMP. Removal of temporary fills and native revegetation of temporary impact areas is also required pursuant to these procedures.</p>						
<b>ANIMAL SPECIES</b>							
AS-1	<p>Pre-construction surveys will be conducted by a California Department of Fish and Wildlife (CDFW) approved biologist to ensure western pond turtle remain absent from the proposed limits of disturbance. If western pond turtles are found within the construction footprint, the occupied habitat and appropriate buffer, as determined by the biologist, shall be avoided. If avoidance is not possible and the species is determined to be present in work areas, the biologist may capture turtles prior to construction activities and relocate them to nearby, suitable habitat a minimum of 300 feet downstream from the work area. Alternatively, if recommended and approved by the wildlife agencies, the turtles may be captured and either temporarily held or relocated to an appropriate, nearby location.</p>	NO	<p>OCTA Project Engineer Caltrans Environmental Project Biologist</p>	<p>Prior to Construction</p>	<p>_____</p> <p>_____</p>		
PF-AS-1	<p><u>Nesting Birds</u>. Pursuant to the Migratory Bird Treaty Act (MBTA) and Fish and Game Code (Sections 3503, 3503.3, 3511, and 3513), removal of any trees, shrubs, or any other potential nesting habitat should be conducted</p>	NO	<p>OCTA Project Engineer Caltrans Environmental Project Biologist</p>	<p>Final Design Prior to Construction</p>	<p>_____</p> <p>_____</p>		

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	<p>outside the avian nesting season in order to protect avian nesting activities. The nesting season generally extends from February 1st through September 30th (as early as January 1st for some birds), but can vary slightly from year to year based upon seasonal weather conditions. If project activities cannot occur outside of the nesting season, a pre-construction clearance survey for nesting birds will be conducted within three days of the start of any ground disturbing or vegetation removal activities to ensure that no nesting birds would be disturbed during construction. The biologist conducting the clearance survey will document a negative survey with a brief letter report indicating that no impacts to active avian nests would occur. If an active avian nest is discovered during the pre-construction clearance survey, construction activities will stay outside of a 300-foot buffer around the active nest. For raptor species, this buffer is expanded to 500 feet. A biological monitor shall be present to delineate the boundaries of the buffer area and to monitor the active nest to ensure that nesting behavior is not adversely affected by the construction activity. Once the young have fledged and left the nest, or the nest otherwise becomes inactive under natural conditions, project activities may occur.</p>						
<b>INVASIVE SPECIES</b>							
PF-IS-1	<p><u>Inspection and Clearing of Invasive Species.</u> In compliance with the Executive Order on Invasive Species, EO 13112, and guidance from the Federal Highway Administration (FHWA), the landscaping and erosion control included in the project will not use species listed as invasive. None of the species on the California list of invasive species is used by Caltrans for erosion control or landscaping. All equipment and materials will be inspected for the presence of invasive species and cleaned if necessary. In areas of particular</p>	NO	<p>OCTA Project Engineer Caltrans Environmental Project Biologist</p>	<p>Prior to Construction</p>	<hr/> <hr/>		

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	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.						
<b>CLIMATE CHANGE</b>							
CC-1	The project will implement landscaping as determined during final design in coordination with the City of Los Alamitos, the County of Orange, and the Caltrans District Landscape Architect. This landscaping will help offset any potential CO <sub>2</sub> emissions increase.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design	<hr/> <hr/>		
CC-2	The project will incorporate the use of energy efficient lighting, such as LED traffic signals, to help reduce the project's CO <sub>2</sub> emissions.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design	<hr/> <hr/>		
CC-3	According to the Caltrans Standard Specifications, idling time for lane closure during construction will be limited to 10 minutes in each direction. In addition, the contractor will comply with all South Coast Air Quality Management District (SCAQMD) rules, ordinances, and regulations regarding air quality restrictions.	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design Construction	<hr/> <hr/>		
CC-4	As part of the Southern California Association of Governments (SCAG), 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), project level mitigation measures were provided to reduce impacts including those pertaining to climate change. The following project level mitigation measures would apply: <ul style="list-style-type: none"> <li>The project will utilize energy and fuel efficient vehicles and equipment that meets and exceeds U.S. EPA/NHTSA/CARB standards relating to fuel efficiency and emission reduction.</li> </ul>	NO	OCTA Project Engineer Caltrans Project Engineer	Final Design Construction	<hr/> <hr/>		

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	<ul style="list-style-type: none"> <li>The project will use the minimum feasible amount of GHG-emitting construction materials.</li> <li>The project will use cement blended with the maximum feasible amount of fly ash or other materials that reduce GHG emissions from cement production.</li> <li>The project will Incorporate design measures to reduce GHG emissions from solid waste management through solid waste reduction, recycling and reuse.</li> <li>The project will recycle construction debris.</li> </ul>						

**PERMITS**

National Pollutant Discharge Elimination System (NPDES) Construction General Permit (Order No. 2009-009-DWQ, as amended by 2010-0014-DWG and 2012-0006-DWQ, NPDES Number CAS000002)
Caltrans Statewide NPDES Permit (Order No. 2012-0011-DWQ, NPDES No. CAS000003) (Caltrans MS4 permit)
U.S. Army Corps of Engineers (USACE) Letter of Permission (LOP) Compliance
Santa Ana Regional Water Quality Control Board (RWQCB) Clean Water Act Section 401 Water Quality Certification
California Department of Fish and Wildlife (CDFW) California Fish and Game Code Section 1602 Streambed Alteration Agreement
Federal Highway Administration (FHA) Air Quality Conformity Determination
California Transportation Commission (CTC) Approval
City of Los Alamitos Encroachment Permit
Los Angeles County Flood Control District Temporary Construction Easement
Orange County Public Works Encroachment Permit and potential Temporary Construction Easement
Orange County Public Works and Los Angeles County Flood Control District (LACFCD) Section 4(f), De Minimis Determination
City of Los Alamitos General Plan Amendment