Meeting Date: 04/07/23 Lease Number: 2563

Staff: J. Toy

Staff Report 50

LESSEE/APPLICANT:

County of Stanislaus and County of Merced

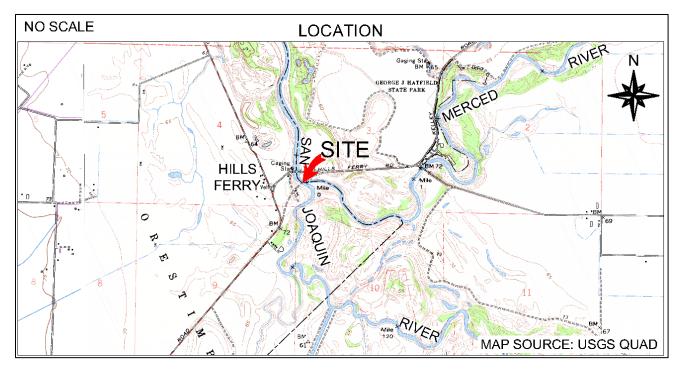
PROPOSED ACTION:

Termination and Issuance of a General Lease – Public Agency Use

AREA, LAND TYPE, AND LOCATION:

Sovereign land in the San Joaquin River, near Newman, adjacent to Assessor's Parcel Numbers 049-037-002 and -003 in Stanislaus County and Assessor's Parcel Numbers 045-280-011 and -012 in Merced County (as shown in Figure 1).

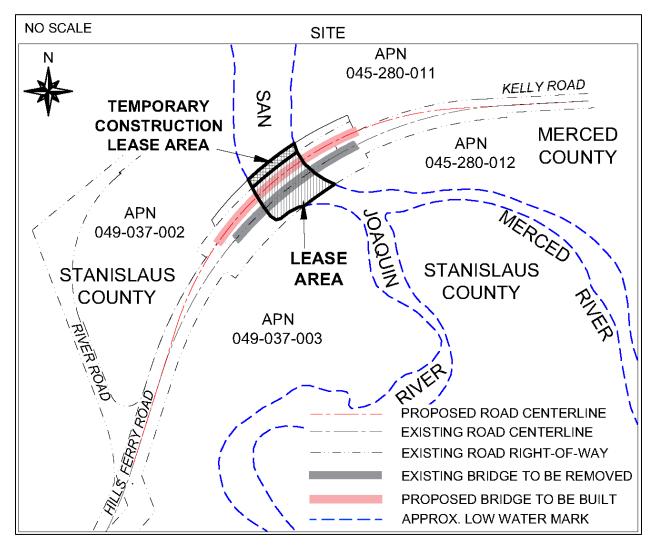
Figure 1. Location



AUTHORIZED USE:

Construction, use, and maintenance of a new bridge, known as the Hills Ferry Road Bridge; use of a temporary construction easement; temporary use and maintenance of the existing Hills Ferry Road Bridge (Bridge No. 39C-0001); and the demolition and removal of the existing bridge and concrete piers (as shown in Figure 2).

Figure 2. Site Map



NOTE: This depiction of the lease premises is based on unverified information provided by the Applicant or other parties and is not a waiver or limitation of any State interest in the subject or any other property.

TERM:

20 years, beginning April 28, 2023.

CONSIDERATION:

The public use and benefit, with the State reserving the right at any time to set a monetary rent if the Commission finds such action to be in the State's best interests.

SPECIFIC LEASE PROVISIONS:

- Lessee shall not install, attach, or authorize the placement or expansion of any
 utilities or other improvements on the bridge or within the Lease Premises without
 Lessor's prior review and approval. Separate leases or subleases are required
 and shall be obtained for all utilities not operated by Lessee.
- Lessee agrees and acknowledges that the hazards associated with climate change may require additional maintenance or protection strategies regarding the improvements on the lease premises.
- Within 60 days of completing the construction of authorized improvements, Lessee will provide Lessor with photographs and a set of "as-built" plans that will show where the improvements have been placed. Lessor shall then replace Exhibit A-1 (Land Description) and Exhibit B (Site and Location Map) to this Lease as necessary to accurately reflect the final location of the authorized improvements. Once approved by Lessor's Executive Officer or designee and Lessee, the revised Exhibits shall replace the Exhibits incorporated in the Lease at the time of Lease execution. The revised Exhibits shall be incorporated in this Lease as though fully set forth herein.
- Lessee shall place warning signage or buoys clearly visible from the shore and in
 the water both upstream and downstream of the construction site to provide
 notice of the bridge replacement and existing bridge demolition projects, and
 to advise the public to exercise caution. Lessee shall notify the California
 Department of Parks and Recreation's Division of Boating and Waterways of the
 location, description, and purposes of such signage or buoys upon installation
 and removal.

STAFF ANALYSIS AND RECOMMENDATION:

AUTHORITY:

Public Resources Code sections 6005, 6216, 6301, 6501.1, and 6503; California Code of Regulations, title 2, sections 2000 and 2003.

PUBLIC TRUST AND STATE'S BEST INTERESTS:

On April 28, 1960, the Commission authorized a 49-year Right of Way Permit to Stanislaus and Merced Counties for the construction of the Hills Ferry Bridge (<a href="https://linear.ncbi.nlm.nc

Public Agency Use to the County of Stanislaus and the County of Merced for the use and maintenance of the existing bridge (Item C10, February 1, 2010). In 2018, the California Department of Transportation (Caltrans) determined that the bridge is seismically deficient due to critical scour that has eroded support around the bridge pilings. The scour is attributed to river migration and channel widening. The bridge also has substandard traffic railings which creates a safety risk. The Lessee, with Caltrans concurrence, determined the best option to address these concerns is to replace the entire bridge. The lease will expire on April 28, 2029.

The Lessee submitted an application for a new General Lease – Public Agency Use for the construction, use, and maintenance of a new bridge, known as the Hills Ferry Road Bridge; use of a temporary construction easement; temporary use and maintenance of the existing Hills Ferry Road Bridge (Bridge No. 39C-0001); and the demolition and removal of the existing bridge and concrete piers, as part of the Hills Ferry Road Bridge Replacement (Project). Staff recommends the termination of the existing lease and issuance of a new lease. The Lessee has the right to use the uplands adjoining the existing and proposed lease premises.

The Hills Ferry Road Bridge is a rural major east-west connector between Interstate 5 (I-5) and United States Highway 99 (US-99) between the towns of Patterson in Stanislaus County and Los Banos in Merced County. The existing two-lane road bridge was built in 1961 and is approximately 647-feet long with three reinforced concrete frames with 18 spans.

The proposed two-lane road bridge would be constructed immediately north of the current bridge, within the current lease area, to maintain vehicular access across the San Joaquin River (River) throughout construction by using the current bridge. The profile of the proposed bridge would be raised approximately 5-feet to allow longer and fewer spans than the existing bridge while maintaining the required freeboard above the anticipated flood events. It would be approximately 750-feet long with two 12-foot-wide lanes providing passage in either direction with 6-foot-wide and 4-foot-wide shoulders, and a five-span cast-in-place post-tensioned box girder.

Construction and demolition are anticipated to be complete within two full construction seasons, with in-water construction occurring between June 15 to October 31. Construction activities may require diversion or channelizing of the flow at the crossing and/or construction of temporary work trestles. One temporary trestle would be constructed approximately 90-feet north of the existing bridge centerline to facilitate construction of the proposed bridge. A second temporary trestle may be constructed approximately 40-feet south of the existing bridge

centerline to facilitate removal of the existing bridge. Both trestles would be removed after construction and demolition activities are complete.

Construction of the concrete piling would likely be done using temporary steel casings that are driven, vibrated, rotated, or oscillated into the soils. If the casings are driven and the water level is high, such that water surrounds the casing during driving, then a bubble curtain would likely be required to reduce the magnitude of sound waves through the water in order to protect fish. Due to the expected highwater table during pile construction, slurries would likely be needed within the casings and drilled holes. Falsework to support the new cast-in-place box girder structure would likely be a combination of driven pipe piling and timber posts on timber pads. The piles would be driven from cranes on the upland and on the trestles. Depending on the progress, it may be necessary for falsework to remain in place through the winter.

