



County of Fresno

DEPARTMENT OF PUBLIC WORKS AND PLANNING
STEVEN E. WHITE, DIRECTOR

INITIAL STUDY ENVIRONMENTAL CHECKLIST FORM

1. Project title:

Initial Study No. 7334 – Fresno Canal at Del Rey Avenue Bridge Replacement

2. Lead agency name and address:

Fresno County
2220 Tulare Street, Suite A
Fresno, CA 93721

3. Contact person and phone number:

Jeremy Shaw
(559) 600-4207

4. Project location:

The Fresno Canal Bridge is located on N. Del Rey Avenue, 0.5 miles south of its intersection with East McKinley Avenue. The replacement bridge will be constructed in the same location as the existing bridge.

5. Project sponsor's name and address:

Alexis Rutherford, Fresno County Design Division
2220 Tulare Street, 6th Floor
Fresno, CA 93721

6. General Plan designation:

Agriculture

7. Zoning:

AE-20 (Exclusive Agricultural, 20-acre minimum parcel size)

8. Description of project:

The existing bridge is 71 feet long, 23.6 feet wide, was built in 1939 and widened in 1967. The proposed bridge will be 73 feet long and 39 feet wide to accommodate two 12-foot wide travel lanes and 6-foot wide shoulders. The bridge replacement is necessary to address deficiencies such as a narrow deck width, substandard barrier rails and approach guardrails as well as scour and erosion at the abutments. Since widening the timber structure further is not allowable, a replacement is the only option.

Approach work is expected to extend up to 400 feet on either side of the bridge. The driveways/access roads on all four corners would require realignment to accommodate the new approach railing and private driveway gates and fences would require relocation. Trees and other vegetation would be removed during construction.

The bridge would be closed during construction requiring a 3.7-mile detour to allow a shorter construction period. The existing Average Daily Traffic (ADT) is 1,200 vehicles per day. Right-of-way acquisition is anticipated.

Existing utilities at the bridge will also need to be relocated: PGE electrical transmission overhead lines are located on the east side of the bridge and will remain in place. PGE will refeed the west side distribution lines from the north and remove the lines above the bridge. The distribution line feeding a house on the north side of the bridge will be moved northward to clear an access road. AT&T's telephone lines are located on the west side of the bridge and will be rerouted underground by directional bore method. A portion of Conterra's fiber optic cable located aerially on the north west side of the bridge will be rerouted underground with minimum depth of 10 feet below the canal bottom. Another portion, which is buried along west side of the north approach, will be relocated within County right-of-way, and buried at minimum 4 feet depth for a distance of approximately 300 feet. Directional bore method will be applied for this work with drilling diameter of 1.25 inch and two 3-foot by 5-foot bore pits.

The project would not involve pile driving; although structure demolition, excavation and some stream channel work is included in the scope of work, the work would be temporary and intermittent. Construction activities would occur during normal working hours, Monday through Friday, and would comply with Fresno County's Noise Ordinance and Caltrans Standard Specifications for noise.

9. Surrounding land uses and setting: Briefly describe the project's surroundings:

The land uses in the area of the project are agricultural and some parcels have single family residences. The Fresno Canal runs beneath and through the project site.

10. Other public agencies whose approval is required (g., permits, financing approval, or participation agreement.)

California Department of Fish and Wildlife
California Department of Transportation
Central Valley Regional Water Quality Control Board
Fresno Irrigation District
San Joaquin Valley Air Pollution Control District
State Water Resources Control Board
U.S. Department of Fish and Wildlife
U.S. Environmental Protection Agency

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

Notice that this project application was complete was sent to three of the four tribes who have requested such formal consultation from the County. The notices were sent to Table Mountain Rancheria (TMR) and the Dumna Wo Wah Tribal Government (DWW) on August 24, 2017, and to the Picayune Rancheria of Chukchansi Indians (PRCI) on November 7, 2017. The reason for the later date is that the PRCI requested notice after the original letters had been sent. The project was outside the area of geographic interest for the fourth tribe: Santa Rosa Rancheria.

