## PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298



July 20, 2018

Mr. David Thomas 245 Market Street, Room 1054D San Francisco, CA 94105

# RE: Notice to Proceed #2 for the Fulton-Fitch Mountain Reconductoring Project

Dear Mr. Thomas,

Pursuant to the California Environmental Quality Act (CEQA), the California Public Utilities Commission (CPUC) prepared an Initial Study/Mitigated Negative Declaration (IS/MND) for Pacific Gas and Electric Company's (PG&E's) Fulton-Fitch Mountain Reconductoring Project (A. 15-12-005). On December 18, 2017, the CPUC issued a decision to adopt the Final IS/MND and grant PG&E a Permit to Construct the project (Decision D.17-12-012). The CPUC adopted the mitigation measures (MMs) and applicant proposed measures (APMs) identified in the IS/MND as conditions of project approval, as well as a Mitigation Monitoring and Reporting Program (MMRP) to ensure compliance with the MMs and APMs pursuant to Public Resources Code § 21081.6 and § 15097 of the CEQA Guidelines (Section 4 of the Final IS/MND).

A detailed Mitigation Monitoring, Compliance, and Reporting Plan (MMCRP) was developed for the project with direct participation with PG&E staff. The MMCRP defines specific procedures that are part of the adopted program including the Notice to Proceed (NTP) process, which requires PG&E to obtain approval from the CPUC prior to initiating specific actions covered by the CPUC's decision on the project. The purpose of the NTP process is to ensure all pre-construction phase requirements are completed and the proposed actions are consistent with the approved project as specified in the Final IS/MND. Any deviation from the approved project must be authorized by the CPUC through the Minor Project Refinement (MPR) process defined in the MMCRP or the CPUC's Petition for Modification process (CPUC Rule 16.4).

On July 3, 2018, PG&E submitted NTP #2 requesting CPUC authorization to begin all project activities associated with Fitch Mountain Substation, TAP Staging Area (Staging Area [SA] 5), Helicopter landing zone (LZ)-6, Pull sites 10 and 12, Poles 62-109, and associated access roads. A request for MPR #3 was included with the NTP in which PG&E proposes to to move the TAP Staging Area approximately 360 feet northwest of its original location described in the Final IS/MND. A copy of the NTP and MPR request materials are enclosed as Attachment 1.

This letter serves to inform you that the CPUC has reviewed and approved PG&E's requests for NTP #2 and MPR #3 with standard and specific conditions. These conditions are identified in the last section of this letter. The results of the CPUC's review of NTP #2 and the status of applicable pre-construction requirements are provided in Attachment 2, which include updated requirement summary tables from the MMCRP. A review form for MPR #3 is also included in Attachment 3.

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Actions that have been reviewed and approved in this NTP are summarized below. Actions that are pending CPUC review and approval are also identified for clarity.

# Actions Reviewed and Approved in NTP #2

This NTP authorizes PG&E to initiate all project activities described in the Final IS/MND for Fitch Mountain Substation, LZ-6, PS-10, PS-12, Poles 62-109, and the new TAP Staging Area identified in MPR #3, as well as all associated access roads. Actions that were reviewed and authorized in this NTP include:

- Clearing vegetation and grading, installing gravel, and installing water crossings
- Installing erosion controls and sediment controls
- Installing construction fencing and trailers
- Storing vehicles, materials, and equipment
- Helicopter landing and transport operations
- Removing and installing conductor and poles
- Modifying Fitch Mountain Substation

# **Actions Reviewed and Approved in Previous NTPs**

The CPUC's approval of NTP #1 authorized initial site development and staging area activities at LZ-3 and LZ-5, including the associated access roads identified in the Final IS/MND.

# **Actions Pending Review and Approval**

PG&E must submit NTP requests and obtain approval from the CPUC prior to initiating all other actions or working in additional areas that are not described above. Actions described in the IS/MND that have not been authorized include:

- Project activities associated with any staging areas other than TAP Staging Area (SA-5), LZ-3, LZ-5, and LZ-6
- Project activities associated with Poles 1-61 or the Southern Segment
- Project activities associated with any pull sites other than PS-10 and PS-12

#### **Minor Project Refinement #3**

PG&E's request for MPR #3 proposes to move the TAP Staging Area (SA-5), approximately 360 feet to the northwest of its original location described in the Final IS/MND. The new staging area would be approximately 1 acre in size and would be used to store construction materials and equipment, refuel equipment, park vehicles, store construction waste prior to disposal, and host construction workforce meetings. The staging area would be accessed from Bailhache Avenue, and the new access road would be moved approximately 140 feet to the northeast of the original location. The new TAP Staging Area and the new access road are located within the IS/MND study area. The CPUC conducted a CEQA consistency review for MPR #3 following the procedures set forth in the MMCRP. A completed review form and summary of findings is provided in Attachment 3.

The new staging area would be located within an undeveloped agricultural area covered with grass immediately adjacent to the previously approved location identified in the IS/MND. Three sensitive receptors are located within 500 feet of the work area.

The new staging area location is within the IS/MND study area and was surveyed for sensitive and protected environmental resources, including special-status plants and wildlife, water resources, and cultural resources. No special-status species, water resources, or cultural resources were identified within the staging area. One water resource within 500 feet of the staging area may provide suitable aquatic habitat for California red-legged frog and/or foothill-yellow legged frog. The entire staging area is considered potentially suitable upland habitat for California red-legged frog.

Use of the staging area would involve temporary vegetation and ground disturbance, which have the potential to impact suitable habitat for California red-legged frog, agricultural land, and adjacent water resources. Activities at the staging area would be consistent with those described for "limited" staging areas in the IS/MND and would not include helicopter operation. Construction activities within dry vegetation, such as dry grass at the staging area, involves a risk of igniting a wildfire. These impacts were analyzed in the IS/MND and the nature and scope of the impacts associated with MPR #3 would be consistent with the analysis presented in the IS/MND. No new or substantially greater impacts would occur. Mitigation identified in the IS/MND would avoid or reduce significant impacts to less than significant levels.

# **Conditions of Approval**

This NTP is approved with the following standard conditions:

- 1. PG&E shall comply with all APMs and MMs identified in the Final IS/MND; CPUC-approved plans; and other agency authorizations and permits.
- 2. PG&E shall comply with the adopted MMRP and project-specific procedures identified in the MMCRP.
- 3. PG&E shall not deviate from the CPUC-approved project as defined in the Final IS/MND or otherwise authorized by CPUC through additional CEQA review or the MPR process defined in the MMCRP.
- 4. PG&E shall obtain an NTP from CPUC prior to initiating any actions that are not specifically authorized in this or previous NTPs.

This NTP is also approved with the following specific conditions:

- 5. **FAA Congested Area Plan for External Helicopter Loads.** PG&E shall provide CPUC with an FAA-approved plan prior to conducting helicopter activity in congested areas.
- 6. **Sonoma County Building Permit.** PG&E shall provide CPUC a copy of the permit prior to constructing the Fitch Mountain Substation.
- 7. **Sonoma County Transportation Permit.** PG&E shall acquire the permit and provide a copy to CPUC prior to transportation of oversized equipment on the County transportation network.
- 8. **Pending Surveys and Response.** Immediately prior to initiating work activities at each project site, PG&E shall conduct remaining pre-construction surveys and clearances, as specified in applicable APMs and MMs. Pending pre-construction surveys are required for the following resources (refer to Table 4 in Attachment 2):
  - a. California tiger salamander

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- b. American badger
- c. Western pond turtle
- d. California red-legged frog (CRLF)
- e. Foothill yellow-legged frog (FYLF)
- f. Nesting birds
- g. Special-status and protected bats. An acoustic emergence survey must be completed, and the results reported to CPUC, prior to impacting suitable roosts during the breeding season.
- h. Vegetation infected with Sudden Oak Death
- 9. **Geotechnical Investigation Report.** Prior to pole replacement, PG&E shall provide written confirmation that applicable pole recommendations to address geohazards identified in the geotechnical investigation report (Kleinfelder 2017 and 2018) were incorporated into the final project designs.

Please direct any questions related to this NTP to me at 415-703-1966 or <a href="mailto:lisa.orsaba@cpuc.ca.gov">lisa.orsaba@cpuc.ca.gov</a>.

Sincerely,

Lisa Orsaba Project Manager

Energy Division, CEQA Unit

cc: Jo Lynn Lambert, PG&E Attorney

Aaron Lui, Project Manager, Panorama Environmental, Inc.

Attachment 1: PG&E Requests for NTP #2 and MPR #3

Attachment 2: CPUC Review of Pre-Construction Requirements for NTP #2

Attachment 3: CPUC Review of MPR #3

# Attachment 1: PG&E Requests for NTP #2 and MPR #3

#### 7/3/2018

Lonn Maier/Lisa Orsaba California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

Subject: Fulton-Fitch Mountain 60kV Reconductoring Project

Notice to Proceed Request No. 2 (NTP #2) – Fitch Substation, TAP Staging Area, LZ-6,

PS-12, PS-10, and Poles 62-109

Dear Mr. Maier/Ms. Orsaba,

On December 18, 2017, the California Public Utilities Commission (CPUC) issued Decision D1712012, granting Pacific Gas and Electric Company (PG&E) a Permit to Construct the Fulton-Fitch Mountain 60kV Reconductoring Project (project) (Application A.15-12-005) pursuant to General Order 131-D. The CPUC Decision adopted the Final Mitigated Negative Declaration (MND), released in October 2017, in its entirety. The Final MND includes a Mitigation Monitoring, Compliance and Reporting Plan (MMCRP), and the CPUC adopted the MMCRP as part of its approval of the project.

NTP Request Number:	2
Date Submitted to CPUC:	July 3 2018
Requested Approval Date:	July 16 2018
Anticipated Start/End Date	This NTP request is for work at Fitch Substation, TAP Staging Area,
for Proposed Actions:	LZ-6, PS-12, PS-10, Poles 62-109, and associated access routes,
	scheduled to commence on July 16, 2018. The remaining work
	scheduled to commence will be addressed in a separate NTP
	request.

#### Description of the proposed actions requested in the NTP:

PG&E requests that the CPUC issue a Notice to Proceed (NTP #2) for Fitch Substation, TAP Staging Area, LZ-6, PS-12, PS-10, Poles 62-109, and associated access routes. TAP Staging Area is depicted on report maps and addressed in Minor Project Refinement #3 (Attachments 1, 2, 3, 4, and 5). Proposed new access routes are included in the reports provided as Attachments 3-5; please note that MPRs #4 and #5 will be submitted at a later time which will cover new access routes and are not being requested here. Table C-2 from the MMRP is provided as Attachment 2, providing an update on delivery of plans required in the Final ISMND.

# Summary of previously authorized actions (if applicable) as detailed in NTP Authorization Letters:

NTP Authorization Letter #1, Staging Areas LZ-3 (Shiloh Road) and LZ-5 (Windsor Oaks), approved June 18, 2018.

# Summary of actions that have not been proposed or authorized that must be included with future NTP requests:

Replace conductor on a 9.9-mile-long section of the Fulton-Hopland 60-kilovolt (kV) Power Line (Fulton-Hopland line or 60-kV line) between Fulton Substation and Fitch Mountain Substation;

replace poles along 8 miles of the Fulton-Hopland line, and make modifications to Fitch Mountain Substation.

Summary of outstanding requirements and documentation not included with the NTP package, and the anticipated dates it will be provided:

See Attachment 2: Preconstruction Tracking Tables.

# Minor Project Refinements or Temporary Extra Workspace related to the proposed actions:

Minor Project Refinement (MPR) #3 and associated surveys are provided in Attachment 1. A summary of the MPR is provided below.

MPR # 3 – TAP Staging Area: PG&E proposes to move TAP Staging Area (SA-5), approximately 360 feet to the northwest. This staging area would be approximately 1 acre in size, compared to 1.38 acres for the previously approved staging area location. The new staging area would be adjacent to Bailhache Avenue, and therefore, access to the site would be much shorter than the previously approved route. This new staging area would serve the same function as the previously approved one, including storing construction materials and equipment, refueling equipment, parking vehicles and equipment, collecting construction waste prior to disposal, and construction workforce meetings. To allow safer (improved line of sight) access from Bailhache Ave the access has been moved approximately 140 feet to the north/east.

#### **List of Attachments:**

Attachment 1: Minor Project Refinement #3
Attachment 2: Preconstruction Tracking Tables

Attachment 3: Preconstruction Vegetation Memo

Attachment 4: California Red-Legged Frog and Foothill Yellow-Legged Frog Habitat Memo

Attachment 5: Seasonal Watercourse Avoidance and Crossing Plan



#### Part A: Request Description

# **MPR** Request

Request Number: 03

Date Requested: July 3, 2018

Proposed Duration/ Timing of Use:

June 1, 2018 to January 31, 2019 Monday-Sunday; 24 hours/day

Location: TAP Staging Area, Bailhache Avenue

1 square acre in size

# Proposed Action(s)

PG&E proposes to move TAP Staging Area (SA-5), approximately 360 feet to the northwest of its original location as shown on figures in the Final ISMND. This staging area would be approximately 1 acre in size, compared to 1.38 acres for the previously approved staging area location. The new staging area would be adjacent to Bailhache Avenue, and therefore, access to the site would be shorter than the previously approved route. To allow safer (improved line of sight) access from Bailhache Ave the access has been moved approximately 140 feet to the north/east. This new staging area would serve the same function as the previously approved one, including storing construction materials and equipment, refueling equipment, parking vehicles and equipment, collecting construction waste prior to disposal, and construction workforce meetings.

#### Purpose(s)

The staging area has been relocated at the request of the neighboring parcel. The new location will be out of sight of their wedding venue.

# Part B: Existing Conditions

**Existing Land Uses:** Private open space.

Surrounding Land Uses: Residential, vineyard, pasture

Sensitive Receptors within 500 feet:

There are 2 residences located within 500 feet of the proposed access route.

Environmental Recourses within 500 feet:

There is one (1) water feature within 500 feet that could potentially support California red-legged frog during non-breeding stages: C-3 (seasonal

watercourse).

Mitigation considerations are discussed below in Part E.

Has landowner approval been granted?

□ No □ N/A

Landowner: Minaglia Partners; 1115 Bailhache Avenue, Healdsburg, CA 95448

#### Surveys

List any new survey reports under Part D, attach a copy, and describe relevant survey details under the applicable resource category listed in the Part E.

Biological Resources. Were all sites associated with the proposed action(s) surveyed for biological resources with the potential to occur in the area? If so, were survey results positive or negative? Were surveys completed during the appropriate timing and season to detect resources? If not, describe under the applicable resource category in Part E.

The proposed access route was surveyed during vegetation surveys in March 2018. The work area is composed entirely of non-native grassland habitat. Vegetation may need to be mowed to prepare the site for construction. Survey results are being submitted separately.

Cultural Resources. Were all sites associated with the proposed action(s) surveyed for cultural resources (records search and pedestrian survey)? If so, were survey results positive or negative?

Cultural resources surveys were not conducted for this staging area as no grading will occur and the work area is within the APE in the ISMND.

Jurisdictional Waters. Were all sites associated with the proposed action(s) surveyed for hydrologic resources? If so, were survey results positive or negative?

The proposed staging area was surveyed for hydrological resources; none occur within the staging area.

Part C: Permits, Agency Approvals, and Environmental Protection Measures List any new permits or agency approvals under Part D, attach a copy, and describe relevant details under the applicable resource category listed in Part E.

Have all required permits, permit amendments/authorizations, or agency approvals been issued by resource agencies with applicable jurisdiction? Describe if necessary.

No: Encroachment permit for traffic control on Bailhache Rod will need to be obtained prior to using the new staging area.

Would the proposed action(s) conflict with permit conditions or agency approvals? Describe if necessary.

No

Would the proposed action(s) conflict with project applicant proposed measures or mitigation measures listed in Final Initial Study/Mitigated Negative Declaration (IS/MND)? Describe if necessary.

No

#### Part D: Attached Materials

List any attached materials (e.g. surveys, maps, photos, memos, agency authorizations, etc.) below. Materials should be attached to the end of this form.

Applicable reports are being submitted separately. The following reports pertain to this MPR:

Fulton-Fitch Mountain Reconductoring Project: Seasonal Watercourse Avoidance and Crossing Plan, Stantec. 2018.

Fulton-Fitch Mountain Reconductoring Project: California Red-Legged Frog and Foothill Yellow-Legged Frog Habitat Maps, Stantec, 2018.

Fulton-Fitch Mountain Reconductoring Project: Pre-Construction Vegetation Report, Stantec, 2018.

#### Part E: Final IS/MND Consistency Summary

Complete the Final IS/MND Consistency Summary below and answer the consistency questions for each resource category. Include a description and justification below each resource category as necessary. The

consistency questions were developed using the CEQA Checklist provided in the Final IS/MND. Refer to the Final IS/MND for the details on the project impact evaluation.

Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact on:	No Change	Potentially Significant Change	N/A
Aesthetics (e.g., damage scenic resources or vistas, degrade the existing visual character of the site and its surroundings, or create sources of light or glare)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant with Mitigation			
The proposed staging area would include the same activities as to Construction materials and construction equipment storage and limited to the duration of construction. Preparation of the propose and installation of geotextile fabric and gravel and would be visit Bailhache Avenue throughout the construction period. The propose any impacts to aesthetics that haven't already been discussed in would not result in a new impact or increase the severity of a pre-	staging woul ed staging ar ble to the pub osed access r o the ISMND. T	d be temporary ea may require blic from adjace oute would not The proposed st	and mowing ent result in aging area
Agriculture and Forestry Resources (e.g., convert Farmland to nonagricultural use, or create a conflict with existing agricultural zoning or a Williamson Act)?  Final IS/MND evaluation: Less than Significant with Mitigation	$\boxtimes$		
The staging area may result in temporary impacts during construction of farmland to non-agricultural land. The staging area construction and would not result in a new impact or increase the impact on agriculture or forestry resources.	would be re	stored following	
Air Quality (e.g. produce additional emissions, or expose sensitive receptors to additional pollutants)?  Final IS/MND evaluation: Less than Significant	$\boxtimes$		
Use of the proposed access route could result in the creation of fit AIR-1 would ensure that impacts from fugitive dust would be minit remain less than significant. The proposed refinement would not reverity of a previously analyzed impact on air quality.	mized and im	pacts to air qua	ality would
Biological Resources (e.g., cause an adverse effect to sensitive or special-status species, or impact riparian, wetland, or any other sensitive habitat, or conflict with local policies or ordinances protecting biological resources)?  Final IS/MND evaluation: Less than Significant with Mitigation			
The access route is located in proximity to the area analyzed in the present in water feature C-3 and Mitigation Measures from the Fir location. No additional adverse effects would be created.			
Cultural and Tribal Cultural Resources (e.g., cause adverse change to a historical, archeological, or tribal cultural resource)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant with Mitigation			
No new excavations or digging would be performed in the propostaging area would not result in a new impact or increase the sevon cultural or tribal resources.			
Geology and Soils (e.g., cause or expose people or structures to geologic or soil hazards, including erosion or loss of topsoil)?	$\boxtimes$		

Final IS/MND evaluation: Less than Significant with Mitigation			_
The proposed staging area would not require any earthmoving active of topsoil or increase erosion. Areas which contain loose soils would be and/or gravel. The staging area would be restored following constructions or increase the severity of a previously analyzed impact on general severity.	oe stabilize ction and	d with geote would not res	xtile fabric
Greenhouse Gas Emissions (e.g., generate greenhouse gas			
emissions, either directly or indirectly, that may have a significant impact on the environment?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant			
The proposed staging area would not result in an increase in the leve equipment, and would be consistent with the estimates provided in 2 would ensure that any impacts from emissions would remain less th area would not result in a new impact or increase the severity of a p greenhouse gas emissions.	the ISMND an significa	. APM AIR-2 a ant. The prop	d APM GHG- osed staging
Hazards and Hazardous Materials (e.g., create or increase the exposure of people or structures to hazardous materials or wildland fires, involve the use of additional hazardous materials or equipment, or interfere with an adopted emergency plan)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant with Mitigation			
Hazardous materials (such as fuels and oils) may be transported to a area and would be consistent with the types of materials analyzed ir area does not contain any known hazardous material sites. The stagicular could pose a fire risk; however, this risk is consistent with the previousl work areas in the vicinity and throughout the project that are placed implement the Fire Prevention Plan prepared for the project as well a prevent wildland fires. APM HM-3, APM HM-4, MM Hazards-1, and MM impacts from hazards and hazardous materials are less than significate staging area would not result in a new impact or increase the severity on hazards and hazardous materials.	n the ISMNI ng area is y approve d in grassla as addition Il Hazards- ant, with mi	D. The proposition of the propos	sed staging grassland and ea, and other uld practices to re that proposed
Hydrology and Water Quality (e.g., degrade water quality, discharge waste or sediment, deplete groundwater, alter the existing drainage pattern, create additional runoff water or polluted runoff, place structures in a 100-year flood hazard area, or expose people or structures to a significant risk involving flooding)?  Final IS/MND evaluation: Less than Significant with Mitigation  The proposed staging area requires a crossing ditch C-03 (listed in the Crossing "WC-9". The ditch will be crossed using a steel plate to spar MM Hydrology-1, MM Hydrology-2 and the approved Stormwater Poprevent any impacts to this water feature. The proposed staging area	the crossi llution and	ng. The imple Prevention P	mentation of lan would
or increase the severity of a previously analyzed impact on hydrolog			
Land Use (e.g., conflict with a land use plan, policy, or regulation of an agency with jurisdiction over the project, or conflict with a habitat conservation plan)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant with Mitigation			
The proposed staging area is located on private property and would increase the severity of a previously analyzed impact on land use ar			act or
Noise (e.g., expose sensitive receptors to additional noise or vibration)?  Final IS/MND evaluation: Less than Significant with Mitigation	$\boxtimes$		
That is write evaluation, less than significant with with witingation			

Activities associated with staging area use area are consistent with those discussed in the ISMND.

Although there are sensitive receptors within 500 feet, impacts to receptors has been analyzed for the previously approved staging area, and with the implementation of MM Noise-1, the proposed staging area would not result in a new impact or increase the severity of a previously analyzed impact on noise. Paleontological Resources (e.g., cause adverse change to a paleontological resource or site or unique geologic feature)?  $\boxtimes$ П Final IS/MND evaluation: Less than Significant with Mitigation No excavations or digging would be performed along the staging area. The proposed staging area would not result in a new impact or increase the severity of a previously analyzed impact on paleontological resources. Population and Housing (e.g., induce substantial population growth in an area, or displace substantial numbers of people  $\boxtimes$ or housing)? Final IS/MND evaluation: Less than Significant The proposed staging area would not result in any impacts to population and housing, and would be consistent with the analysis of the ISMND. The proposed staging area would not result in a new impact or increase the severity of a previously analyzed impact on population and housing. Recreation (e.g., increases the use of, or cause adverse effects to, parks or other recreational facilities)?  $\boxtimes$ Final IS/MND evaluation: Less than Significant with Mitigation The proposed staging area is located on private land, and would therefore have no impact on recreation facilities or parks. The proposed staging area would not result in a new impact or increase the severity of a previously analyzed impact on recreation. Transportation and Traffic (e.g., increase traffic congestion or degrade performance of the circulation system, taking into account all modes of transportation, or increase hazards due Xto a design feature)? Final IS/MND evaluation: Less than Significant with Mitigation The proposed staging area would not result in a new impact or increase the severity of a previously analyzed impact on transportation and traffic. To allow safer (improved line of sight) access from Bailhache Ave the access has been moved approximately 140 feet to the north/east. Utilities and Public Services (e.g., result in construction of new, or expansion of existing, water facilities, stormwater drainage facilities, require additional water entitlements, or creation of Xnew solid waste disposal needs)? Final IS/MND evaluation: Less than Significant with Mitigation The proposed access route would not include the construction of new, or expand existing, water facilities, stormwater drainage facilities, require additional water entitlements, or creation of new solid waste disposal needs.



To: Dave Thomas From: Sheryl Creer, Botanist

Pacific Gas and Electric Company Stantec Consulting, Inc.

File: Fulton-Fitch Mountain Reconductoring Date: July 3, 2018

Project

Reference: Fulton-Fitch Mountain Reconductoring Project: Pre-Construction Vegetation Report

#### INTRODUCTION

Pacific Gas and Electric (PG&E) is conducting the Fulton-Fitch Mountain Reconductoring Project (Project) to reinforce the electric transmission and distribution system in Sonoma County by replacing existing conductor (reconductoring) on two power lines pursuant to California Public Utilities Commission (CPUC) General Order (GO) 131-D, Section III.B. PG&E is replacing the conductor on a 9.8-mile-long section of the Fulton-Hopland 60-kilovolt (kV) Power Line (Fulton-Hopland line or 60-kV line) between Fulton Substation and Fitch Mountain Substation. PG&E is also replacing poles along 8 miles of the Fulton-Hopland line and making modifications to Fitch Mountain Substation (Figure 1). The project is comprised of two segments: the Southern Segment, which extends from Fulton Substation to Shiloh Ranch Regional Park, and the Northern Segment, which extends between Shiloh Ranch Regional Park and the Fitch Mountain #1 Tap 60-kV Power Line (Fitch Mountain #1 Tap).

Mitigation Measure (MM) Biology-7 of the Final Initial Study/Mitigated Negative Declaration (IS/MND) issued by the CPUC for the Project requires the preparation of a Revegetation, Restoration, and Monitoring Plan and includes parameters for performance standards, monitoring procedures, and reporting. In accordance with MM Biology-7, PG&E has prepared this Pre-Construction Vegetation Report for the Project. This report includes documentation and quantification of baseline vegetation conditions and the anticipated temporary impacts associated with Project work areas. This report also documents vegetation conditions in adjacent areas that will be used as reference sites for post-construction monitoring.

PG&E previously submitted an abbreviated report focusing on staging areas at Landing Zone 3 and Landing Zone 5 (Stantec, 2018a). This report covers the entire Project area, including previously submitted locations (Figure 2).

# **EXISTING CONDITIONS**

Surveys to map vegetation within the project area were conducted in 2011 and 2012, as reported in the IS/MND, and in 2017 to support the rare plant survey report. The survey area, which encompasses approximately 477.5 acres, is defined as a 500-foot wide corridor extending 250-feet on either side of the project alignment. Access routes and landing zones/staging areas located outside of the project alignment were also included in the IS/MND. Previously mapped vegetation types in the natural/semi-natural category were classified according to the Manual of California Vegetation, 2nd Edition (MCV2) (Sawyer et. al, 2009), with the exception of Mixed North Slope Cismontane Woodland. Mixed North Slope Cismontane Woodland is not recognized in the MCV2. However, all communities were mapped to the extent necessary to determine presence or absence of sensitive natural communities (i.e. no sensitive natural communities have been subsumed into this vegetation type) (Sandomire pers. communication, 2018).



Detailed descriptions of each land cover type are provided in the project Revegetation, Restoration, and Monitoring Plan (Stantec, 2018b).

#### **METHODS**

The methods for this survey are outlined in the Revegetation, Restoration, and Monitoring Plan approved by the CPUC on June 13, 2018 (Stantec, 2018b). CPUC-approved Stantec botanist John Holson conducted surveys of Project locations on March 19, 20, 21, 22, and 23, 2018. All project locations identified in the Final IS/MND were surveyed, with the exception of locations that have been removed from the Project. During the surveys, previously mapped vegetation types were confirmed or refined according to the Manual of California Vegetation, 2nd Edition (MCV2) (Sawyer et. al, 2009). Mixed North Slope Cismontane Woodland was preserved as a vegetation community for consistency with the IS/MND.

#### **RESULTS**

A summary of temporary impacts by vegetation type is provided in Table 2, and detailed vegetation information for each Project work area is included in Table 3. No special-status plant species were detected within any Project work areas or access roads.

Table 1: Summary of Temporary Impacts to Vegetation

Variation Community	Impacts (acres)
Vegetation Community	Temporary
Non-Native Grassland	12.7022
Coast Live Oak Woodland	2.3443
Mixed North Slope Cismontane Woodland	5.2503
Oregon Oak Woodland	0.5687
California Bay Woodland	0.0557
Fremont Cottonwood Forest	0.1687
Total	21.0899



Table 2: Vegetation Impacts and Baseline Conditions by Work Area

			Herk	paceous Str	atum			Shrub					
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
Pole Work Sit	es												
Pole (P) -3	Non-native grassland	80	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	0.0704	
P-4	Non-native grassland	75	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	20	N/A	N/A	N/A	N/A	N/A	0.1352	
P-5	Non-native grassland	80	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	Acres included in PS-2	
P-6	Non-native grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	Acres included in PS-2	
P-7a	Non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus Festuca perennis	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	0.0002	
P-7b	Non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus Festuca perennis	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	0.0806	
P-7c	Non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus Festuca perennis	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	0.0425	
P-8	Non-native grassland	95	Phalaris aquatica Avena fatua Festuca perennis	0	Centaurea solstitialis Phalaris aquatica	26	N/A	N/A	N/A	N/A	N/A	0.0518	
P-9, P-10, P- 11, Portion of Access to Landing Zone (LZ-1)	Non-native grassland	90	Bromus diandrus Bromus hordeaceus Avena fatua	0	Bromus diandrus Phalaris aquatica	33	N/A	N/A	N/A	N/A	N/A	0.1742	



			Herk	paceous Str	atum			Shrub	/Tree Stratu	ım			
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
P-12	Non-native grassland	90	Bromus diandrus Bromus hordeaceus Avena fatua	0	Bromus diandrus	23	N/A	N/A	N/A	N/A	N/A	0.2196	
P-13	Fremont Cottonwood Riparian Forest	80	Silybum marianum Avena fatua	0	Bromus diandrus Conium maculatum Silybum marianum	30	30	Fraxinus latifolia Populus fremontii	25	Nicotiana glauca	1	0.1687	
P-15	Non-native Grassland	98	Avena fatua Trifolium repens Festuca perennis	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Acres included in AR-B05 and WS-15	
P-23	Coast Live Oak Woodland	20	Avena fatua Elymus glaucus	5	Carduus pycnocephalus Conium maculatum	4	95	Quercus agrifolia Arbutus menziesii Genista monspessulana	65	Genista monspessulana Rubus armeniacus	30	0.0534	
P-25	Coast Live Oak Woodland	80	Avena fatua Bromus diandrus	10	Bromus diandrus	25	90	Quercus agrifolia	90	N/A	N/A	0.1770	
P-26	Coast Live Oak Woodland	75	Avena fatua Bromus diandrus	10	Bromus diandrus	20	85	Quercus agrifolia	85	N/A	N/A	0.0976	
P-27, Access Route (AR-) A05, Work Site (WS-) A06, WS- A05, WS-27	Coast Live Oak Woodland	82	Avena fatua Bromus diandrus	12	Bromus diandrus	25	90	Quercus garryana Quercus agrifolia	90	N/A	N/A	0.0657	
P-28, WS-28	Mixed North Slope Cismontane Woodland	60	Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	20	75	Quercus garryana Quercus agrifolia	75	N/A	N/A	0.2759	
P-29	Non-native grassland	95	Leontodon saxatilis Bromus diandrus	5	Bromus diandrus	25	30	Quercus agrifolia	30	N/A	N/A	0.1246	
P-30	Coast Live Oak Woodland	75	Avena fatua Bromus diandrus	20	Bromus diandrus	30	85	Quercus agrifolia	85	N/A	N/A	0.1276	
P-31	Coast Live Oak Woodland	75	Avena fatua Bromus diandrus	20	Bromus diandrus	25	6	Quercus garryana Quercus agrifolia	6	N/A	N/A	0.0320	
P-32	Mixed North Slope Cismontane Woodland	60	Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	20	25	Quercus garryana	25	N/A	N/A	0.1679	
P-33	Non-native grassland	90	Bromus hordeaceus Elymus glaucus	6	Bromus diandrus Rumex acetosella	8	N/A	N/A	N/A	N/A	N/A	0.1793	



			Herl	rbaceous Stratum				Shrub					
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
P-34	Non-native grassland	75	Bromus diandrus	26	Bromus diandrus	35	15	Quercus agrifolia Quercus garryana Arctostaphylos sp.	15	N/A	N/A	0.1793	
P-35	Mixed North Slope Cismontane Woodland	90	Avena fatua Bromus hordeaceus	9	Bromus diandrus Cynosurus echinatus	16	55	Quercus douglasii Quercus agrifolia	55	N/A	N/A	0.1246	
P-36	Mixed North Slope Cismontane Woodland	80	Avena fatua Briza maxima Bromus hordeaceus	18	Cynosurus echinatus	1	15	Quercus agrifolia	15	N/A	N/A	0.1178	
P-37	Mixed North Slope Cismontane Woodland	35	Bromus diandrus Cynocurus echinatus	1	Bromus diandrus Cynosurus echinatus	18	80	Quercus agrifolia	80	N/A	N/A	0.1042	
P-38	Mixed North Slope Cismontane Woodland	50	Avena fatua Bromus hordeaceus	6	Cynocurus echinatus	2	70	Quercus agrifolia	70	N/A	N/A	0.1103	
P-39	Mixed North Slope Cismontane Woodland	55	Avena fatua Bromus hordeaceus	2	Bromus diandrus	10	70	Quercus agrifolia	70	N/A	N/A	0.0938	
P-40	Mixed North Slope Cismontane Woodland/	65	Avena fatua Bromus diandrus Bromus hordeaceus	0	Bromus diandrus Centaurea solstitialis Cynocurus echinatus	30	50	Quercus agrifolia	50	N/A	N/A	0.0737	
P-41	Mixed North Slope Cismontane Woodland	80	Avena fatua Bromus diandrus Bromus hordeaceus	11	Bromus diandrus Cynosurus echinatus	21	55	Quercus agrifolia	55	N/A	N/A	0.2113	
P-42	Mixed North Slope Cismontane Woodland	80	Avena fatua Bromus hordeaceus	0	Bromus diandrus	10	50	Quercus agrifolia Quercus douglasii	50	N/A	N/A	0.1734	
P-43	Mixed North Slope Cismontane Woodland	70	Avena fatua Bromus hordeaceus	0	Bromus diandrus	10	40	Quercus agrifolia Quercus douglasii	40	N/A	N/A	0.1006	
P-44	Mixed North Slope Cismontane Woodland	95	Avena fatua Bromus hordeaceus	3	Bromus diandrus	10	55	Quercus agrifolia Quercus douglasii	55	N/A	N/A	0.0927	
P-45	Mixed North Slope Cismontane Woodland	90	Avena fatua Briza maxima Bromus hordeaceus Erodium botrys	0	Bromus diandrus	5	30	Quercus agrifolia Quercus garryana	30	N/A	N/A	0.1197	
P-46	Mixed North Slope Cismontane Woodland	90	Briza maxima Bromus hordeaceus	1	Bromus diandrus	5	20	Quercus agrifolia	20	N/A	N/A	0.1161	
P-47	Mixed North Slope Cismontane Woodland	80	Bromus diandrus Bromus hordeaceus	4	Bromus diandrus	20	30	Quercus agrifolia Quercus kellogii	30	N/A	N/A	0.1180	