After shifting traffic to the new bridge, the current bridge and support structures will be removed from the River. Demolition of the current bridge could also include working from the deck of the current bridge and working backwards during the removal. Removal of the concrete piers located in the River will require either temporary coffer dams or cutting the piers into sections for removal by crane. The concrete piers may be cut off 5-feet below the mud line and left in place if the Lessee is unsuccessful in its attempts to remove the concrete piers completely. In the event the Applicant is unable to completely remove the concrete piers, the Lessee will remain responsible for any abandoned structures. Should the Commission determine that any abandoned structures have become a hazard to the public, the Lessee will be required to remedy the hazard. Upon submission of the as-built plans showing the location of the new bridge and remaining portions of the current bridge to be demolished, if any, the leased area may be revised.

The public may launch small craft approximately 0.35 mile north of the lease area at the Fisherman's Bend boat ramp, a privately owned pay-per-use site. There is also a public access site to the Merced River approximately 0.8 mile east of the lease area at the George J. Hatfield State Recreation Area. This recreation area provides parking, day use, trails, river access, and camping along the Merced River upstream of its convergence with the San Joaquin River. The current bridge has existed for many years at this location. The proposed lease includes provisions protecting the public use of the proposed lease area and requires the Applicant to obtain necessary permits for the project. Furthermore, the current and proposed bridges do not significantly alter the land, the lease does not alienate the State's fee simple interest, and neither permanently impairs public rights. The lease requires the Lessee to conduct all repair and maintenance work safely and indemnify the Commission in the event of any liability resulting from the proposed action. The

lease is limited to a 20-year term and does not grant the lessee exclusive rights to the lease premises, which allows the Commission flexibility to determine if the Public Trust needs of the area have changed over time.

For all the reasons above, staff believes the issuance of this lease will not substantially impair the public rights to navigation, fishing, and commerce; or substantially interfere with Public Trust needs and values at this location, at this time, and for the foreseeable term of the proposed lease; and is in the best interests of the State.

CLIMATE CHANGE:

The project area is not tidally influenced and therefore, would not be subject to sea level rise. However, as stated in <u>Safeguarding California Plan: 2018 Update</u> (California Natural Resources Agency 2018), climate change is projected to increase the frequency and severity of natural disasters related to flooding, drought, and storms. In rivers, more frequent and powerful storms can result in increased flooding conditions and damage from storm-created debris. Conversely, prolonged droughts could dramatically reduce river flow and water levels, leading to loss of public access and navigability. Climate change will further influence riverine areas by changing erosion and sedimentation rates, and flooding and storm flow, as well as runoff, will likely increase scour, decreasing bank stability at a faster rate.

Due to these potential changes, the proposed replacement bridge could need reinforcement in the future to withstand higher levels of flood exposure and more frequent storm events. Regular maintenance, as required by the lease, will reduce the likelihood of severe structural degradation or dislodgement. Pursuant to the proposed lease, the Lessee acknowledges that the lease premises are located in an area that may be subject to effects of climate change.

OTHER PERTINENT INFORMATION:

 Approval or denial of the application is a discretionary action by the Commission. Each time the Commission approves or rejects a use of sovereign land, it exercises legislatively delegated authority and responsibility as trustee of the State's Public Trust lands as authorized by law. If the Commission denies the application, the Lessee may not conduct the proposed Project activities within lands under the Commission's jurisdiction. The lessee has no right to a new lease or to renewal of any previous lease.

- 2. This action is consistent with the "Leading Climate Activism" and "Meeting Evolving Public Trust Needs" Strategic Focus Areas of the Commission's 2021-2025 Strategic Plan.
- 3. Termination of the lease is not a project as defined by the California Environmental Quality Act (CEQA) because it is an administrative action that will not result in direct or indirect physical changes in the environment.
 - Authority: Public Resources Code section 21065 and California Code of Regulations, title 14, section 15378, subdivision (b)(5).
- 4. A Mitigated Negative Declaration, State Clearinghouse No. 2020100593, and a Mitigation Monitoring and Reporting Program were prepared by Stanislaus County and adopted on July 19, 2021, for this project. Staff reviewed these documents and prepared an independent Mitigation Monitoring Program (attached, Exhibit A) incorporating the County's document and recommends adoption by the Commission.
- 5. This activity involves lands identified as possessing significant environmental values pursuant to Public Resources Code section 6370 et seq., but the activity will not affect those significant lands. Based upon staff's consultation with the persons nominating such lands and through the CEQA review process, it is staff's opinion that the project, as proposed, is consistent with its use classification.

APPROVALS OBTAINED:

California Department of Transportation National Marine Fisheries Service

APPROVALS REQUIRED:

U.S. Army Corps of EngineersState Water Resources Control BoardCalifornia Department of Fish and WildlifeU.S. Department of Agriculture, National Resources Conservation Service

EXHIBIT:

A. Mitigation Monitoring Program

RECOMMENDED ACTION:

It is recommended that the Commission:

CEQA FINDING:

Find that a Mitigated Negative Declaration, State Clearinghouse No. 2020100593, and a Mitigation Monitoring and Reporting Program were prepared by the Stanislaus County and adopted on July 19, 2021, for this project and that the Commission has reviewed and considered the information contained therein; that in the Commission's independent judgment, the scope of activities to be carried out under the lease to be issued by this authorization have been adequately analyzed; that none of the events specified in Public Resources Code section 21166 or the State CEQA Guidelines section 15162 resulting in any new or substantially more severe significant impact has occurred; and, therefore no additional CEQA analysis is required.

Adopt the Mitigation Monitoring Program, as contained in the attached Exhibit A.

SIGNIFICANT LANDS INVENTORY FINDING:

Find that this activity is consistent with the use classification designated by the Commission for the land pursuant to Public Resources Code section 6370 et seq.

PUBLIC TRUST AND STATE'S BEST INTERESTS:

Find that the proposed lease will not substantially impair the public rights to navigation or substantially interfere with the Public Trust needs and values at this location, at this time, and for the foreseeable term of the proposed lease; and is in the best interests of the State.

AUTHORIZATION:

- 1. Authorize issuance of a General Lease Public Agency Use to the County of Stanislaus and County of Merced beginning April 28, 2023, for a term of 20 years, for construction, use, and maintenance of a new bridge; construction, use, and maintenance of a temporary pedestrian and bicycle bridge crossing; and demolition and removal of the existing bridge; consideration: the public use and benefit, with the State reserving the right at any time to set a monetary rent if the Commission finds such action to be in the State's best interests.
- 2. Authorize the Executive Officer or designee to replace exhibits in the lease upon submission, review, and approval of as-built plans detailing the final location of

the new improvements, and to remove the temporary construction area, following construction.

EXHIBIT A

CALIFORNIA STATE LANDS COMMISSION MITIGATION MONITORING PROGRAM RIVER ROAD OVER SAN JOAQUIN RIVER BRIDGE REPLACEMENT AKA HILLS FERRY ROAD BRIDGE REPLACEMENT

(A3784, State Clearinghouse No. 2020100593)

The California State Lands Commission (Commission or CSLC) is a responsible agency under the California Environmental Quality Act (CEQA) for the River Road Over San Joaquin River Bridge Replacement (AKA Hills Ferry Road Bridge Replacement) (Project). The CEQA lead agency for the Project is Stanislaus County.

In conjunction with approval of this Project, the Commission adopts this Mitigation Monitoring Program (MMP) for the implementation of mitigation measures for the portion(s) of the Project located on State lands. The purpose of a MMP is to impose feasible measures to avoid or substantially reduce the significant environmental impacts from a project identified in an Environmental Impact Report (EIR) or a Mitigated Negative Declaration (MND). State CEQA Guidelines¹ section 15097, subdivision (a), states in part:

In order to ensure that the mitigation measures and project revisions identified in the EIR or negative declaration are implemented, the public agency shall adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects. A public agency may delegate reporting or monitoring responsibilities to another public agency or to a private entity which accepts the delegation; however, until mitigation measures have been completed the lead agency remains responsible for ensuring that implementation of the mitigation measures occurs in accordance with the program.

