

# Summary Form for Electronic Document Submittal

Form F

Lead agencies may include 15 hardcopies of this document when submitting electronic copies of Environmental Impact Reports, Negative Declarations, Mitigated Negative Declarations, or Notices of Preparation to the State Clearinghouse (SCH). The SCH also accepts other summaries, such as EIR Executive Summaries prepared pursuant to CEQA Guidelines Section 15123. Please include one copy of the Notice of Completion Form (NOC) with your submission and attach the summary to each electronic copy of the document.

SCH #: \_\_\_\_\_

Project Title: Westberry Bridge Project

Lead Agency: City of Madera Department of Public Works

Contact Name: Steve Bettencourt, Senior Civil Engineer

Email: sbettencourt@madera.gov Phone Number: (559) 661-5425

Project Location: northwest portion of Madera, Madera County  
*City* *County*

Project Description (Proposed actions, location, and/or consequences).

See attached Project Description

Identify the project's significant or potentially significant effects and briefly describe any proposed mitigation measures that would reduce or avoid that effect.

See attached MMRP

If applicable, describe any of the project's areas of controversy known to the Lead Agency, including issues raised by agencies and the public.

No known areas of controversy

Provide a list of the responsible or trustee agencies for the project.

Not applicable

## Project Title

Westberry Bridge Project

## Lead Agency Name and Address

City of Madera Department of Public Works  
1030 South Gateway Drive  
Madera, CA 93637

## Contact Person and Phone Number

### Lead Agency Contact

Steve Bettencourt  
Senior Civil Engineer  
(559) 661-5425

### CEQA Consultant

Provost & Pritchard Consulting Group  
Briza Sholars, Environmental Project Manager  
(559) 449-2700

## Project Location

The Project is located in the northwest portion of Madera, California, approximately 130 miles southeast of Sacramento and 120 miles northeast of Bakersfield. The Project area is located along the Westberry Boulevard Alignment crossing the Fresno River. The centroid of the Project area is 36° 57' 57.57" N, 120° 06' 04.50" W.

## General Plan Designation and Zoning

Project Area	General Plan Designation	Zoning District
<b>ONSITE</b>	<ul style="list-style-type: none"><li>Resource Conservation/Agriculture</li><li>Open Space</li><li>Low Density Residential</li></ul>	<ul style="list-style-type: none"><li>U: Unclassified</li><li>PD (3,000): Planned Development -3,000 sq. ft.</li><li>PD (6,000): Planned Development -6,000 sq. ft.</li><li>PD (8,000): Planned Development -8,000 sq. ft.</li><li>PD (12,000): Planned Development -12,000 sq. ft.</li></ul>
<b>ADJACENT LANDS</b>	<ul style="list-style-type: none"><li>Resource Conservation/Agriculture</li><li>Open Space</li><li>Low Density Residential</li></ul>	<ul style="list-style-type: none"><li>PD (3,000)</li><li>PD (6,000):</li><li>PD (8,000):</li><li>PD (12,000):</li></ul>

## Description of Project

### Project Background and Purpose

The Fresno River traverses through the center of the City of Madera in a horizontal east-west direction. Due to urban development on both sides of the river, various bridges have been built across the river to provide access to the north and south. The City of Madera General Plan Circulation Plan depicts eight existing bridges and one proposed bridge.<sup>1</sup> The single proposed bridge is the Westberry Boulevard Bridge as proposed under this Project.