			Herl	oaceous Str	ratum			Shrub					
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
P-48	Mixed North Slope Cismontane Woodland	80	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	40	Quercus agrifolia	20	Genista monspessulana	8	0.1274	
P-50	Mixed North Slope Cismontane Woodland	75	Avena fatua Bromus hordeaceus	0	Bromus diandrus	10	90	Arbutus menziesii Quercus agrifolia Umbellularia californica	80	Genista monspessulana	10	0.2421	
P-51	Non-native grassland	95	Avena fatua Bromus hordeaceus Festuca arundinacea	15	Carduus pycnocephalus Centaurea solstitialis Festuca arundinacea	25	20	Quercus agrifolia	20	N/A	N/A	0.3180	
P-52	Non-native grassland	85	Avena fatua Bromus hordeaceus	0	Bromus diandrus	10	23	Quercus agrifolia	20	Genista monspessulana	3	0.0704	
P-53	Mixed North Slope Cismontane Woodland	93	Avena fatua Bromus hordeaceus Festuca perennis	0	Cynosurus echinatus	3	25	Aesculus californica Quercus agrifolia Quercus kellogii	25	N/A	N/A	0.1016	
P-54	Mixed North Slope Cismontane Woodland	95	Briza maxima Bromus diandrus Bromus hordeaceus	7	Bromus diandrus Cynosurus echinatus	30	65	Quercus agrifolia Quercus garryana	65	N/A	N/A	0.3131	
P-55	Mixed North Slope Cismontane Woodland	90	Avena fatua Briza maxima Bromus hordeaceus	6	Cynosurus echinatus	5	63	Quercus agrifolia	40	Genista monspessulana	5	0.1241	
P-56	Oregon Oak Woodland	80	Briza maxima Bromus hordeaceus	16	N/A	N/A	40	Quercus garryaa	40	N/A	N/A	0.1239	
P-57	Mixed North Slope Cismontane Woodland	75	Bromus diandrus	10	Bromus diandrus Carduus pycnocephalus	65	69	Quercus agrifolia	65	N/A	N/A	0.1182	
P-58	Coast Live Oak Woodland	95	Briza maxima Bromus diandrus Bromus hordeaceus Trifolium hirtum	7	Bromus diandrus Cynosurus echinatus	30	56	Quercus agrifolia Quercus kellogii	56	N/A	N/A	0.0738	
P-59	Mixed North Slope Cismontane Woodland	75	Avena fatua Bromus diandrus Bromus hordeaceus	9	Bromus diandrus	20	65	Quercus agrifolia Quercus garryana	65	N/A	N/A	0.1162	
P-60	Mixed North Slope Cismontane Woodland	70	Briza maxima Bromus hordeaceus	18	N/A	N/A	55	Arctostaphylos canescens	55	N/A	N/A	0.1237	



			Herl	oaceous Str	atum			Shrub					
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
P-61	Mixed North Slope Cismontane Woodland	50	Bromus hordeaceus	25	N/A	N/A	65	Arctostaphylos sp. Quercus garryana	65	N/A	N/A	0.1086	
P-62	Mixed North Slope Cismontane Woodland	60	Avena fatua Bromus diandrus Bromus hordeaceus	9	Bromus diandrus	20	60	Quercus garryana	60	N/A	N/A	0.2992	
P-63	Non-native grassland	90	Avena fatua	11			N/A	N/A	N/A	N/A	N/A	0.1662	
P-64	Non-native grassland	70	Avena fatua Briza maxima	0	Bromus diandrus	15	N/A	N/A	N/A	N/A	N/A	0.0673	
P-65	Non-native grassland	70	Avena fatua Trifolium subterraneum	0	Bromus diandrus	10	N/A	N/A	N/A	N/A	N/A	0.1219	
P-66	Coast Live Oak Woodland	60	Trifolium subterraneum	0	Bromus diandrus	10	65	Quercus agrifolia Quercus douglasii	65	N/A	N/A	0.1233	
P-67	Coast Live Oak Woodland	80	Avena fatua Briza maxima Cynosurus echinatus	5	Cynosurus echinatus	25	35	Quercus agrifolia	35	N/A	N/A	0.1291	
P-68	Mixed North Slope Cismontane Woodland	75	Avena fatua Bromus hordeaceus	15	N/A	N/A	65	Quercus agrifolia Quercus garryana	65	N/A	N/A	0.1246	
P-69	Non-native grassland	70	Avena fatua Bromus hordeaceus	5	Bromus diandrus	5	50	Quercus agrifolia	50	N/A	N/A	0.1296	
P-70	Mixed North Slope Cismontane Woodland	50	Bromus hordeaceus	6	Bromus diandrus	10	65	Quercus agrifolia Quercus kelloggii	65	N/A	N/A	0.2391	
P-71	Coast Live Oak Woodland	70	Avena fatua Bromus hordeaceus	8			47	Quercus agrifolia	47	N/A	N/A	0.1133	
P-72	Non-native Grassland	97	Avena fatua Bromus hordeaceus Festuca perennis Vicia sativa	0	Bromus diandrus	12	N/A	N/A	N/A	N/A	N/A	0.0875	
P-73	Non-native Grassland	90	Avena fatua Festuca perennis	0	Bromus diandrus Phalaris aquaticus	15	<1	Rubus armeniacus	<1	Rubus armeniacus	<1	0.0217	
P-74	Mixed North Slope Cismontane Woodland	70	Avena fatua Bromus hordeaceus Chlorogalum pomderidianum	22	Bromus diandrus	15	75	Quercus agrifolia Quercus garryana	75	N/A	N/A	0.1149	



			Herk	oaceous Str	atum		Shrub/Tree Stratum						
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
P-75	Non-native Grassland	80	Avena fatua Bromus hordeaceus Chlorogalum pomderidianum	5	Bromus diandrus	15	N/A	N/A	N/A	N/A	N/A	0.0668	
P-76	Non-native Grassland	75	Avena fatua Bromus hordeaceus Chlorogalum pomderidianum	10	Bromus diandrus Cynoserus echinatus	25	N/A	N/A	N/A	N/A	N/A	0.1246	
P-77	Non-native grassland	90	Avena fatua	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1780	
P-78	Non-native grassland	90	Avena fatua Vicia sativa	5	Carduus pycnocephalus	3	N/A	N/A	N/A	N/A	N/A	0.0699	
D 70	California Bay Woodland	75	Avena fatua Bromus hordeaceus Chlorogalum pomeridianum Festuca perennis Vicia sativa	15	Bromus diandrus	15	25	Umbellularia californica	25	N/A	N/A	0.0557	
P-79	Coast Live Oak Woodland	75	Avena fatua Bromus hordeaceus Chlorogalum pomeridianum Festuca perennis Vicia sativa	15	Bromus diandrus	15	5	Quercus agrifolia	5	N/A	N/A	0.0684	
P-80	Non-native grassland	75	Avena fatua Bromus diandrus Bromus hordeaceus	1	Bromus diandrus Carduus pycnocephalus	35	30	Quercus agrifolia	30	N/A	N/A	0.1319	
P-81	Non-native grassland	90	Avena fatua Erodium botrys Trifolium subterraneum	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1700	
P-82	Non-native grassland	70	Avena fatua	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1255	
P-83	Non-native grassland	90	Avena fatua Erodium botrys Trifolium subterraneum	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1187	



			Herk	paceous Str	atum			Shrub	/Tree Stratu	ım			
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
P-84	Non-native grassland	90	Avena fatua Carduus pycnocephalus	4	Carduus pycnocephalus	20	N/A	N/A	N/A	N/A	N/A	0.1386	
P-85	Non-native grassland	90	Avena fatua Bromus hordeaceus Trifolium subterraneum	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1340	
P-86	Non-native grassland	75	Avena fatua Trifolium subterraneum	0	Carduus pycnocephalus	1	N/A	N/A	N/A	N/A	N/A	0.1370	
P-87	Non-native grassland	90	Avena fatua Trifolium subterraneum	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1193	
P-88	Non-native grassland	85	Bromus hordeaceous Elymus caput-medusae	10	Elymus caput-medusae Carduus pycnocephalus	30	N/A	N/A	N/A	N/A	N/A	0.0784	
P-89	Non-native grassland	90	Avena fatua Bromus hordeaceus	10	Bromus diandrus	10	35	Quercus agrifolia	35	N/A	N/A	0.0711	
P-90	Coast Live Oak Woodland	85	Avena fatua Bromus diandrus Bromus hordeaceus	0	Bromus diandrus	25	70	Quercus agrifolia Umbellularia californica	70	N/A	N/A	0.0821	
P-91	Coast Live Oak Woodland	85	Avena fatua Bromus diandrus Bromus hordeaceus	1	Bromus diandrus	30	50	Quercus agrifolia Umbellularia californica	50	N/A	N/A	0.0693	
P-92, P-105, P-109	Coast Live Oak Woodland	85	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	30	60	Quercus agrifolia Umbellularia californica	60	N/A	N/A	0.4232	
P-104	Non-native grassland	88	Avena fatua Bromus hordeaceus Festuca perennis	8	Bromus diandrus	10	N/A	N/A	N/A	N/A	N/A	0.1793	
Access Route	es					<u> </u>				1			
AR-A05 - Overland	Coast Live Oak woodland	85	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	85	Quercus agrifolia	85	N/A	N/A	0.0704	
AR-A10 - Overland	Non-native grassland	67	Avena fatua Bromus diandrus	22	Bromus diandrus Carduus pycnocephalus	26	N/A	N/A	N/A	N/A	N/A	0.1352	
AR-A13 - Overland	Mixed North Slope Cismontane Woodland	80	Avena fatua Bromus diandrus Bromus hordeaceus	7	Bromus diandrus	10	85	Quercus agrifolia Quercus garryana	85	N/A	N/A	Acres included in PS-2	



			Heri	baceous Str	atum			Shrub					
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
AR-A14a - Overland	Mixed North Slope Cismontane Woodland	50	Bromus hordeaceus	6	Bromus diandrus	10	65	Quercus agrifolia Quercus kelloggii	65	N/A	N/A	Acres included in PS-2	
AR-A17 - Overland	Non-native grassland	70	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	10	N/A	N/A	N/A	N/A	N/A	0.0002	
AR-A19 - Overland	Mixed North Slope Cismontane Woodland	95	Avena fatua Bromus hordeaceus	3	Bromus diandrus	10	55	Quercus agrifolia Quercus douglasii	55	N/A	N/A	0.0806	
AR-A20 - Overland	Mixed North Slope Cismontane Woodland	90	Avena fatua Briza maxima Bromus hordeaceus Erodium botrys	0	Bromus diandrus	5	15	Quercus agrifolia Quercus garryana	15	N/A	N/A	0.0425	
AR-A21 - Overland	Mixed North Slope Cismontane Woodland	90	Briza maxima Bromus hordeaceus	1	Bromus diandrus	5	25	Quercus agrifolia Quercus garryana	25	N/A	N/A	0.0518	
AR-A22 - Overland	Mixed North Slope Cismontane Woodland	82	Avena fatua Bromus diandrus Bromus hordeaceus	4	Bromus diandrus Cynosurus echinatus	30	70	Quercus agrifolia Quercus garryana	70	N/A	N/A	0.1742	
AR-A23a - Overland	Non-native grassland	80	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	40	Quercus agrifolia	40	N/A	N/A	0.2196	
AR-A24 - Overland	Non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus	8	Bromus diandrus	30	20	Quercus agrifolia Quercus garryana	20	N/A	N/A	0.1687	
AR-A27 - Overland	Non-native grassland	90	Avena fatua Briza maxima Bromus hordeaceus	6	Cynosurus echinatus	5	25	Quercus agrifolia	25	Genista monspessulana	3	Acres included in AR-B05 and WS-15	
AR-A28 - Overland	Coast Live Oak Woodland	55	Bromus hordeaceus	10	Cynosurus echinatus	10	80	Quercus agrifolia	80	N/A	N/A	0.0534	
AR-A32 Turnaround	Mixed North Slope Cismontane Woodland	50	Bromus hordeaceus	25	N/A	N/A	65	Arctostaphylos sp. Quercus garryana	65	N/A	N/A	0.1770	
AR-A32a - Overland	Oregon Oak Woodland	90	Avena fatua Bromus diandrus Bromus hordeaceus	0	Cynosurs echinatus	25	85	Quercus garryana	85	N/A	N/A	0.0976	
AR-A34 - Overland	Non-native Grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus	8	Bromus diandrus Cynosurus echinatus	22	N/A	N/A	N/A	N/A	N/A	0.0657	



	Vegetation Community	Herbaceous Stratum						Shrub					
Work Area		Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
AR-A35 - Overland	Mixed North Slope Cismontane Woodland	90	Briza minor Bromus hordeaceus Cynosurus echinatus	10	Bromus diandrus Cynosurus echinatus	30	55	Quercus agrifolia Quercus garryana	55	N/A	N/A	0.2759	
AR-A37 - Overland	Non-native grassland	75	Avena fatua Bromus diandrus Bromus hordeaceus	8	Bromus diandrus	25	50	Quercus agrifolia Quercus garryana	50	N/A	N/A	0.1246	
AR-A38 - Overland	Mixed North Slope Cismontane Woodland	78	Avena fatua Bromus diandrus Bromus hordeaceus	10	Bromus diandrus	25	55	Quercus agrifolia Quercus garryana	55	N/A	N/A	0.1276	
AR-A44 - Overland	Non-native Grassland	75	Avena fatua Bromus hordeaceus Chlorogalum pomderidianum	20	Bromus diandrus	15	10	Quercus agrifolia Quercus garryana	75	N/A	N/A	0.0320	
AR-A44a - Overland	Oregon Oak Woodland	80	Avena fatua Bromus hordeaceus Chlorogalum pomderidianum	20	Bromus diandrus	15	15	Quercus agrifolia Quercus garryana	75	N/A	N/A	0.1679	
AR-A45 - Overland	Non-native Grassland	72	Avena fatua Bromus hordeaceus Chlorogalum pomderidianum	10	Bromus diandrus Cynoserus echinatus	20	N/A	N/A	N/A	N/A	N/A	0.1793	
AR-A46b and Untitled Path Connecting A46b and A44 - Overland	Oregon Oak Woodland	90	Avena fatua Bromus hordeaceus Chlorogalum pomderidianum	20	Bromus diandrus	15	15	Quercus agrifolia Quercus garryana	75	N/A	N/A	0.1793	
AR-A48 and Turnaround	Non-native Grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus Cynosurus echinatus	25	N/A	N/A	N/A	N/A	N/A	0.1246	
AR-A49 - Overland	Non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus	4	Bromus diandrus Cynosurus echinatus	30	N/A	N/A	N/A	N/A	N/A	0.1178	
AR-A49a - Overland	Non-native grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	7	Bromus diandrus Cynosurus echinatus	30	N/A	N/A	N/A	N/A	N/A	0.1042	



	Vegetation Community		Herl	paceous Str	ratum		Shrub	/Tree Stratu	ım				
Work Area		Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
AR-A50 - Overland	Non-native grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	4	Bromus diandrus Cynosurus echinatus	25	N/A	N/A	N/A	N/A	N/A	0.1103	
AR-A51 - Overland	Non-native grassland	88	Avena fatua Bromus diandrus Bromus hordeaceus	4	Bromus diandrus Cynosurus echinatus	27	N/A	N/A	N/A	N/A	N/A	0.0938	
AR-A51 - Overland	Non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus Cynosurus echinatus	30	N/A	N/A	N/A	N/A	N/A	0.0737	
AR-A52 and Turnaround - Overland	Non-native grassland	50	Avena fatua	0	Bromus diandrus	10	N/A	N/A	N/A	N/A	N/A	0.2113	
AR-A53b and Turnaround - Overland	Non-native grassland	70	Avena fatua Bromus hordeaceus Trifolium subterraneum	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1734	
AR-A55 - Overland	Non-native grassland	88	Avena fatua Bromus diandrus Bromus hordeaceus	4	Bromus diandrus Cynosurus echinatus	27	N/A	N/A	N/A	N/A	N/A	0.1006	
Untitled Path Between P- 90 and P-92 - Overland	Coast Live Oak Woodland	85	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus Carduus pycnocephalus	30	85	Quercus agrifolia	85	N/A	N/A	0.0927	
AR-A57 - Overland	Non-native grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	7	Bromus diandrus Cynosurus echinatus	30	N/A	N/A	N/A	N/A	N/A	0.1197	
AR-B01 - Overland	Non-native Grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus	10	Cynosurus echinatus	7	N/A	N/A	N/A	N/A	N/A	0.1161	
AR-B05 - Overland	Non-native Grassland	98	Avena fatua Festuca perennis Trifolium repens	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1180	
Minor Project Refinement (MPR) #4 - Alternate Route to P- 68 - Overland	Mixed North Slope Cismontane Woodland	80	Bromus diandrus Carduus pycnocephalus	0	Bromus diandrus Carduus pycnocephalus	75	55	Quercus agrifolia Quercus garryana	55	N/A	N/A	0.1274	



	Vegetation Community		Herl	baceous Str	atum		Shrub						
Work Area		Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
Landing Zone	es												
LZ-2	Non-native grassland	98	Avena fatua Festuca sp. Trifolium repens	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1356	
LZ-4	Non-native grassland	95	Avena fatua Festuca perennis	0	Bromus diandrus	10	N/A	N/A	N/A	N/A	N/A	0.2643	
LZ-6	Non-native grassland	90	Carduus pycnocephalus Elymus caput-medusae Juncus patens Elymus glaucus	25	Carduus pycnocephalus Elymus caput-medusae	40	N/A	N/A	N/A	N/A	N/A	0.6904	
Work Sites an	nd Staging Areas												
Work Site (WS-) A05	non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus	10	Cynosurus echinatus	7	N/A	N/A	N/A	N/A	N/A	0.0529	
WS-A06	non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus Carduus pycnocephalus	30	25	Quercus agrifolia	25	N/A	N/A	0.0128	
WS-11	Non-native grassland	90	Bromus diandrus Bromus hordeaceus Avena fatua	0	Bromus diandrus Phalaris aquatica	33	N/A	N/A	N/A	N/A	N/A	0.0766	
WS-15	Non-native grassland	98	Avena fatua Festuca perennis Trifolium repens	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3246	
TAP Staging Area, MPR #5	Non-native grassland	80	Elymus caput-medusae Festuca perennis Trifolium subterraneum	5	Elymus caput-medusae	25	N/A	N/A	N/A	N/A	N/A	1.0036	
Pull Sites	1									I			
Pull Site (PS)-1	Non-native grassland	80	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	0.3555	
PS-2	Non-native grassland	85	Avena fatua Bromus diandrus Bromus hordeaceus Festuca perennis	5	Bromus diandrus	25	N/A	N/A	N/A	N/A	N/A	1.1196	
PS-3	Non-native grassland	95	Zea mays		Bromus diandrus	15	6	Quercus agrifolia Juglans hindsii	6	N/A	N/A	0.1813	Appears to be an abandoned corn field.



			Her	baceous Str	atum			Shrub	/Tree Stratu	ım			
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
PS-6 and Turnaround	Coast Live Oak Woodland	20	Avena fatua Elymus glaucus	5	Carduus pycnocephalus Conium maculatum	4	95	Quercus agrifolia Arbutus menziesii Genista monspessulana	65	Genista monspessulana Rubus armeniacus	30	0.4920	
PS-7	Non-native grassland	66	Avena fatua Bromus diandrus	0	Bromus diandrus Carduus pycnocephalus	21	N/A	N/A	N/A	N/A	N/A	0.5486	
PS-8	Non-native grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	10	Bromus diandrus Carduus pycnocephalus	27	30	Aesculus californicus	30	N/A	N/A	0.1479	
PS-9	Non-native grassland	90	Avena fatua Bromus hordeaceus	1	Bromus diandrus	10	N/A	N/A	N/A	N/A	N/A	0.1758	
PS-10	Mixed North Slope Cismontane Woodland	65	Bromus hordeaceus Cynosurus echinatus	12	Cynosurus echinatus	20	68	Quercus garryana Quercus agrifolia	68	N/A	N/A	0.0405	
PS-12	Non-native grassland	66	Avena fatua Bromus diandrus	0	Bromus diandrus Carduus pycnocephalus	21	N/A	N/A	N/A	N/A	N/A	0.1405	
Adjacent Refe	erence Areas					1							
Adjacent Area (AA) - 28	Mixed North Slope Cismontane Woodland	39	Bromus diandrus Plantago lanceolata Gallium sp.	25	Bromus diandrus	14	75	Quercus garryana Quercus agrifolia Arbutus menziesii	75	N/A	N/A	N/A	
AA-31	Non-native grassland	66	Avena fatua Bromus diandrus	0	Bromus diandrus Carduus pycnocephalus	21	N/A	N/A	N/A	N/A	N/A	N/A	
AA-36	Mixed North Slope Cismontane Woodland	70	Avena fatua Bromus diandrus	30	Bromus diandrus	25	80	Quercus douglasii Quercus kelloggii	80	N/A	N/A	N/A	
AA-40	Mixed North Slope Cismontane Woodland	50	Avena fatua Bromus diandrus	4	Bromus diandrus Carduus pycnocephalus	25	90	Quercus agrifolia	90	N/A	N/A	N/A	
AA-43	Coast Live Oak Woodland	87	Avena fatua Bromus diandrus Bromus hordeaceus	10	Bromus diandrus	25	65	Quercus agrifolia Toxicodendron diversiloba	65	N/A	N/A	N/A	
AA-51	Mixed North Slope Cismontane Woodland	75	Avena fatua Bromus diandrus Bromus hordeaceus	5	Bromus diandrus	25	52	Quercus agrifolia Arbutus menziesii Arctostaphylos sp. Genista monspessulana	47	Genista monspessulana	5	N/A	



	Vegetation Community		Herb	paceous Str	atum		Shrub	/Tree Stratu	ım				
Work Area		Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
AA-54	Oregon Oak Woodland	81	Avena fatua Bromus diandrus Bromus hordeaceus	9	Bromus diandrus	18	85	Quercus agrifolia Toxicodendron diversiloba Arctostaphylos sp.	85	N/A	N/A	N/A	
AA-55	Non-native grassland	91	Avena fatua Bromus diandrus Bromus hordeaceus	10	Cynosurus echinatus Bromus diandrus	32	10	Quercus garryana	10	N/A	N/A	N/A	
AA-56	Non-native grassland	85	Avena fatua Briza maxima Bromus hordeaceus Trifolium hirtum	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
AA-57	Coast Live Oak Woodland	50	Bromus diandrus	10	Bromus diandrus	35	70	Quercus agrifolia	70	N/A	N/A	N/A	
AA-58	Coast Live Oak Woodland	50	Bromus diandrus Bromus hordeaceus		Cynosurus echinatus Bromus diandrus	30	80	Quercus agrifolia Quercus garryana	80	N/A	N/A	N/A	
AA-59	Mixed North Slope Cismontane Woodland	50	Bromus diandrus Bromus hordeaceus Cynosurus echinatus	0	Cynosurus echinatus Bromus diandrus	10	80	Quercus agrifolia Quercus garryana	80	N/A	N/A	N/A	
AA-64	Non-native grassland	75	Avena fatua Bromus diandrus Bromus hordeaceus	4	Bromus diandrus	25	10	Quercus agrifolia	10	N/A	N/A	N/A	
AA-68	Coast Live Oak Woodland	85	Avena fatua Bromus diandrus Bromus hordeaceus	16	Bromus diandrus	18	55	Quercus agrifolia	55	N/A	N/A	N/A	
AA-70	Non-native grassland	80	Avena fatua Bromus hordeaceus	5	Carduus pycnocephalus	2	18	Baccharis pilularis Quercus agrifolia Quercus garryana	18	N/A	N/A	N/A	
AA-76	Non-native grassland	75	Avena fatua Bromus hordeaceus Briza major	1	Bromus diandrus	10	N/A	N/A	N/A	N/A	N/A	N/A	
AA-82	Non-native grassland	90	Avena fatua Bromus hordeaceus Trifolium subterraneum	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
AA-85	Non-native grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	3	Bromus diandrus	24	N/A	N/A	N/A	N/A	N/A	N/A	



		Herbaceous Stratum						Shrub					
Work Area	Vegetation Community	Percent Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Percent Canopy Cover	Dominant Species	Percent Cover Native Species	Noxious Weed Species	Percent Cover Noxious Weeds	Impact Area (acres)	Notes
AA-88	Non-native grassland	90	Avena fatua Bromus diandrus Bromus hordeaceus	0	Bromus diandrus	24	N/A	N/A	N/A	N/A	N/A	N/A	



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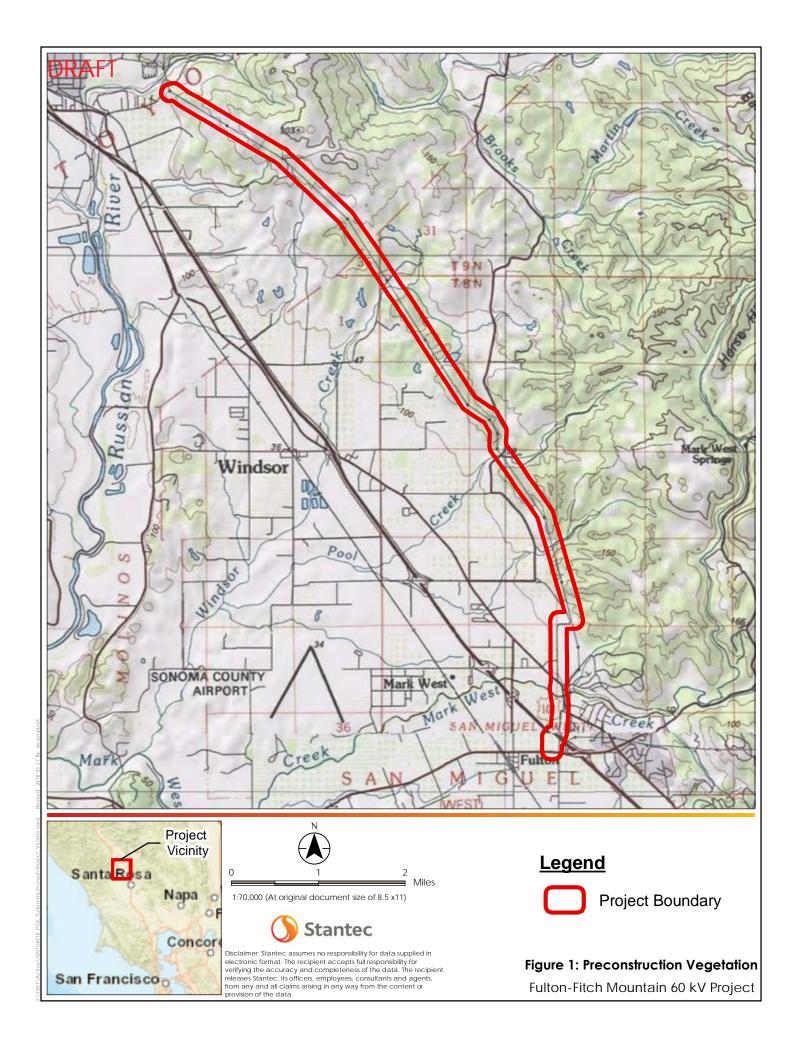
#### STANTEC CONSULTING SERVICES INC.

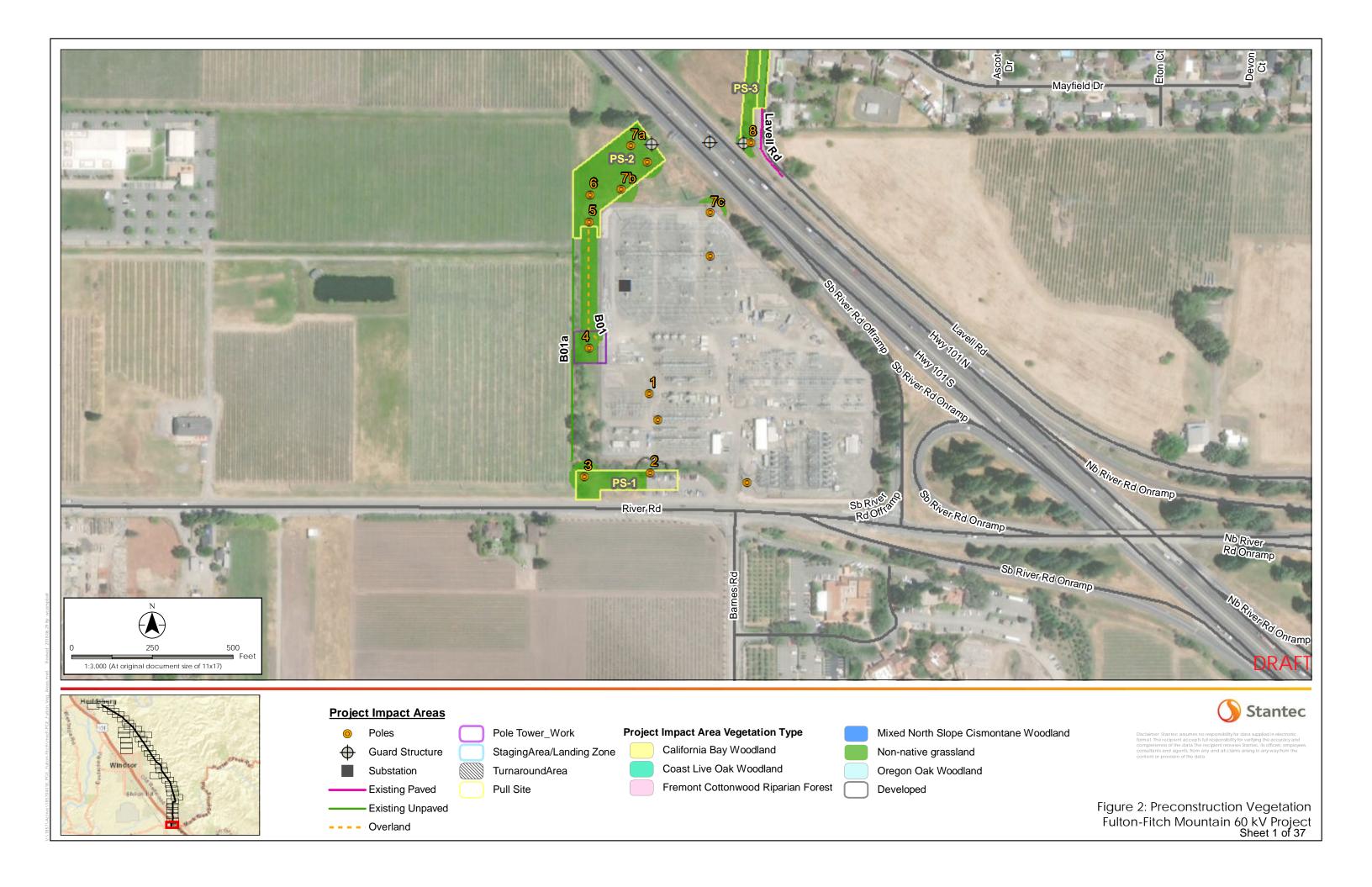
Sheryl Creer Botanist

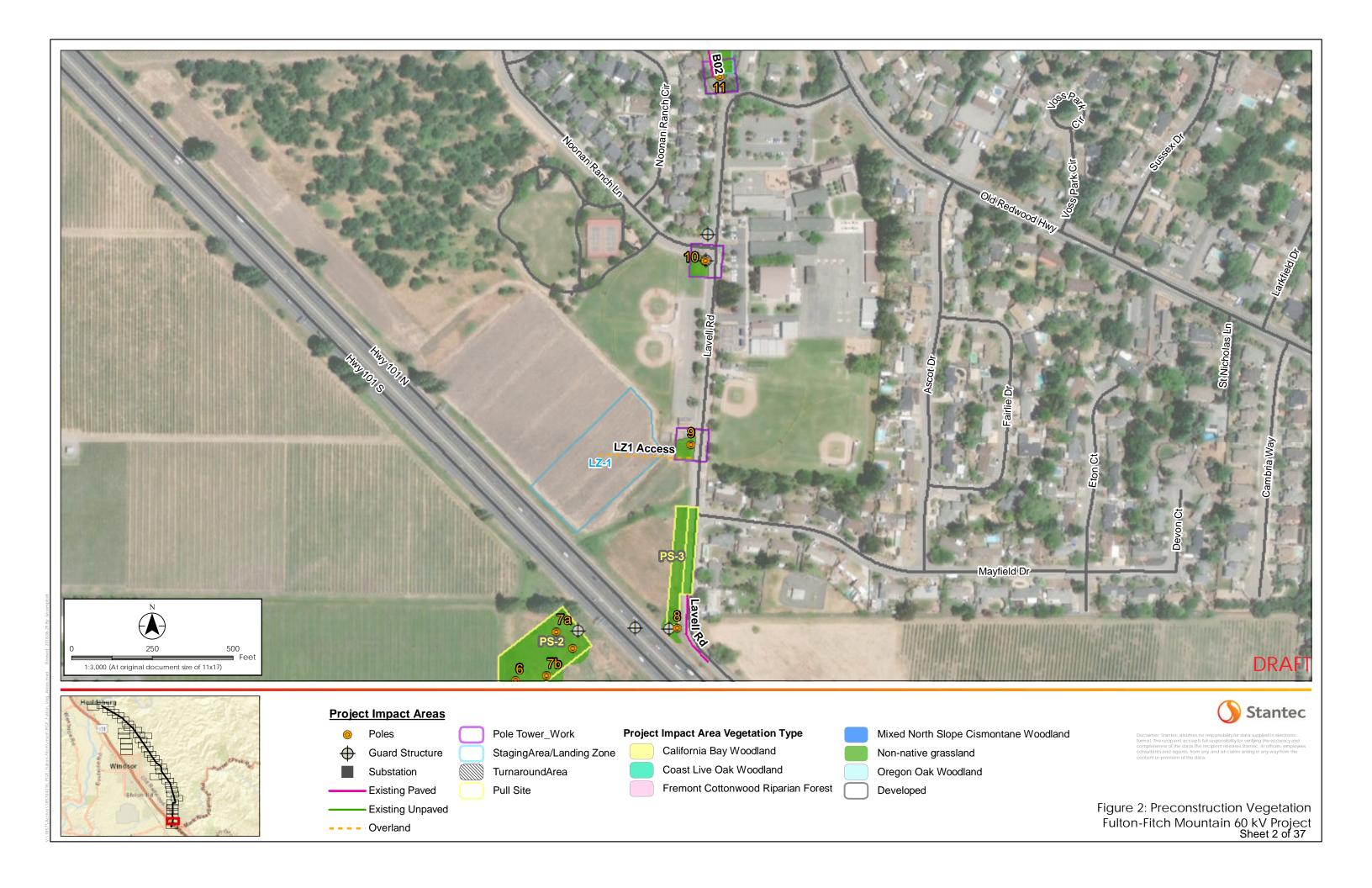
Phone: (415) 205-0270: Sheryl.creer@stantec.com