The lead agency adopted an MND, State Clearinghouse No. 2020100593, adopted a Mitigation Monitoring and Reporting Program (MMRP) for the whole of the Project (see Exhibit A, Attachment A-1), and remains responsible for ensuring that implementation of the mitigation measures occurs in accordance with its program. The Commission's action and authority as a responsible agency apply only to the mitigation measures listed in Table A-1 below. The full text of each mitigation measure, as set forth in the MMRP prepared by the

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¹ The State CEQA Guidelines are found at California Code of Regulations, title 14, section 15000 et seq.

CEQA lead agency and provided in Attachment A-1, is incorporated by reference in this Exhibit A. Any mitigation measures adopted by the Commission that differ substantially from those adopted by the lead agency are shown as follows:

- Additions to the text of the mitigation measure are underlined; and
- Deletions of the text of the mitigation measure are shown as strikeout or as otherwise noted.

Table A-1. Project Impacts and Applicable Mitigation Measures

Potential Impact	Mitigation Measure (MM) ²	Difference Between CSLC MMP and Lead Agency MMRP
AIR-3. Sensitive Receptors	MM AIR-1	None
BIO-6. Swainson's Hawk	MM BIO-5	None
BIO-9. Western Pond Turtle	MM BIO-7	None
BIO-10. Steelhead	MMs BIO-8, HYD-1	None
BIO-12. Riparian Habitat	MM BIO-11	None
BIO-13. Riverine Habitat	MM BIO-12	None
BIO-14. Salmon Essential Fish Habitat	MMs BIO-8, HYD-1	None
BIO-15. Wetlands	MMs BIO-13, BIO-14	None
CULT-1. Cultural Resources	MM CULT-1	See addition to CULT-1 below
CULT-2. Human Remains	MM CULT-2	None
GEO-6. Paleontological Resources	MM GEO-1	See addition to GEO-1 below
HAZ-1. Stormwater Prevention Plan	MM HAZ-1	None
HAZ-2. Lead Paint	MM HAZ-2	None
HYD-1. Water Quality	MMs HYD-1, HYD-2, HYD-3	None
HYD-2. Erosion	MMs HYD-2, HYD-3	None
NOI-1. Noise	MM NOI-1	None
TCR-1. Tribal Cultural Resources	MMs CULT-1, CULT-2	None

² See Attachment A-1 for the full text of each MM taken from the MMRP prepared by the CEQA lead agency.

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Add to MM CULT-1:

California State Lands Commission (Commission) staff shall be notified of any significant cultural resources discovered on lands under the jurisdiction of the Commission. The final disposition of archaeological and historical resources from such lands must be approved by the Commission. Regional Parks shall also contact applicable Tribes if an archeological discovery is made.

Add to MM GEO-1:

California State Lands Commission (Commission) staff shall be notified of any paleontological specimens discovered on lands under the jurisdiction of the Commission. The final disposition of any artifacts or specimens including, but not limited to, those of a paleontological nature from such lands must be approved by the Commission.

ATTACHMENT A-1

MITIGATION MONITORING AND REPORTING PROGRAM ADOPTED BY STANISLAUS COUNTY



MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) has been prepared based upon the findings of the River Road over San Joaquin River Bridge Replacement (aka Hills Ferry Road Bridge Replacement) Project Final Mitigated Negative Declaration (MND). The MMRP, which is found in Table A of this section, lists mitigation measures recommended in the June 2021 Final MND for the proposed project. The MMRP must be adopted when the Board of Supervisors makes a final decision on the project.

This MMRP has been prepared to comply with the requirements of State law (Public Resources Code Section 21081.6). State law requires the adoption of an MMRP when mitigation measures are required to avoid significant impacts. The MMRP is intended to ensure compliance during implementation of the project.

The MMRP is organized in a matrix format. The first column identifies the mitigation measure. The second column, entitled "Mitigation Responsibility," refers to the party responsible for implementing the mitigation measure. The third column, entitled "Monitoring/Reporting Agency," refers to the agency responsible for oversight or ensuring that the mitigation measure is implemented. The fourth column, entitled "Monitoring Schedule," refers to when monitoring will occur to ensure that the mitigating action is completed. Please note that these mitigation measures include any revisions made as a result of the Response to Comments Document and the June 2021 Final MND.



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Mitigation Monitoring and Reporting Program

	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
Agriculture and Forestry Resources					
AG-1: Williamson Act Notification. Prior to construction, County of Merced shall notify the California DOC of its intent to acquire land that is under a Williamson Act Contract for a public improvement project. The notification shall follow the procedures set forth by the California DOC Public Acquisitions of Williamson Act Contracted Land. The notice shall indicate the amount of land that would need to be acquired to implement the proposed project. The notice shall also indicate that the remaining land not required for project implementation would continue to be governed by a Williamson Act Contract.	Merced County	Merced County and California Farmland Conservancy	Pre-construction		
Air Quality					
AIR-1: The project contractor, on behalf of Stanislaus County, shall prepare a Dust Control Plan for demolition and construction activities at the project site pursuant to the requirements and regulations of the SJVAPCD, including Regulation VIII. The project contractor shall be responsible for ensuring that all	Contractor	SJVAPCD	During Construction		



				Verificat	ion of
	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
adequate dust control measures are					
implemented in a timely manner during all					
phases of construction and maintenance					
activities at the project site. The Dust					
Control Plan shall include, at a minimum,					
the following measures:					
 All disturbed areas, including storage 					
piles, which are not being actively					
utilized for construction purposes, shall					
be effectively stabilized of dust					
emissions using water, chemical					
stabilizer/suppressant, covered with a					
tarp or other suitable cover or					
vegetative ground cover.					
 All on-site unpaved roads and off-site 					
unpaved access roads shall be effectively					
stabilized of dust emissions using water					
or chemical stabilizer/suppressant.					
 All land clearing, grubbing, scraping, 					
excavation, land leveling, grading, cut					
and fill, and demolition activities shall be					
effectively controlled of fugitive dust					
emissions utilizing application of water					
or by presoaking.					
 When materials are transported off-site, 					
all material shall be covered, or					
effectively wetted to limit visible dust					
emissions, and at least six inches of					



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	Mitigation	Monitoring/Reporting	Monitoring	Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
freeboard space from the top of the					
container shall be maintained.					
 All operations shall limit or expeditiously 					
remove the accumulation of mud or dirt					
from adjacent public streets at the end					
of each workday. (The use of dry rotary					
brushes is expressly prohibited except					
where preceded or accompanied by					
sufficient wetting to limit the visible dust					
emissions.) (Use of blower devices is					
expressly forbidden.)					
 Following the addition of materials to, or 					
the removal of materials from, the					
surface of outdoor storage piles, said					
piles shall be effectively stabilized of					
fugitive dust emissions utilizing sufficient					
water or chemical					
stabilizer/suppressant.					
 Within urban areas, trackout shall be 					
immediately removed when it extends					
50 or more ft from the site and at the					
end of each workday.					
 An owner/operator of any site with 150 					
or more vehicle trips per day, or 20 or					
more vehicle trips per day by vehicles					
with three or more axles shall					
implement measures to prevent					
carryout and trackout.					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
Biological Resources		7.607			
BIO-1:The following measures shall be	County/Qualified	CDFW	Pre-		
implemented to avoid and minimize	Bat Biologist		construction/During		
effects to bats.			construction		
1. Prior to bridge demolition, bats shall be					
excluded from potential day roost					
habitat on the existing bridge. Exclusion					
shall occur only during seasonal periods					
of bat activity when no non-volant					
young or overwinter bats are present					
so that no bats are trapped inside the					
roost features. In this region, the first					
annual appropriate season to conduct					
humane eviction is between					
approximately March 1 and April 15 (or					
after evening temperatures rise above					
45°F, and less than 0.5 in rainfall in 24					
hours occurs). The next annual season					
is after maternity season and prior to					
winter torpor or hibernation;					
September 1 through about October 15					
(or before evening temperatures fall					
below 45°F, and prior to greater than					
0.5 in rainfall within 24 hours).					
2. Under guidance of a qualified bat					
biologist experienced with humane bat					
exclusion procedures on bridges, bat					
exclusion measures shall be installed					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
during the daytime and shall consist of					
one-way structures that allow the bats					
to exit the roost but not re-enter. The					
exclusion measures shall remain in					
place and function until the existing					
bridge deck is removed. The number of					
exclusion measures installed at each					
roost location shall be sufficient to					
allow complete evacuation of all bats.					
3. A qualified biologist with experience					
assessing trees for bat roosts shall					
survey all trees to be removed during					
construction for suitability as bat					
roosts. Any trees suitable as bat roost					
shall be removed between the same					
periods (and conditions) specified in					
measure 1.					
4. The follow process shall be followed to					
remove trees identified in measure 3.					
a. A qualified biologist shall conduct a					
night emergence survey of the					
suitable roost tree 1-2 nights prior to					
tree removal using night vision and/or					
IR-sensitive camera equipment and					
bioacoustic recording equipment. If					
surveys are negative, trees shall be					
removed between the same periods					



