

## Appendix J Environmental Commitment Record



# Appendix J Environmental Commitment Record

## Environmental Commitments

Avoidance, Minimization, and/or Mitigation Measures	Implementation Means	Responsible Party	Timing
<b>HUMAN ENVIRONMENT</b>			
<b>Land Use</b>			
Realign Linear Park Trail to the north at the Abernathy Road/I-80 interchange prior to construction. This realignment will allow for the continued use of the trail facilities while construction activities are underway		Project proponent	Prior to construction
<b>Growth</b>			
None			
<b>Farmlands</b>			
Provide Replacement Conservation Easement	Compensatory Mitigation	Project proponent	Prior to construction
<b>Community Impacts</b>			
None			
<b>Utilities and Emergency Services</b>			
Minimize Disruption of Utilities Services	Agreement	Construction contractor	During construction
Prepare Transportation Management Plan (TMP)	Agreement	Project proponent	Prior to construction
<b>Traffic and Transportation/Pedestrian and Bicycle Facilities</b>			
Design and Construct Intersection Improvements		Project proponent	Design
Design each Phase of the Project to Accomodate Existing and Planned Bicycle and Pedestrian Facilities		Project proponent	Design
Adjust Transit Routes and Stops as Needed		Project proponent	Design
Minimize Impacts through a Transportation Management Plan (TMP) and Construction Scheduling <ul style="list-style-type: none"> <li>Provide TMP to emergency service providers</li> <li>Provide TMP to School District for review/input</li> <li>Route Trucks away from High School when in session.</li> </ul>		Project proponent or construction contractor	Prior to and during construction
<b>Visual and Aesthetic Resources</b>			
Replace Landscaping as Appropriate	Follow up project	Project proponent	After project completion
Direct Lighting Only Where Needed, and Away from Residences		Project proponent	Design
Design Westbound Truck Scales to be Visually Compatible with Local Architectural Features of the Surrounding Community	Standard Specification	Project proponent or construction contractor	Design/ construction
Incorporate Aesthetic Recommendations in Design of Freeway-Related Structures	Standard Specifications	Project proponent	Design
<b>Cultural Resources</b>			
Implement Programmatic Agreement and Historic Properties Treatment Plan	Agreement	Project proponent	Prior to construction

Avoidance, Minimization, and/or Mitigation Measures	Implementation Means	Responsible Party	Timing
<b>PHYSICAL ENVIRONMENT</b>			
<b>Hydrology and Floodplain</b>			
Construct Upstream Inlet Structure and Underground Flood Control Storage		Project proponent	Design
Work with Appropriate Agencies to Address Flooding Issues Related to Raines Drain.		Project proponent	Design
<b>Water Quality and Stormwater Runoff</b>			
Permanent Design Pollution Prevention BMPs <ul style="list-style-type: none"> <li>• Slope/Surface Protection Systems</li> <li>• Concentrated Flow Conveyance Systems</li> <li>• Preserve existing vegetation</li> <li>• Permanent treatment BMPs                             <ul style="list-style-type: none"> <li>○ Biofiltration Swales/Strips</li> <li>○ Dry weather diversions</li> <li>○ Infiltration devices</li> <li>○ Detention devices</li> <li>○ Gross solids removal devices</li> <li>○ Traction sand traps</li> <li>○ Media filters</li> <li>○ Wet basins</li> <li>○ Drain inlet stenciling</li> </ul> </li> <li>• Hydromodification control</li> </ul>	Standard Specifications	Project proponent	Design
Construction site BMPs <ul style="list-style-type: none"> <li>○ Hydraulic mulch</li> <li>○ Hydroseeding</li> <li>○ Soil Binders</li> <li>○ Silt fence</li> <li>○ Sediment traps</li> <li>○ Sand bags</li> <li>○ Fiber rolls</li> <li>○ Straw bale barrier</li> </ul>	Permit	Construction contractor	Prior to Construction
For substantial dewatering - obtain a project-specific Low Threat Discharge and Dewatering NPDES permit from the RWQCB	Permit	Project proponent	Design
<b>Geology/Soils/Seismic/Topography</b>			
Structures will be Designed to Meet the Regulations and Standards Associated with UBC Seismic Hazard Zone 4/ CBSC Standards, Department Standards, and (if applicable) County General Plan Standards to Minimize Potential Ground Shaking Risks on Associated Project Features	Standard Specifications	Project proponent	Design
Implement Recommendations from Draft Geotechnical Reports to Accommodate Permanent Fault-Related Ground Deformation Effects from Surface Fault Rupture on Project Facilities and to Accommodate Effects of Ground Shaking on Project Facilities	Agreement	Project proponent	Design
Design Structures and Facilities to Account for Unstable Materials	Standard Specifications	Project proponent	Design
Incorporate Specific Recommendations Pertaining to Cut Slopes and Fill Slopes/Embankments into the Project Design.		Project proponent	Design