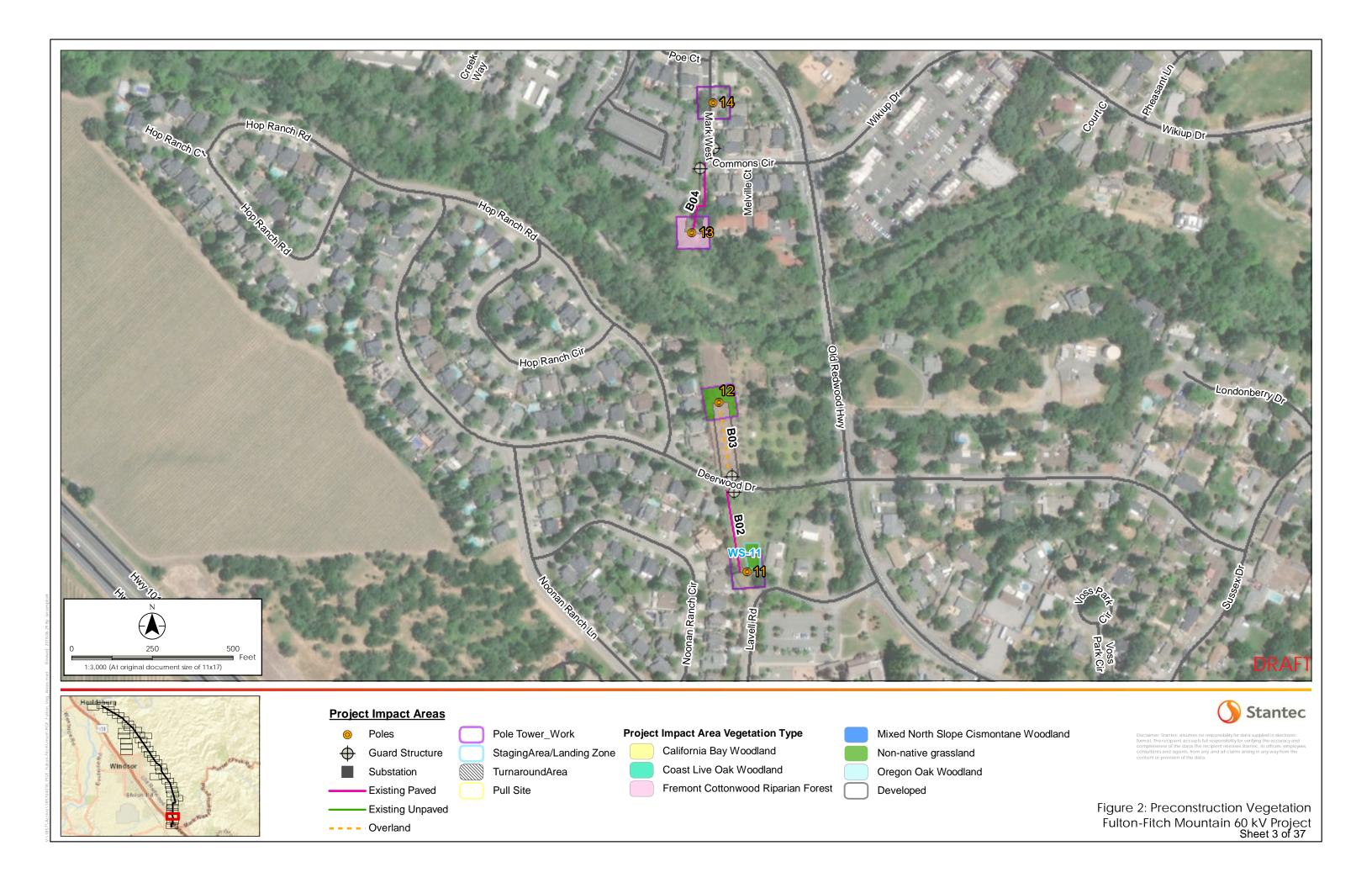
Attachment: Figure 1: Project Vicinity

Figure 2: Vegetation Communities



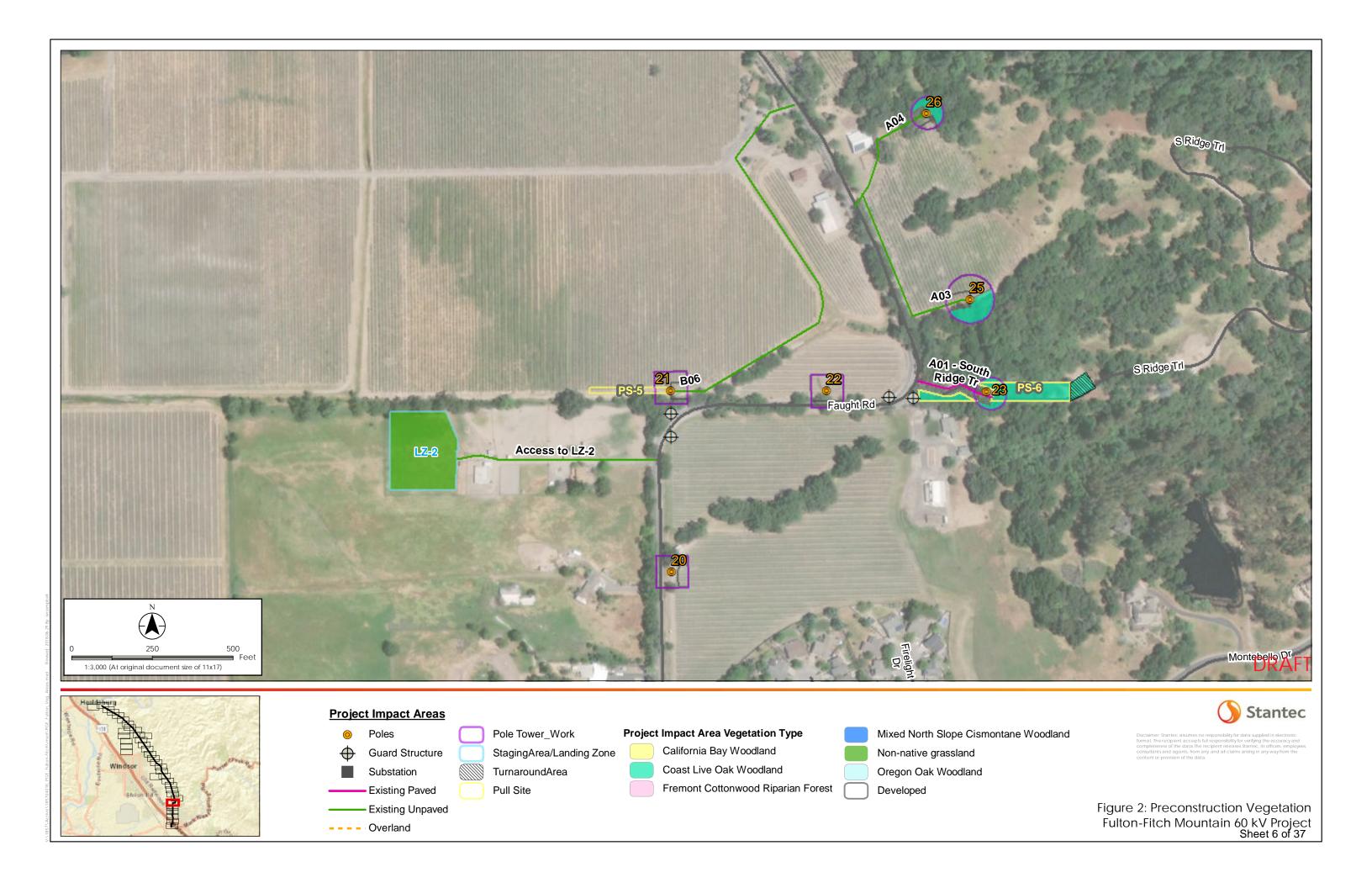


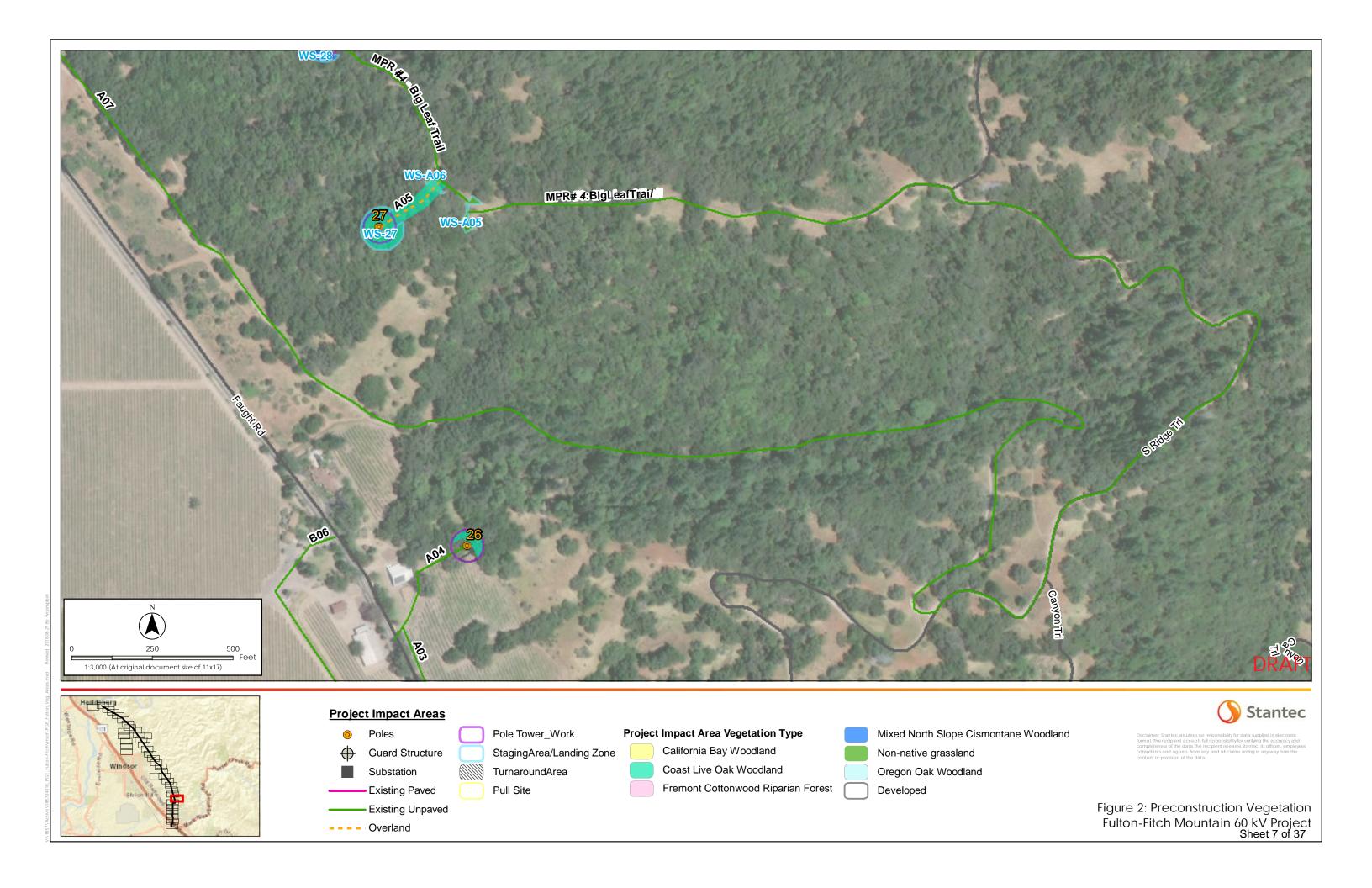


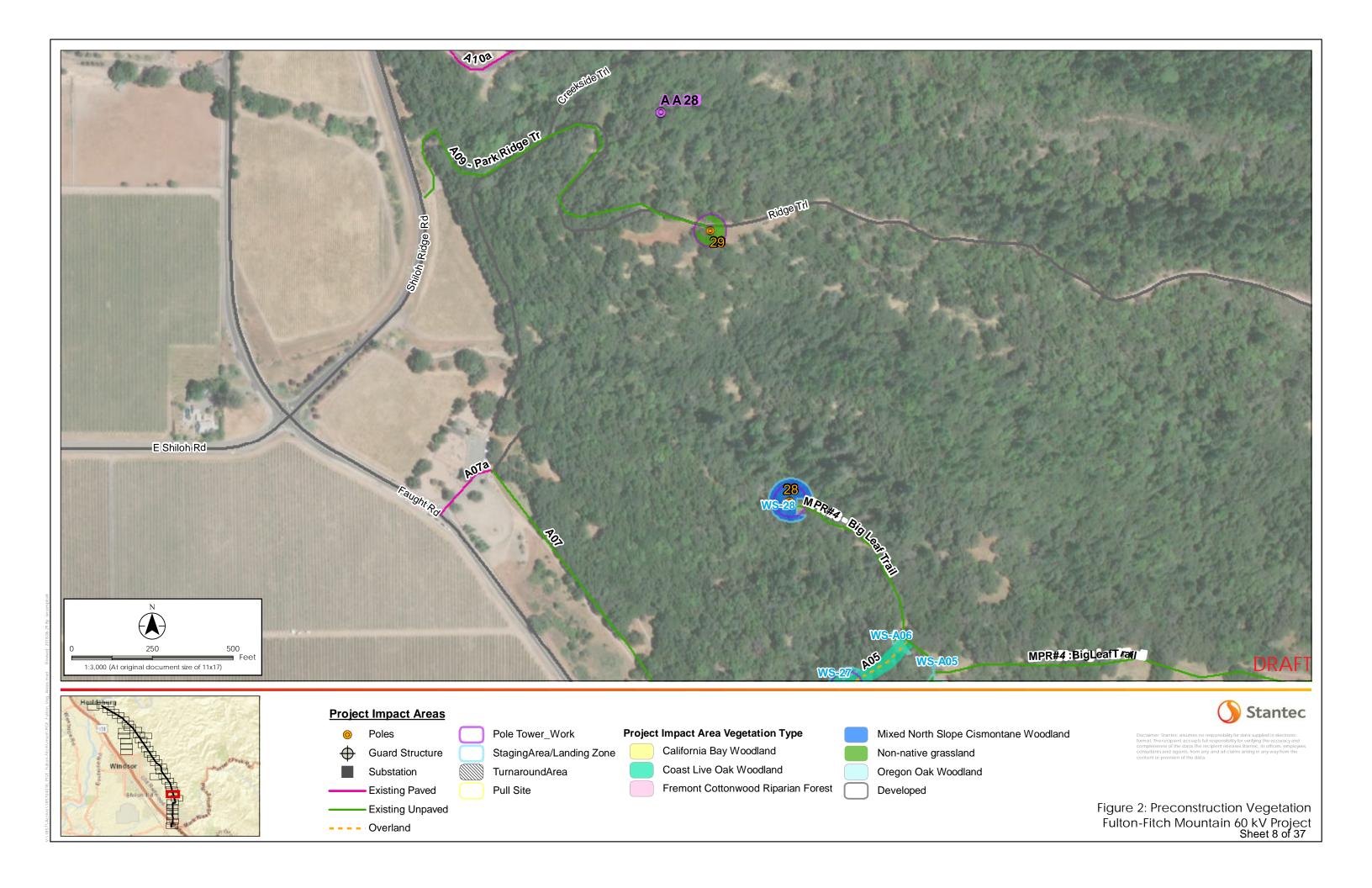


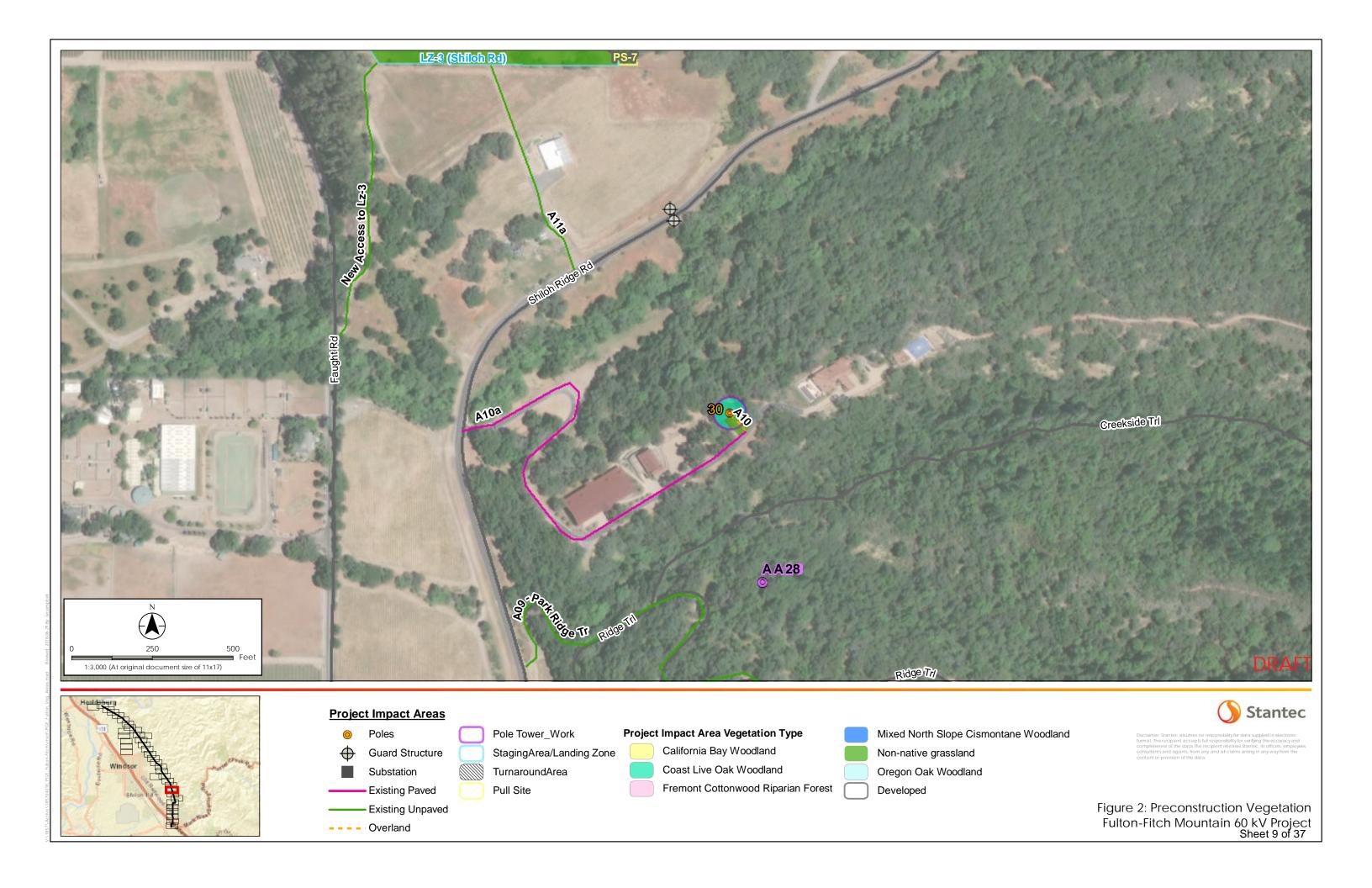


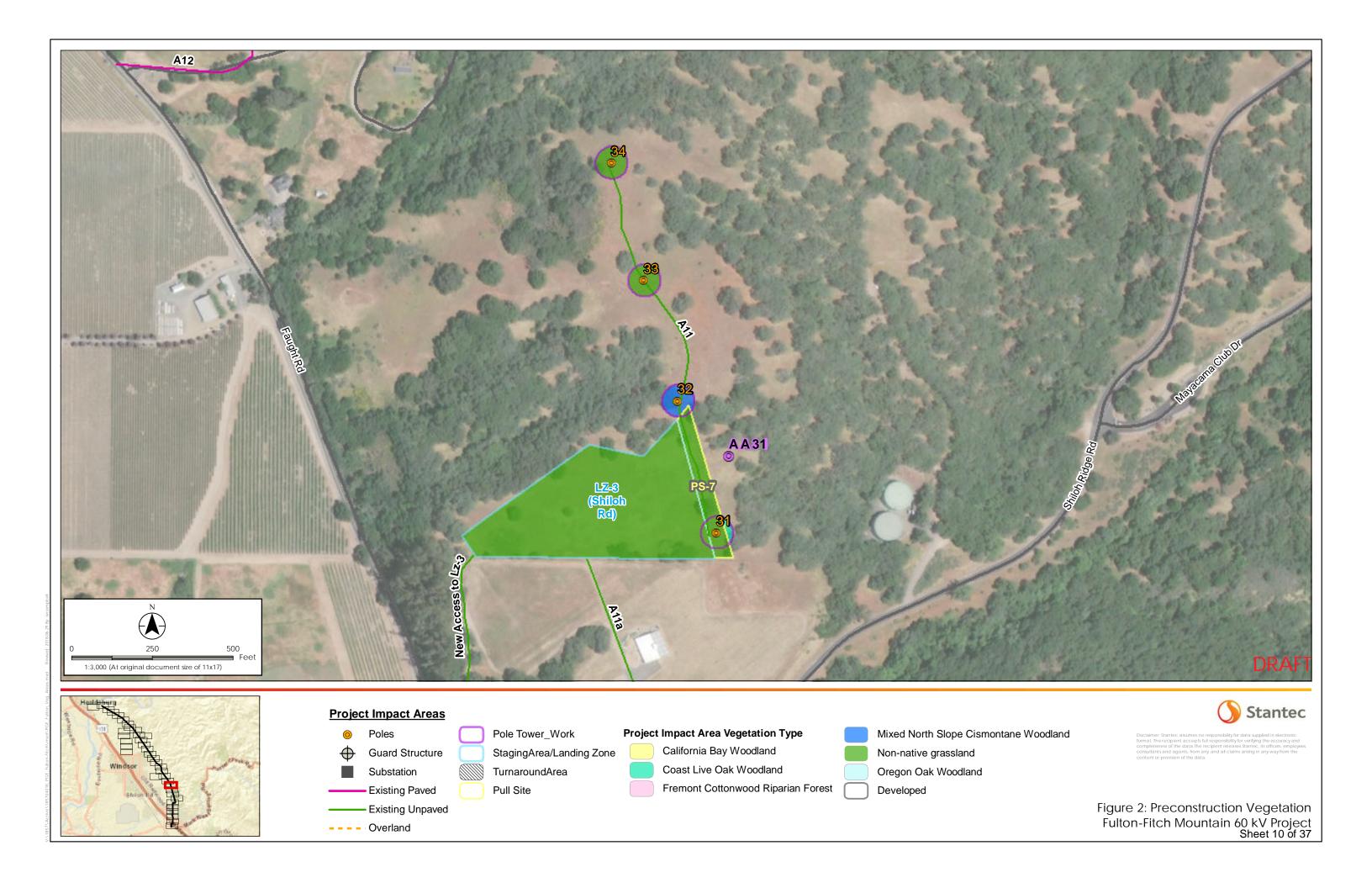


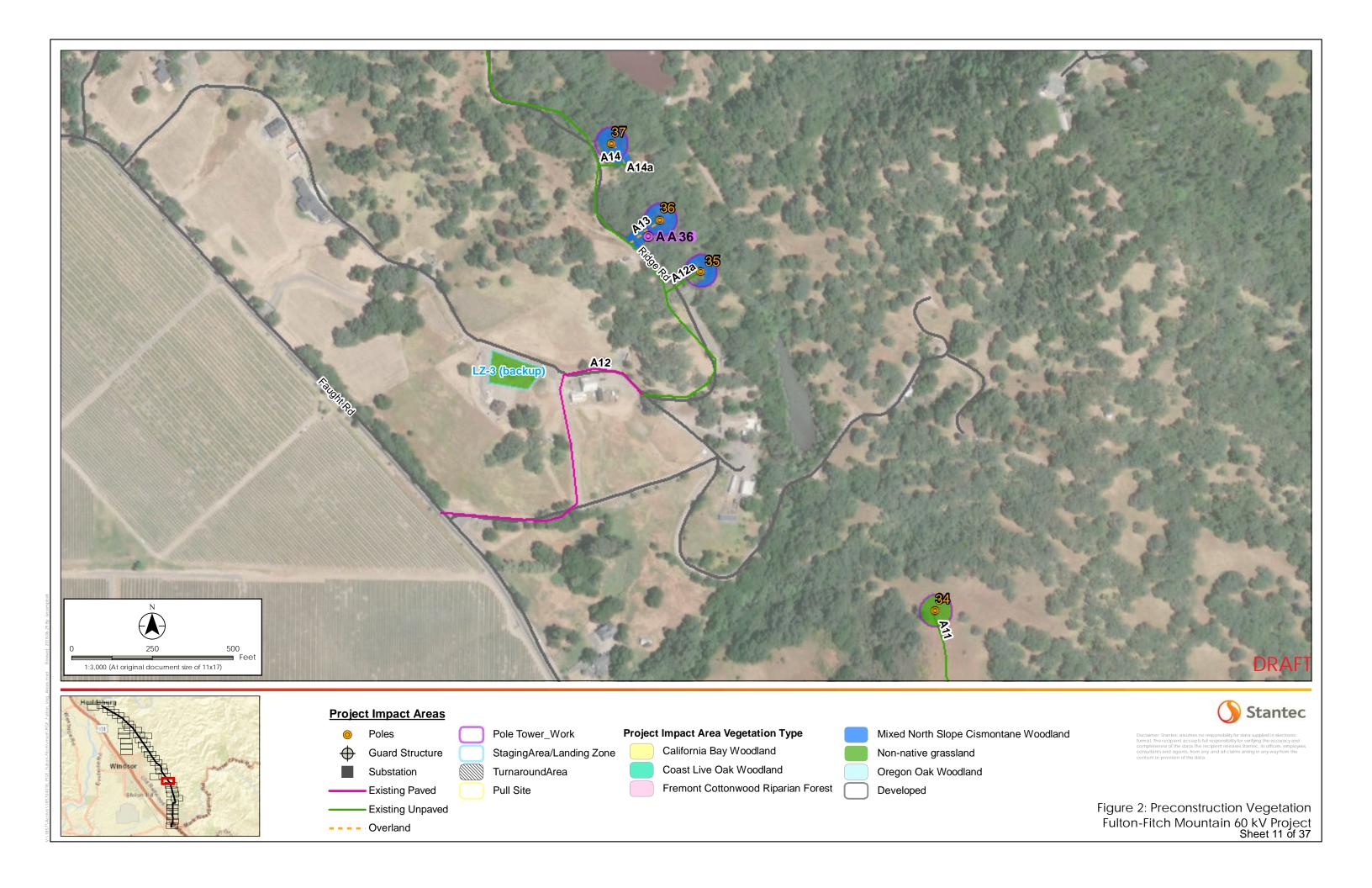


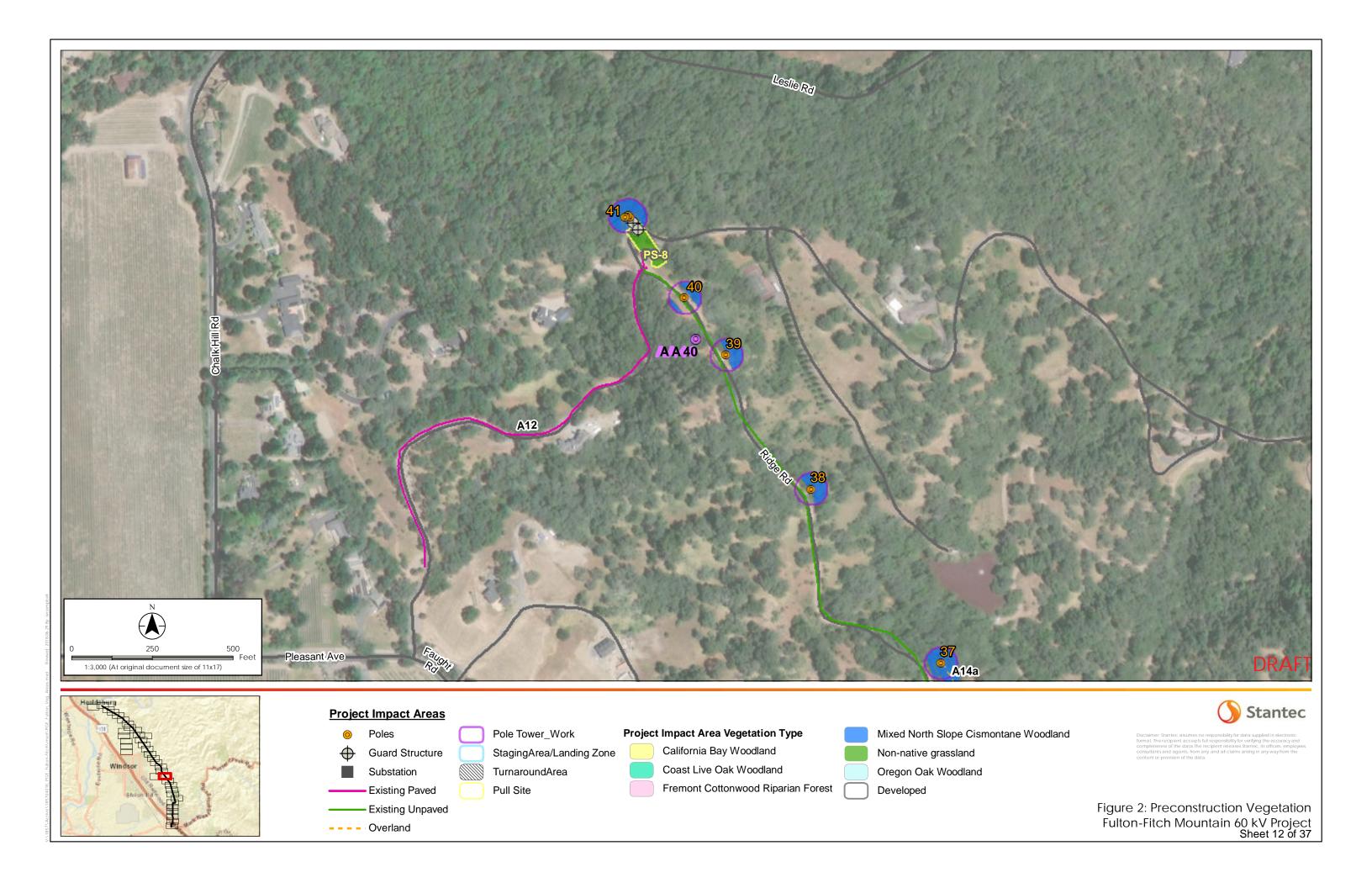


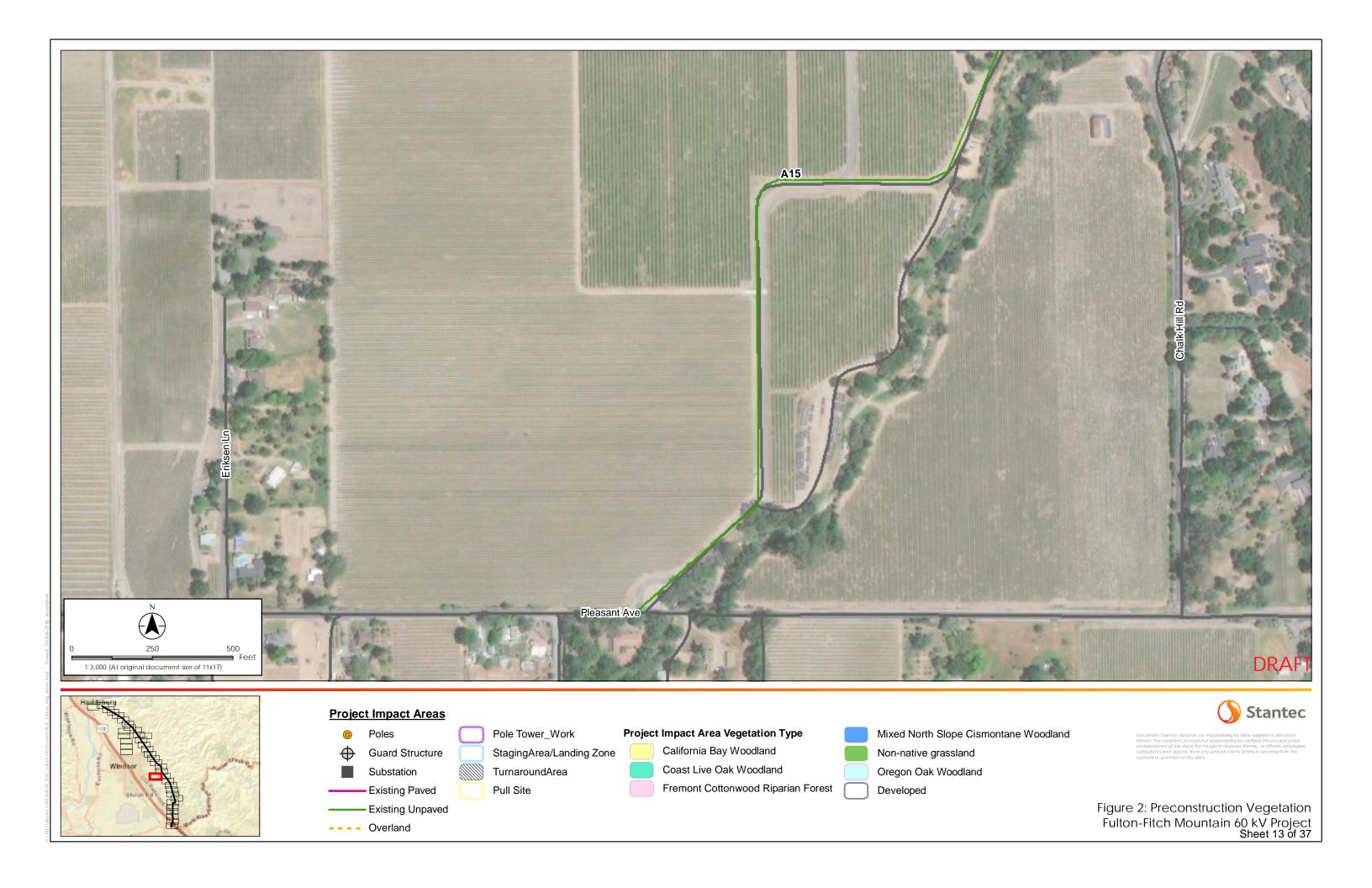


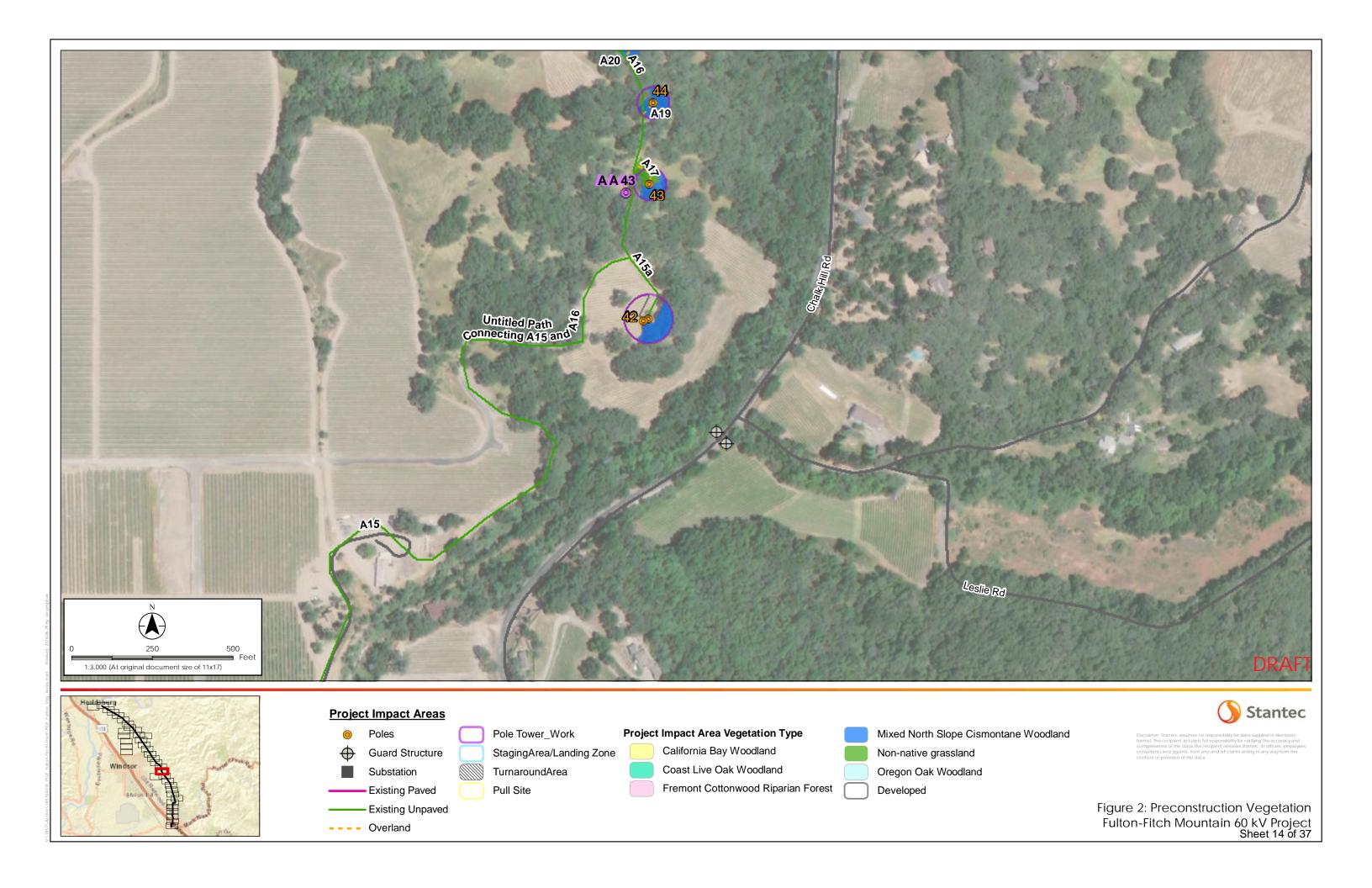


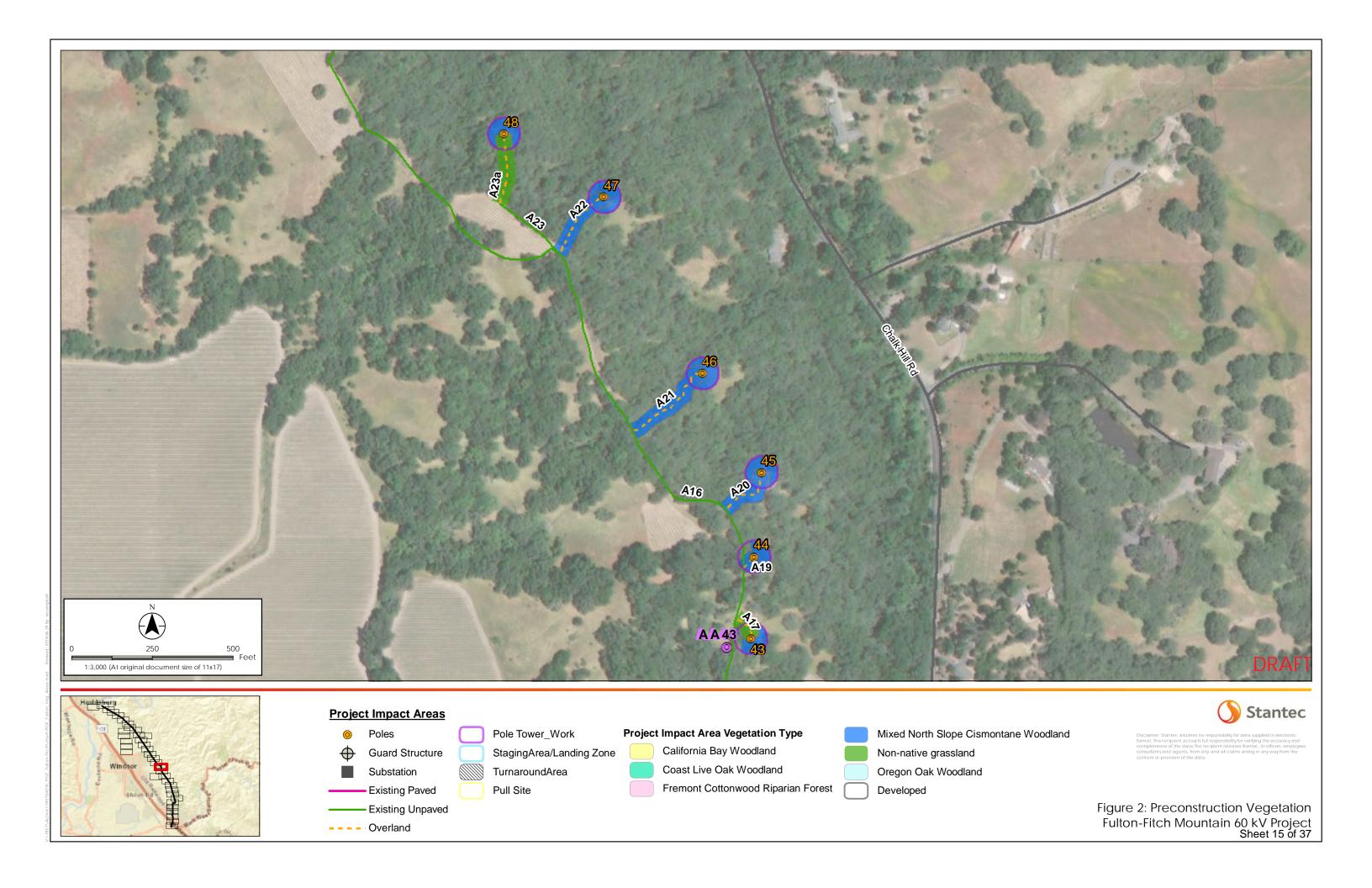


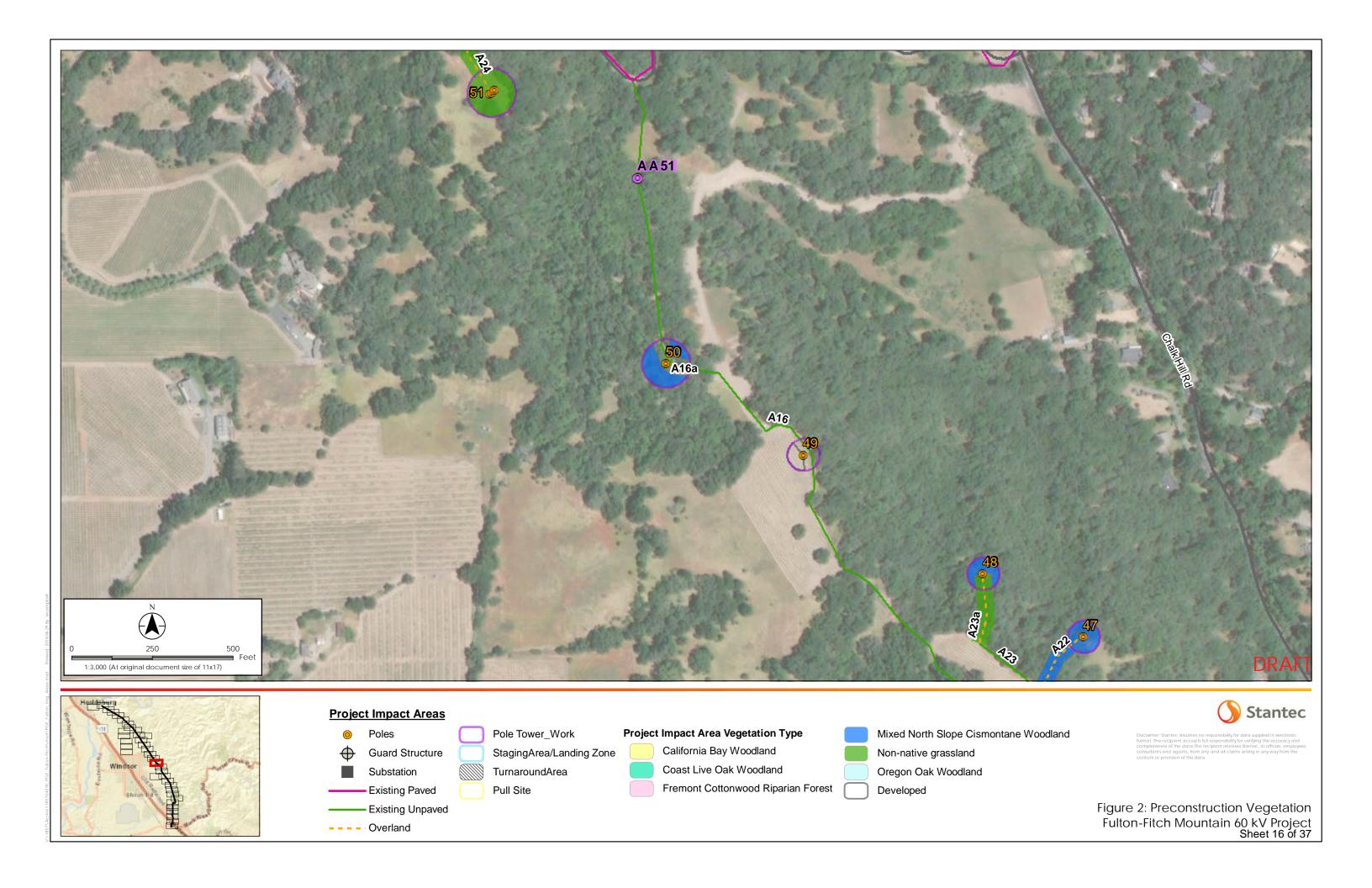


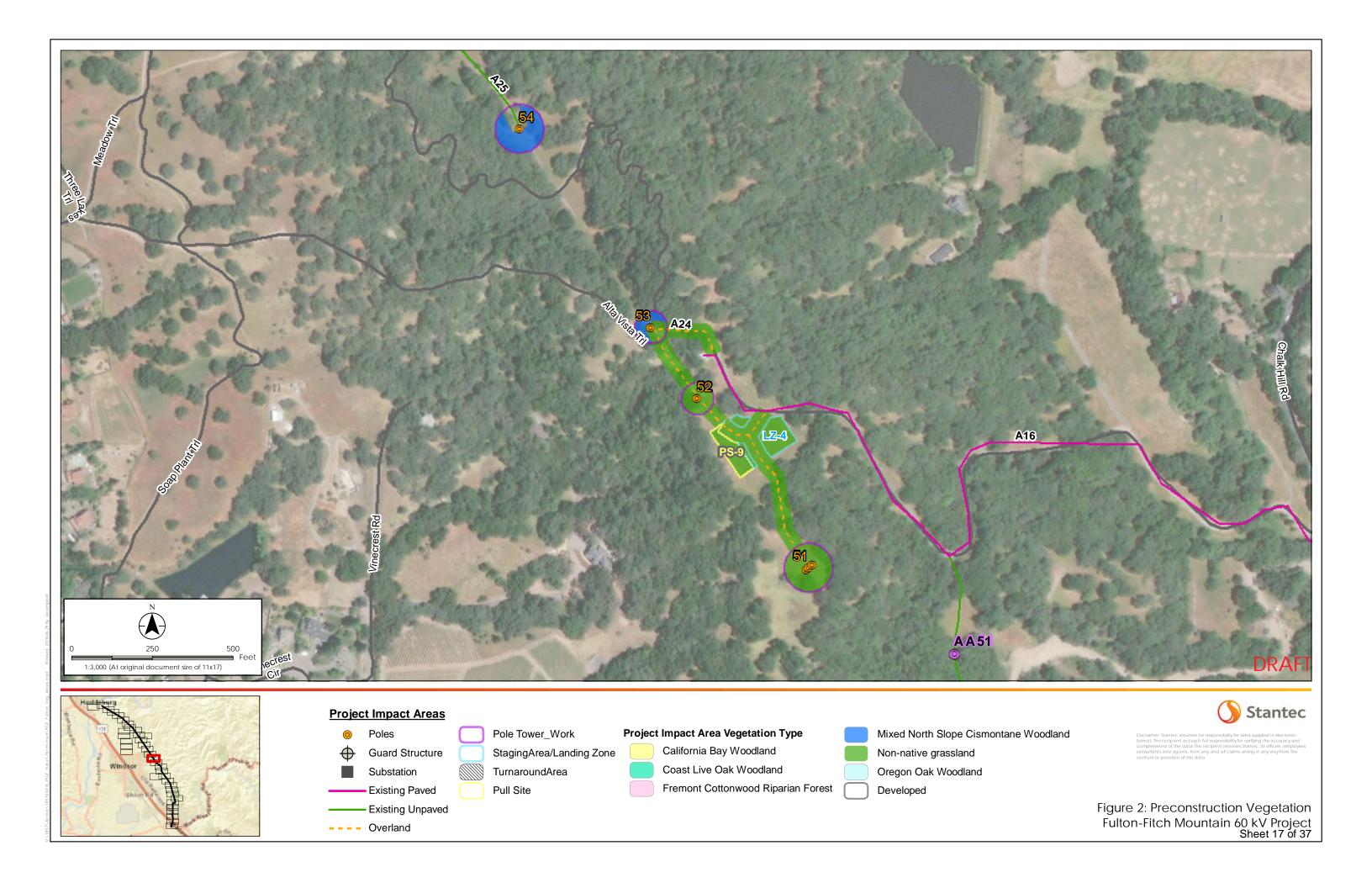


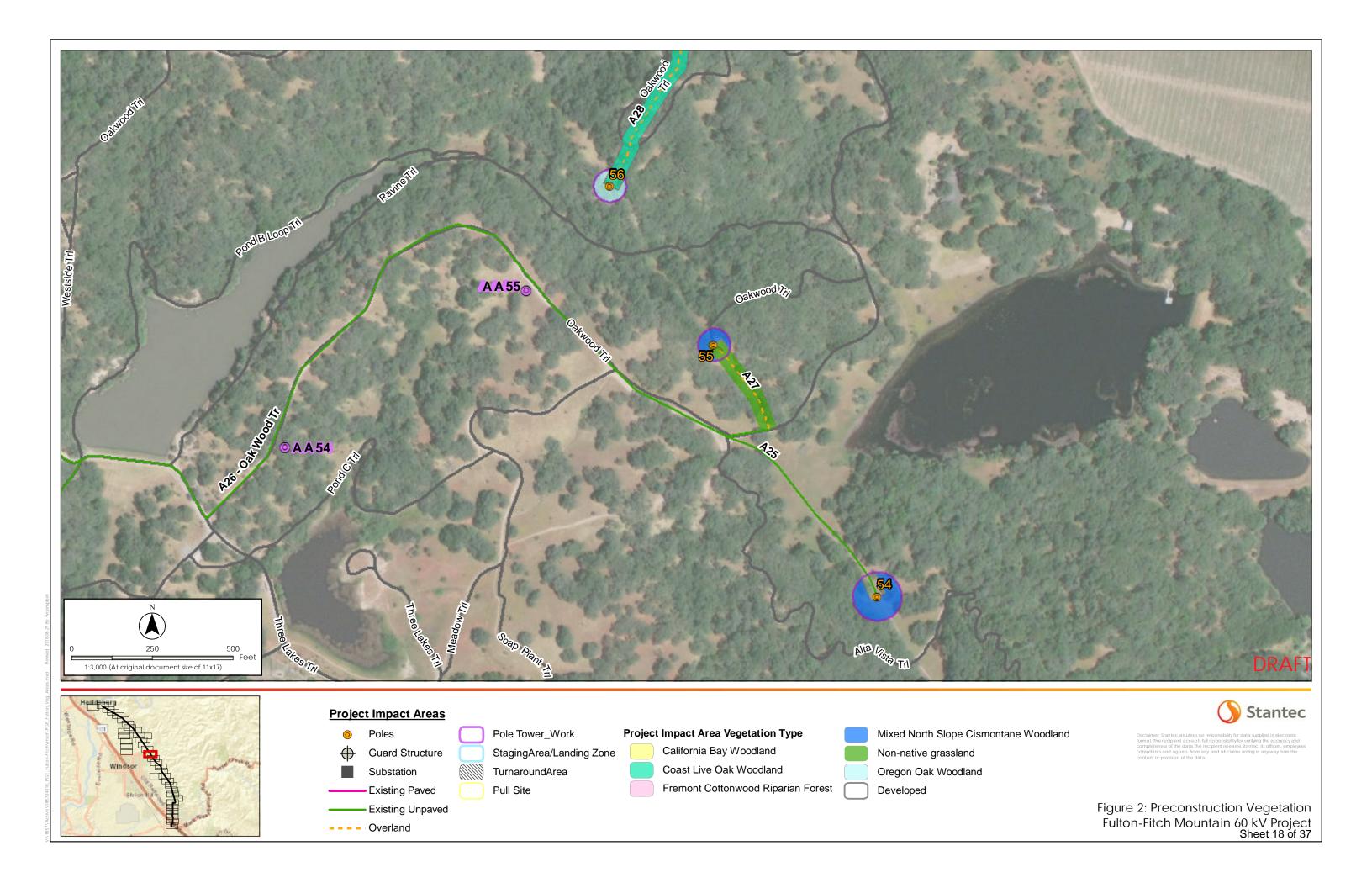


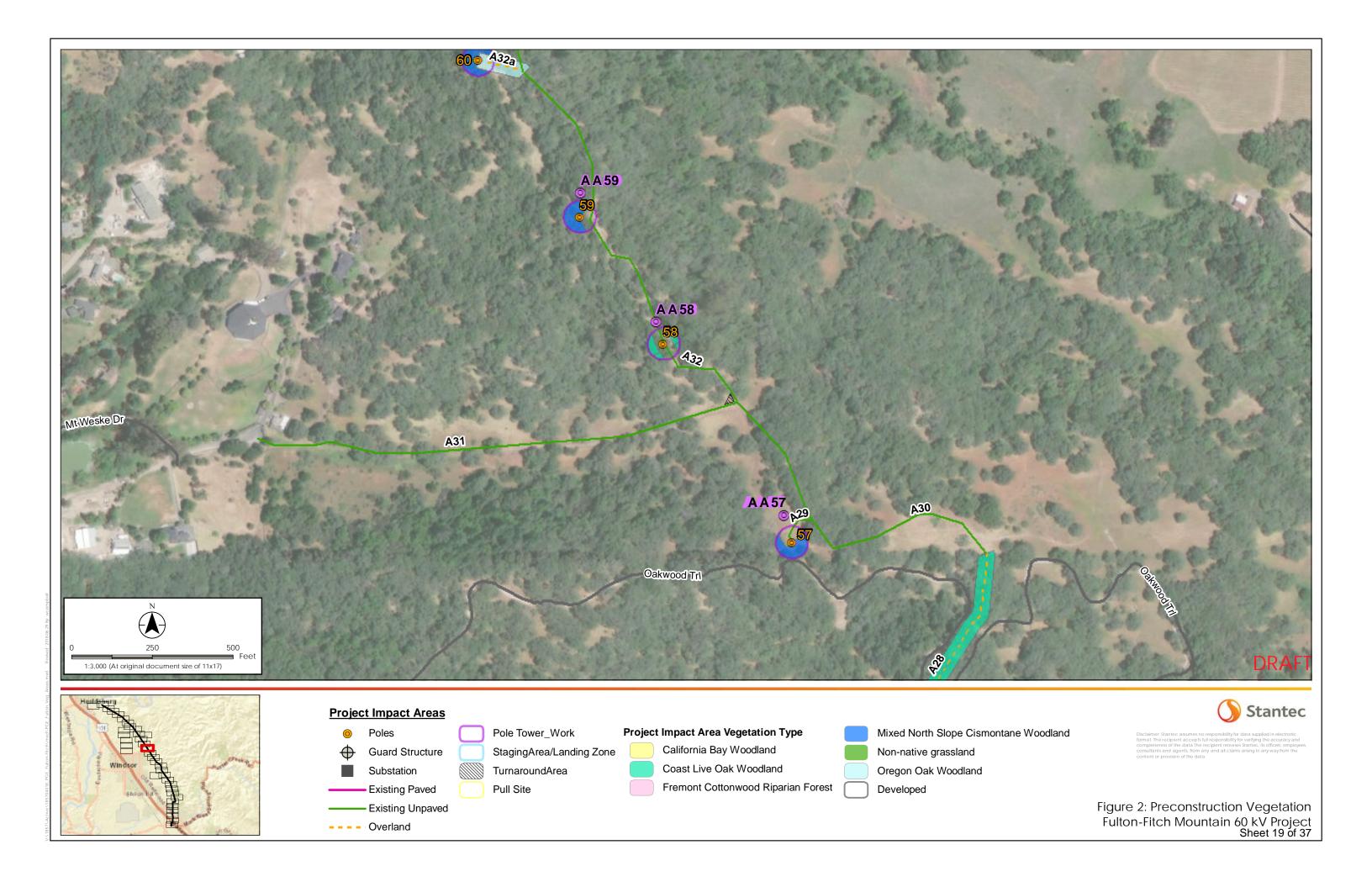


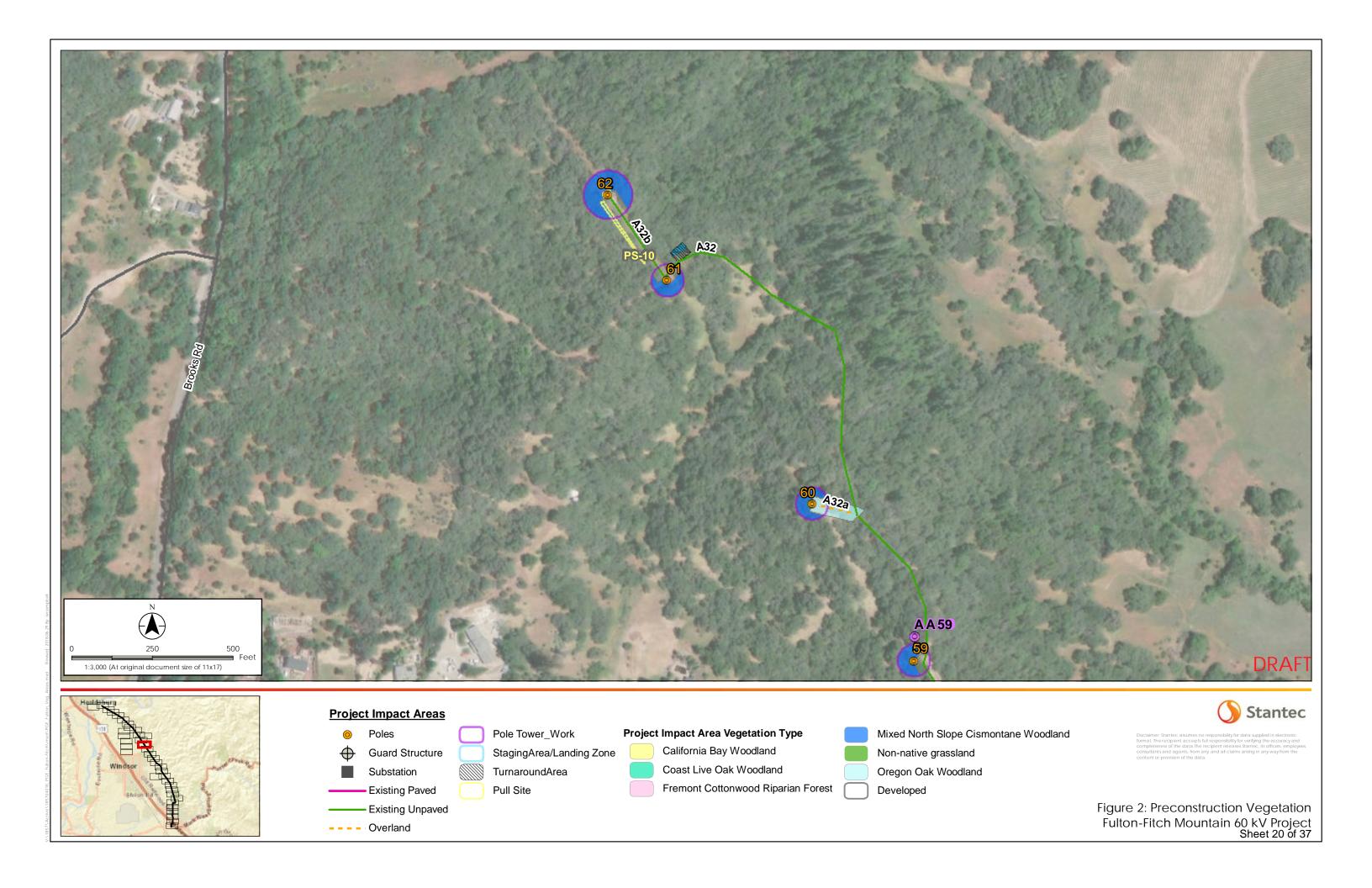


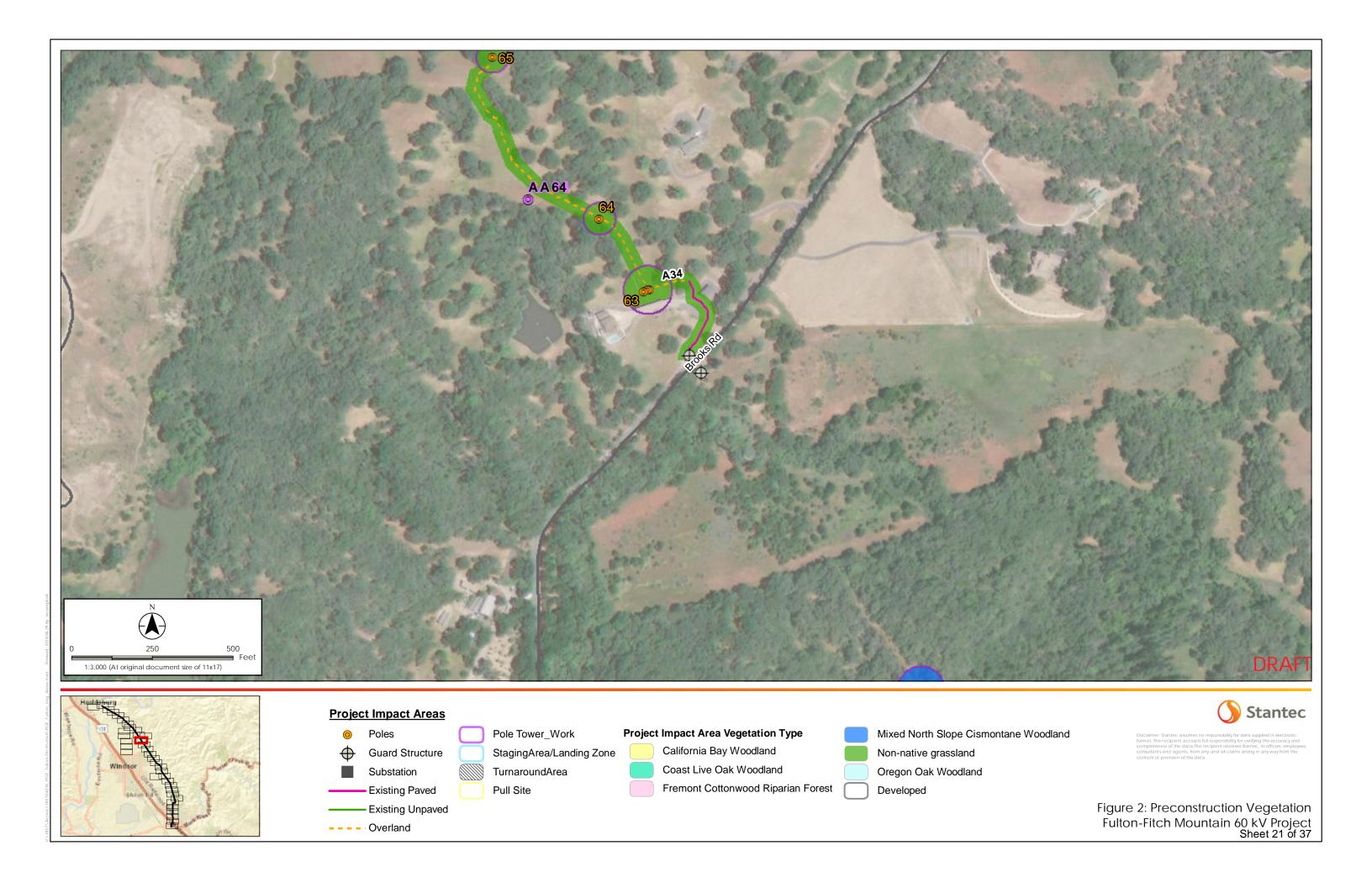


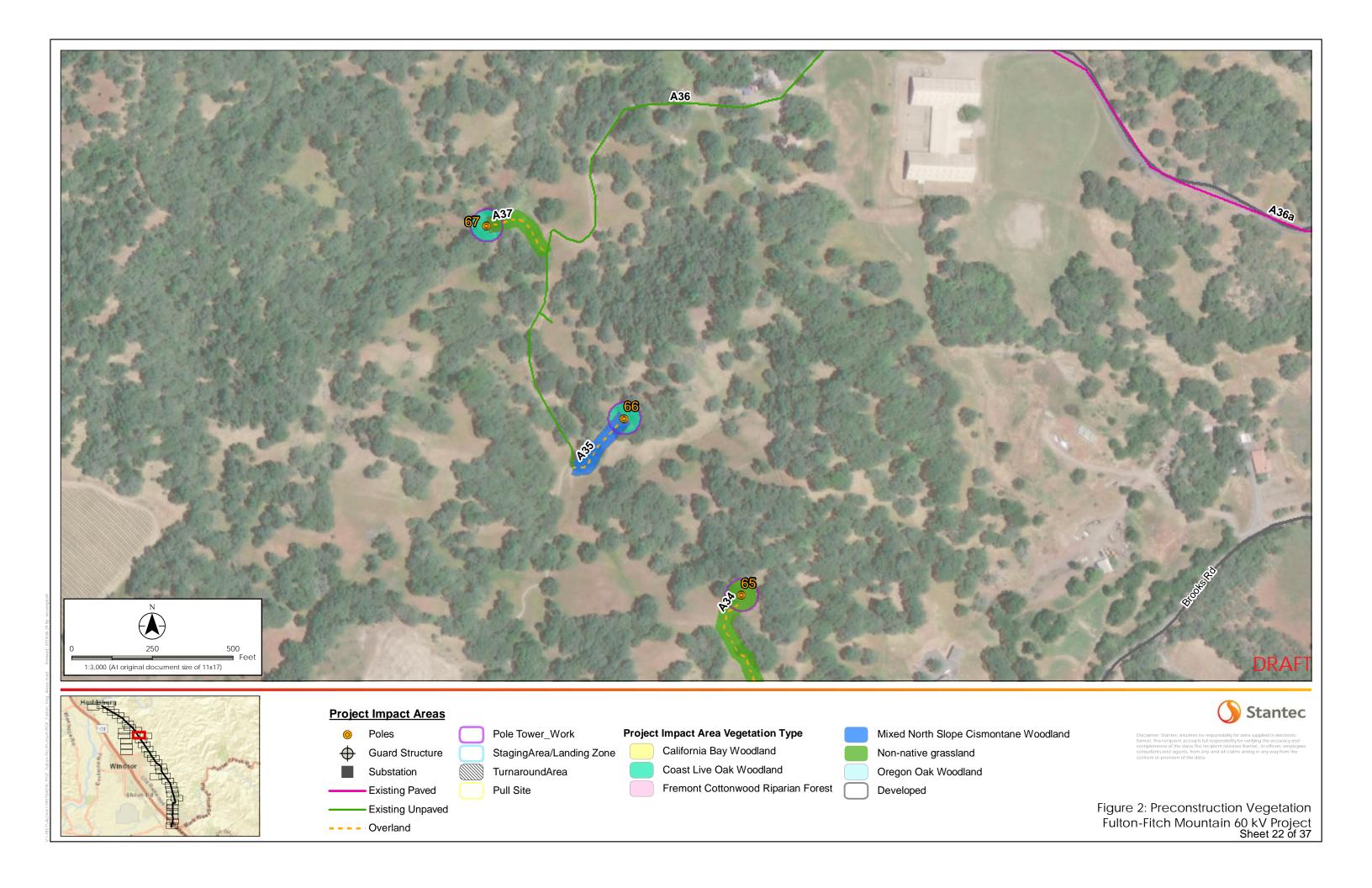


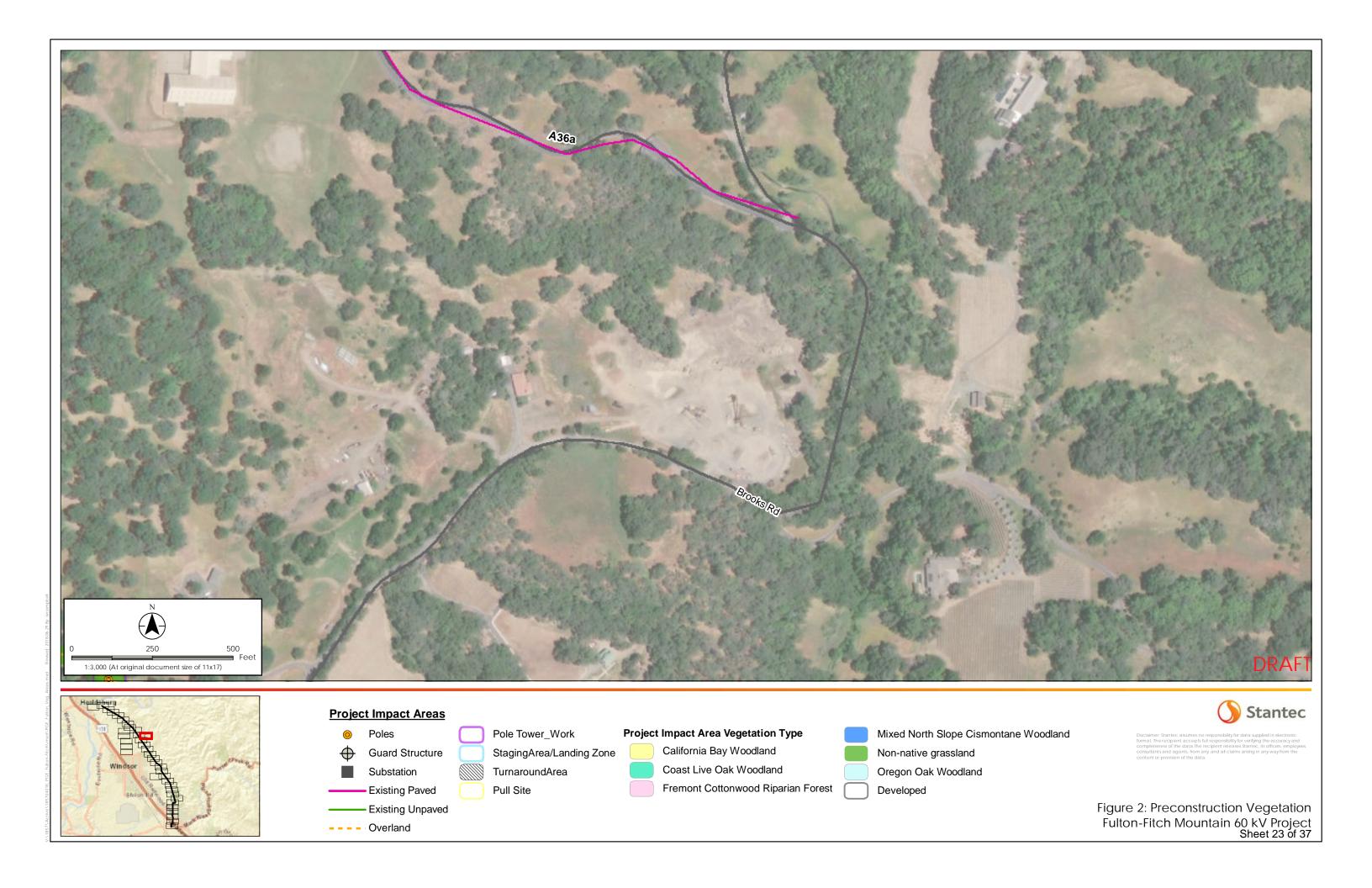


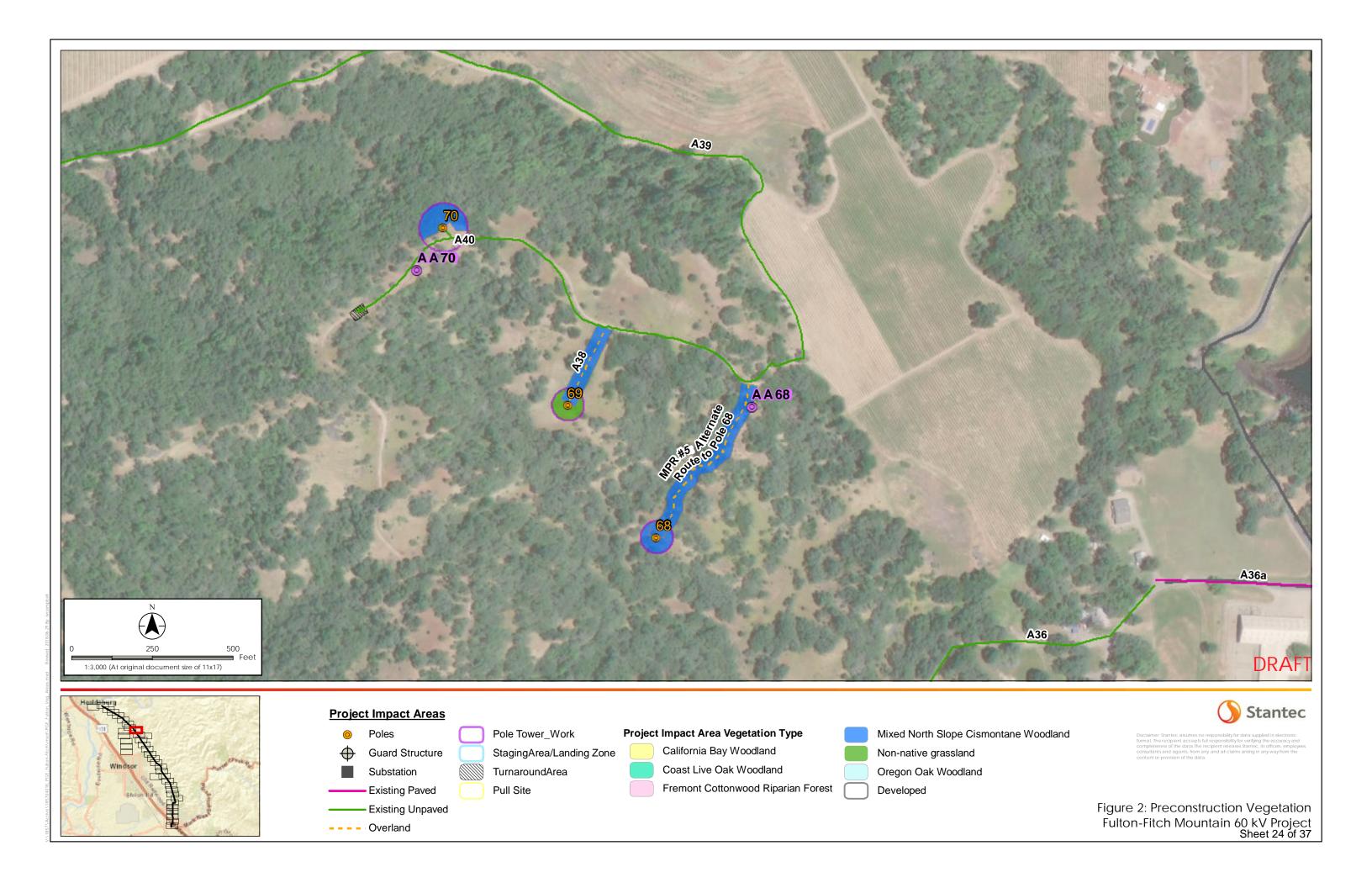


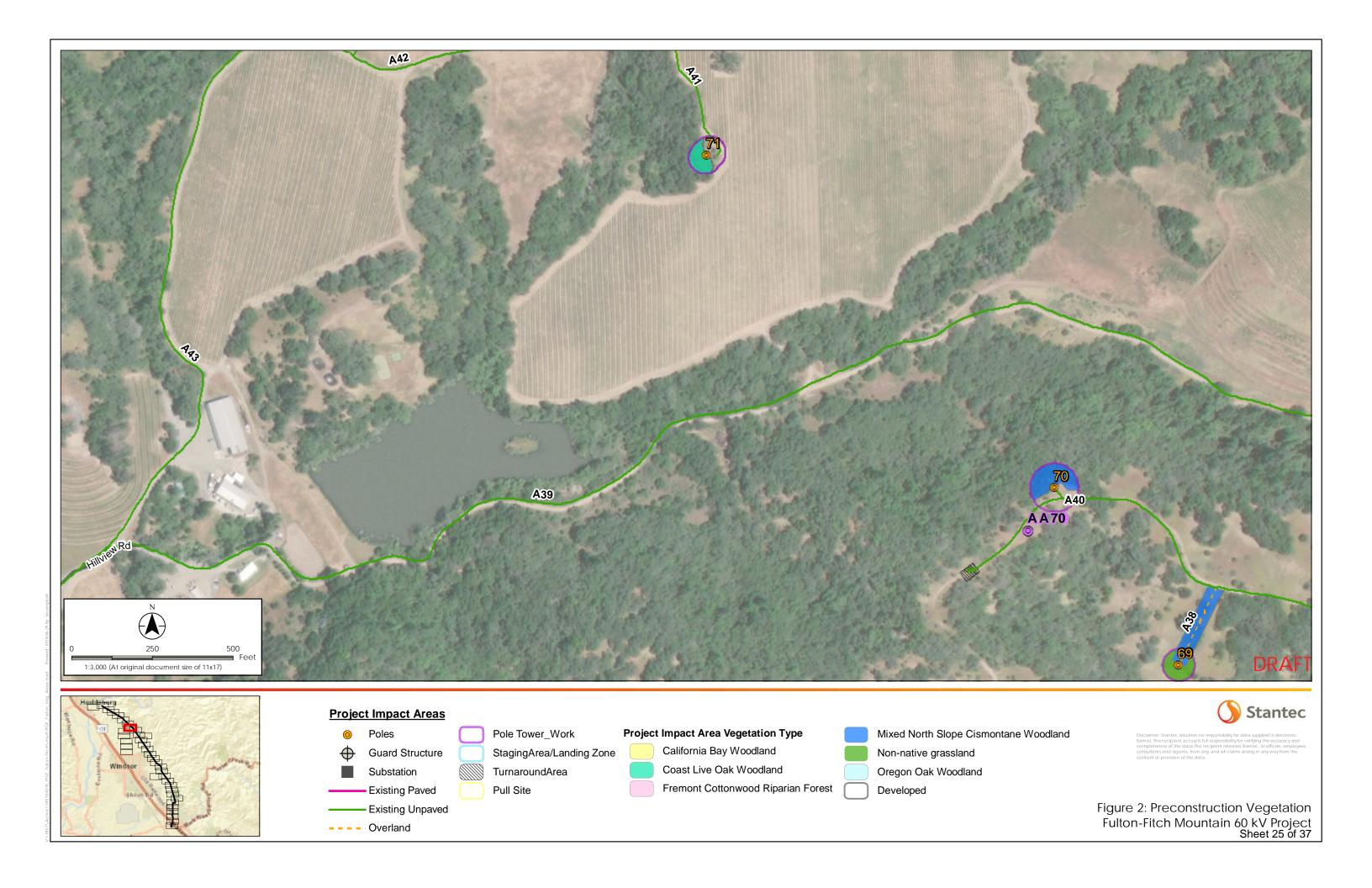


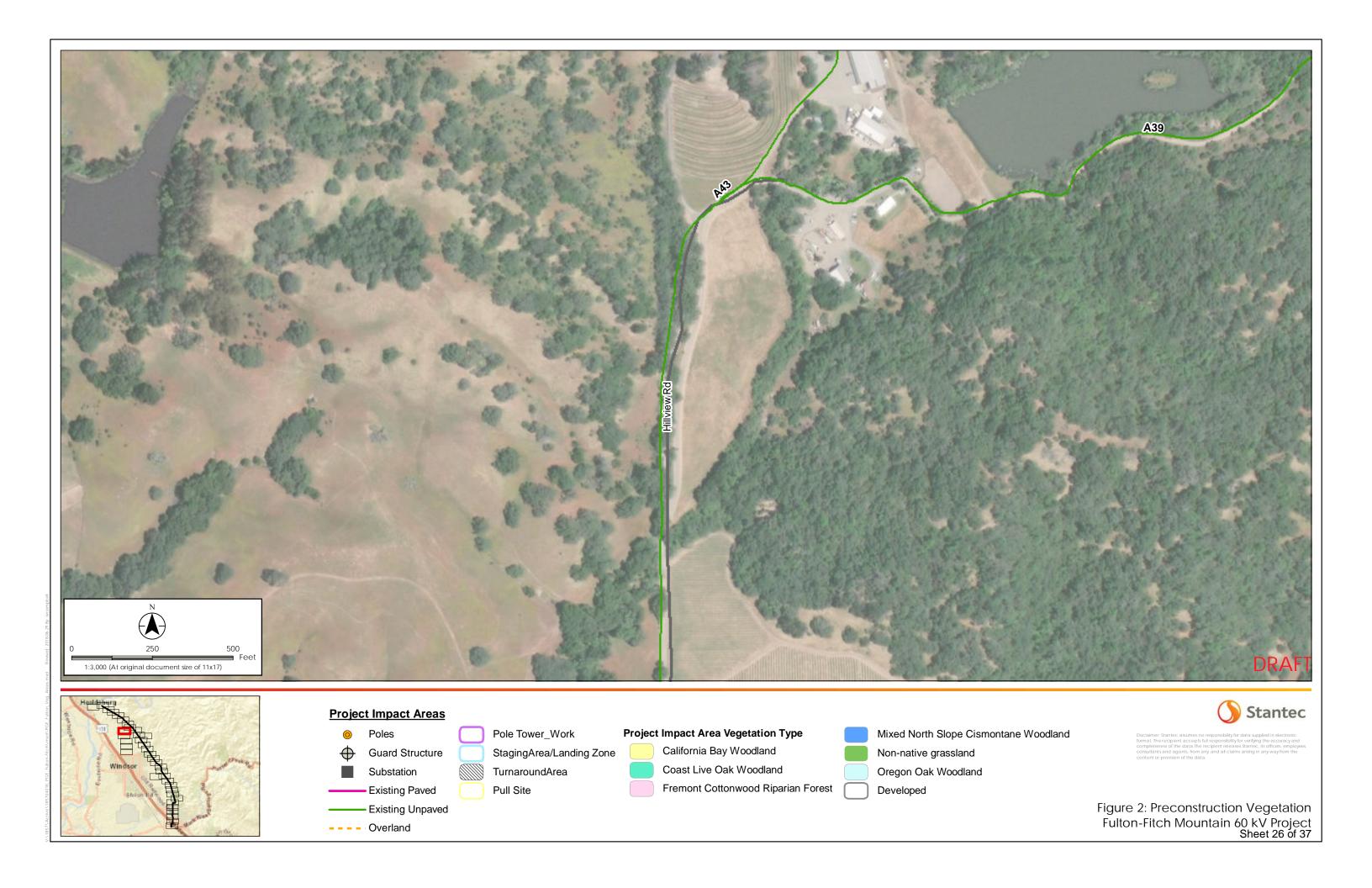


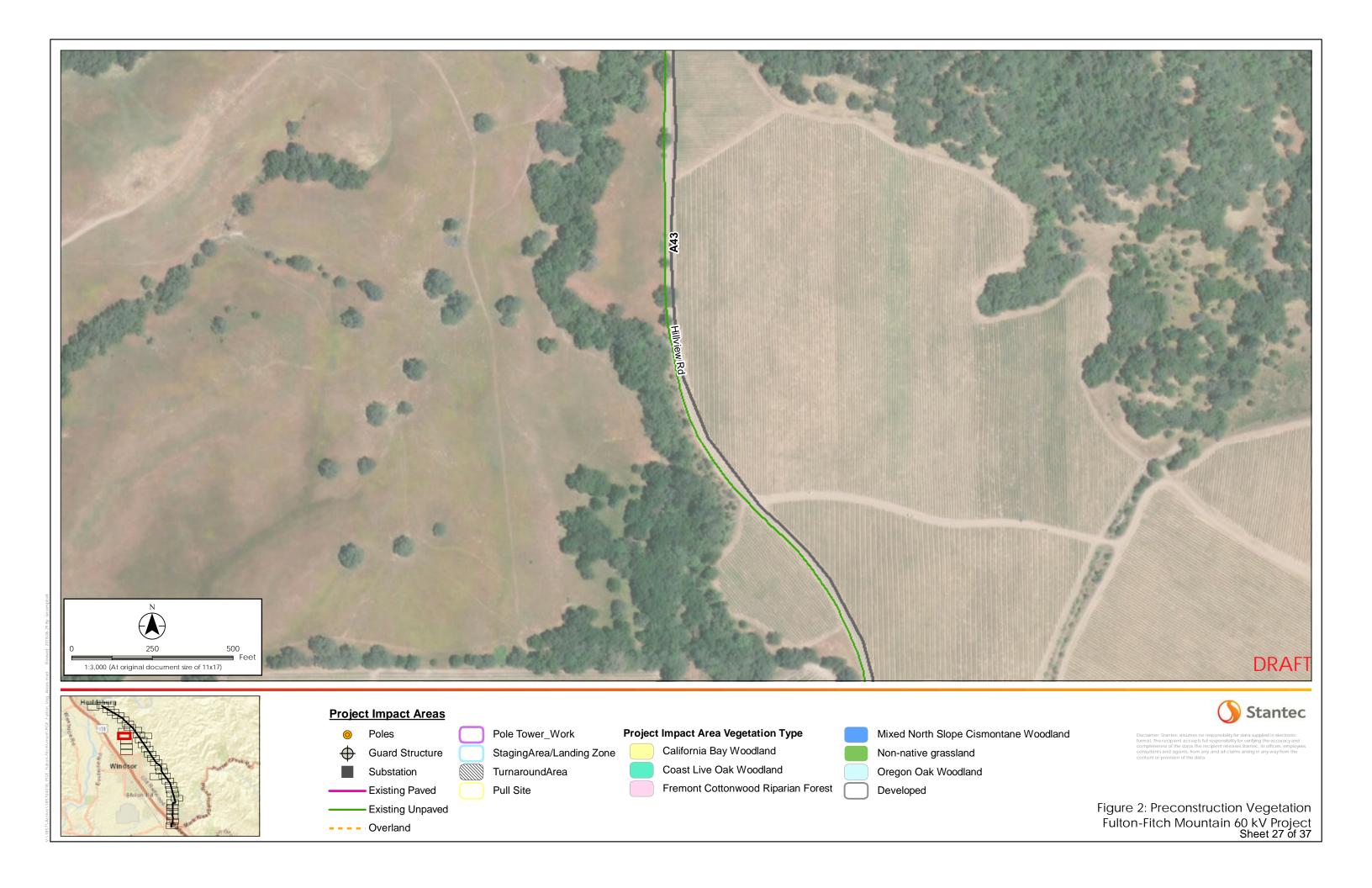




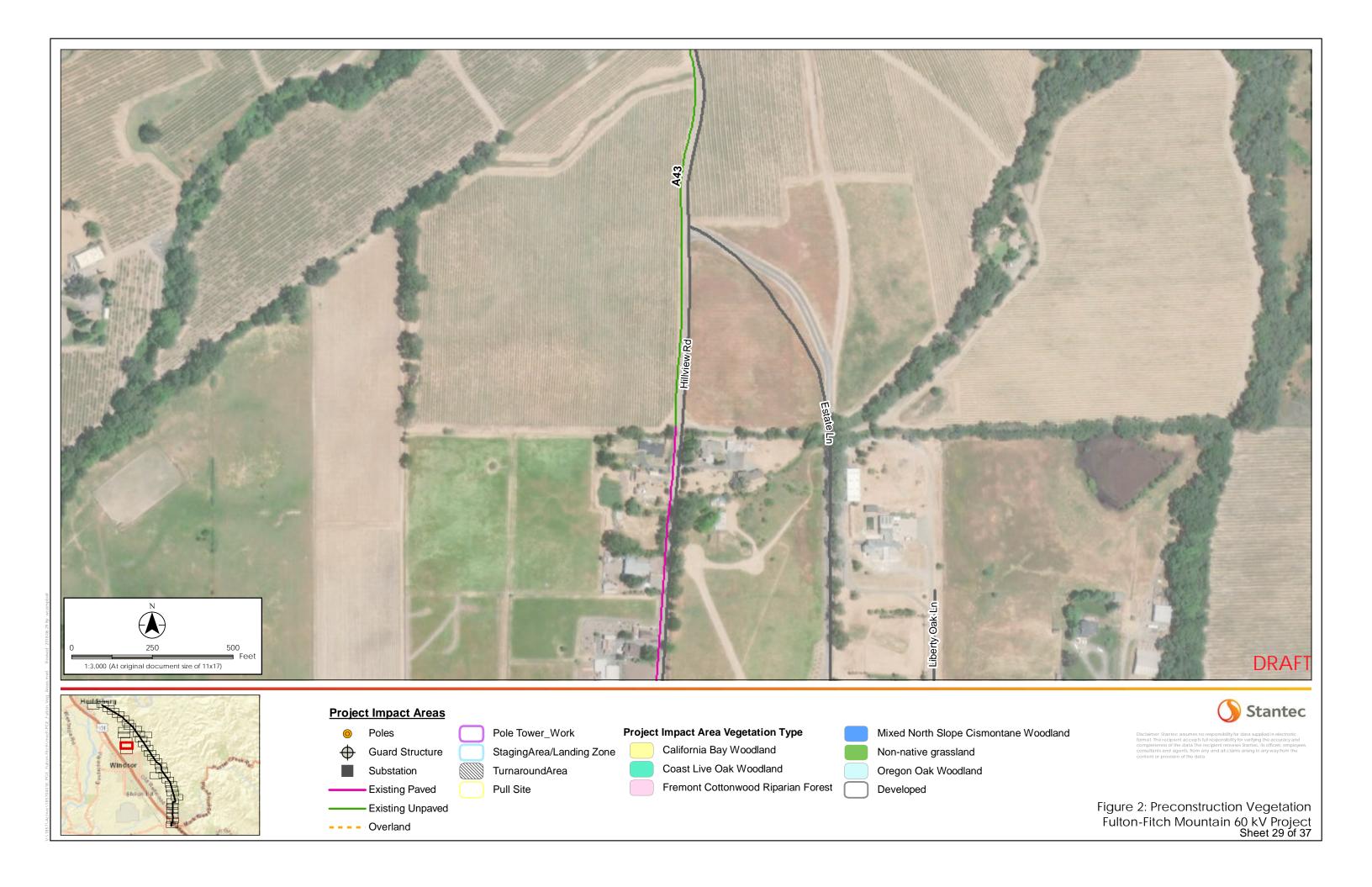


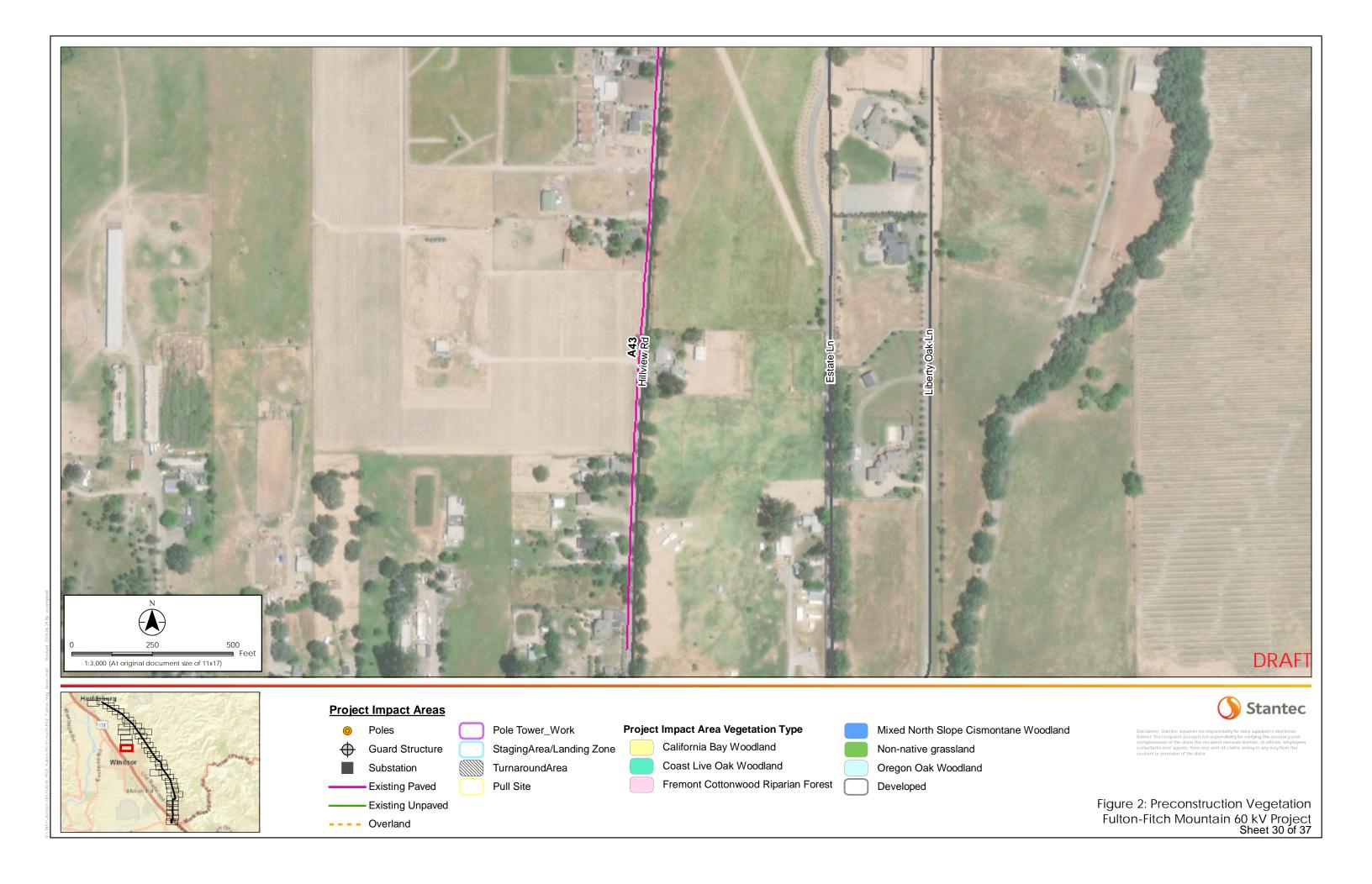


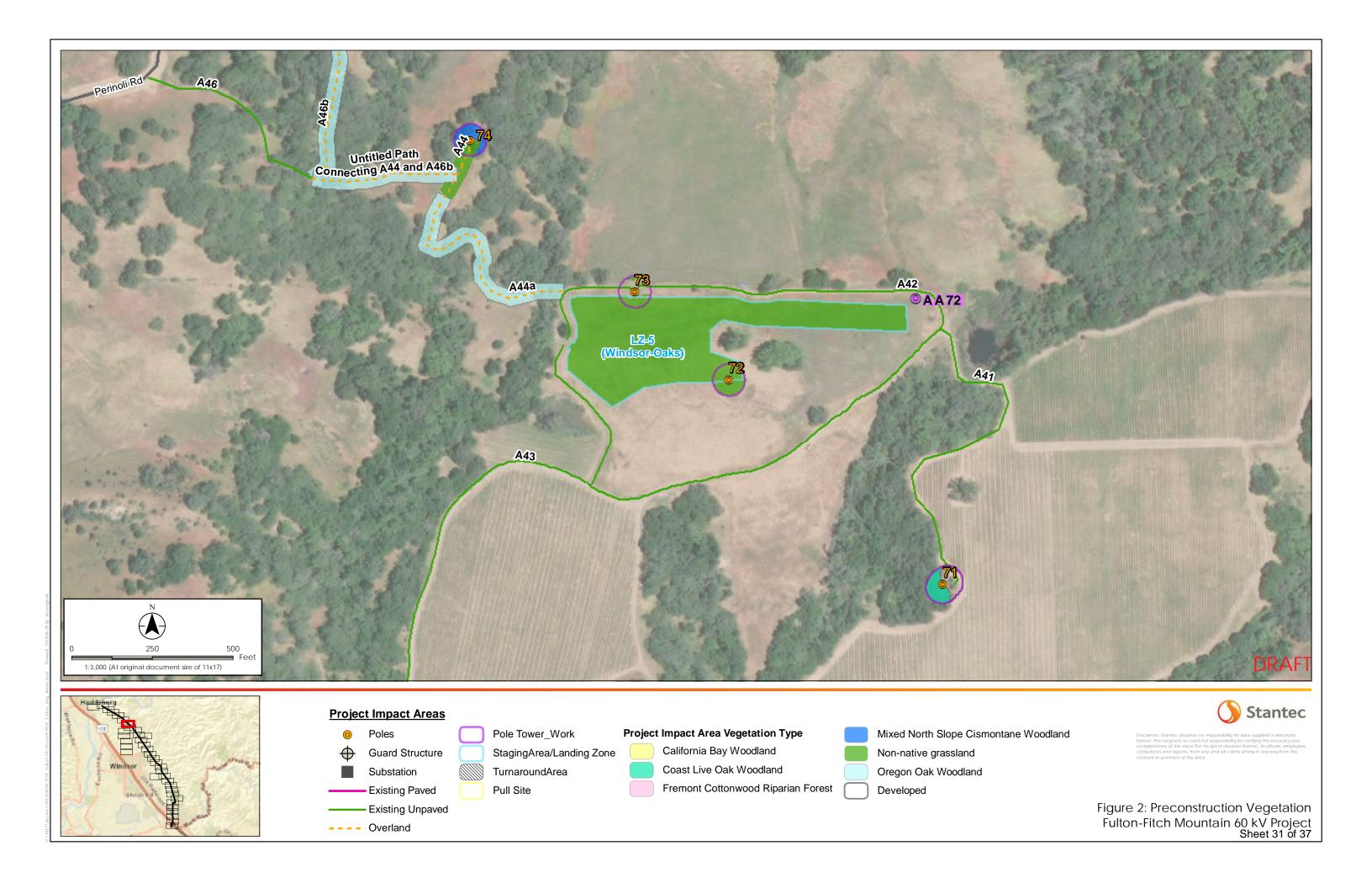


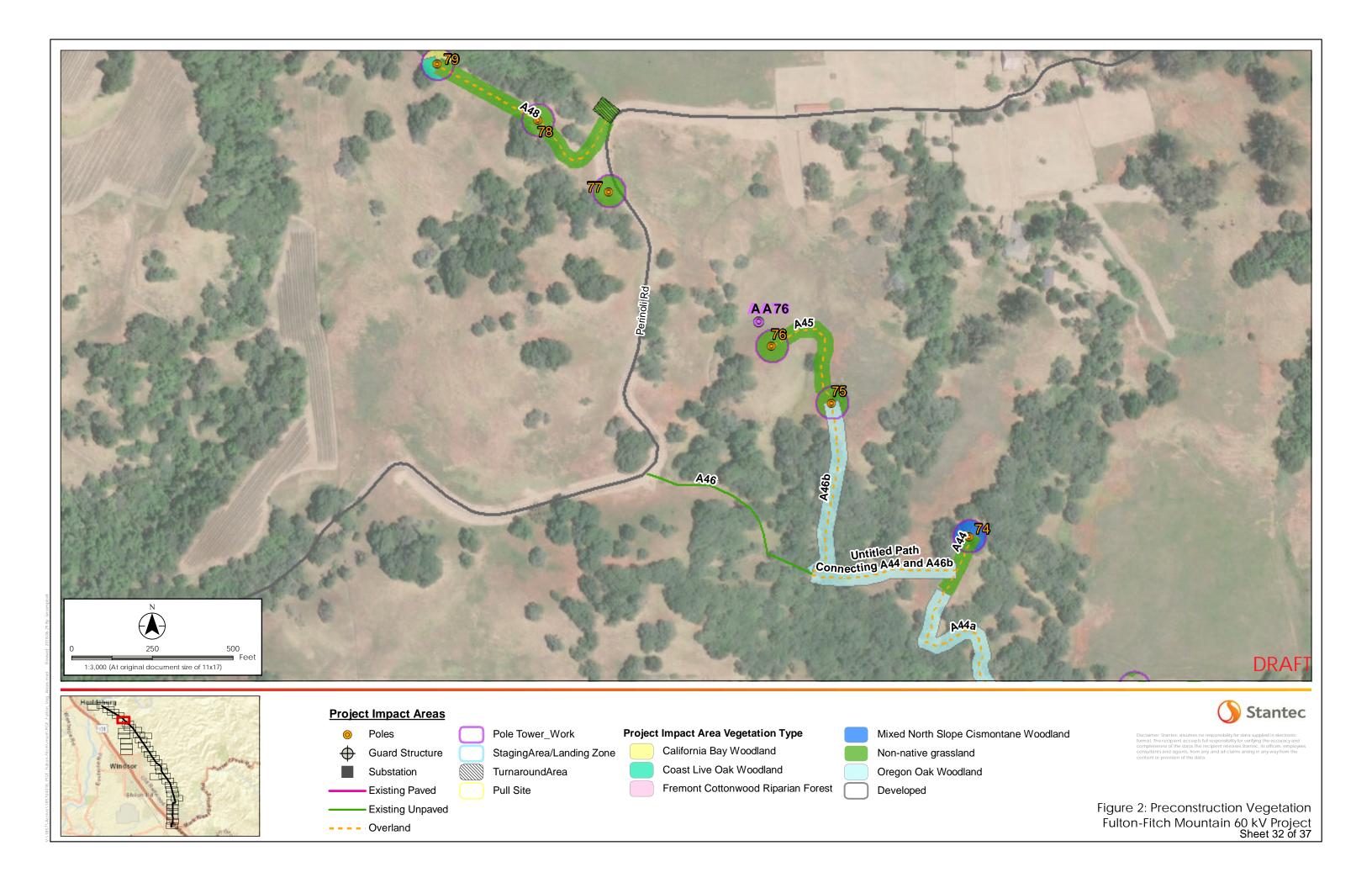


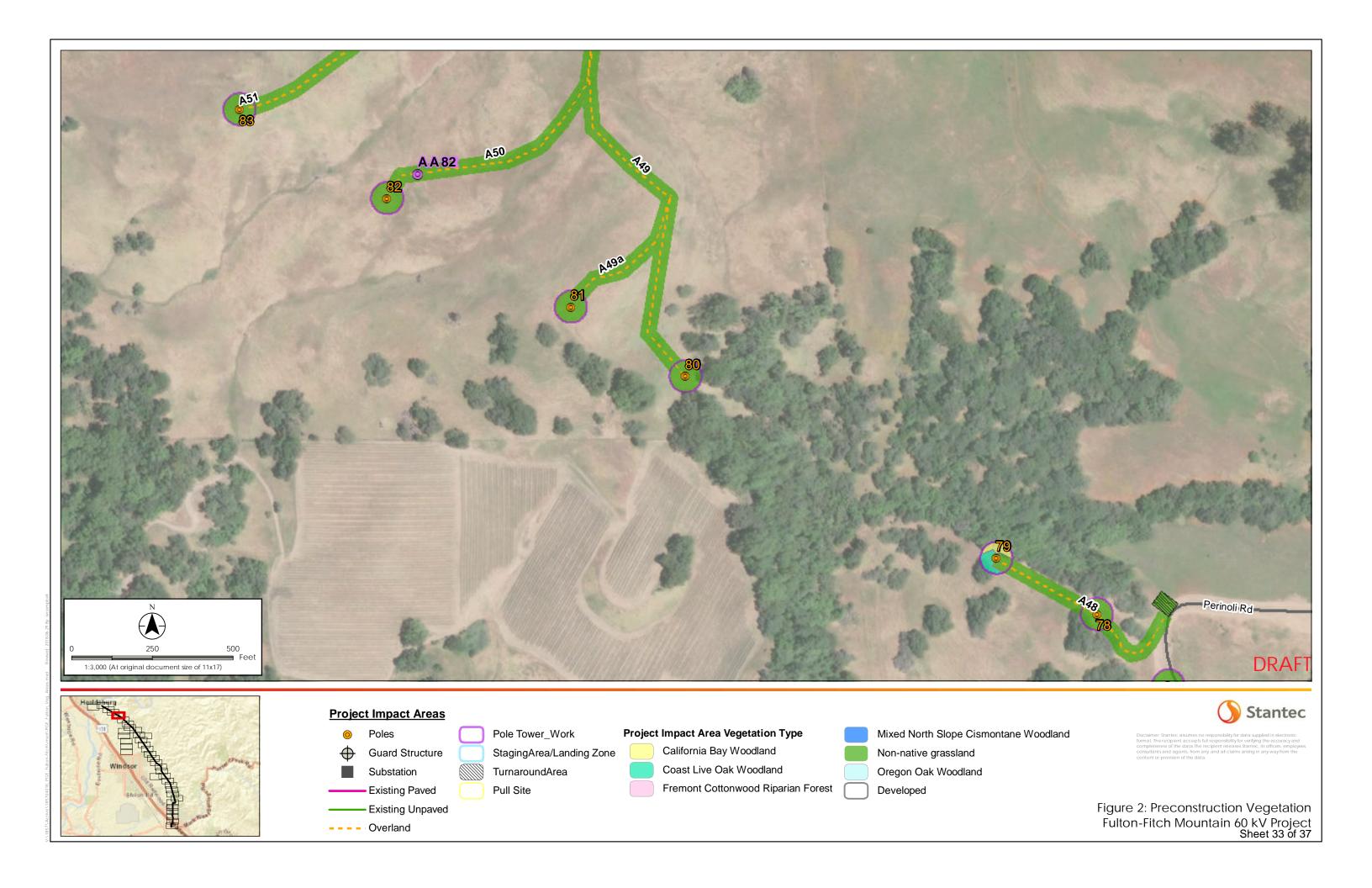


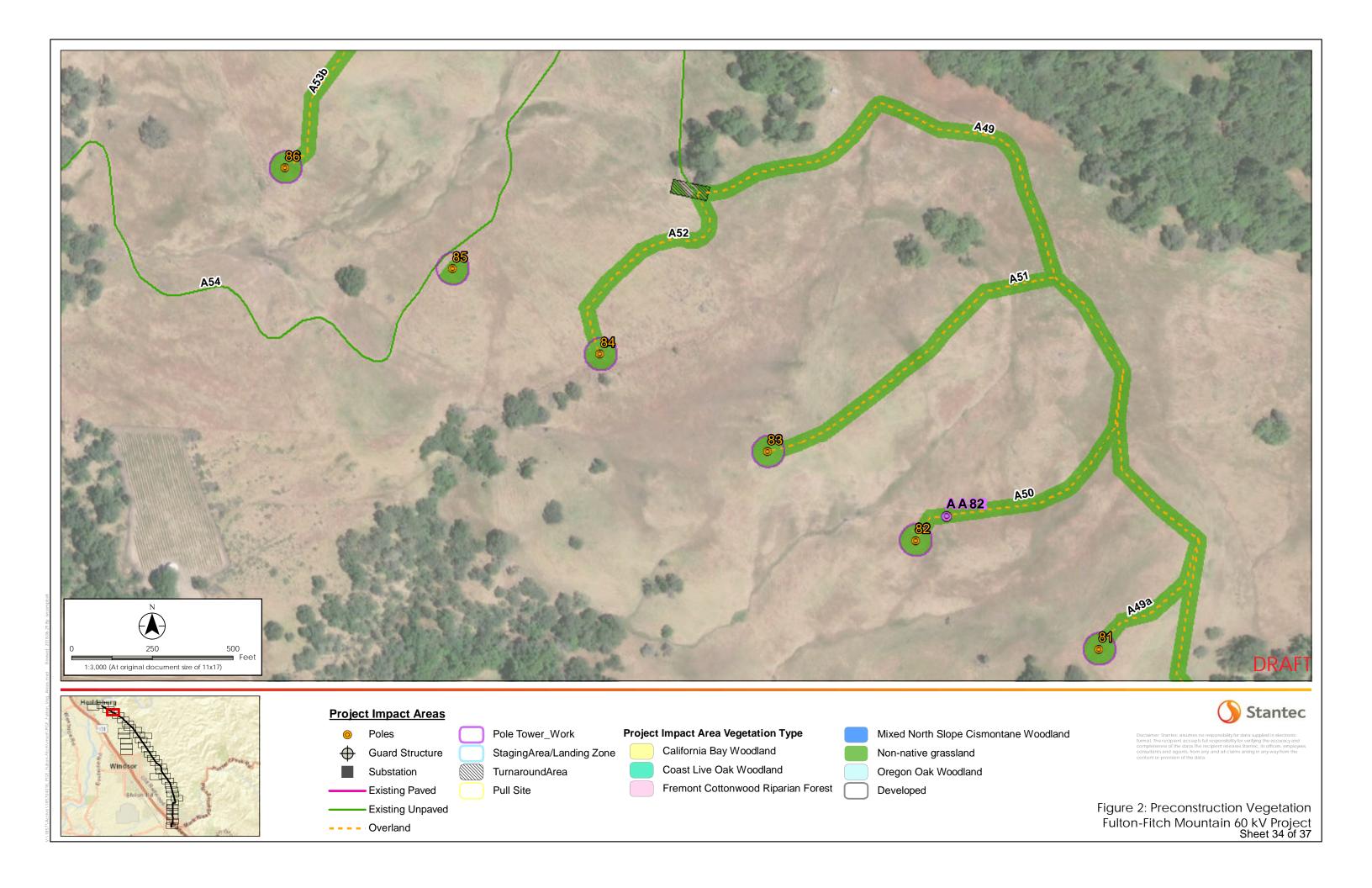


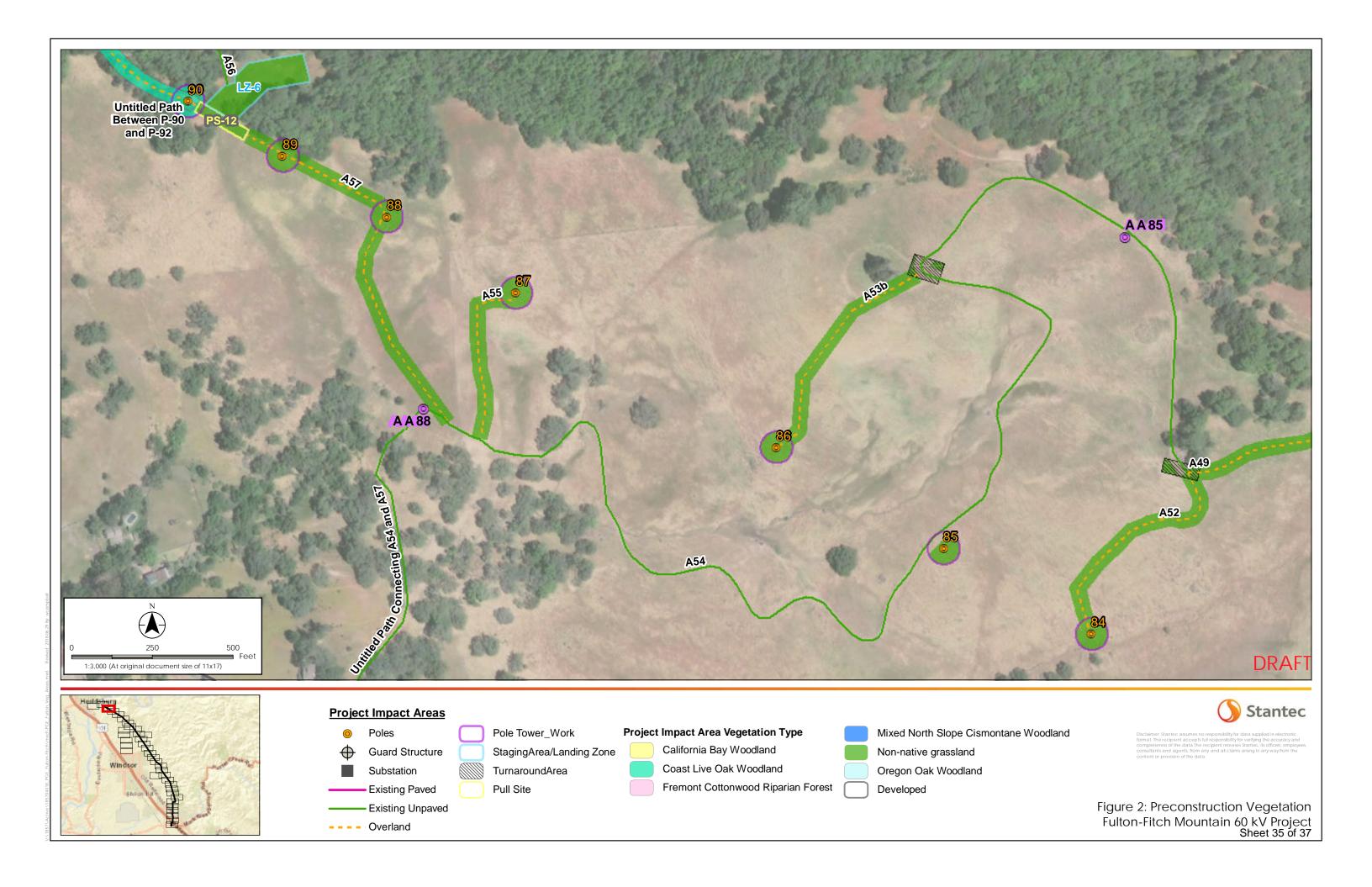


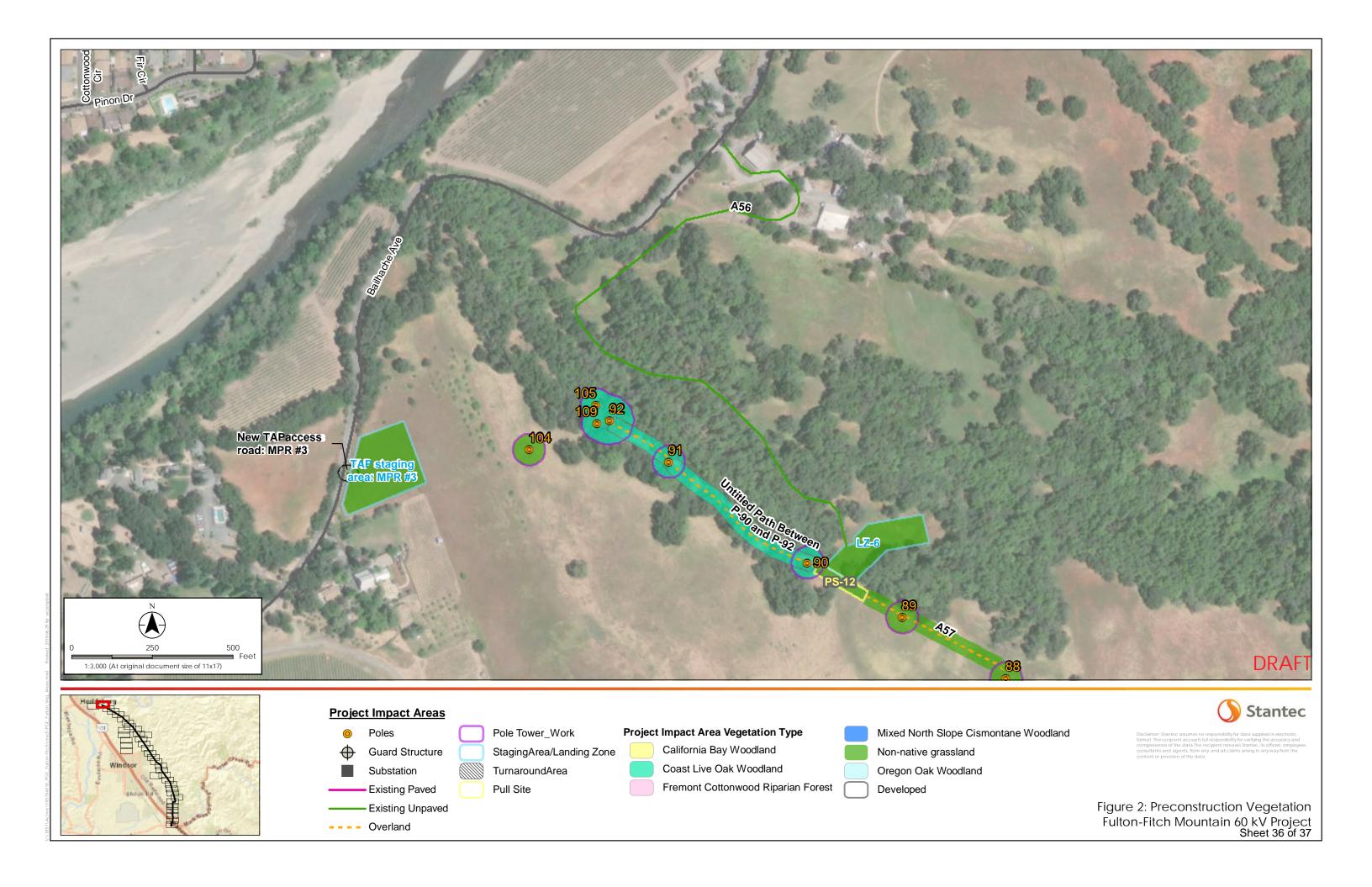


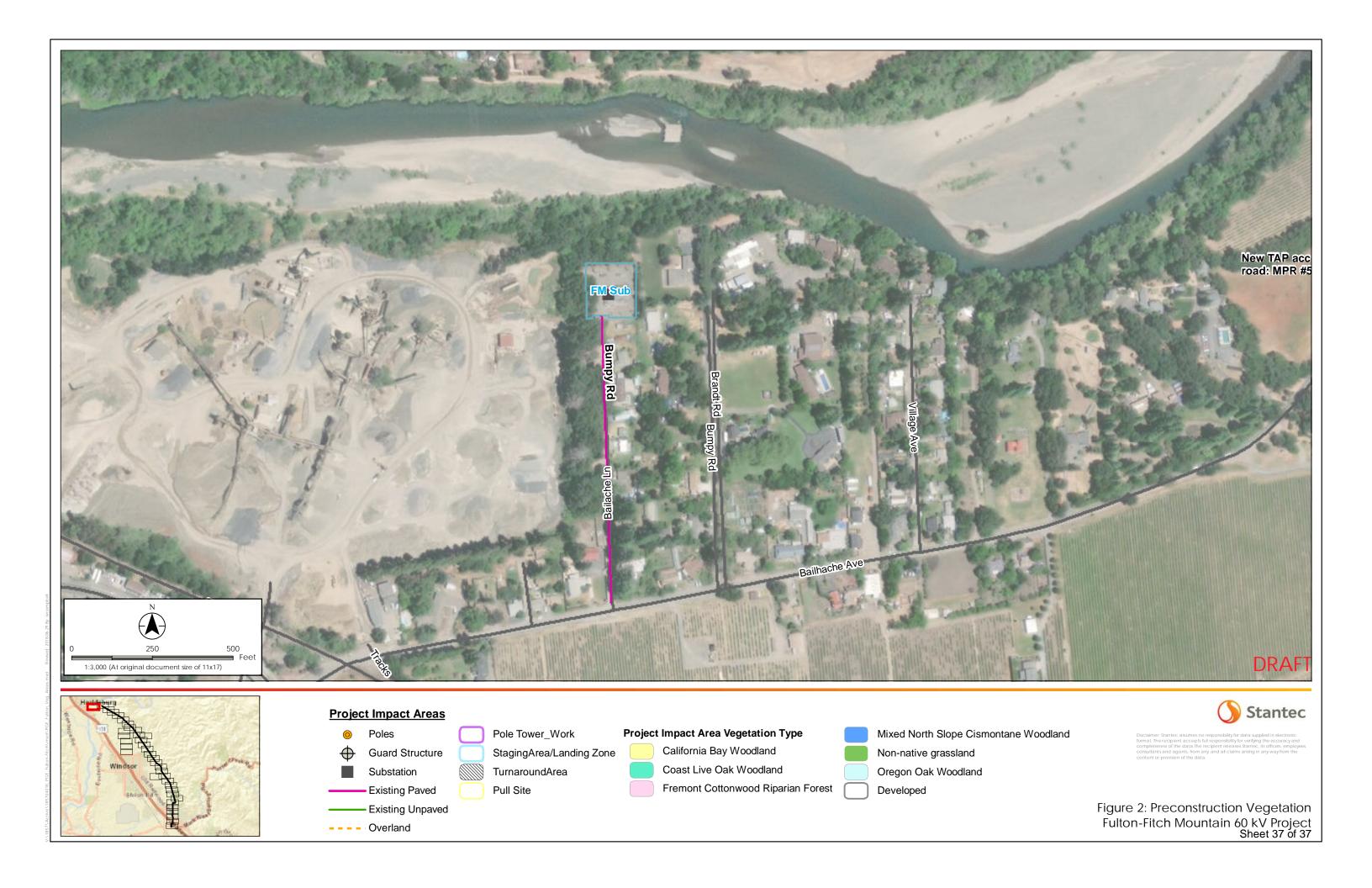














To: Dave Thomas From: Tom Davis

Pacific Gas and Electric Company Stantec Consulting, Inc.

File: Fulton-Fitch Mountain Reconductoring Date: June 29, 2018

Project

Reference: Fulton-Fitch Mountain Reconductoring Project: California Red-Legged Frog and Foothill Yellow-

**Legged Frog Habitat Maps** 

## INTRODUCTION

Pacific Gas and Electric (PG&E) is conducting the Fulton-Fitch Mountain Reconductoring Project (Project) to reinforce the electric transmission and distribution system in Sonoma County by replacing existing conductor (reconductoring) on two power lines pursuant to California Public Utilities Commission (CPUC) General Order (GO) 131-D, Section III.B. PG&E is replacing the conductor on a 9.8-mile-long section of the Fulton-Hopland 60-kilovolt (kV) Power Line (Fulton-Hopland line or 60-kV line) between Fulton Substation and Fitch Mountain Substation. PG&E is also replacing poles along 8 miles of the Fulton-Hopland line and making modifications to Fitch Mountain Substation (Figure 1). The project is comprised of two segments: the Southern Segment, which extends from Fulton Substation to Shiloh Ranch Regional Park, and the Northern Segment, which extends between Shiloh Ranch Regional Park and the Fitch Mountain #1 Tap 60-kV Power Line (Fitch Mountain #1 Tap).

Mitigation Measure (MM) Biology – 3 and MM Biology – 4 of the Initial Study/Mitigated Negative Declaration (IS/MND) issued by the CPUC for the project requires that a qualified biologist map suitable habitat for the federally threatened California red-legged frog (*Rana draytonii*, [CRLF]) and the candidate state-threatened foothill yellow-legged frog (*Rana boylii*, [FYLF]) for submittal to the CPUC. In accordance with MM Biology – 3 and – 4, Stantec has prepared this memo, which includes maps and descriptions of suitable habitat for both species.

PG&E previously submitted an abbreviated report focusing on staging areas at Landing Zone 3 and Landing Zone 5. This report covers the entire Project area, including previously submitted locations (Figure 2).

## **METHODS**

Prior to field surveys, the following survey reports were reviewed:

- Results of surveys for the California red-legged frog near the Fulton-Fitch Mountain Reconductoring Project site; Swaim Biological Incorporated; May 6, 2016
- Habitat Assessment for foothill yellow-legged frog (FYLF) for the Fulton-Fitch Mountain Reconductoring Project; Garcia and Associates; May 1, 2017
- Delineation of Waters of the United States for Pacific Gas and Electric Company's Fulton-Fitch Mountain Reconductoring Project, Sonoma County, California; TRC; May 2015



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Reference: Fulton-Fitch Mountain Reconductoring Project: California Red-Legged Frog and Foothill Yellow-Legged Frog Habitat

Biologists Margaret Finch and Alan Roseto conducted field surveys on March 19, 20, 21, 22, and 23, 2018. Both Ms. Finch and Mr. Roseto were approved by the CPUC as Qualified Biologists for special-status amphibians on the Project. In accordance with a CPUC request via email dated March 23, 2018, Mr. Roseto peer-reviewed Ms. Finch's survey methods and results prior to their inclusion in this memo. During field surveys, the biologists visited water features mapped previously in the three reports listed above and any new water features encountered within 500-feet of project impact areas. Biologists assessed whether each water feature provided suitable aquatic habitat for either frog species, defined in MM Biology – 3 and – 4 as the following:

- California red-legged frog aquatic habitat: ponds, creeks, and perennial and seasonal streams within 500 feet of all project disturbance areas and watercourse crossings.
- Foothill yellow-legged frog aquatic habitat: perennial streams with cobble or rock substrate, or seasonal streams with cobble or rock substrate and standing water, or visible moisture in the immediate vicinity within 10 feet of all project disturbance areas and watercourse crossings.

Biologists visually examined and photographed water features and recorded general habitat conditions.

Three features (C2, WC-01, and WC-02) were not surveyed by a Qualified Biologist. Suitable habitat for CRLF and FYLF has been presumed for these species until closer examination can be conducted by a Qualified Biologist.

## **RESULTS**

No CRLF or FYLF were observed during field surveys. Table 1 provides a summary of water features mapped as suitable aquatic habitat for CRLF and/or FYLF. Water features included in Table 1 are depicted in Figure 2, and photographs of the features are depicted in Attachment A. Figure 2 depicts project impact areas that would be subject to the avoidance, minimization, and monitoring procedures outlined in MM Biology – 3 and – 4 for both CRLF (within a 500-foot buffer of suitable aquatic features) and FYLF (within a 10-foot buffer of suitable aquatic features).



Table 1 Potentially Suitable Aquatic Habitat for CRLF and FYLF

Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
D 1	Drainage	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 2, 3, 4 PS-1	N/A
D 2	Drainage	Yes	CRLF	Seasonal watercourse, no cobble substrate	Pole 5 PS-2	N/A
D 3	Drainage	Yes	CRLF	Seasonal watercourse, no cobble substrate	Pole 5 PS-2	N/A
Pond 30 <sup>1</sup>	Pond	Yes	CRLF	Pond	N/A	N/A
SEW 43	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 8, 9 LZ-1 PS-3	N/A
RIWO 13	Riparian woodland associated with Mark West Creek	Yes	CRLF, FYLF	Perennial stream, cobble substrate	Pole 12, 13, 14	Pole 13



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Reference: Fulton-Fitch Mountain Reconductoring Project: California Red-Legged Frog and Foothill Yellow-Legged Frog Habitat

Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 42	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 19, 20 PS-4	N/A
SEW 41	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 20, 21, 22, 23, 25 PS-4, PS-5, PS-6	N/A
SEW 1	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 22, 23, 25 PS-6	N/A
SEW 9A	Seasonal watercourse	Yes	CRLF/FYLF	Seasonal watercourse, cobble substrate	Poles 21, 22 PS-4, PS-5 LZ-2	Pole 21 PS-5
SEW 9	Seasonal watercourse	Yes	CRLF/FYLF	Seasonal watercourse, cobble substrate	Poles 23, 25 PS-6	Pole 25 work area
SEW 10	Seasonal watercourse	Yes	CRLF/FYLF	Seasonal watercourse, cobble substrate	Poles 25, 26	None



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Reference: Fulton-Fitch Mountain Reconductoring Project: California Red-Legged Frog and Foothill Yellow-Legged Frog Habitat

Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
RIWO 1	Seasonal watercourse	Yes	CRLF/FYLF	Seasonal watercourse, cobble substrate	Pole 26 A04, A06	None
SEW 57	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 28, 29 A09	N/A
RIWO 02	Riparian woodland associated with water feature	Yes	CRLF, FYLF	Seasonal watercourse, cobble substrate	Poles 28, 29 A09 SA-3, SA-4	None
RIWO 03	Riparian woodland associated with water feature	Yes	CRLF, FYLF	Seasonal watercourse, cobble substrate	Pole 30 A10a	None
RIWO 04	Seasonal Watercourse	Yes	CRLF, FYLF	Perennial Stream with cobble substrate	Landing Zone-3, Access Road 11a	None
WC-1	Seasonal Watercourse	N/A	CRLF, FYLF	Assumed	Landing Zone-3 A10a, A11a	MPR #2: new access road to LZ-3



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
WC-2	Seasonal Watercourse	N/A	CRLF, FYLF	Assuming suitability	Landing Zone-3 A10a, A11a	MPR #2: new access road to LZ-3
C2 <sup>2</sup>	Seasonal watercourse	N/A	CRLF, FYLF	Assuming suitability	Access Road 11a	None
Pond 5 <sup>1</sup>	Pond	Yes	CRLF	Pond	Pole 35 A12	N/A
SEW 12a	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 32, 33 A11	N/A
SEW 12	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 33, 34 A11	N/A
SEW 12b	Seasonal watercourse	Yes	CRLF	Seasonal watercourse, no cobble substrate	Poles 33, 34 A11	N/A