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	Mitigation	Monitoring/Reporting	Monitoring	Compli	1
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
(and conditions) specified in measure					
1.					
b. If night emergent surveys are					
positive, trees shall be removed using					
a two-step process on two					
consecutive days, and shall be					
monitored by a qualified biologist.					
The first day, small branches and					
small limbs that do not contain					
potential roost habitat (e.g., cavities,					
crevices, exfoliating bark) shall be					
removed using chainsaws. The second					
day, the remainder of the tree shall					
be removed. The disturbance caused					
by chainsaw noise and vibration,					
coupled with the physical alteration					
of the tree will cause colonial bat					
species to abandon the roost tree					
after nightly emergence for foraging.					
Removing the tree the next day					
prevents re-habituation and re-					
occupation of the altered tree.					
5. In-kind replacement of day and night					
roost habitat shall be provided on the					
new bridge commensurate with the					
amount of each habitat identified on					
the existing bridge, as determined by a					



Mitigation Magazura	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	ance
Mitigation Measures qualified biologist with experience assessing bat habitat on bridges. 6. Demolition of the existing bridge shall not occur until after the new bridge is completed and replacement bat habitat has been installed.	Responsibility	Agency	Schedule	Initials	Date
BIO-2: The following measure shall be implemented to reduce impacts to San Joaquin pocket mouse and tricolored blackbird: 1. Annual grassland temporarily disturbed during construction shall be revegetated with the seed mix specified in Table 2 included in Appendix A of this MMRP.	County	CDFW	During construction/Post- construction		
BIO-3: The following measures from the USFWS's Standard Recommendations for the Protection of the San Joaquin Kit Fox Prior to or During Ground Disturbance (June 1999) shall be implemented as part of the project: 1. A preconstruction/pre-activity survey shall be conducted no less than 14 days and no more than 30 days prior to the beginning of ground disturbance and/or construction activities or any project activity likely to impact the SJKF.	County/Qualified Biologist	USFWS/CDFW	Pre-construction/During construction		



				Verification	
	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
2. If a natal/pupping den is discovered					
within the project area or within 200 ft					
of the project boundary, the USFWS					
and CDFW shall be immediately notified					
and under no circumstance should the					
den be disturbed or destroyed without					
prior authorization.					
3. Project-related vehicles should observe					
a 20-miles per hour speed limit in all					
project areas, except on county roads					
and State and federal highways; this is					
particularly important at night when					
SJKF are most active. To the extent					
possible, night-time construction					
should be minimized. Off-road traffic					
outside of the BSA should be					
prohibited.					
4. To prevent inadvertent entrapment of					
SJKF or other animals during the					
construction phase of the project, all					
excavated, steep-walled holes or					
trenches more than 2 ft deep should be					
covered at the close of each working					
day by plywood or similar materials, or					
provided with one or more escape					
ramps constructed of earth fill or					
wooden planks. Before such holes or					
trenches are filled, they should be					



				Verificat	
	Mitigation	Monitoring/Reporting	Monitoring	Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
thoroughly inspected for trapped					
animals. If at any time a trapped or					
injured SJKF is discovered, the					
procedures under number 12 of this					
measure must be followed.					
5. SJKF are attracted to den-like structures					
such as pipes and may enter stored					
pipe becoming trapped or injured. All					
construction pipes, culverts, or similar					
structures with a diameter of 4 inches					
or greater that are stored at a					
construction site for one or more					
overnight period should be thoroughly					
inspected for SJKF before the pipe is					
subsequently buried, capped, or					
otherwise used or moved in any way. If					
a SJKF is discovered inside a pipe, that					
section of pipe should not be moved					
until the USFWS and CDFW has been					
consulted. If necessary, and under the					
direct supervision of the biologist, the					
pipe may be moved once to remove it					
from the path of construction activity,					
until the fox has escaped.					
6. All food-related trash items such as					
wrappers, cans, bottles, and food					
scraps should be disposed of in closed					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
containers and removed at least once a					
week from the BSA.					
7. No firearms shall be allowed in the BSA.					
8. To prevent harassment, mortality of					
SJKF or destruction of dens by dogs or					
cats, no pets should be permitted in the					
project area.					
9. Use of rodenticides and herbicides in					
project areas should be restricted. This					
is necessary to prevent primary or					
secondary poisoning of SJKF and the					
depletion of prey populations on which					
they depend. All uses of such					
compounds should observe label and					
other restrictions mandated by the U.S.					
Environmental Protection Agency,					
California Department of Food and					
Agriculture, and other State and federal					
legislation, as well as additional project-					
related restrictions deemed necessary					
by the USFWS. If rodent control must					
be conducted, zinc phosphide should					
be used because of proven lower risk to					
SJKF.					
10. A representative shall be					
appointed by Stanislaus County who					
will be the contact source for any					
employee or contractor who might					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
inadvertently kill or injure a SJKF or who					
finds a dead, injured, or entrapped					
individual. The representative shall be					
identified during the employee					
education program. The					
representative's name and telephone					
number shall be provided to the USFWS					
and CDFW.					
11. An employee education program					
shall be conducted. The program					
should consist of a brief presentation					
by persons knowledgeable in kit fox					
biology and legislative protection to					
explain endangered species concerns to					
contractors, their employees, and					
military and agency personnel involved					
in the project. The program should					
include the following: a description of					
the SJKF and its habitat needs; a report					
of the occurrence of SJKF in the project					
area; an explanation of the status of the					
species and its protection under the					
Federal Endangered Species Act and					
California Endangered Species Act; and					
a list of measures being taken to reduce					
impacts to the species during project					
construction and implementation. A					
fact sheet conveying this information					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
should be prepared for distribution to					
the above-mentioned people and					
anyone else who may enter the BSA.					
12. Upon completion of the project, all					
areas subject to temporary ground					
disturbances, including storage and					
staging areas, temporary roads,					
pipeline corridors, etc., should be					
recontoured if necessary, and					
revegetated to promote restoration of					
the area to pre-project conditions. An					
area subject to "temporary"					
disturbance means any area that is					
disturbed during the project, but that					
after project completion will not be					
subject to further disturbance and has					
the potential to be revegetated.					
Appropriate methods and plant species					
used to revegetate such areas should					
be determined on a site-specific basis in					
consultation with the USFWS and CDFW					
and revegetation experts.					
13. In the case of trapped animals,					
escape ramps, or structures should be					
installed immediately to allow the					
animal(s) to escape, or the USFWS and					
CDFW should be contacted for advice.					