<b>Avoidance, Minimization, and/or Mitigation Measures</b>	<b>Implementation Means</b>	<b>Responsible Party</b>	<b>Timing</b>
Implement Recommendations from Draft Geotechnical Report to Accommodate Effects of Liquefaction on Project Facilities/Design Specific Project Elements to Accommodate Effects of Liquefaction		Project proponent	Design
Conduct Future Geotechnical Investigation/Implement Preliminary Recommendations from Draft Geotechnical Report to Accommodate Effects of Slope Failure on Project Facilities		Project proponent	Design
Implement Preliminary Recommendations from Draft Geotechnical Report to Accommodate Effects of Consolidation Settlements on Project Facilities		Project proponent	Design
<b>Paleontology</b>			
Conduct Preconstruction Surveys	Standard Specification	Project proponent	Prior to construction
Train Construction Personnel in Recognizing Fossil Material		Project proponent or construction contractor	Immediately prior to and during construction
Retain a Qualified Professional Paleontologist to Monitor Ground-Disturbing Activities		Project proponent or construction contractor	During construction
Stop Work and Consult a Qualified Paleontologist if Fossil Remains Are Encountered During Construction	Standard Specifications	Construction contractor	During construction
<b>Hazardous Waste/Materials</b>			
Test Groundwater for Contaminants		Project proponent	Prior to construction
Implement a Health and Safety Plan	Standard Specification	Project proponent or construction contractor	Prior to construction
Handle, Remove, Store and Dispose of Yellow Striping According to Health and Safety Plan			
Dispose of Soils Contaminated with ADL, Arsenic, Pesticides, and Herbicides in Accordance with Appropriate Regulations	Standard Specification	Construction contractor	During and after construction
Coordinate Timing of Construction Activities with Local Growers to Avoid Exposure of Construction Workers to Respiratory Irritants from Aerially Applied Chemicals		Construction contractor	During construction
<b>Air Quality</b>			
Implement Measures to Reduce MSAT and Criteria Pollutant Emissions		Project proponent	
Implement California Department of Transportation Standard Specification Section 14	Standard Specifications	Construction contractor	Prior to and during construction
Implement Additional Control Measures when Practicable for Construction Emissions of Fugitive Dust	Agreement	Project proponent and construction contractor	During construction
Implement Measures to Reduce Exhaust Emissions from Off-Road Diesel-Powered Equipment	Agreement	Construction contractor	During construction
<b>Noise</b>			
Minimize Construction Noise	Standard Specification	Construction contractor	During construction

Avoidance, Minimization, and/or Mitigation Measures	Implementation Means	Responsible Party	Timing
<b>Energy</b>			
None			
<b>BIOLOGICAL ENVIRONMENT</b>			
<b>Natural Communities</b>			
Install Fencing around the Construction Area to Protect Sensitive Biological Resources to be Avoided	Permit	Construction contractor/ biologist	Prior to and during construction
Conduct Environmental Awareness Training for Construction Employees	Permit	Project proponent or construction contractor	Prior to and during construction
Retain a Biological Monitor to Conduct Visits during Construction in Sensitive Habitats	Permit	Project proponent or construction contractor	During construction
Avoid and Minimize Potential Disturbance of Riparian Communities	Permit	Construction contractor	During construction
Compensate for Temporary and Permanent Loss of Riparian Vegetation	Compensatory Mitigation	Project proponent	After project completion
<b>Wetlands and Other Waters</b>			
Protect Water Quality and Prevent Erosion and Sedimentation into Drainages and Wetlands	Permit	Project proponent or construction contractor	During construction
Restore Temporarily Disturbed Drainage Habitat and Compensate for Permanent Loss of Drainage Habitat	Permit	Construction contractor	After project completion
Restore Temporarily Disturbed Perennial Marsh	Permit	Construction contractor	After project completion
Compensate for Permanent Loss of Wetlands	Compensatory Mitigation	Project proponent	After project completion
Construct a Retaining Wall on the South Side of SR 12E		Project proponent	Design
<b>Plant Species</b>			
Conduct Preconstruction Surveys for Special-Status Plants		Project proponent	Prior to construction
Compensate for Loss of Special-Status Plants		Project proponent	Prior to construction
<b>Animal Species</b>			
Conduct Clearance Surveys for Western Pond Turtle		Project proponent or construction contractor	Immediately prior to construction
Conduct Preconstruction Nesting Bird and Raptor Surveys and Establish a No-Disturbance Buffer, if Necessary		Project proponent or construction contractor	Immediately prior to construction
Conduct Preconstruction Surveys for Active Burrowing Owl Burrows and Implement the California Department of Fish and Game Guidelines for Burrowing Owl Mitigation, if Necessary	Permit	Project proponent or construction contractor	Immediately prior to construction
Compensate for Loss of Burrowing Owl Nesting Habitat	Compensatory mitigation	Project proponent	After project completion