Pond 6 <sup>1</sup>	Pond	Yes	CRLF	Pond	Poles 36, 37, 38 A12, A13, A14	N/A



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 14	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 36, 37, 38 A12, A13, A14	N/A
SEW 13	Seasonal watercourse	No	None	Dry swale	N/A	N/A
RIWO 05	Riparian woodland associated with Pool Creek	Yes	CRLF, FYLF	Perennial Stream with cobble substrate	Pole 42 A15a, A16	None
RIWO 06	Riparian woodland associated with Pool Creek	Yes	CRLF, FYLF	Perennial Stream with cobble substrate	Pole 42 A15a, A16	None
SEW 21	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 48, 49 A16, A23a, A23, A22	N/A
SEW 20	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 48, 49 A16, A23a, A23, A22	N/A
SEW 19	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 48, 49 A16, A23a, A23, A22	N/A



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 18	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 46, 47, 48 A21, A22, A23, A23a, A16	N/A
SEW 17	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 45, 46, 47, 48 A21, A22, A23, A23a, A16	N/A
SEW 16	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 45, 46, 47, 48 A21, A22, A23, A23a, A16	N/A
SEW 15	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Poles 45, 46, 47, 48 A21, A22, A23, A23a, A16	N/A
RIWO 07	Riparian woodland associated with Wright Creek	No	CRLF, FYLF	Seasonal stream, no cobble substrate	Poles 50, 51 A16, A24	N/A
SEW 24b	Seasonal watercourse	Yes	CRLF	Minimal cobble substrate present	Poles 56, 57 A26, A27, A28, A30	None
SEW 23	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Poles 56, 57 A26, A27, A28, A30	None



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SW 4	Seasonal wetland	No	CRLF	Pond	Poles 54, 55 A25, A26, A27	N/A
Pond 10 <sup>1</sup>	Pond	Yes	CRLF	Pond	None	N/A
SEW 22	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Pole 54 A25	N/A
SEW 24	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Poles 56, 57 A28, A30	N/A
SEW 24a	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Poles 56, 57 A28, A30	N/A
SEW 7a	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Pole 58 A31, A32	N/A
SEW 28	Seasonal watercourse	Yes	CRLF	Seasonal stream, minimal cobble substrate	Poles 63, 64 LZ-5	None
Pond 17 <sup>1</sup>	Pond	Yes	CRLF	Pond	Poles 63, 64 A34	N/A



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 99	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Poles 63, 64 A34	None
RIWO 08	Riparian woodland associated with Windsor Creek	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Pole 63	None
D 5	Drainage	Yes	CRLF, FYLF	Drainage ditch with cobble substrate	Pole 67 A36, A37	A36
SEW 3b	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Pole 67 A36, A37	None
SEW 3a	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Pole 67 A36, A37	None
SEW 3	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Pole 67 A36, A37, A35	A36
SEW 3c	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Pole 67 A36, A37	N/A



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 3d	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Pole 67 A36, A37	N/A
SEW 30	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Poles 66, 67 A36, A37	None
SEW 2	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Poles 66, 67 A36, A37, A35	A35, A36
SEW 29	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Poles 65. 66 A36, A37, A35	None
SEW 31	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Poles 69, 70 A38, A39	None
SEW 04	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Poles 68, 69 A38, A39,	None
Pond 19a <sup>1</sup>	Pond	Yes	CRLF	Perennial irrigation pond	Access Road A43 (Hillview Road), Access Road A39.	N/A



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
Pond 19b <sup>1</sup>	Pond	Yes	CRLF	Perennial irrigation pond	Access road A43 (Hillview Road).	N/A
Pond 20 <sup>1</sup>	Pond	Yes	CRLF	Pond	Landing Zone-5, Access Road 42	N/A
SEW c	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	A39	A39
SEW d	Seasonal watercourse	Yes	CRLF	Seasonal stream, cobble substrate	A39	A39
SEW 56, RIWO 9, SEW 32a	Seasonal watercourses with connectivity	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	A39	A39
RIWO 11/SEW 8	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream, cobble substrate	Poles 74, 75, 76 A44, A44a, A46, A46b	A46
SW 9	Seasonal Wetland	No	CRLF	Seasonal wetland, no cobble substrate	Poles 74, 75, 76 A44, A44a, A46, A46b	N/A
SEW 8a	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Poles 74, 75, 76 A46, A44, A44a	N/A



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 33	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Landing Zone-5, Access Road 42, Access Road 43	Access Road 42