### Project Description

The City of Madera proposes to construct a new vehicular bridge along the proposed Westberry Boulevard Alignment crossing the Fresno River in the northwest portion of the City of Madera, to improve traffic circulation and to avoid any future congestion on existing upstream bridges at Granada Drive and Schnoor Avenue. The proposed bridge crossing structure would be approximately 408 feet long by approximately 92 feet wide and would accommodate two 11-foot traveled ways in each direction, one 14-foot-wide center median, two 6-foot shoulder/bike lanes with 1-foot buffer striping, two 9-foot sidewalks, and two 1-foot concrete barriers (Type 732SW) with tubular hand railing along each side of the bridge deck. An earthen irrigation canal runs along the exterior side of each riverbank. Both earthen canal alignments are owned by the United States Bureau of Reclamation (USBR) and operated by the Madera Irrigation District (MID). The Vern McCullough Fresno River Trail runs along the south bank of the river. The proposed bridge structure would consist of an 8-span cast-in-place prestressed concrete flat slab bridge supported on reinforced concrete seat-type abutments with 42-inch diameter cast-in-drilled-hole (CIDH) piles and 42-inch diameter CIDH piles at the piers.

The depth of the 42-inch diameter pier piles extend down to an elevation of 152.5 feet. The existing ground elevation ranges from an elevation of 240 feet to 250 feet, so the depth of the pier piles would be between 87 feet to 98 feet. The depth of the 42-inch diameter abutment piles extends down to an elevation of 206 feet. The bottom of abutment elevations are set at an elevation of 244 feet, so the depth of the abutment piles would be approximately 38 feet.

The proposed bridge will contain deck drains that allow stormwater to flow off of the bridge deck and into the Fresno River.

Access to the proposed bridge during construction is anticipated to be provided via previously completed portions of the Westberry Boulevard Bridge or temporary access roads extending within the channel from Riverview Drive to N Westberry Boulevard. Temporary access ramps will also need to be constructed to allow equipment and materials to be transported within the limits of the 100-year flood plain during construction of the proposed piers and during falsework erection and removal. The temporary access ramps will be constructed after the temporary water diversion is implemented. All fill material used as part of the project, either temporary or permanently, shall be in conformance with Caltrans Standard Specifications Section 19. The fill material shall also be free from debris and deleterious materials.

Falsework will be required to construct the bridge's superstructure. Conventional falsework will be used with piers on either side of the proposed pier locations and at the faces of the proposed seat-type abutments. Falsework spans will range from 30-50 ft.

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<sup>1</sup> See Figure CI-1: Circulation Master Plan at the following link: [City-of-Madera-GP-12-04-20.pdf](#)

Piers and falsework will be located within OHW. The Contractor shall be responsible for means and methods of water diversion and an appropriate plan shall be developed and submitted for approval to the appropriate agencies.

Construction of the new bridge will require structural excavation for the proposed piers and abutments. Due to sandy soils and perched groundwater encountered at the site, Caltrans slurry displacement or temporary casing may be required to protect against cave-in conditions while constructing the CIDH piers. Slurry displacement introduces liquid slurry into the drilling process which remains in the drilled hole until the contractor displaces the slurry with the concrete introduced via a rigid pipe to the bottom of the drilled hole. Temporary casing will consist of steel pipes that support the walls of the drilled hole until the concrete is placed and can withstand the ground and groundwater pressures, upon which point the casing is removed from the drilled hole.

The abutments are sized approximately 4.5 ft. wide, 10 ft. tall and 96 ft. long. Structural excavation for the abutments will extend within the limits of the 100-year floodplain. Structural excavation will be required at the piers with a total of 40 cubic yards of excavation that will occur within the 100-year flood plain and within the OHW. The reinforced concrete piers at the existing grade will be 42-inches in diameter.

Earthen irrigation canals border the north and south riverbanks. The northern canal is identified as Lateral 24.2-14.2, and the southern canal is Lateral 24.2. The canals would be converted to culverts where they intersect the proposed roadway improvements.

As mentioned above, the Project area contains the Vern McCullough Fresno River Trail that runs along the south bank of the river. As part of the Project, the trail would be realigned for easier access post construction. Non-native vegetation removal along the trail and south side of the 24.2 canal would occur as part of Project activities. Retaining walls will be required to route the trail beneath the proposed bridge.

Road and sidewalk improvements would be completed on the approaches to the bridge north and south of the Fresno River. The proposed bridge would hold a new City of Madera 12-inch water main, and AT&T and PG&E utilities would be located within the bridge itself. The City of Madera has an existing buried 33-inch sewer main which crosses the USBR canals and Fresno River within the new bridge/roadway alignment and would remain in service.