	Mitigation	Monitoring/Reporting	Monitoring	Verificati Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
Additional minimization measures include:					
14. In the event that a SJKF or its sign is observed in the project area, or it is otherwise determined that SJKF may be affected by the proposed action during work on the bridge, Caltrans (on behalf of the FHWA) and the USFWS and CDFW must be notified immediately to determine whether additional consultation is necessary.					
BIO-4:The following measures shall be	County/Qualified	USFW/CDFW	Pre-		
implemented to reduce impacts to	Biologist	031 117 021 11	construction/During		
burrowing owls:			construction		
1. Preconstruction surveys for western					
burrowing owl shall be conducted by a					
qualified biologist in accordance with					
CDFW's 2012 Staff Report on Burrowing					
Owl Mitigation.					
If burrowing owls are identified during					
the preconstruction survey, passive					
exclusion shall be implemented per					
CDFW's 2012 Staff Report on Burrowing					
Owl Mitigation (including avoidance of					
occupied burrows during the breeding					
season).					
3. Annual grassland, pasture, and ruderal					
areas temporarily disturbed during					



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	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
construction shall be revegetated with					
the seed mix specified in Mitigation					
Measure BIO-2.					
BIO-5:The following measures shall be	County/Qualified	CDFW	Pre-		
implemented to reduce potential impacts	Biologist		construction/During		
to nesting Swainson's hawks and impacts			construction/Post-		
to suitable foraging habitat:			construction		
1. If work begins between February 1 and					
August 31, an early season					
preconstruction survey for nesting					
Swainson's hawks shall be conducted					
between January and March in the BSA					
and immediate vicinity (an					
approximately 0.25-mile radius) by a					
qualified biologist when tree foliage is					
relatively sparse and nests are easy to					
identify. A second preconstruction					
survey for nesting Swainson's hawks					
shall be conducted in the BSA and					
immediate vicinity (an approximately					
0.25 mile radius) by a qualified biologist					
no more than 14 days prior to initiation					
of earthmoving activities.					
2. If nesting Swainson's hawks are found					
within the survey area, a qualified					
biologist shall evaluate the potential for					
the project to disturb nesting activities.					
CDFW shall be contacted to review the					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
evaluation and determine if the project					
can proceed without adversely					
affecting nesting activities. CDFW shall					
also be consulted to establish					
protection measures such as buffers.					
Disturbance of active nests shall be					
avoided until it is determined by a					
qualified biologist that nesting is					
complete and the young have fledged,					
or that the nest has failed. If work is					
allowed to proceed, at a minimum, a					
qualified biologist shall be on-site					
during the start of construction					
activities during the nesting season to					
monitor nesting activity. The monitor					
shall have the authority to stop work if					
it is determined the project is adversely					
affecting nesting activities.					
3. Worker environmental awareness					
training shall be conducted by a					
qualified biologist for all construction					
personnel. This training instructs					
workers to recognize Swainson's hawks					
and their habitat(s).					
4. Brightly colored Environmentally					
Sensitive Area (ESA) fencing shall be					
placed along the limits of work to					
prevent unnecessary encroachment					



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Daitingtion Bassage	Mitigation	Monitoring/Reporting	Monitoring	Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
into adjacent areas. Fencing shall be					
maintained in good condition for the					
duration of construction activities.					
5. Annual grassland temporarily disturbed					
during construction shall be					
revegetated with the seed mix specified					
in Mitigation Measure BIO-2.	- 4- 115		_		
BIO-6:The following measures shall be	County/Qualified	CDFW	Pre-		
implemented to reduce potential impacts	Biologist		construction/During		
to nesting northern harriers, loggerhead			construction/Post-		
shrike and impacts to suitable foraging			construction		
habitat:					
1. If work begins between February 1 and					
August 31, a preconstruction survey for					
nesting northern harriers and					
loggerhead shrike shall be conducted					
by a qualified biologist no more than 14					
days prior to initiation of earthmoving					
activities. The survey shall include the					
BSA and suitable nesting habitat within					
500 ft.					
If nesting northern harriers or					
loggerhead shrike are found within the					
survey area, a qualified biologist shall					
evaluate the potential for the project to					
disturb nesting activities. CDFW shall be					
contacted to review the evaluation and					
determine if the project can proceed					



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	Mitigation	Monitoring/Reporting	Monitoring	Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
without adversely affecting nesting					
activities. CDFW shall also be consulted					
to establish protection measures such					
as buffers. Disturbance of active nests					
shall be avoided until it is determined					
by a qualified biologist that nesting is					
complete and the young have fledged,					
or that the nest has failed. If work is					
allowed to proceed, at a minimum, a					
qualified biologist shall be on-site					
during the start of construction					
activities during the nesting season to					
monitor nesting activity. The monitor					
shall have the authority to stop work if					
it is determined the project is adversely					
affecting nesting activities.					
3. Worker environmental awareness					
training shall be conducted by a					
qualified biologist for all construction					
personnel. This training instructs					
workers to recognize northern harriers,					
loggerhead shrike and their habitat(s).					
4. Brightly colored ESA fencing shall be					
placed along the limits of work to					
prevent unnecessary encroachment					
into adjacent areas. Fencing shall be					
maintained in good condition for the					
duration of construction activities.					



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	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
5. Annual grassland temporarily disturbed					
during construction shall be					
revegetated with the seed mix specified					
in Mitigation Measure BIO-2.					
BIO-7:The following measures shall be	County/Qualified	CDFW	Pre-		
implemented to reduce impacts to	Biologist		construction/During		
western pond turtle:			construction/Post-		
1. Prior to the start of construction			construction		
activities in the San Joaquin River, the					
reach of the river within the BSA shall					
be surveyed by a qualified biologist for					
the presence of western pond turtles. If					
western pond turtles are observed in					
the BSA, they shall be relocated outside					
of the work area by a qualified					
biologist.					
2. Following completion of the new					
bridge, all fill slopes, temporary impact					
and/or otherwise disturbed areas shall					
be restored to preconstruction					
contours (if necessary) and revegetated					
with the native seed mix specified in					
Mitigation Measure BIO-2.					
3. Measures consistent with the current					
Caltrans' Construction Site Best					
Management Practices (BMP) Manual					
(including the Storm Water Pollution					
Prevention Plan [SWPPP] and Water					



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	Mitigation	Monitoring/Reporting	Monitoring	Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
Pollution Control Plan [WPCP] Manuals)					
shall be implemented to minimize					
effects to Pacific pond turtle suitable					
habitat resulting from erosion, siltation,					
etc. during construction.					
4. Brightly colored ESA fencing shall be					
placed along the limits of work to					
prevent unnecessary encroachment					
into the San Joaquin River. Fencing shall					
be maintained in good condition for the					
duration of construction activities.					
BIO-8:The following measures shall be	County/Qualified	NMFS	Pre-		
implemented to reduce impacts to Central	Biologist		construction/During		
Valley steelhead:			construction		
1. All in-water work associated with the					
proposed project shall be conducted					
between June 1 and October 15, which					
is within the seasonal work window					
recommended by National Marine					
Fisheries Service to minimize effects to					
steelhead.					
2. Brightly colored ESA fencing shall be					
placed along the limits of work to					
prevent unnecessary encroachment					
into the San Joaquin River. Fencing shall					
be maintained in good condition for the					
duration of construction activities.					



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	Mitigation	Monitoring/Reporting	Monitoring	Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
3. The project shall retain a qualified					
fishery biologist prior to construction to					
inspect the temporary steel casings					
prior to installation. The temporary					
steel casings will be utilized during					
construction of the CIDH pilings to					
contain spoils during drilling and to					
keep the drilled holes from collapsing.					
The temporary steel casings shall have					
wire mesh, netting, or equivalent					
material attached to the bottom of the					
casings, prior to the casings being					
lowered into the water. The wire mesh,					
netting, or equivalent material shall					
have openings small enough to prevent					
juvenile salmonids from being trapped					
in the casing during installation. Prior to					
installation, the temporary steel casings					
shall be inspected by a qualified fishery					
biologist. When and if necessary, a					
qualified fishery biologist may halt work					
activity and recommend measures for					
avoiding adverse effects to salmonids					
and their habitat and inform National					
Marine Fisheries Service of any such					
occurrences.					
4. Water collected in the CIDH casings					
shall be pumped into settling basins on					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
the bank or into trucks for off-site					
disposal.					
5. During removal of any part of the					
existing bridge, a debris collection					
device (e.g., heavy tarps, chain link					
mats) shall be installed below the					
bridge to prevent debris from falling					
into the San Joaquin River and left in					
place until removal is complete.					
6. Measures consistent with the current					
Caltrans' Construction Site BMP Manual					
(including the SWPPP and WPCP					
Manuals) shall be implemented to					
minimize effects to steelhead during					
construction.					
7. A SWPPP shall be prepared by the					
contractor in accordance with typical					
provisions associated with a Regional					
General Permit for Construction					
Activities (on file with the Central Valley					
RWQCB). The SWPPP shall contain a					
Spill Response Plan with instructions					
and procedures for reporting spills, the					
use and location of spill containment					
equipment, and the use and location of					
spill collection materials.					
Implementation of the SWPPP will					
minimize effects to salmonids and their					