SEW 34	Seasonal watercourse	Yes	CRLF	Seasonal stream.  Minimal to no cobble substrate and not connected to larger water feature.	Landing Zone-5, Access Road 42	N/A
Pond 21 <sup>1</sup>	Pond	Yes	CRLF	Pond	Poles 72, 73 Landing Zone-5, Access Road 42, Access Road 43	N/A
Pond 22 <sup>1</sup>	Pond	Yes	CRLF	Pond	Landing Zone-5 A41, A42	N/A
RIWO 10	Riparian woodland associated with seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Landing Zone-5, Access Road 42	Access Road 42
SEW 37	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Pole 77 A46	None



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 37a	Seasonal watercourse	Yes	CRLF	Seasonal stream with minimal cobble substrate	Pole 77 A46	None
SEW 35	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Poles 75, 76 A46, A46b	N/A
SEW 39	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Poles 82, 83 A50	None
Pond 23 <sup>1</sup>	Pond	Yes	CRLF	Pond	Poles 82, 83 A50	N/A
SW 11	Seasonal wetland	Yes	CRLF	Pond	Pole 82 A50	N/A
SEW 38	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Poles 81, 82, 83 A50	None
SEW 60, RIWO 12	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Poles 79, 80, 81 A50 A49, A49a, A48	None



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW 5	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Poles 85, 86. A52, A54, A53b,	A54
SEW 40	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Poles 83, 84, 85 A51, A52, A54, A49	Pole 84
SW 12	Seasonal wetland	Yes	CRLF	Seasonal stream, no cobble substrate	Pole 83 A51	N/A
SEW 59	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Pole 83 A51	N/A
SW 13	No feature visible	No	None	No feature visible	N/A	N/A
SW 58	Seasonal watercourse	No	CRLF	Seasonal stream, no cobble substrate	Pole 86, 85	N/A
SW 16	Unknown	No	None	No sign of wetland or water feature	N/A	N/A



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
				present during survey		
SW 14	Pond	No	CRLF	Pond	Pole 87 A55, A54	N/A
SW 15	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Pole 87, 88 A55, A54	None
SEW 6	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	Pole 87 A54, A55	A54
C3	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	TAP staging area	WC-9
SEW-a	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal wetland with cobble substrate	A56	None



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Water Feature ID	Water Feature Type	Water present?	Species Suitability	Rationale	Impact Areas Within 500 ft. of feature (CRLF)	Impact Areas within 10 ft. of feature (FYLF)
SEW-bb	Seasonal watercourse	Yes	CRLF, FYLF	Seasonal stream with cobble substrate	A56	A56
SEW-ba	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	Pole 91, 92 A56	N/A
SEW-b	Seasonal watercourse	Yes	CRLF	Seasonal stream, no cobble substrate	A56	N/A

<sup>&</sup>lt;sup>1</sup> Pond naming convention uses Swaim, 2016.

<sup>&</sup>lt;sup>2</sup> Feature not surveyed in the field. Suitable habitat is presumed.



## **CONCLUSION**

The water features listed in Table 1 and depicted in Figure 2 were determined to be suitable habitat for CRLF and/or FYLF, as defined in MM Bio – 3 and MM Bio – 4. Avoidance and minimization measures included in these MM's in the IS/MND will be implemented in project impact areas within 500 feet of CRLF-suitable features and within 10 feet of FYLF-suitable features (Figure 2). This memo covers the entire project area, including Landing Zone (LZ) - 3 and LZ - 5 and associated access roads, which were covered in a previously submitted abbreviated report (Stantec, 2018). Minor Project Refinement #2 for a new access road to LZ – 3 assumed suitable habitat for CRLF and FYLF at two water crossings on this road: WC-01 and WC-02.

## **REFERENCES**

Panorama Environmental, Inc. 2017. Fulton-Fitch Mountain Reconductoring Project Final Initial Study/Mitigated Negative Declaration. State Clearinghouse No. 2017072049.

Results of surveys for the California red-legged frog near the Fulton-Fitch Mountain Reconductoring Project site; Swaim Biological Incorporated; May 6, 2016.

Fulton-Fitch Mountain Reconductoring Project: Revised California Red-Legged Frog and Foothill Yellow-Legged Frog Habitat Maps, Staging Areas (Landing Zone 3 and Landing Zone 5). Stantec Consulting Services, Inc. 2018.

Tom Davis

Senior Biologist/Project Manager

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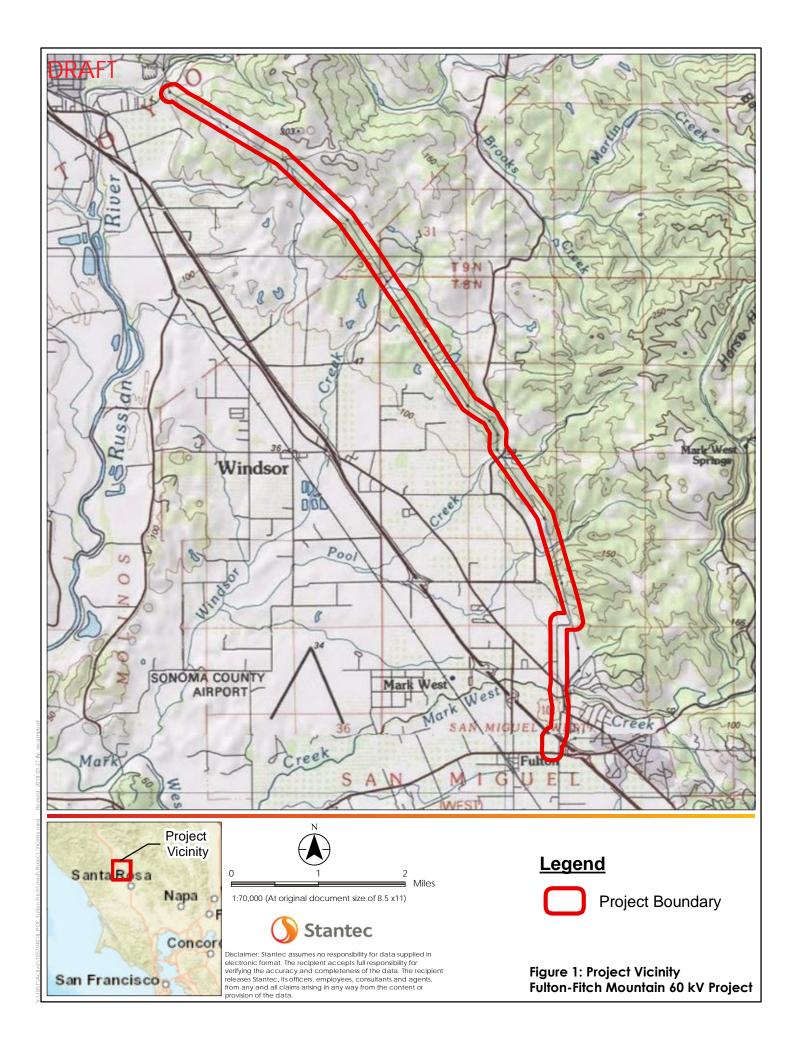
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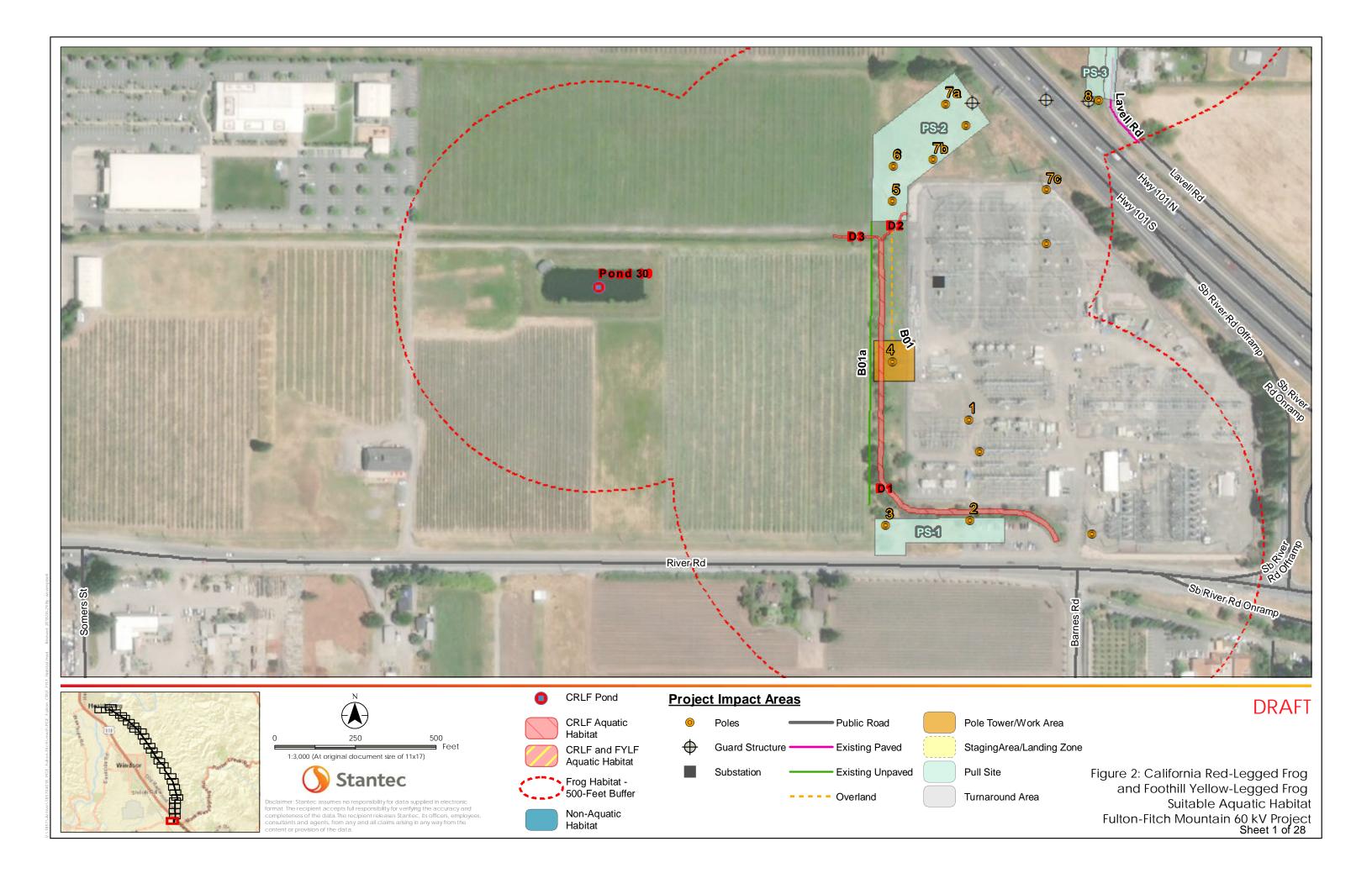
Attachment: Figure 1: Project Vicinity

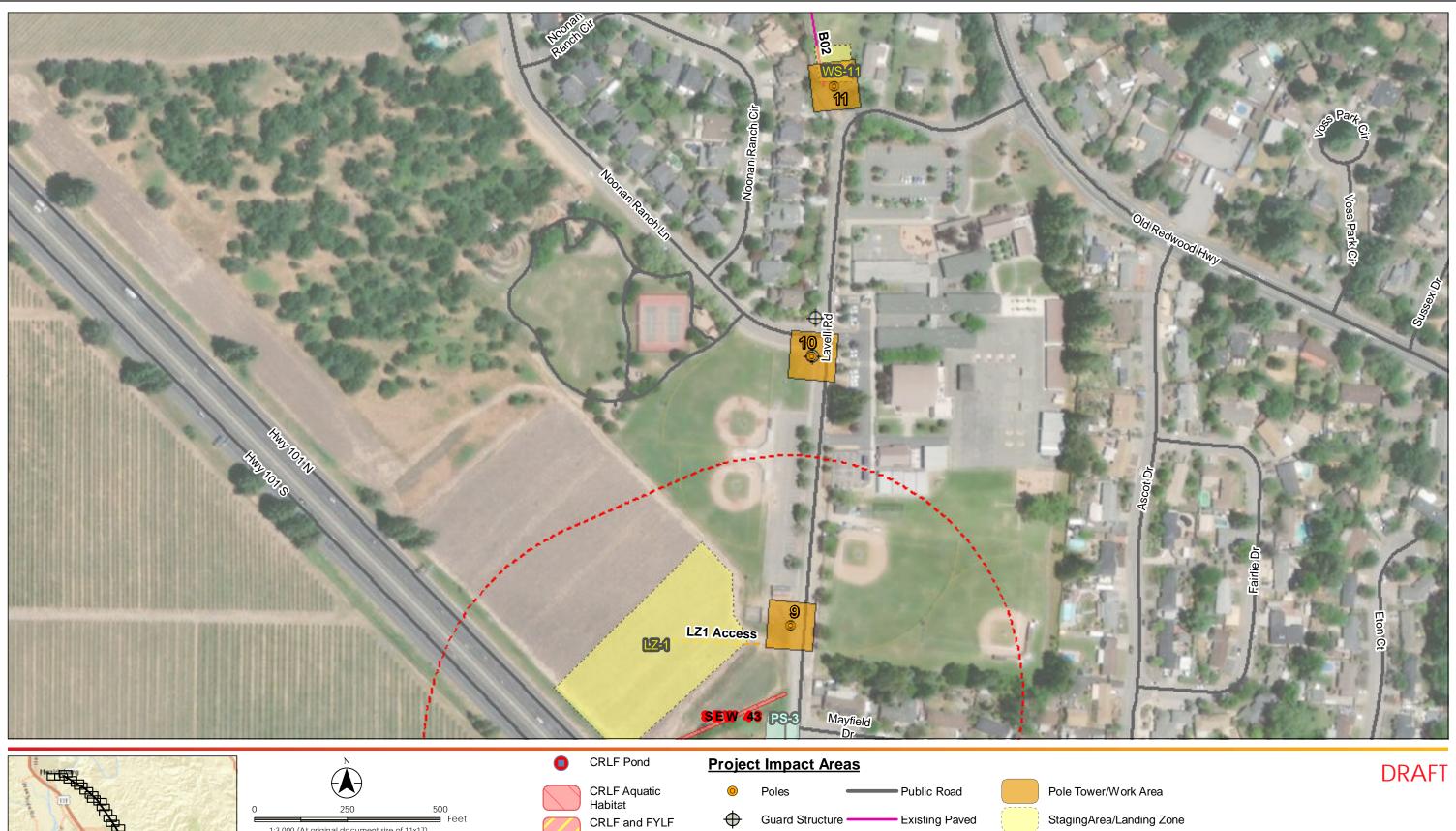
Figure 2: California Red-Legged Frog and Foothill Yellow-Legged Frog Suitable

**Aquatic Habitat** 

c. C.C.