Neither TMR nor PRCI provided a response to the County's notice that the project application was complete. DWW requested consultation with the County in a letter dated September 7, 2017, which was within the 30-day response time prescribed by AB 52. A copy of the Archeological Survey Report and Historic Property Survey Report (Applied Earthworks, 2017) was provided to the Tribal Representative on February 21, 2018. On August 2, 2018, staff adopted mitigation and concluded consultation with the DWW. See Section XVIII. of the Initial Study for more details.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | |
|---|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and Forestry Resources |
| <input type="checkbox"/> Air Quality | <input type="checkbox"/> Biological Resources |
| <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Energy |
| <input type="checkbox"/> Geology/Soils | <input type="checkbox"/> Greenhouse Gas Emissions |
| <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology/Water Quality |
| <input type="checkbox"/> Land Use/Planning | <input type="checkbox"/> Mineral Resources |
| <input type="checkbox"/> Noise | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Transportation | <input type="checkbox"/> Tribal Cultural Resources |
| <input type="checkbox"/> Utilities/Service Systems | <input type="checkbox"/> Wildfire |
| <input type="checkbox"/> Mandatory Findings of Significance | |

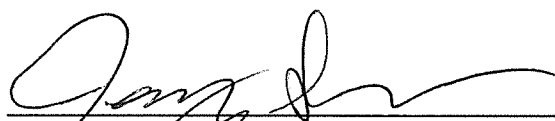
DETERMINATION OF REQUIRED ENVIRONMENTAL DOCUMENT:

On the basis of this initial evaluation:

- I find that the proposed project **COULD NOT** have a significant effect on the environment. **A NEGATIVE DECLARATION WILL BE PREPARED.**
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the Mitigation Measures described on the attached sheet have been added to the project. **A MITIGATED NEGATIVE DECLARATION WILL BE PREPARED.**
- I find the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required
- I find that as a result of the proposed project, no new effects could occur, or new Mitigation Measures would be required that have not been addressed within the scope of a previous Environmental Impact Report.

PERFORMED BY:

REVIEWED BY:



Jeremy Shaw, Planner



David Randall, Senior Planner

Date: 3-11-21

Date: 3-11-21

**INITIAL STUDY
ENVIRONMENTAL CHECKLIST FORM
(Initial Study Application No. 7334)**

The following checklist is used to determine if the proposed project could potentially have a significant effect on the environment. Explanations and information regarding each question follow the checklist.

- 1 = No Impact
- 2 = Less Than Significant Impact
- 3 = Less Than Significant Impact with Mitigation Incorporated
- 4 = Potentially Significant Impact

I. AESTHETICS

Except as provided in Public Resources Code Section 21099, would the project:

- 2 a) Have a substantial adverse effect on a scenic vista?
- 2 b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?
- 2 c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?
- 1 d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

II. AGRICULTURAL AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology in Forest Protocols adopted by the California Air Resources Board. Would the project:

- 2 a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?
- 2 b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?
- 1 c) Conflict with existing zoning for forest land, timberland or timberland zoned Timberland Production?
- 1 d) Result in the loss of forest land or conversion of forest land to non-forest use?
- 1 e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

III. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:

- 2 a) Conflict with or obstruct implementation of the applicable Air Quality Plan?
- 2 b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
- 2 c) Expose sensitive receptors to substantial pollutant concentrations?
- 2 d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

IV. BIOLOGICAL RESOURCES

Would the project:

- 3 a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- 2 b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?
- 2 c) Have a substantial adverse effect on state or federally-protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?
- 2 d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
- 1 e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?
- 1 f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state Habitat Conservation Plan?

V. CULTURAL RESOURCES

Would the project:

- 2 a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?
- 3 b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?
- 3 c) Disturb any human remains, including those interred outside of formal cemeteries?