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	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
habitat from potential spills associated					
with construction activities.					
8. Any emergent or submergent aquatic					
vegetation shall be retained. Other					
vegetation shall be retained as practical					
within the constraints of the proposed					
project. Where vegetation removal is					
necessary, rapidly sprouting plants,					
such as willows, shall be cut off at the					
ground line and the root systems left					
intact.					
BIO-9: The following measures are consistent	County/Qualified	USFWS	Pre-		
with the provisions of the USFWS	Biologist		construction/During		
"Framework for Assessing Impacts to the			construction		
Valley Elderberry Longhorn Beetle" dated					
May 2017 and shall be implemented for					
the project:					
 ESA fencing shall be established along 					
the limits of construction to exclude					
construction activities from avoided					
habitat. Activities that may damage or					
kill an elderberry shrub (e.g., trenching,					
paving, etc.) may need an avoidance					
area of at least 20 ft from the drip-line,					
depending on the type of activity.					
Trucks and other vehicles shall not be					
allowed to park in and equipment shall					
not be stored in, an ESA. No storage or					



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	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
dumping of oil, gasoline, or other					
substances shall be permitted within an					
ESA. All ESAs shall be clearly delimited					
with yellow caution tape or temporary					
fencing prior to commencement of					
construction activities.					
2. Signs shall be installed along the edge					
of the ESA and shall read the following:					
"This area is habitat of the Valley					
Elderberry Longhorn Beetle, a					
threatened species, and must not be					
disturbed. This species is protected by					
the Endangered Species Act of 1973, as					
amended. Violators are subject to					
prosecution, fines, and imprisonment."					
The signs should be clearly readable					
from a distance of 20 ft and must be					
maintained for the duration of					
construction.					
3. All temporarily disturbed areas shall be					
restored to approximate pre-					
construction contours and revegetated,					
either through hydroseeding or other					
means, with native species.					
4. To prevent fugitive dust from drifting					
into adjacent habitat, all clearing,					
grubbing, scraping, excavation, land					
leveling, grading, cut and fill,					



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Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
demolition activities, or other dust					
generating activities shall be effectively					
controlled for fugitive dust emissions					
utilizing application of water or by					
presoaking.					
5. Prior to the start of construction, a					
qualified biologist shall survey for					
elderberry shrubs within 165 ft of the					
disturbance area. If the survey					
documents any shrubs with stem					
diameter greater than 1 inch that were					
not identified during the May 14, 2019					
survey conducted within the BSA,					
Caltrans shall contact the USFWS. The					
USFWS and Caltrans shall work to					
determine a way to proceed without					
take or Caltrans shall reinitiate					
consultation with the USFWS to update					
the Biological Opinion to obtain an					
Incidental Take Statement that includes					
any additional take that may occur.					
6. All construction personnel shall attend					
environmental awareness training.					
During the environmental awareness					
training, construction personnel shall					
be briefed on the status of the beetle,					
the need to avoid damage to the					
elderberry host plant, and the possible					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
penalties for not complying with these					
requirements.					
7. Herbicides shall not be used within the					
drip-line of the elderberry shrubs.					
Insecticides shall not be used within 30					
meters (98 ft) of an elderberry shrub.					
All chemicals will be applied using a					
backpack sprayer or a similar direct					
application method.					
8. A qualified biologist shall monitor the					
work area at project appropriate					
intervals to assure that all avoidance					
and minimization measures are					
implemented.					
BIO-10: In accordance with the 2017 VELB	County	USFWS	Pre-construction		
Framework, direct impacts to elderberry					
shrubs within riparian habitat shall be					
compensated at a minimum 2:1 ratio.					
Additionally, elderberry shrubs that will be					
removed shall be transplanted, if feasible,					
to a USFWS-approved location. The VELB					
compensatory mitigation approach is					
shown in Table 3 included in Appendix A of					
this MMRP. As shown in Table 3, the					
purchase of a total of 8 credits will be					
required. In addition, all four elderberry					
shrub will require transplanting to a					
USFWS-approved location.					



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	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
BIO-11: The following measures shall be	County/Qualified	USACE, RWQCB,	Pre-		
implemented to reduce impacts to black	Biologist	CDFW	construction/During		
willow community:			construction/Post-		
 Work in the black willow community 			construction		
shall be minimized to the extent					
possible. Work in the live channel of					
the San Joaquin River shall also be					
minimized to the extent possible.					
Brightly colored ESA fencing shall be					
placed along the limits of work to					
protect the adjacent black willow					
community. Fencing shall be					
maintained in good condition for the					
duration of construction activities.					
3. Staging areas, access routes, and					
construction areas shall be located					
outside of wetland and riparian areas to					
the maximum extent practicable.					
4. Worker environmental awareness					
training shall be conducted by a					
qualified biologist for all construction					
personnel. The training shall instruct					
workers about the purpose of ESA					
fencing and the resources being					
protected.					
5. Measures consistent with the current					
Caltrans' Construction Site BMP Manual					
(including the SWPPP and WPCP					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
Manuals) shall be implemented to					
minimize effects to the red willow					
thickets community resulting from					
erosion, siltation, etc. during					
construction.					
6. A SWPPP shall be prepared by the					
contractor in accordance with typical					
provisions associated with a Regional					
General Permit for Construction					
Activities (on file with the Central Valley					
RWQCB). The SWPPP shall contain a					
Spill Response Plan with instructions					
and procedures for reporting spills, the					
use and location of spill containment					
equipment, and the use and location of					
spill collection materials.					
7. All upland areas temporarily impacted					
during project construction shall be					
restored to preconstruction contours (if					
necessary) and revegetated with native					
species as specified in Mitigation					
Measure BIO-2. Invasive exotic plants					
shall be controlled to the maximum					
extent practicable.					
Prior to issuance of a grading permit or other					
authorization to proceed with project					
construction, the County shall obtain any					



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	Mitigation	Monitoring/Reporting	Monitoring	Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
regulatory permits that are required from the					
USACE, RWQCB, and/or CDFW.					
BIO-12: The following measures shall be	County/Contractor	RWQCB, CDFW	Pre-		
implemented to reduce impacts to riverine			construction/During		
habitat:			construction		
1. All in-water work associated with the					
proposed project shall be conducted					
between June 1 and October 15.					
2. Brightly colored ESA fencing shall be					
placed along the limits of work to					
prevent unnecessary encroachment					
into the San Joaquin River. Fencing shall					
be maintained in good condition for the					
duration of construction activities.					
3. The project shall retain a qualified					
fishery biologist prior to construction to					
inspect the temporary steel casings					
prior to installation. The temporary					
steel casings will be utilized during					
construction of the CIDH pilings to					
contain spoils during drilling and to					
keep the drilled holes from collapsing.					
The temporary steel casings shall have					
wire mesh, netting, or equivalent					
material attached to the bottom of the					
casings, prior to the casings being					
lowered into the water. The wire mesh,					



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	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
netting, or equivalent material shall					
have openings small enough to prevent					
juvenile salmonids from being trapped					
in the casing during installation. Prior to					
installation, the temporary steel casings					
shall be inspected by a qualified fishery					
biologist. When and if necessary, a					
qualified fishery biologist may halt work					
activity and recommend measures for					
avoiding adverse effects to salmonids					
and their habitat and inform NMFS of					
any such occurrences.					
4. Water and/or slurry collected in the					
CIDH casings shall be pumped into					
settling basins on the bank or into					
trucks for off-site disposal.					
5. If the casings are driven and the water					
level is high such that water surrounds					
the casing during driving, a bubble					
curtain will be required to reduce the					
magnitude of sound waves through the					
water in order to protect fish.					
6. During removal of any part of the					
existing bridge, a debris collection					
device (e.g., heavy tarps, chain link					
mats) shall be installed below the					
bridge to prevent debris from falling					
into the San Joaquin River and left in					