The Project's Area of Potential Effect (APE) includes approximately 10.5 acres. The Project APE includes paved roads, two irrigation canals, a walking trail, and the Fresno River, with an additional 50-foot biological survey buffer surrounding the Project area for a total of approximately 15 acres for the biological resources APE. Surrounding lands on both sides of the Fresno River are residential neighborhoods with paved roads.

Tree and shrub removal and/or branch trimming are anticipated for the construction of the Westberry Bridge Project.

### **Construction Schedule**

Construction is expected to take approximately seven months over one (1) construction season, weather and conditions permitting.

### **Operation and Maintenance**

Operation and Maintenance would be similar to that of existing facilities and infrastructure owned and operated by the City of Madera, MID, and USBR. These activities would occur on an as-needed basis.

# CHAPTER 5 MITIGATION, MONITORING, AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) has been formulated based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Westberry Bridge Project in the City of Madera. The MMRP lists mitigation measures recommended in the IS/MND for the Project and identifies monitoring and reporting requirements.

**Table 5-1: Mitigation, Monitoring, and Reporting** Program presents the mitigation measures identified for the Project. Each mitigation measure is numbered with a symbol indicating the topical section to which it pertains, a hyphen, and the impact number. For example, AIR-2 would be the second mitigation measure identified in the Air Quality analysis of the IS/MND.

The first column of **Table 5-1: Mitigation, Monitoring, and Reporting** Program identifies the mitigation measure. The second column, entitled “When Monitoring is to Occur,” identifies the time the mitigation measure should be initiated. The third column, “Frequency of Monitoring,” identifies the frequency of the monitoring of the mitigation measure. The fourth column, “Agency Responsible for Monitoring,” names the party ultimately responsible for ensuring that the mitigation measure is implemented. The last columns will be used by the Lead and Responsible Agencies to ensure that individual mitigation measures have been complied with and monitored.

**Table 5-1: Mitigation, Monitoring, and Reporting Program**

Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
<b>Aesthetics</b>						
<b>AES-1</b>	All outdoor lighting shall be hooded or screened as to direct the source of light downward and directed towards the bridge deck so as not to negatively impact surrounding properties or wildlife in or around the river.	During construction, as applicable	As applicable	City of Madera – Engineering Department		
<b>Air Quality</b>						
<b>AIR-1</b>	Project construction equipment shall be equipped with USEPA Tier 4 Final engines or better.	During construction	Daily	City of Madera – Engineering Department		
<b>Biological Resources</b>						
<b>BIO-1A</b>	<b>(WEAP Training):</b> Prior to initiating construction activities (including staging and mobilization), all personnel associated with Project construction will attend mandatory Worker Environmental Awareness Program (WEAP) training, conducted by a qualified biologist, to aid workers in identifying special status resources that may occur in the APE. The specifics of this program will include identification of the sensitive species and suitable habitats, a description of the regulatory status and general ecological characteristics of sensitive resources, and review of the limits of construction and mitigation measures required to reduce impacts to biological resources within the work area. This training will discuss special status species, describe the laws and regulations in place to provide protection of these species, identify the penalties for violation of applicable environmental laws and regulations, and a list of required protective measures to avoid “take.” A fact sheet conveying this information, along with photographs or illustrations of sensitive species with potential to occur onsite, will also be prepared for distribution to all contractors, their employees, and all other	Prior to construction	Once	City of Madera – Engineering Department		

Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
	personnel involved with construction of the Project. All employees will sign a form documenting that they have attended WEAP training and understand the information presented to them.					
<b>BIO-1B</b>	<p><b>(BMPs):</b> The Project proponent will ensure that all workers employ the following BMPs in order to avoid and minimize potential impacts to special status species:</p> <ul style="list-style-type: none"> <li>• Vehicles will observe a 15-mph speed limit while on unpaved access routes.</li> <li>• Workers will inspect areas beneath parked vehicles prior to mobilization. If special status species are detected beneath vehicles, the individual will either be allowed to leave of its own volition or will be captured by the qualified biologist (must possess appropriate collecting/handling permits) and relocated out of harm’s way to the nearest suitable habitat beyond the influence of the Project work area. “Take” of a listed (rare, threatened, or endangered) species is prohibited.</li> </ul>	During construction	Daily	City of Madera – Engineering Department		
<b>BIO-2A</b>	<b>(Operational Hours):</b> Construction activities will be limited to daylight hours to reduce potential impacts to wildlife movement corridors.	During construction	Daily	City of Madera – Engineering Department		
<b>BIO-2B</b>	<b>(Wildlife Access):</b> At no point will access to the river and canals be blocked outside of construction hours or during overnight hours or weekends. If construction must block both sides of a wildlife access route, an alternative route through the construction area will be identified by a qualified biologist and maintained throughout the construction schedule timeframe.	During construction	Daily	City of Madera – Engineering Department		
<b>BIO-2C</b>	<b>(Cover Excavations):</b> Pipeline/culvert/siphon excavations and vertical pipes will be covered each night to prevent wildlife from falling in and	During construction	Daily	City of Madera – Engineering Department		



Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
	becoming trapped or injured during migratory or dispersal movements.					
<b>BIO-3A</b>	<b>(Avoidance):</b> The Project’s construction activities will occur, if feasible, between September 16 and January 31 (outside of nesting bird season) in an effort to avoid impacts to nesting birds. If all Project activities will occur outside of nesting bird season, no further mitigation is required.	During construction	Only if construction activities occur between September 16 and January 31	City of Madera – Engineering Department		
<b>BIO-3B</b>	<b>(Pre-construction Surveys):</b> If activities must occur within nesting bird season (February 1 to September 15), a qualified biologist will conduct a pre-construction survey for nesting birds including Swainson’s Hawk onsite and within a 0.5-mile radius. This survey will be conducted in accordance with the <i>Recommended Timing and Methodology for Swainson’s Hawk Nesting Surveys in California’s Central Valley</i> , <sup>44</sup> and the <i>Staff Guidance Regarding Avoidance of Impacts to Tricolored Blackbird Breeding Colonies on Agricultural Fields</i> , <sup>45</sup> or current guidance. The Swainson’s Hawk survey will not be completed between April 21 to June 10 due to the difficulty of identifying nests during this time of year. The pre-construction survey would also provide a presence/absence survey for all other nesting birds within the APE and an additional 50 feet, no more than seven (7) days prior to the start of construction. All raptor nests would be considered “active” upon the nest-building stage.	Prior to construction	If activities must occur within nesting bird season (February 1 to September 15)	City of Madera – Engineering Department		
<b>BIO-3C</b>	<b>(Establish Buffers):</b> On discovery of any active nests or breeding colonies near work areas, the biologist will determine appropriate construction setback distances based on applicable CDFW and/or USFWS guidelines and/or the biology of the species in question. Active Swainson’s Hawk nests will receive	During construction, on discovery of active nests or breeding colonies near work area	Daily upon discovery	City of Madera – Engineering Department		

<sup>44</sup> (Swainson's Hawk Technical Advisory Committee 2000)

<sup>45</sup> (California Emissions Estimator Model (CalEEMod) version 2013.2.2 n.d.)

Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
	a 0.5-mile buffer and active Tricolored Blackbird nests will receive a 200-foot buffer. Reduced buffer distances may be appropriate for Swainson’s Hawk and Tricolored Blackbirds depending on site conditions and ongoing disturbance levels and may be discussed with CDFW. Construction buffers will be identified with flagging, fencing, or other easily visible means, and will be maintained until the biologist has determined that the nestlings have fledged.					
<b>BIO-3D</b>	<b>(ITP):</b> In the event an active Swainson’s Hawk nest, Tricolored Blackbird nest, or other nest are detected during surveys and cannot be avoided, consultation with CDFW will be warranted to discuss how to implement the Project and avoid take. If take cannot be avoided, take authorization through the acquisition of an ITP pursuant to Fish and Game Code section 2081, subdivision (b) is necessary to comply with CESA.	During construction, in the event an active Swainson’s Hawk nest, Tricolored Blackbird nest, or other nest are detected during surveys and cannot be avoided	Once	City of Madera – Engineering Department		
<b>BIO-4A</b>	<b>(Pre-construction Take Avoidance Survey):</b> A qualified biologist will conduct a pre-construction take avoidance survey for burrowing owls in accordance with CDFW’s Staff Report on Burrowing Owl Mitigation, <sup>46</sup> within thirty (30) days prior to the start of construction activities. The survey will include the proposed work area and surrounding lands within 250 feet. If no burrowing owl individuals or suitable burrows are observed, no further mitigation is required.	Prior to construction	Once within 30-days	City of Madera – Engineering Department		
<b>BIO-4B</b>	<b>(Avoidance/Monitoring):</b> If an active burrowing owl burrow is detected, a qualified biologist will remain onsite to monitor and the occurrence will be reported to the local CDFW office and the CNDDDB. A disturbance-free buffer will be implemented in accordance with CDFW’s 2012 <i>Staff Report on</i>	During construction, if an active burrowing owl burrow is detected	Daily, if an active burrowing owl burrow is detected	City of Madera – Engineering Department		

<sup>46</sup> (Placeholder2)

Mitigation, Monitoring, and Reporting Program																													
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance																							
	<p><i>Burrowing Owl Mitigation</i>, as outlined in the table below.</p> <table border="1"> <thead> <tr> <th rowspan="2">Location</th> <th rowspan="2">Time of Year</th> <th colspan="3">Level of Disturbance</th> </tr> <tr> <th>Low</th> <th>Medium</th> <th>High</th> </tr> </thead> <tbody> <tr> <td>Nesting sites</td> <td>April 1 – August 15</td> <td>200 meters</td> <td>500 meters</td> <td>500 meters</td> </tr> <tr> <td>Nesting sites</td> <td>August 16 – October 15</td> <td>200 meters</td> <td>200 meters</td> <td>500 meters</td> </tr> <tr> <td>Nesting sites</td> <td>October 16 – March 31</td> <td>50 meters</td> <td>100 meters</td> <td>500 meters</td> </tr> </tbody> </table>	Location	Time of Year	Level of Disturbance			Low	Medium	High	Nesting sites	April 1 – August 15	200 meters	500 meters	500 meters	Nesting sites	August 16 – October 15	200 meters	200 meters	500 meters	Nesting sites	October 16 – March 31	50 meters	100 meters	500 meters					
Location	Time of Year			Level of Disturbance																									
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<b>BIO-4C</b>	<p><b>(Consultation with CDFW and Passive Relocation):</b> If avoidance of an active burrowing owl burrow is not feasible, CDFW will be immediately consulted to determine the best course of action, which may include passive relocation during non-breeding season. Passive relocation and/or burrow exclusion will not take place without coordination with CDFW and preparation of an approved exclusion and relocation plan.</p>	During construction, if avoidance of an active burrowing owl burrow is not feasible	Once, if avoidance of an active burrowing owl burrow is not feasible	City of Madera – Engineering Department																									
<b>BIO-5A</b>	<p><b>(Pre-construction Survey):</b> A qualified biologist will conduct a pre-construction survey of Project areas within thirty (30) days prior to vegetation clearing or ground disturbing activities. Environmentally sensitive areas will be flagged for avoidance. If Coast horned lizards are detected, construction monitoring will be required. Surveys will not take place when daytime temperatures are below 60°F or above 95°F. If no suitable habitat or species observations are found, no further mitigation is required.</p>	Prior to construction	Once within 30-days	City of Madera – Engineering Department																									
<b>BIO-5B</b>	<p><b>(Monitor):</b> If species observations are found, a qualified biologist will conduct a pre-activity clearance survey each day and remain onsite to oversee all vegetation clearing and ground disturbing activities conducted within suitable habitat for Coast horned lizards. If a listed species is observed within the Project area, the biologist will stop work and allow the species to leave the site of</p>	During construction, if species observations are found	Daily	City of Madera – Engineering Department																									

Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
	its own volition or contact the appropriate regulatory agency (CDFW and/or USFWS) for guidance on how to proceed.					
<b>BIO-5C</b>	<b>(ITP):</b> In the event Coast horned lizards are detected during surveys and cannot be avoided, or a biological monitor is not on-site through construction, consultation with CDFW is warranted to discuss how to implement the Project and avoid take. If take cannot be avoided, take authorization through the acquisition of an ITP pursuant to Fish and Game Code section 2081, subdivision (b) is necessary to comply with CESA.	During construction, in the event Coast horned lizards are detected during surveys and cannot be avoided	Daily	City of Madera – Engineering Department		
<b>BIO-5D</b>	<b>(Mortality Reporting):</b> The Sacramento Field Office of USFWS and the Fresno Field Office of CDFW will be notified in writing within three working days in the case of the accidental death or injury to a Coast horned lizard during construction. Notification must include the date, time, and location of the incident and any other pertinent information.	During construction within three working days in the case of the accidental death or injury to a Coast horned lizard	Daily	City of Madera – Engineering Department		
<b>BIO-6A</b>	<b>(Avoidance):</b> The Project’s construction activities will occur, if feasible, between November 1 and February 28 (outside of bat maternity season) in an effort to avoid impacts to maternity roosts.	During construction	Daily	City of Madera – Engineering Department		
<b>BIO-6B</b>	<b>(Pre-Construction Survey):</b> A pre-construction survey for bats will be performed if construction activities fall between March 1 and September 30 (bat maternity season) and include tree removal. The survey will be focused on trees to be removed during construction and be conducted by a qualified biologist within fourteen (14) days prior to tree removal. All trees will be inspected for potential roosting habitat. This survey can be performed simultaneously with nesting bird surveys.	Prior to construction	Daily, if construction activities fall between March 1 and September 30	City of Madera – Engineering Department		
<b>BIO-6C</b>	<b>(Emergence Survey):</b> An emergence bat survey will be performed if suitable habitat or trees for roosting bats are found during the pre-construction survey. This survey will take place between May and	During construction, if suitable habitat or trees for roosting bats are found during the	Between May and September (outside of bat hibernation) and	City of Madera – Engineering Department		

Mitigation, Monitoring, and Reporting Program						
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	September (outside of bat hibernation) and will be conducted during dusk hours. The survey will be focused on trees to be removed during construction and will be conducted by a qualified biologist within two (2) days prior to tree removal.	pre-construction survey	will be conducted during dusk hours			
<b>BIO-6D</b>	<b>(Establish Buffers):</b> On discovery of any bat roosts near work areas, a qualified biologist should determine appropriate construction setback distances (buffer zones) based on applicable CDFW and/or USFWS guidelines, if appropriate. Construction buffers should be identified with flagging, fencing, or other easily visible means, and should be maintained until the biologist has determined that the roost should no longer be impacted by construction.	During construction, on discovery of any bat roosts near work areas	Daily	City of Madera – Engineering Department		
<b>BIO-6E</b>	<b>(Operational Hours):</b> Construction activities shall be limited to daylight hours to reduce potential impacts to special status bats that could be foraging onsite.	During construction	Daily	City of Madera – Engineering Department		
<b>BIO-7A</b>	<b>(Pre-construction Survey):</b> No less than fourteen (14) days and no more than thirty (30) days prior to the start of construction, a qualified biologist will conduct a pre-construction survey for NPT within the Fresno River and Canals, as well as adjacent to the proposed work area. Pre-construction surveys will be conducted in accordance with the <i>United States Geological Survey Western Pond Turtle (Emys marmorata) Visual Survey Protocol for the Southcoast Ecoregion</i> <sup>47</sup> . Surveys will be conducted outside of winter months (December – February). If no NPT are observed during the pre-construction survey, then construction activities may begin. If construction is delayed or halted for more than 90 days, another pre-construction survey for NPT will be conducted. If the surveys result in the identification of a special status species, the	No less than fourteen (14) days and no more than thirty (30) days prior to the start of construction	Once	City of Madera – Engineering Department		