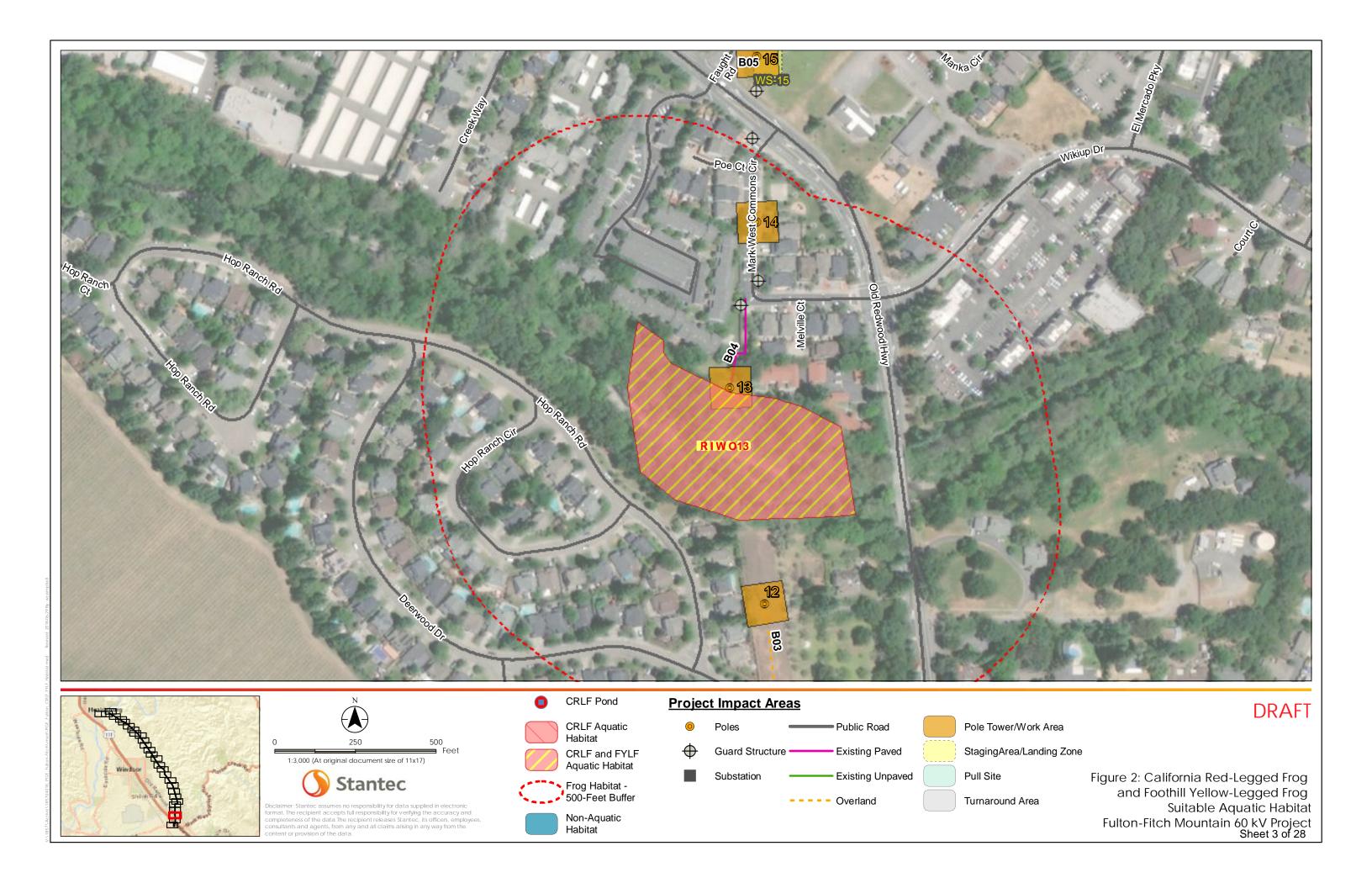
Aquatic Habitat

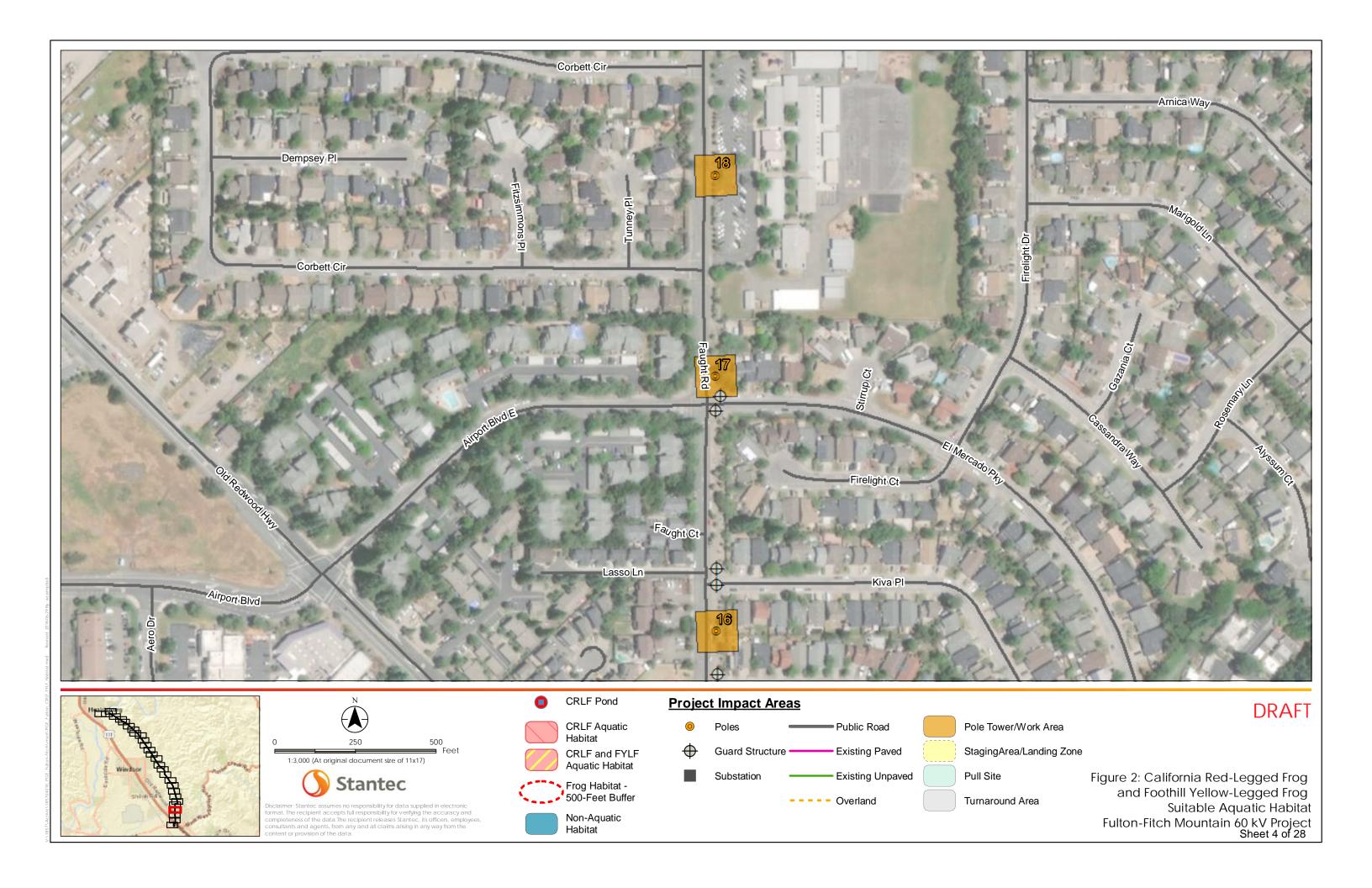


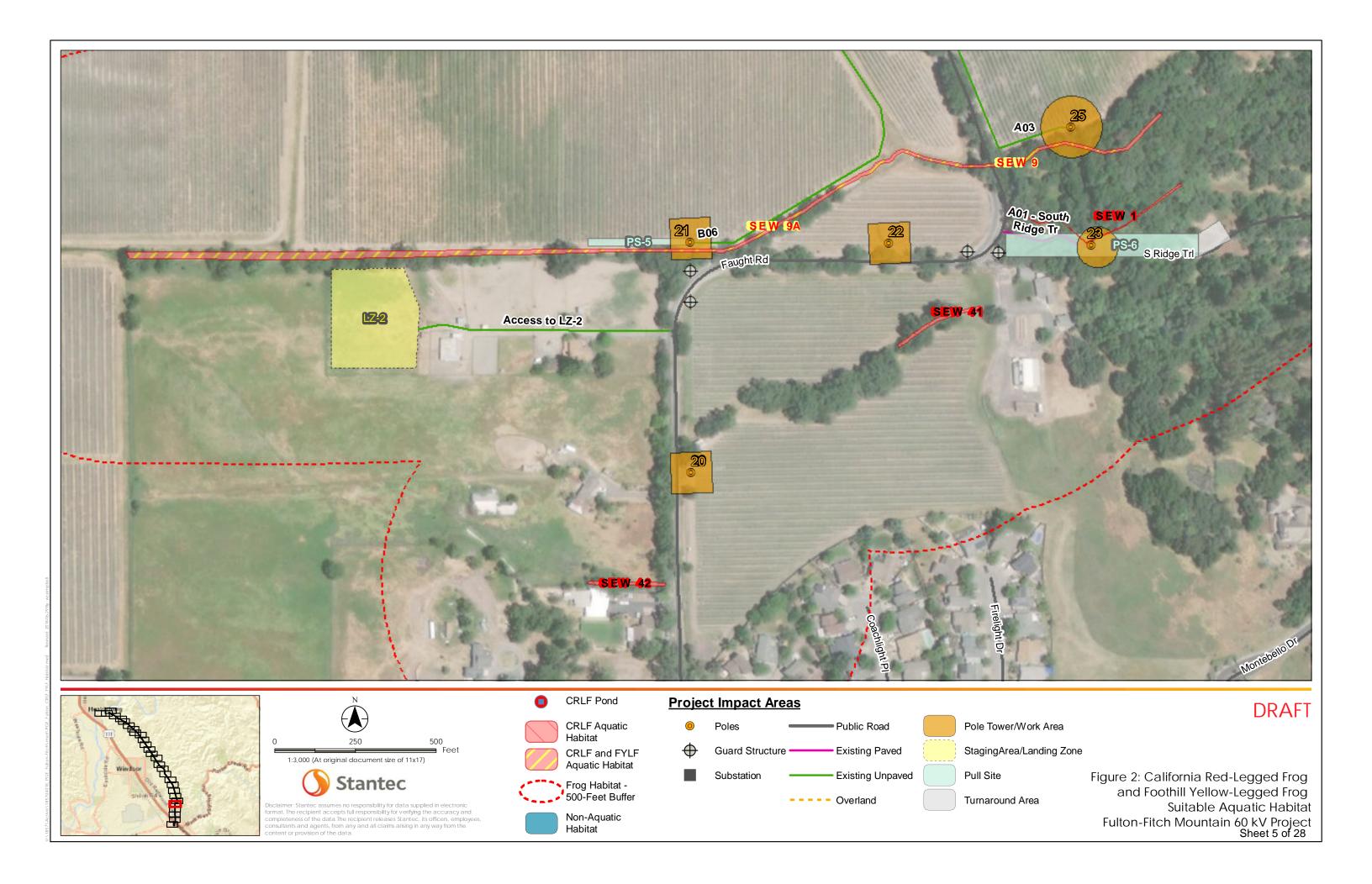
Non-Aquatic Habitat

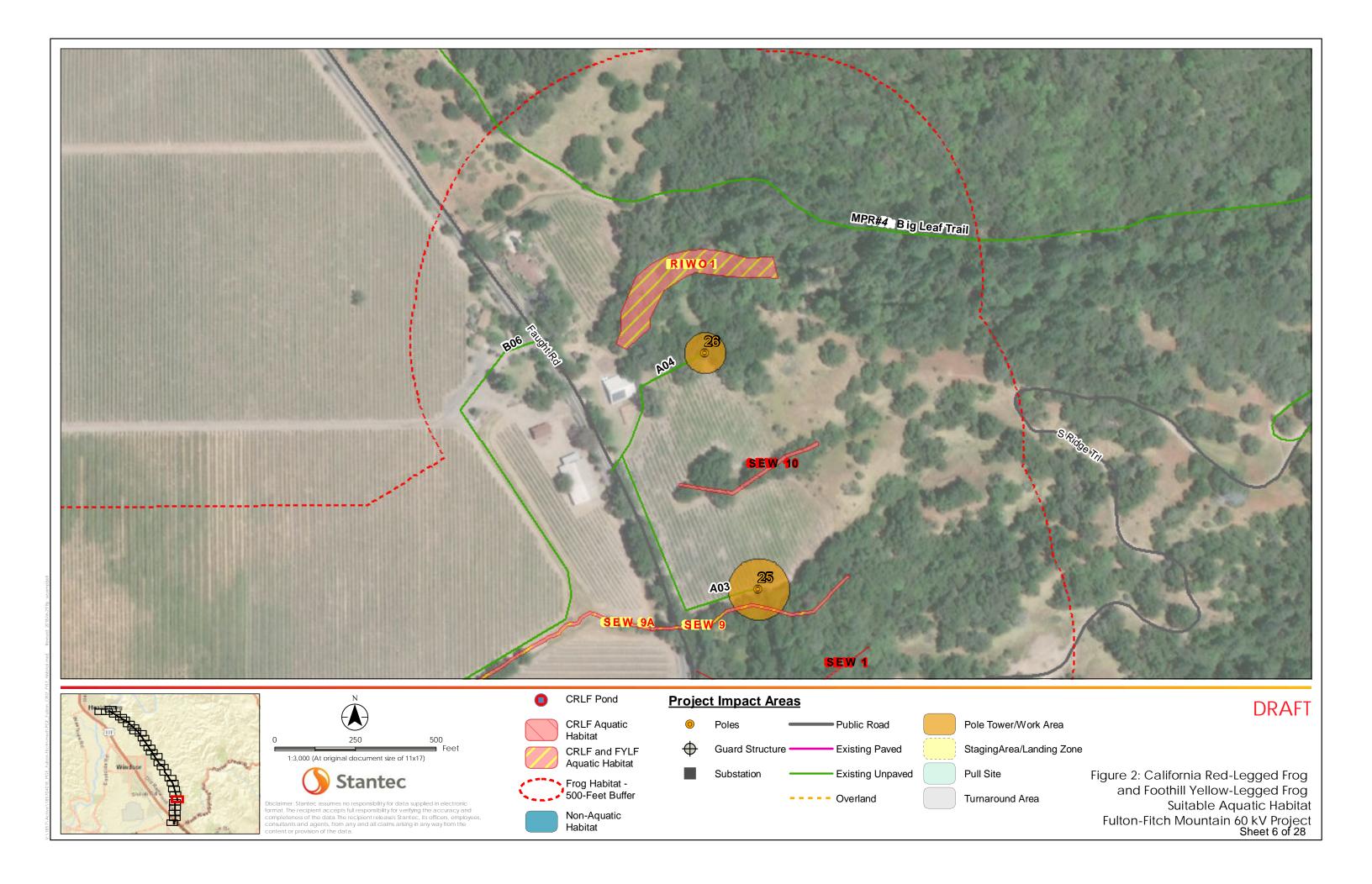


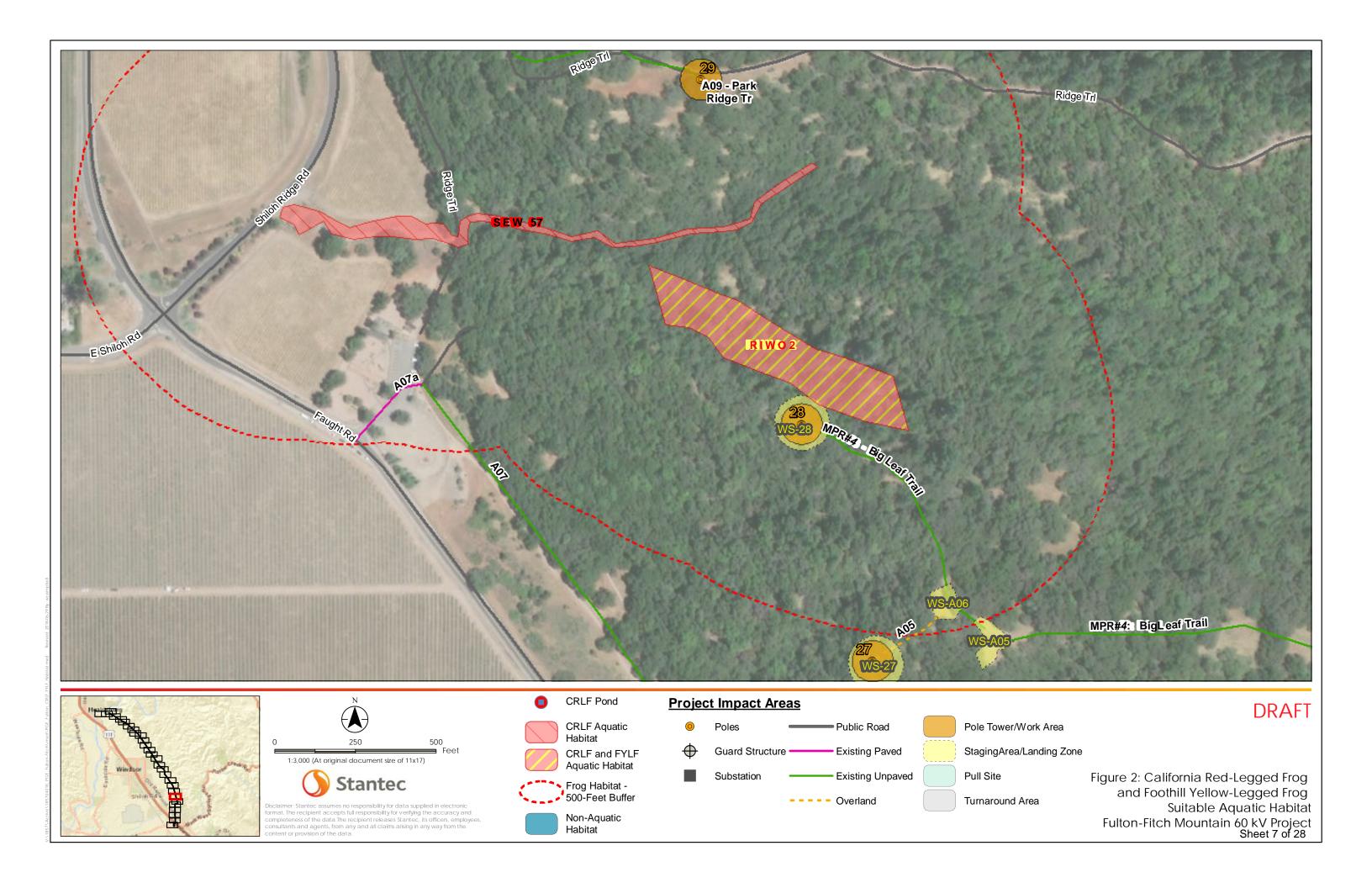
Figure 2: California Red-Legged Frog and Foothill Yellow-Legged Frog Suitable Aquatic Habitat Fulton-Fitch Mountain 60 kV Project Sheet 2 of 28