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	Mitigation	Monitoring/Reporting	Monitoring	Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
place until removal is complete. A					
qualified fish biologist shall be on site					
during the installation of cofferdams					
and during the cofferdam dewatering					
process to remove any trapped					
salmonids and other fish from the					
cofferdam. The fish will be relocated to					
suitable habitat upstream of the work					
area. Protocols for the capture,					
handling, and release of fish will be					
developed in cooperation with NMFS					
and CDFW. Fish biologists will contact					
NMFS and CDFW immediately if any					
steelhead are found dead or injured.					
7. A SWPPP shall be prepared by the					
contractor in accordance with the					
Caltrans Stormwater Pollution					
Prevention Plan (SWPPP) and Water					
Pollution Control Program (WPCP)					
Preparation Manual (October 2016 or					
most current version available) and					
typical provisions associated with a					
Regional General Permit for					
Construction Activities (on file with the					
Central Valley RWQCB). Consistent with					
these resources, the SWPPP shall					
include a description of potential					
pollutants and the manner in which					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
sediments and hazardous materials					
present on site during construction					
(including vehicle and equipment fuels)					
would be managed. The SWPPP shall					
also contain a Spill Response Plan with					
instructions and procedures for					
reporting spills, the use and location of					
spill containment equipment, and the					
use and location of spill collection					
materials. Implementation of the					
SWPPP shall minimize effects to					
salmonids and their habitat from					
potential spills associated with construction activities.					
8. Any emergent or submergent aquatic					
vegetation shall be retained as practical					
within the constraints of the proposed					
project.					
9. All upland areas temporarily impacted					
during project construction will be					
restored to pre-construction contours					
and revegetated with native species as					
specified in Table 2.					
BIO-13: The following measures shall be	County/Qualified	USACE, RWQCB,	Pre-construction		
implemented to reduce impacts to	Biologist	CDFW			
wetlands:					
1. To the extent practicable, the project					
shall include design features such as					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
retaining walls, non-standard slope					
gradients, etc. to avoid and minimize					
impacts to wetlands.					
2. Worker environmental awareness					
training shall be conducted by a					
qualified biologist for all construction					
personnel. The training shall instruct					
workers about the purpose of ESA					
fencing and the resources being					
protected.					
BIO-14: Compensatory mitigation for	County	USACE, RWQCB,	Pre-construction		
impacts to wetlands and other waters of		CDFW			
the U.S. and State shall be accomplished					
using one of the following methods, or by					
a combination of these methods:					
 Preservation, creation, and/or 					
restoration in accordance with the					
USACE Mitigation Monitoring Program					
Guidelines (2015). The Mitigation					
Monitoring Program shall address, at					
minimum, the following: a project site					
impact assessment, compensatory					
mitigation site selection, compensator	/				
mitigation site design, compensatory					
mitigation site construction, long-term					
compensatory mitigation site					
maintenance and monitoring, and long	-				
term site management.					



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Mitigation Measures	Mitigation Responsibility	Monitoring/Reporting Agency	Monitoring Schedule	Initials	Date
Purchase of credits at an approved	Кезроположеу	rigency	Jenedale	mitials	Dute
mitigation bank.					
3. Payment of in-lieu fees pursuant to an					
approved in-lieu fees program.					
4. Appropriate mitigation ratios shall be					
established in coordination with the					
USACE during the permitting process to					
ensure no net loss of acreage or value					
of waters of the U.S.					
Cultural Resources					
CULT-1: An Archaeological Monitoring	County/Contractor/	County/Contractor	During construction		
Program shall be planned and	Qualified				
implemented for this Project. The program	Archaeologist				
shall consist of a qualified archaeologist					
developing and implementing a Worker's					
Environmental Awareness Program					
(WEAP), developing and implementing an					
archaeological monitoring plan (AMP), and					
preparing a report of findings at the					
conclusion of monitoring. The report shall					
be submitted to the County and the					
appropriate California Historical Resources					
Information System Information Center.					
The WEAP shall be developed to inform					
the construction crew on the legal					
requirements, identification, and					
treatment of cultural resources, as well as					
procedures to follow in the event that					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
cultural resources are encountered. A					
qualified archaeologist shall provide the					
WEAP training to the construction crew					
before ground disturbing work					
commences. A tribal representative from					
the North Valley Yokuts Tribe shall be					
invited to present alongside the					
archaeologist. The WEAP training shall					
include handouts to be provided to new					
workers.					
The AMP shall stipulate the areas to be					
monitored during construction, the areas					
to be fenced off for protection, the type of					
monitoring proposed, points of contact,					
responsible parties, and thresholds for					
determining the significance of an					
unanticipated discovery. A qualified					
archaeologist shall monitor Project					
activities in the areas stipulated in the					
AMP. A monitor from the North Valley					
Yokuts Tribe shall be invited to monitor					
alongside the archaeologist. The					
archaeologist and tribal monitor will (1)					
identify any archaeological resources that					
may be present; and (2) ensure that if					
human remains are identified they are					
treated in an appropriate and respectful					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
manner and the County is notified in a					
timely manner.					
During construction, if any archaeological					
deposits or cultural materials are					
encountered, all work within 25 ft of the					
discovery shall be redirected and a					
qualified archaeologist contacted (if one is					
not present) to assess the situation,					
consult with agencies as appropriate, and					
make recommendations for the treatment					
of the discovery. The County with					
jurisdiction over the location of the find					
shall also be notified. Project personnel					
shall not collect or move any					
archaeological materials.					
Any adverse impacts to the finds shall be					
avoided by project activities. If avoidance					
is not feasible, the archaeological deposits					
shall be evaluated to determine if they					
qualify as a historical resource or unique					
archaeological resource, or as historic					
property. If the deposits do not qualify,					
avoidance is not necessary. If the deposits					
do qualify, adverse impacts on the					
deposits shall be avoided, or such impacts					
shall be mitigated. Mitigation may consist					
of, but is not limited to, recovery and					
analysis of the archaeological deposit;					



	Mitigation	Monitoring/Reporting	Monitoring	Verificati Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
recording the resource; preparing a report		<u> </u>			
of findings; and accessioning recovered					
archaeological materials at an appropriate					
curation facility. Educational public					
outreach may also be appropriate.					
Upon completion of the assessment, the					
archaeologist shall prepare a report					
documenting the methods and results,					
and provide recommendations for the					
treatment of the archaeological deposits					
discovered. The report shall be submitted					
to Stanislaus and/or Merced County, as					
appropriate.					
CULT-2: During construction, in the event	County/Contractor	County/California	During construction		
that human remains are encountered,		Historical Resources			
work within 50 ft of the discovery shall be		Information System			
redirected and the Stanislaus and/or					
Merced County Coroner notified					
immediately. At the same time, a qualified					
archaeologist shall be contacted to assess					
the situation and consult with agencies as					
appropriate. Project personnel shall not					
collect or move any human remains and					
associated materials. If the human remains					
are of Native American origin, the coroner					
shall notify the NAHC within 24 hours of					
this identification. The NAHC shall identify					
a Most Likely Descendant to inspect the					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
site and provide recommendations for the					
proper treatment of the remains and					
associated grave goods. Upon completion					
of the assessment, the archaeologist shall					
prepare a report documenting the					
methods and results, and provide					
recommendations of the treatment of the					
human remains and any associated					
cultural materials, as appropriate and in					
coordination with the recommendations of					
the Most Likely Descendant. The report					
shall be submitted to the County, in which					
the remains were found, and the California					
Historical Resources Information System.					
Geology/Soils		<u>, </u>			
GEO-1: During construction, if	County/Contractor	County/Contractor	During construction		
paleontological resources are					
encountered, all ground-disturbing					
activities shall be redirected within 50 ft of					
the find until a qualified paleontologist can					
be contacted to evaluate the find and					
make recommendations. If found to be					
significant and proposed project activities					
cannot avoid the paleontological					
resources, a paleontological evaluation					
and monitoring plan shall be implemented.					
Adverse impacts to paleontological					
resources shall be mitigated, which may					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
include monitoring, data recovery and					
analysis, a final report, and the accession					
of all fossil material to a paleontological					
repository. Upon completion of project					
ground-disturbing activities, a report					
documenting methods, findings, and					
recommendations shall be prepared and					
submitted to the paleontological					
repository.					
Hazards & Hazardous Materials					
HAZ-1: The contractor shall prepare a SPCP. The	Contractor	County	Pre-construction		
SPCP must be submitted to Stanislaus					
County for review and approval prior to					
the commencement of construction					
activities. The SPCP shall include					
information on the nature of all hazardous					
materials that would be used on site. The					
SPCP shall also include information					
regarding the proper handling of					
hazardous materials and cleanup					
procedures in the event of an accidental					
release. The phone number of the agency					
overseeing hazardous materials and toxic					
cleanup shall be provided in the SPCP.					
HAZ-2: The contractor shall prepare and	Contractor	County	Pre-construction		
implement a Lead Compliance Plan for					
removal and disposal of traffic stripes and					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
industrial paint. The Lead Compliance Plan					
shall require the contractor to use trained					
personnel and comply with all Cal/OSHA					
regulations and requirements. Employee					
training should include guidelines that					
prevent or minimize worker exposure to					
lead-based paint and chromium-based					
paint. The training shall include (but not be					
limited to) protocols for environmental					
and personal monitoring, requirements for					
personal protective equipment, and other					
health and safety protocols and					
procedures for the demolition of existing					
structures.					
Hydrology & Water Quality					
HYD-1: The construction contractor shall	Contractor	RWQCB	During construction		
implement the following dewatering BMPs					
to reduce water quality impacts to the San					
Joaquin River and downstream waters.					
 During high water conditions, a 					
temporary work trestle may be required					
to support the pile drilling equipment					
and to service construction of the new					
bridge.					
 Visibility permitting, all excavations shall 					
be inspected for sensitive aquatic					
wildlife prior to dewatering. Wildlife					
found in excavations shall be allowed to					