VI. ENERGY

Would the project:

- 2 a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?
- 2 b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

VII. GEOLOGY AND SOILS

Would the project:

- a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - 1 i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?
 - 1 ii) Strong seismic ground shaking?
 - 1 iii) Seismic-related ground failure, including liquefaction?
 - 1 iv) Landslides?
- 1 b) Result in substantial soil erosion or loss of topsoil?
- 1 c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?
- 1 d) Be located on expansive soil as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?
- 1 e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?
- 3 f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

- 2 a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?
- 1 b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?
- 2 c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on or off site?
 - 1 i) Result in substantial erosion or siltation on- or off-site;
 - 1 ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;
 - 1 iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or
 - 1 iv) Impede or redirect flood flows?
- 1 d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?
- 2 e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

VIII. GREENHOUSE GAS EMISSIONS

Would the project:

- 2 a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
- 2 b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

IX. HAZARDS AND HAZARDOUS MATERIALS

Would the project:

- 1 a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?
- 2 b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?
- 1 c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?
- 1 d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?
- 1 e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?
- 1 f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?
- 1 g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

X. HYDROLOGY AND WATER QUALITY

Would the project:

XI. LAND USE AND PLANNING

Would the project:

- 1 a) Physically divide an established community?
- 1 b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

XII. MINERAL RESOURCES

Would the project:

- 1 a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?
- 1 b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local General Plan, Specific Plan or other land use plan?

XIII. NOISE

Would the project result in:

- 2 a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- 2 b) Generation of excessive ground-borne vibration or ground-borne noise levels?
- 1 c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

XIV. POPULATION AND HOUSING

Would the project:

- 1 a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

- 1 b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

XV. PUBLIC SERVICES

Would the project:

- 1 a) Result in substantial adverse physical impacts associated with the provision of new or physically-altered governmental facilities, or the need for new or physically-altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:
 - 1 i) Fire protection?
 - 1 ii) Police protection?
 - 1 iii) Schools?
 - 1 iv) Parks?
 - 1 v) Other public facilities?

XVI. RECREATION

Would the project:

- 1 a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?
- 1 b) Include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

XVII. TRANSPORTATION

Would the project:

- 2 a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?
- 2 b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?
- 2 c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?
- 2 d) Result in inadequate emergency access?

XVIII. TRIBAL CULTURAL RESOURCES

Would the project:

- 3 a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - 3 i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
 - 3 ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set

XIX. UTILITIES AND SERVICE SYSTEMS

Would the project:

- 2 a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?
- 1 b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?
- 1 c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
- 1 d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?
- 1 e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

XX. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

- 1 a) Substantially impair an adopted emergency response plan or emergency evacuation plan?
- 1 b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?
- 1 c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?
- 1 d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

Would the project:

- 3 a) Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?
- 3 b) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)
- 1 c) Have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

Documents Referenced:

This Initial Study is referenced by the documents listed below. These documents are available for public review at the County of Fresno, Department of Public Works and Planning, Development Services and Capital Projects Division, 2220 Tulare Street, Suite A, Fresno, California (corner of M & Tulare Streets).

Air/Noise Study Memo by Shane Gunn (Caltrans), dated September 19, 2016
Anticipated Tree Impacts by Live Oak Associates, Inc., dated May 2, 2018
Farmland Conversion Impact Analysis for the Fresno Canal Bridge Replacement at Del Rey Avenue Project by Area West Environmental, Inc. April 28, 2017
Fresno County General Plan, Policy Document, Background Report and Final EIR
Fresno County Zoning Ordinance
Greenhouse Gas Analysis for Fresno Canal on Del Rey Avenue Bridge Replacement Project by LSA, dated December 17, 2019
Hazardous Waste Initial Site Assessment by Haro Environmental, November 11, 2015
Historic Property Survey Report by Caltrans, January 2017
Impacts to Habitats/Vegetation Types by Live Oak Associates, Inc.
Important Farmland 2016 Map, State Department of Conservation
Natural Environment Study (Minimal Impacts) by Caltrans, October 2016
Potential Waters of the United States Fresno Canal at Del Rey Avenue, Fresno County, California by Live Oak Associates, Inc., October 2016
Water Quality Technical Memorandum by Rincon Consultants, September 16, 2016
Biological Resources Update Survey, Fresno Canal at Del Rey Avenue, California, by Live Oak Associates, Inc. November 13, 2020
Fresno Canal Bridge on Del Rey Avenue Project Tree Removal Air Qualify Analysis, by LSA, September 17, 2020

JS:
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