<sup>47</sup> (United States Geological Survey 2006)

Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
	qualified biologist should determine if appropriate buffers can be implemented to avoid impacts to the individual(s) or if further surveys are required to avoid impacts to potential nesting sites.					
<b>BIO-7B</b>	<b>(Monitor):</b> If species observations are found, a qualified biologist will conduct a pre-activity clearance survey each day and remain onsite to oversee all vegetation clearing and ground disturbing activities conducted within suitable habitat for NPT. If a listed species is observed within the Project area, the biologist will stop work and allow the species to leave the site of its own volition or contact the appropriate regulatory agency (CDFW and/or USFWS) for guidance on how to proceed.	During construction, if species observations are found	Daily	City of Madera – Engineering Department		
<b>BIO-7C</b>	<b>(ITP):</b> In the event NPT are detected during surveys and cannot be avoided, consultation with CDFW is warranted to discuss how to implement the Project and avoid take. If take cannot be avoided, take authorization through the acquisition of an ITP pursuant to Fish and Game Code section 2081, subdivision (b) is necessary to comply with CESA.	Prior to construction	Once	City of Madera – Engineering Department		
<b>BIO-8A</b>	<b>(Pre-construction Survey):</b> A qualified biologist will conduct a preconstruction survey within thirty (30) days prior to the start of construction. The goals of this survey will be to identify if any suitable breeding or upland habitat is present within the APE and an additional 100-foot survey area around the designated APE. If no individuals or suitable habitat is observed, no further mitigation is required.	Prior to construction	Once, within 30-days	City of Madera – Engineering Department		
<b>BIO-8B</b>	<b>(Avoidance):</b> On discovery of any suitable habitat near work areas, the biologist will determine appropriate construction setback distances based on applicable CDFW and/or USFWS guidelines for western spadefoot. Construction buffers will be identified with flagging, fencing, or other easily visible means, and will be maintained until the end of the Project. If appropriate construction buffers	Prior to construction, on discovery of any suitable habitat near work areas	Once	City of Madera – Engineering Department		

Mitigation, Monitoring, and Reporting Program						
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	cannot be maintained a focused survey will be required to determine if western spadefoots are found within the Project area or 100 feet of the Project.					
<b>BIO-8C</b>	<b>(Focused Survey):</b> If appropriate buffers cannot be maintained, a qualified biologist will conduct a focused survey during the known peak breeding months of this species (February-March), prior to the start of construction. Transects will be walked throughout the entire APE and surrounding lands within 100 feet and vantage points will be used to survey for standing water. If no western spadefoots adults or larvae are observed during the survey, then construction activities may begin. If the survey results in the identification of this special status species, a qualified biologist will consult CDFW to determine if appropriate buffers can be implemented to avoid impacts to individual(s) during construction.	Prior to construction, If appropriate buffers cannot be maintained, a qualified biologist will conduct a focused survey during the known peak breeding months of this species (February-March)	During the known peak breeding months of this species (February-March)	City of Madera – Engineering Department		
<b>BIO-8D</b>	<b>(Monitor):</b> If species observations are found, a qualified biologist will conduct a pre-activity clearance survey each day and remain onsite to oversee all vegetation clearing and ground disturbing activities conducted within suitable habitat for western spadefoot. If a listed species is observed within the Project area, the biologist will stop work and allow the species to leave the site of its own volition or contact the appropriate regulatory agency (CDFW and/or USFWS) for guidance on how to proceed.	Prior to construction, if species observations are found	Daily and remain onsite	City of Madera – Engineering Department		
<b>BIO-8E</b>	<b>(Formal Consultation):</b> If western spadefoots are detected during surveys and cannot be avoided, consultation with CDFW is warranted to discuss how to implement the Project and avoid take. If take cannot be avoided, take authorization through the acquisition of an ITP pursuant to Fish and Game	Prior to construction, If western spadefoots are detected during survey	Once	City of Madera – Engineering Department		

Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
	Code section 2081, subdivision (b) is necessary to comply with CESA.					
<b>BIO-9A</b>	<b>(Focused Survey):</b> A qualified botanist/biologist will conduct focused botanical surveys during their specific blooming period or overlapping blooming period. Alkali-sink goldfields (Feb-April), California alkali grass (March-May), hairy Orcutt grass (May-Sept), heartscale (June-July), lesser saltscale (April-Oct), and Sanford’s arrowhead (May-Oct) will be surveyed according to CDFW’s <i>Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities</i> , <sup>48</sup> or current guidance, for areas where ground disturbance will occur and prior to the start of construction.	Prior to construction For areas where ground disturbance will occur	Alkali-sink goldfields (Feb-April), California alkali grass (March-May), hairy Orcutt grass (May-Sept), heartscale (June-July), lesser saltscale (April-Oct), and Sanford’s arrowhead (May-Oct)	City of Madera – Engineering Department		
<b>BIO-9B</b>	<b>(Avoidance):</b> If any suitable habitat for special status plants is identified during the survey, disturbance-free buffers and use of exclusion fencing will be placed around the area as not to disturb the plants or its root system.	During construction	Daily	City of Madera – Engineering Department		
<b>BIO-9C</b>	<b>(Formal Consultation):</b> If rare plant individuals or populations or sensitive natural communities are detected within Project work areas during the survey, and the plants cannot be avoided, the Project proponent will initiate consultation with CDFW and/or USFWS to determine next steps for relocation or to obtain an Incidental Take Permit (ITP).	Prior to construction	Daily	City of Madera – Engineering Department		
<b>Cultural Resources</b>						
<b>CUL-1</b>	<b>(Archaeological Remains):</b> Should archaeological remains or artifacts be unearthed during any stage of project activities, work in the area of discovery shall cease until the area is evaluated by a qualified archaeologist. If mitigation is warranted, the project	During construction	Daily	City of Madera – Engineering Department		

<sup>48</sup> (California Department of Water Resources 2018)



Mitigation, Monitoring, and Reporting Program						
Item	Mitigation Measure	When Monitoring is to Occur	Frequency of Monitoring	Agency Responsible for Monitoring	Method to Verify Compliance	Verification of Compliance
	proponent shall abide by recommendations of the archaeologist.					
<b>CUL-2</b>	<b>(Human Remains):</b> In the event that any human remains are discovered on the Project site, the Madera County Coroner must be notified of the discovery (California Health and Safety Code, Section 7050.5) and all activities in the immediate area of the find or in any nearby area reasonably suspected to overlie adjacent human remains must cease until appropriate and lawful measures have been implemented. If the Coroner determines that the remains are not recent, but rather of Native American origin, the Coroner shall notify the Native American Heritage Commission (NAHC) in Sacramento within 24 hours to permit the NAHC to determine the Most Likely Descendent of the deceased Native American.	During construction	Daily	City of Madera – Engineering Department		
<b>Geology and Soils</b>						
<b>GEO-1</b>	Should paleontological resources be encountered on the Project area, all ground disturbing activities in the area shall stop. A qualified paleontologist shall be contacted to assess the discovery. Mitigation may include monitoring, recording the fossil locality, data recovery and analysis, a final report. Public educational outreach may also be appropriate. Upon completion of the assessment, a report documenting methods, findings, and recommendations shall be prepared and submitted to the City of Madera for review, and (if paleontological materials are recovered) a paleontological repository, such as the University of California Museum of Paleontology.	During Construction	Dail	City of Madera – Engineering Department		
<b>Tribal Cultural Resources</b>						
	See CUL-1					
	See CUL-2					