<b>Avoidance, Minimization, and/or Mitigation Measures</b>	<b>Implementation Means</b>	<b>Responsible Party</b>	<b>Timing</b>
Conduct Preconstruction Nesting Surveys for Northern Harrier in the Annual Grassland Habitat North of SR 12W		Project proponent or construction contractor	After project completion
Prevent Swallows from Nesting Adjacent to New Bridge Construction		Project proponent or construction contractor	After project completion
Conduct Preconstruction Surveys for Roosting Bats in Mature Trees		Project proponent or construction contractor	After project completion
Prevent Contaminants and Hazardous Materials from Entering the Stream Channel	Permit	Construction contractor	During construction
Restrict In-Water Work to Avoid Special-Status Fish Spawning Seasons	Permit	Construction contractor	During construction
Minimize Impacts on Creek Channels	Standard specifications	Construction contractor	During construction
Provide Alternate Migration Corridor through Creek Channels	Permit	Construction contractor	During construction
Minimize Noise Impacts on Special-Status Fish Species	Permit	Construction contractor	During construction
Avoid Potential Fish Spawning Habitat	Permit	Construction contractor	During construction
Implement Culvert Retrofit at the SR 12 Crossing on Ledgewood Creek		Project proponent	Design
<b>Threatened and Endangered Species</b>			
Compensate for the Loss of Contra Costa Goldfields	Compensatory mitigation	Project proponent	After project completion
Conduct Protocol-level Surveys for Showy Indian Clover	Permit	Project proponent	Prior to construction
Avoid and Minimize Potential Direct and Indirect Disturbance of Populations of Showy Indian Clover	Permit	Construction contractor	During construction
Conduct Surveys for Larval Host Plants for Callippe Silverspot Butterflies	Permit	Project proponent	Prior to construction
Minimize Potential Direct and Indirect Disturbance of Populations of Callippe Silverspot Butterflies	Permit		During construction
Compensate for Direct and Indirect Effects on Callippe Silverspot Butterflies	Permit	Project Proponent	After project completion
Avoid and Minimize Potential Indirect Disturbance of Vernal Pool Fairy Shrimp and Vernal Pool Tadpole Shrimp Habitat	Permit	Construction contractor	During construction
Compensate for Loss of Direct and Indirect Impacts on Vernal Pool Fairy Shrimp or Vernal Pool Tadpole Shrimp Habitat	Compensatory mitigation	Project proponent	After project completion
Minimize Direct and Indirect Effects on Valley Elderberry Longhorn Beetle	Permit	Construction contractor	During construction
Compensate for Direct Effects on Valley Elderberry Longhorn Beetle Habitat	Compensatory mitigation	Project proponent	After project completion
Conduct Preconstruction Surveys and Monitor Construction Occurring Near Potential California Red-Legged Frog Habitat	Permit	Project proponent/ Construction contractor	Prior to and during construction

<b>Avoidance, Minimization, and/or Mitigation Measures</b>	<b>Implementation Means</b>	<b>Responsible Party</b>	<b>Timing</b>
Compensate for Loss and Disturbance of California Red-Legged Frog Habitat	Compensatory mitigation	Project proponent	After project completion
Conduct Protocol-level Surveys for California Tiger Salamander	Permit	Project proponent	Prior to construction
Avoid and Minimize Potential Disturbance of Populations of California Tiger Salamander	Permit	Project proponent/ Construction contractor	Prior to and during construction
Compensate for Loss of Swainson's Hawk Foraging Habitat	Compensatory mitigation	Project proponent	After project completion
<b>Invasive Species</b>			
Avoid the Introduction and Spread of Invasive Plants	Standard specification	Construction contractor	During construction
<b>Native Trees</b>			
None			
<b>Suisun Marsh Secondary Management Area</b>			
None			

### **CEQA Mitigation Measures**

To mitigate impact to important farmland (those lands classified as “prime farmlands”), long-term land use restrictions such as agricultural conservation easements shall be obtained over Prime Farmland within Solano County at a 1:1 ratio (1 acre protected for every 1 acre directly affected). Lands under an agricultural conservation easement are considered to have higher agricultural value than other agricultural land in the project area. As such, the mitigation for the loss of lands under easement will be implemented at a higher ratio of 1.25:1.

Refer to mitigation presented above for conversion of agricultural land to non-agricultural uses.