				Verificat	
	Mitigation	Monitoring/Reporting	Monitoring	Compli	1
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
leave passively or shall be relocated by a					
qualified biologist (BIO-8).					
 If dewatering of an excavation is 					
needed, all dewatering pump intakes					
shall be fitted with filter screening to					
prevent impacts to aquatic wildlife that					
may accidentally enter excavations.					
 Where feasible (e.g., landowner 					
approval is provided, sufficient space					
with permeable surfaces is available,					
slopes are gentle enough to allow					
control of potential sediment transport),					
all stormwater or groundwater removed					
from excavations shall be discharged					
overland into well-vegetated areas to					
promote the settling of sediment. If					
overland discharge is not possible, then					
water removed from excavations shall					
be collected, treated, and disposed of					
consistent with requirements of the					
RWQCB and any other agencies with					
jurisdiction over the activity.					
The contractor shall have on hand, at all					
times, sufficient pumping equipment,					
filter sleeves, hoses and machinery in					
good working condition and shall have					
available, at all times, competent					
personnel for the implementation of					



				Verificat	
	Mitigation	Monitoring/Reporting	Monitoring	Compli	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
dewatering. Adequate standby					
equipment and supplies shall be kept					
available at all times to ensure efficient					
dewatering and maintenance of					
dewatering operation during power					
failure.					
 Dewatering shall commence at an 					
appropriate time prior to commencing					
excavation (if possible), or immediately					
upon encountering groundwater, and					
shall be continuous until the work is					
completed and backfilled.					
 The contractor shall comply at all times 					
with the project SWPPP.					
 The contractor shall be responsible to 					
design and control the dewatering					
operations such that disposal of water					
does not cause erosion or other damage					
and such that water to be disposed of is					
free from silt and other objectionable					
materials. Settling basins and/or other					
means shall be used as necessary.					
Groundwater shall be disposed of and					
treated, as necessary, so as not to create					
environmental nuisance or harm.					
 Work shall be conducted within areas of 					
the project allowed by the permits and					
as shown on the plans. Stanislaus					



				Verificati	ion of
	Mitigation	Monitoring/Reporting	Monitoring	Complia	ance
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
County shall ensure that all contractor					
personnel understand all permit and					
plan requirements that affect					
dewatering.					
 The termination of dewatering 					
operations shall be performed in such a					
manner as to maintain the undisturbed					
state of the natural soils and prevent					
disturbance of compacted backfill.					
 The contractor shall implement a 					
monitoring plan to ensure that					
applicable water quality release					
standards are met. The contractor shall					
document in a report to be submitted to					
the permitting agencies that the water					
quality standards have been met.					
HYD-2: Prior to commencement of construction	County/Contractor	RWQCB	Pre-construction		
activities, the proposed project shall					
obtain coverage under the State Water					
Resources Control Board's NPDES General					
Permit for Storm Water Discharges					
Associated with Construction and Land					
Disturbance Activities (Construction					
General Permit) Order No. 2009-0009					
DWQ, as amended by 2010-0014-DWG					
and 2012- 0006-DWQ, NPDES No.					
CAS000002, or any other subsequent					
permit. This shall include submission of					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Compli	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
Permit Registration Documents (PRDs),					
including a Notice of Intent for coverage					
under the permit to the State Water					
Resources Control Board via the					
Stormwater Multiple Application and					
Report Tracking System (SMARTS).					
Construction activities shall not commence					
until a Waste Discharge Identification					
Number is obtained from SMARTS. The					
proposed project shall comply with the					
Risk Level 2 requirements of the					
Construction General Permit. A SWPPP					
shall be prepared and implemented to					
address all construction-related activities,					
equipment, and materials that have the					
potential to impact water quality. The					
SWPPP shall identify the sources of					
pollutants that may affect the quality of					
storm water and include BMPs to ensure					
that the potential for soil erosion,					
sedimentation, and spills is minimized and					
to control the discharge of pollutants in					
storm water runoff as a result of					
construction activities. Upon completion					
of construction, a Notice of Termination					
shall be submitted via SMARTS.					
HYD-3: Prior to construction, the	Contractor	County	Pre-construction		
contractor shall prepare an Erosion					



	Mitigation	Monitoring/Reporting	Monitoring	Verificati Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
Control Plan. The Erosion Control Plan					
shall be reviewed and approved by					
Stanislaus County and implemented by its					
designated contractor in compliance with					
the provisions of the Stanislaus County					
Standards and Specifications. The Erosion					
Control Plan shall indicate the proposed					
methods for the control of runoff, erosion,					
and sediment movement during project					
construction.					
Noise					
NOI-1: The following minimization measures shall	Contractor	County	During construction		
be incorporated when construction					
activities occur within 300 ft of any noise					
sensitive use:					
 The Contractor shall use an alternative 					
warning method instead of a sound					
signal unless required by safety laws.					
 The Contractor shall equip all internal 					
combustion engines with the					
manufacturer-recommended muffler					
and shall not operate any internal					
combustion engine on the job site					
without its appropriate muffler.					
Transportation					
TRANS-1: Prior to the start of construction,	Contractor	County	Pre-construction		
the construction contractor for the					



	Mitigation	Monitoring/Reporting	Monitoring	Verificat Complia	
Mitigation Measures	Responsibility	Agency	Schedule	Initials	Date
proposed project shall prepare and					
implement a standard Traffic					
Management Plan to minimize traffic					
disruption and ensure adequate access					
is maintained. Temporary disruptions					
shall be minimized by coordinating					
construction activities to provide					
alternative access points and/or by					
coordinating construction phasing to					
reduce disruptions. Notification of any					
temporary disruptions to roadway					
access shall be posted along local					
roadways.					
TRANS-2 : Prior to the start of construction,	Contractor	County	Pre-construction		
the construction contractor shall					
coordinate with the Stanislaus County					
Sheriff's Department, the Merced					
County Sheriff's Department, and local					
public and private ambulance and					
paramedic providers in the area to					
prepare a Construction Period					
Emergency Access Plan. The Emergency					
Access Plan shall identify phases of the					
proposed project and construction					
scheduling, as well as appropriate					
alternative emergency access routes.					

Source: LSA (2021).



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APPENDIX A TABLES

Table 2: Native Seed Mix

Scientific Name	Common Name	Rate (pounds per acre)	Minimum Percent Germination
Artemisia douglasiana	Mugwort	2.0	50
Bromus carinatus	California brome	5.0	85
Elymus trachycaulus	Slender wheatgrass	2.0	60
Elymus X triticum	Regreen	10.0	80
Eschscholzia californica	California poppy	2.0	70
Hordeum brachyantherum	California barley	2.0	80
Lupinus bicolor	Bicolored lupine	4.0	80

Table 3: VELB Compensation

	Number of Shrubs to be		Total Credit	
ı	Removed	Compensation Ratio	Purchase ¹	Acres of Credits
	4	2:1	8	0.328 ac

¹ One credit (unit) = 1,800 sq. ft. or 0.041 acre