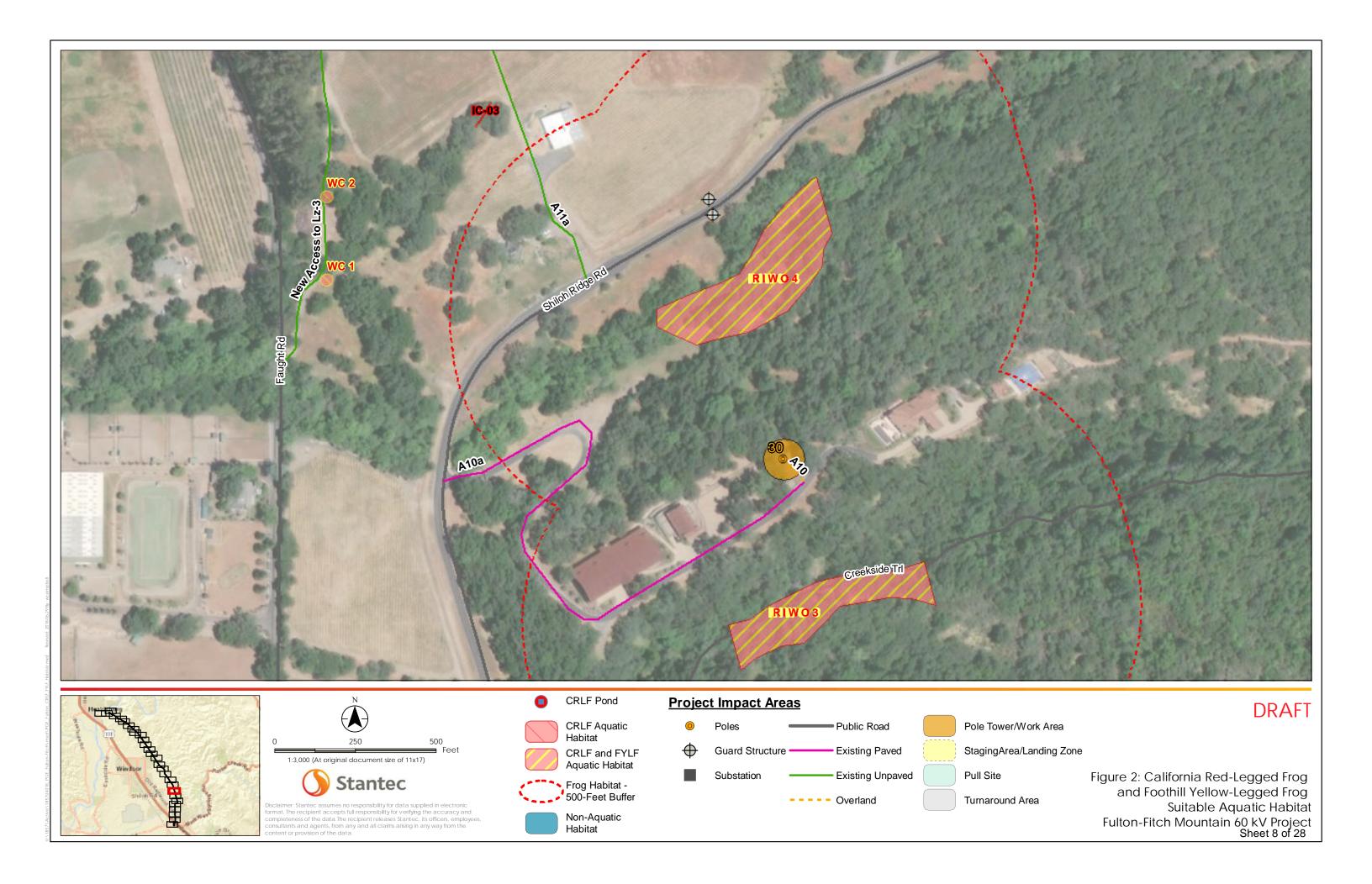


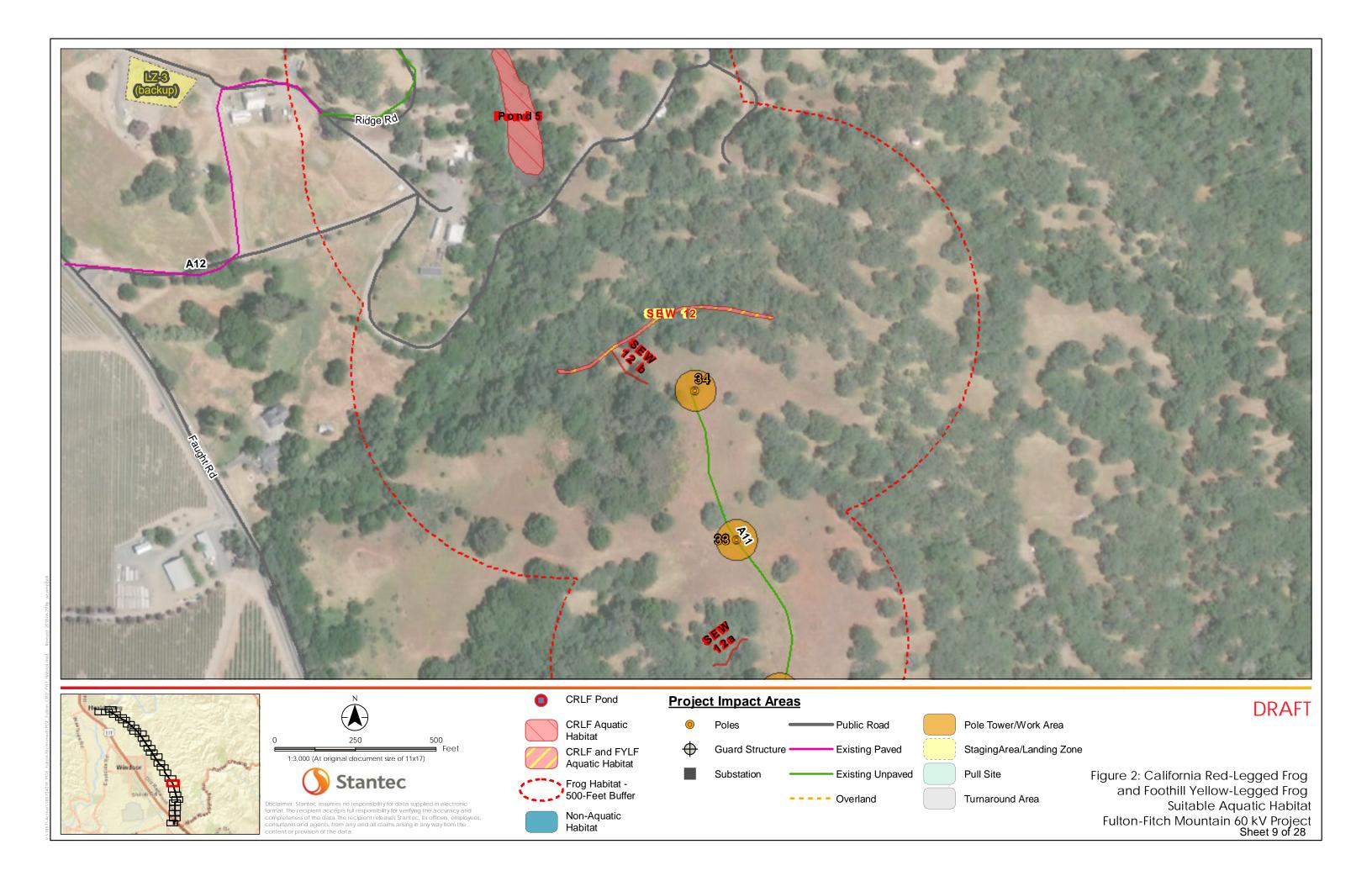


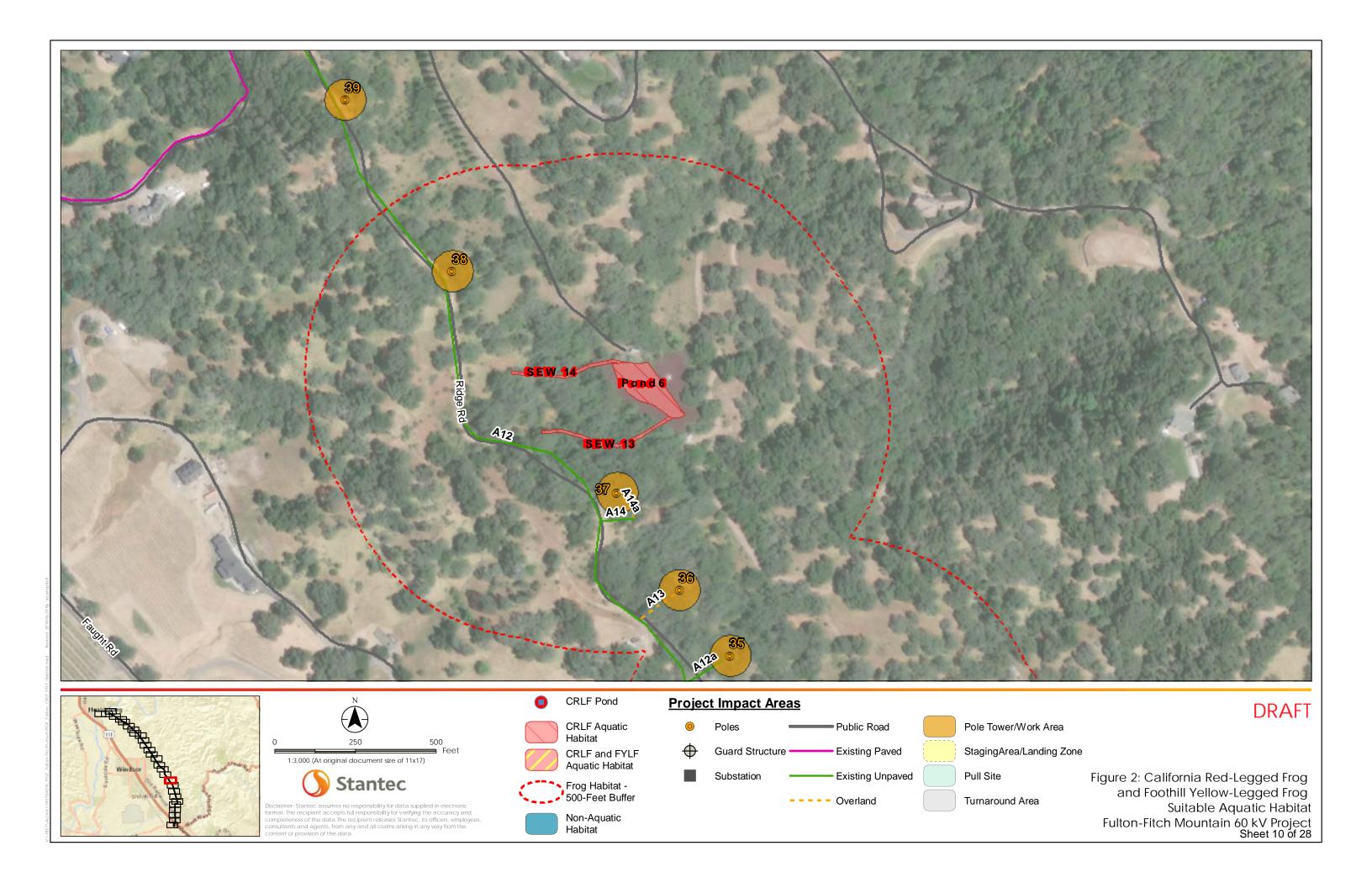


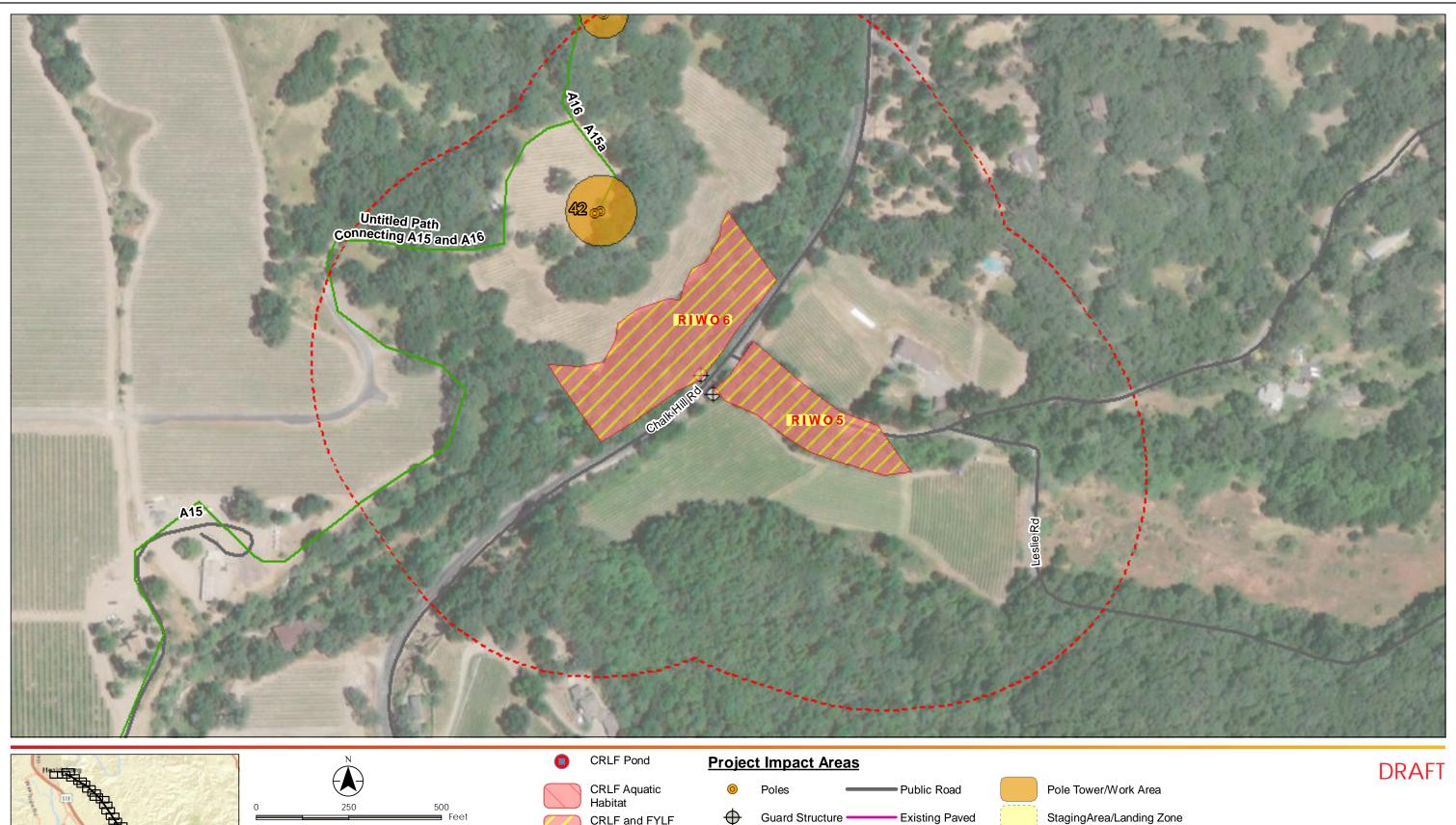




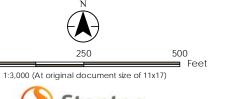






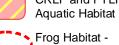




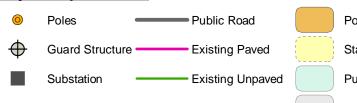






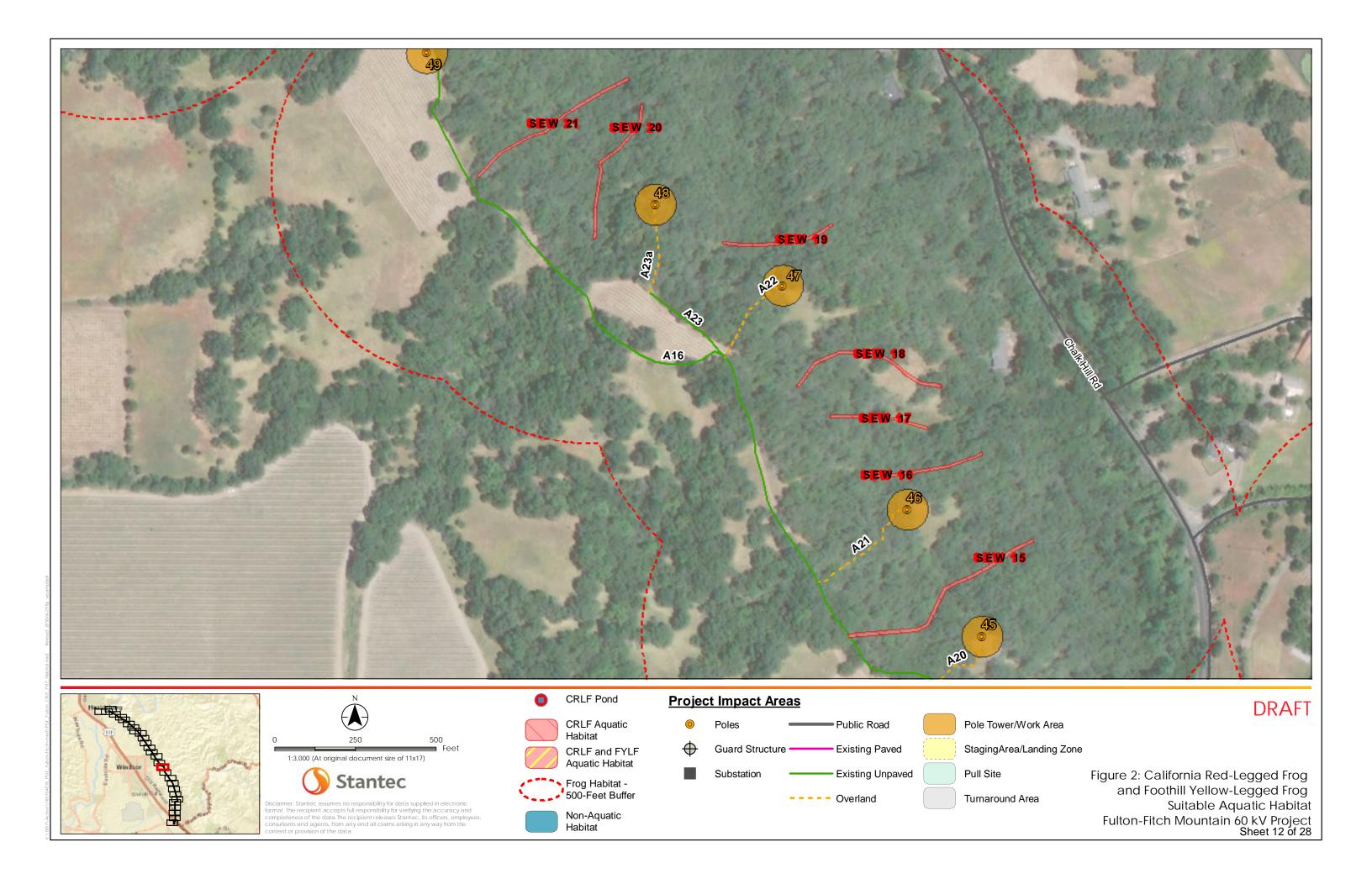


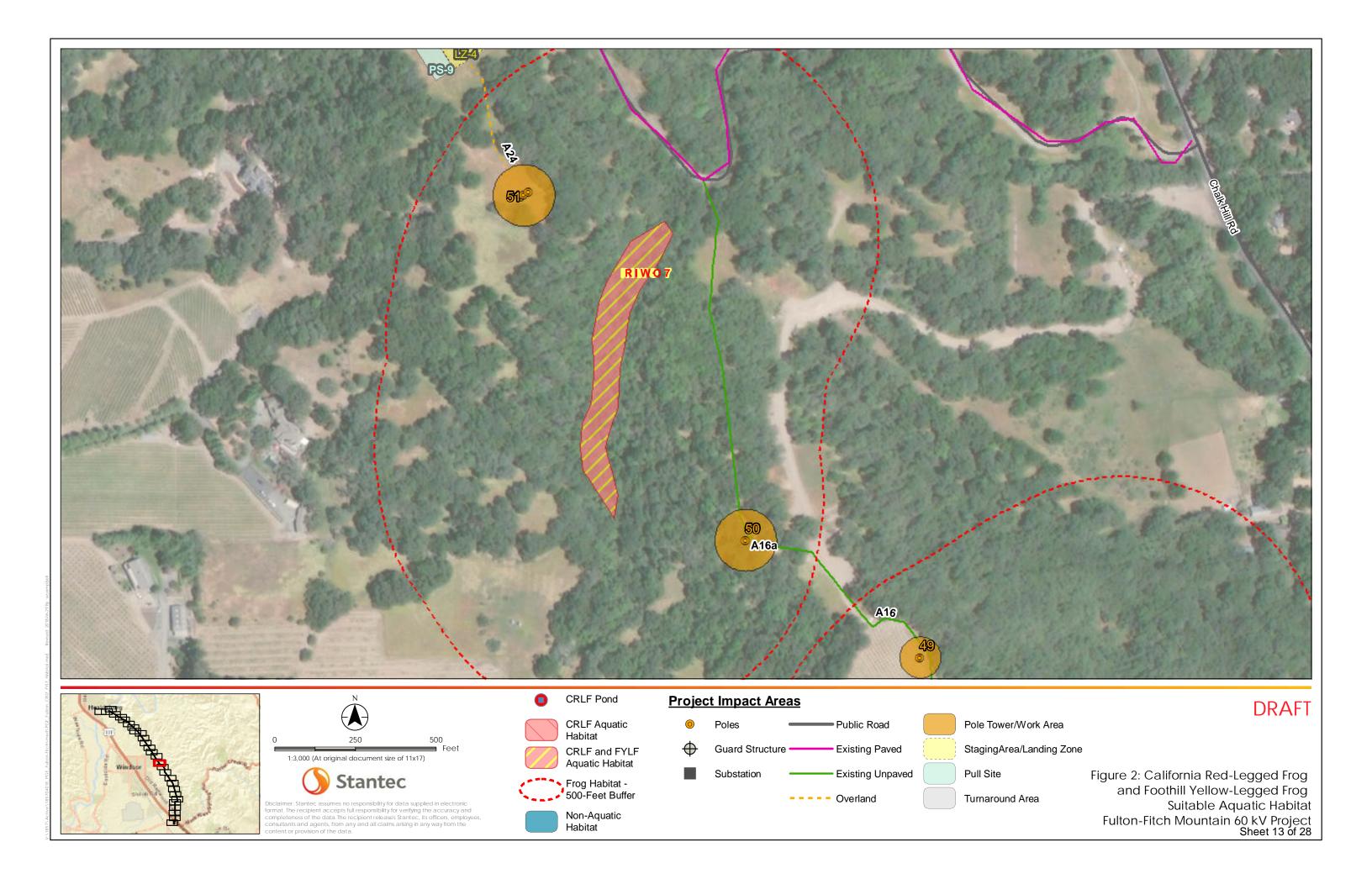


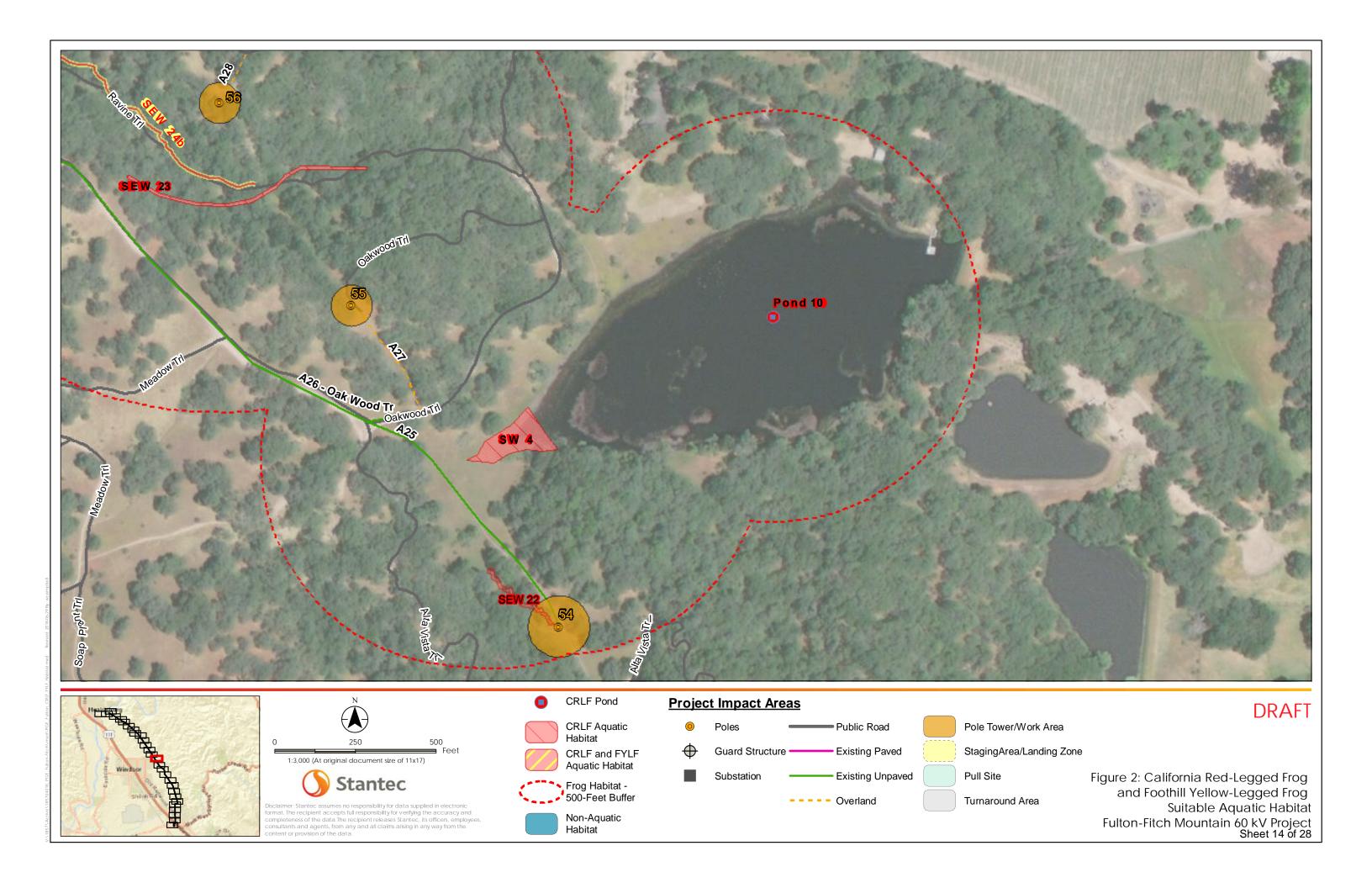


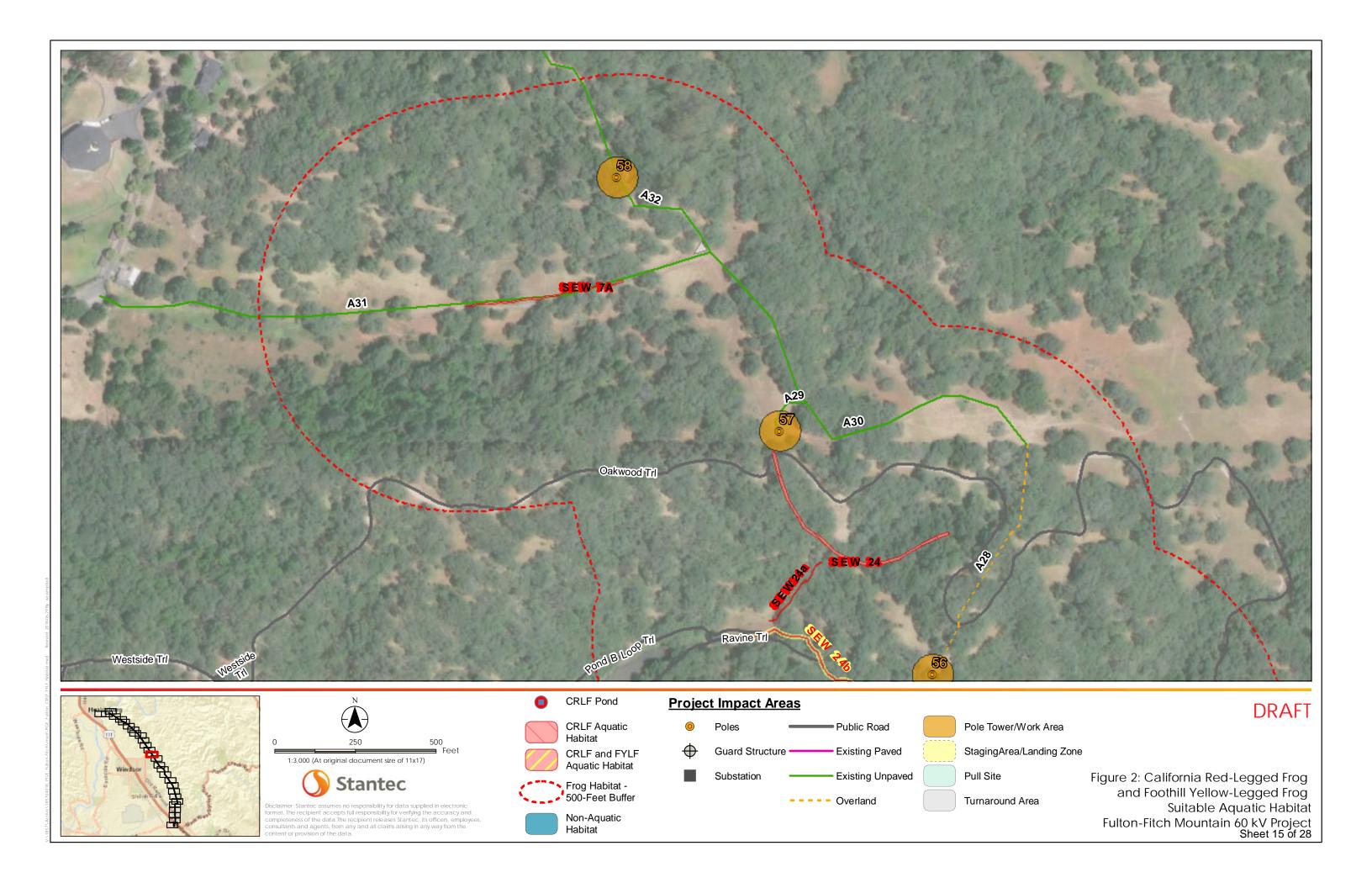
Pull Site --- Overland Turnaround Area

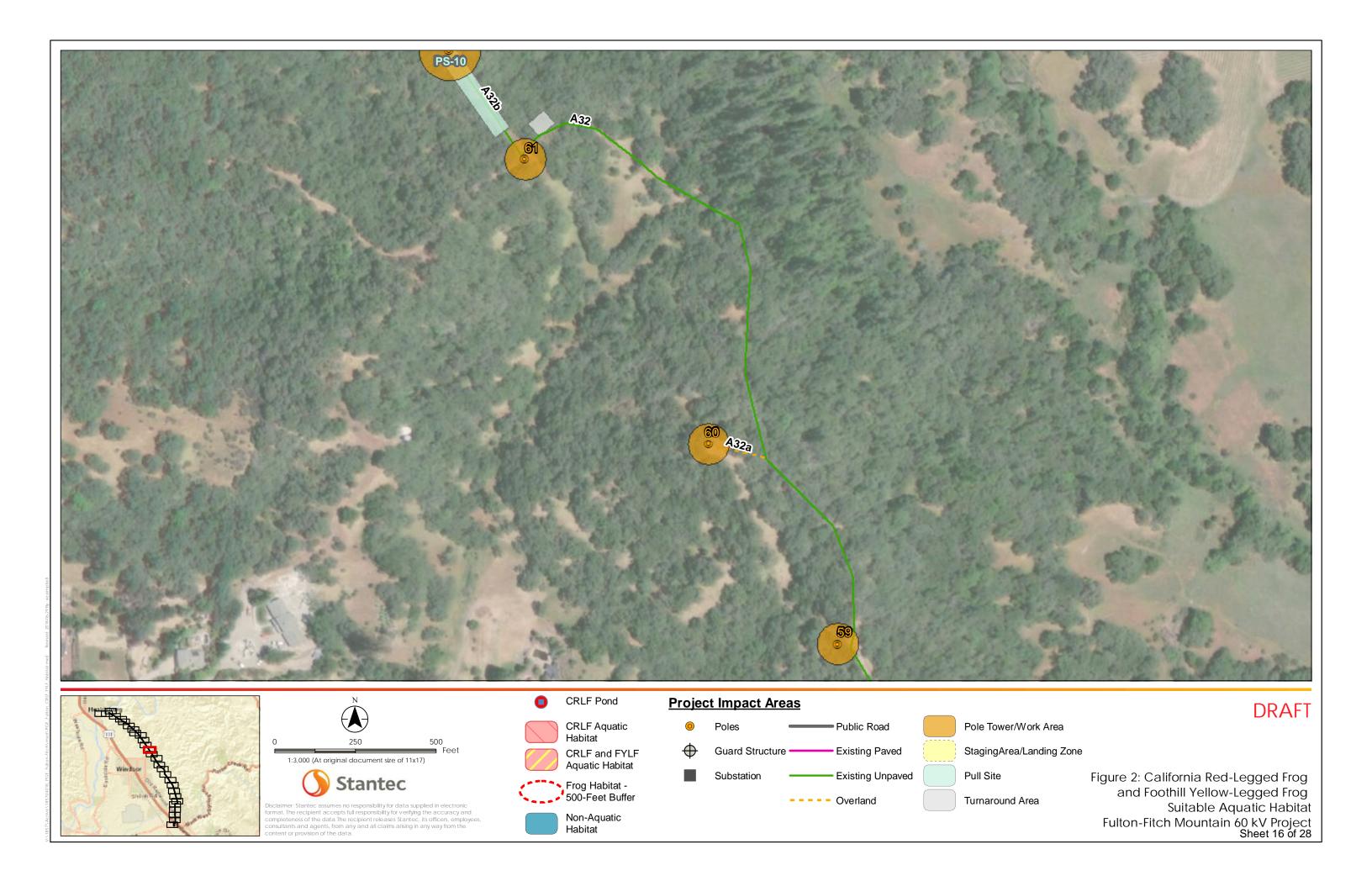


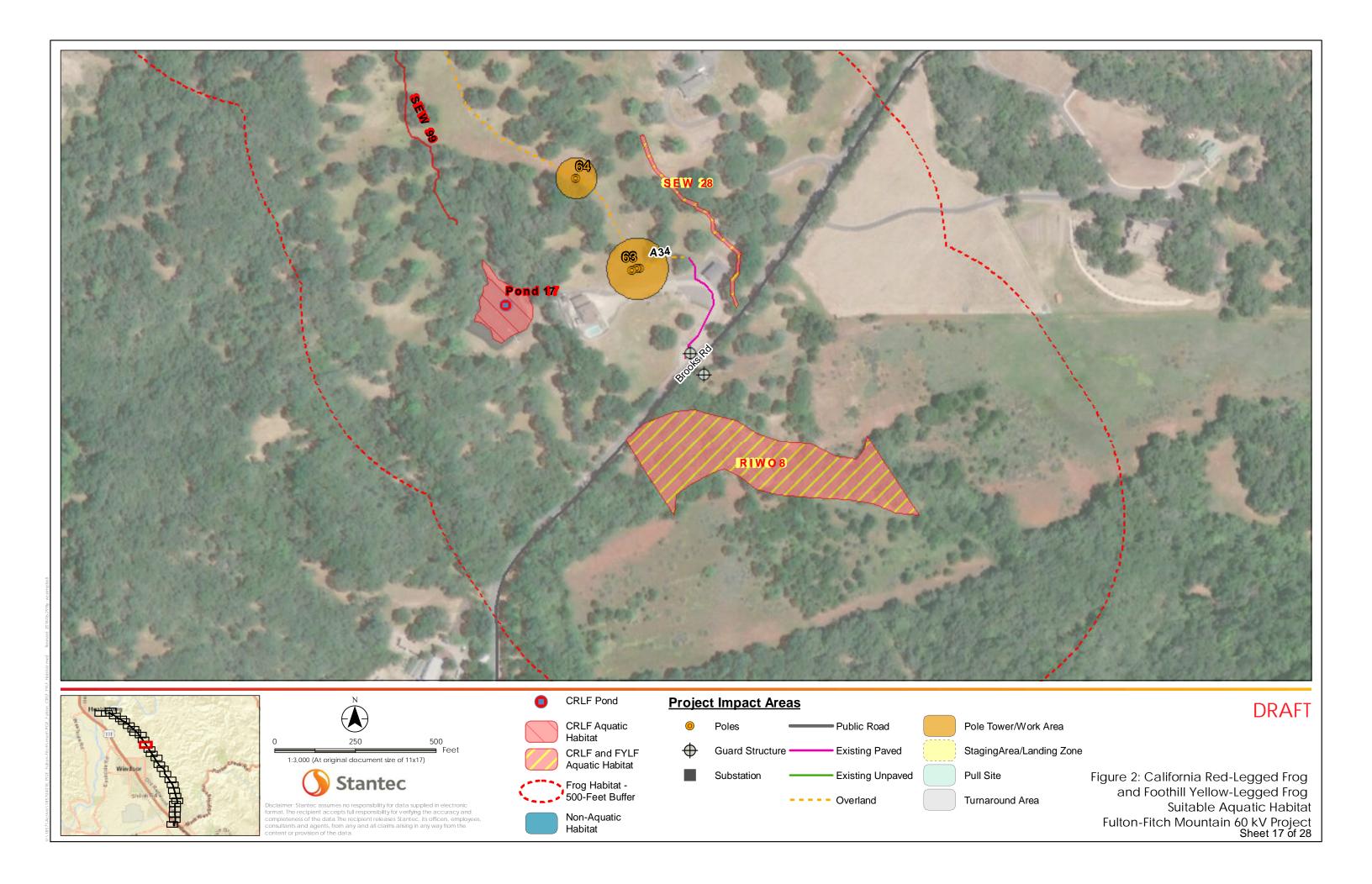


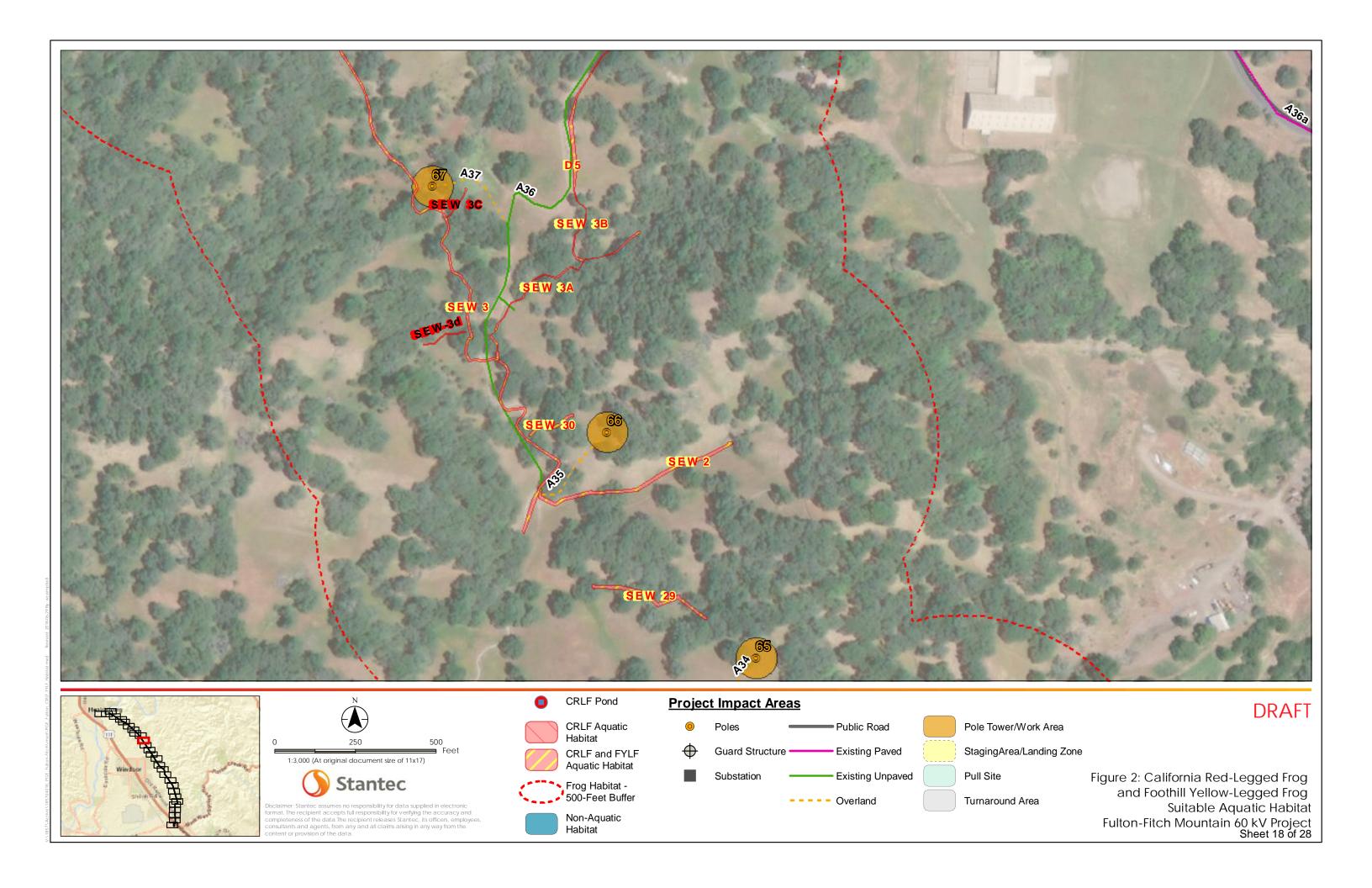


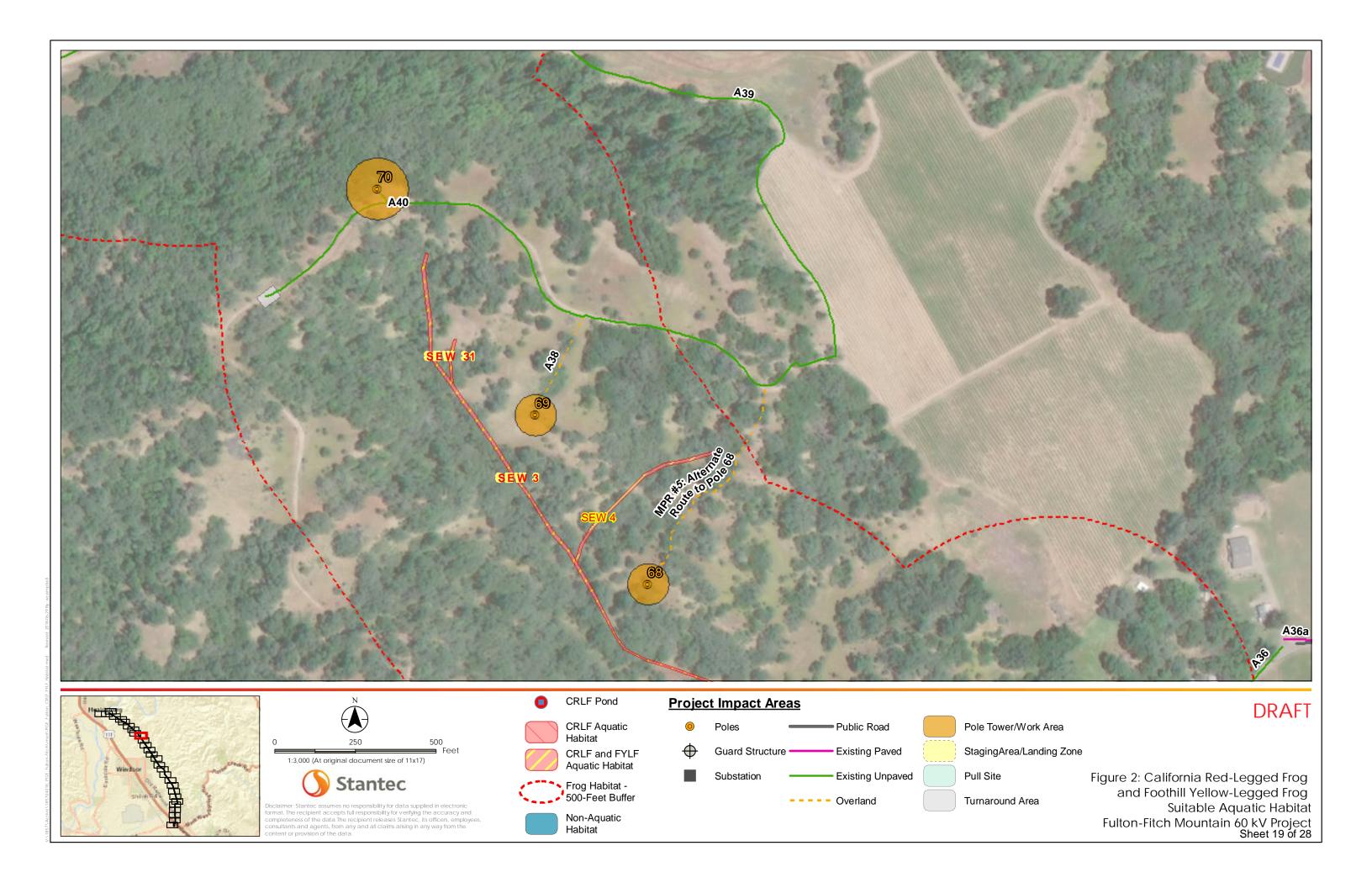


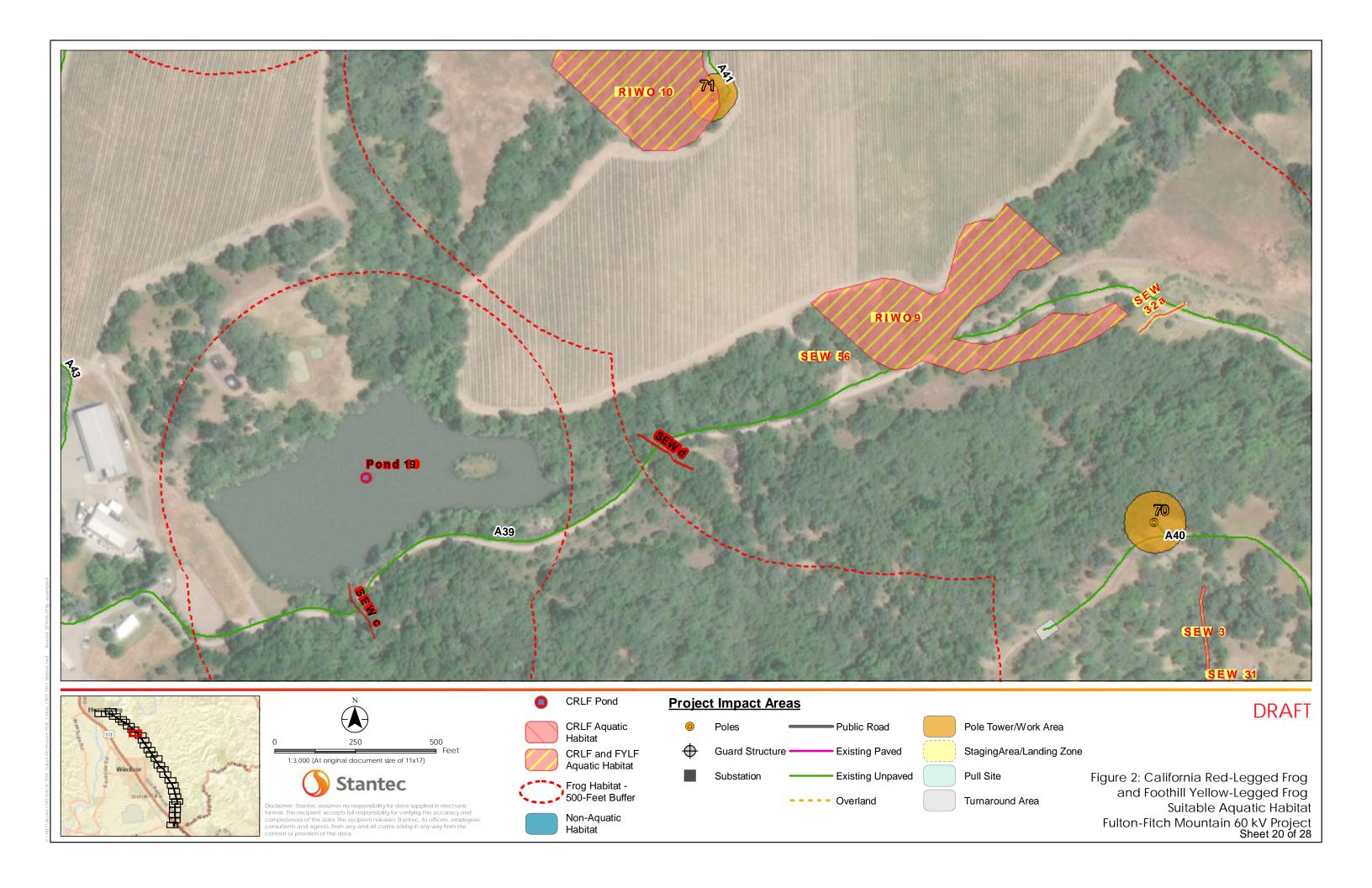


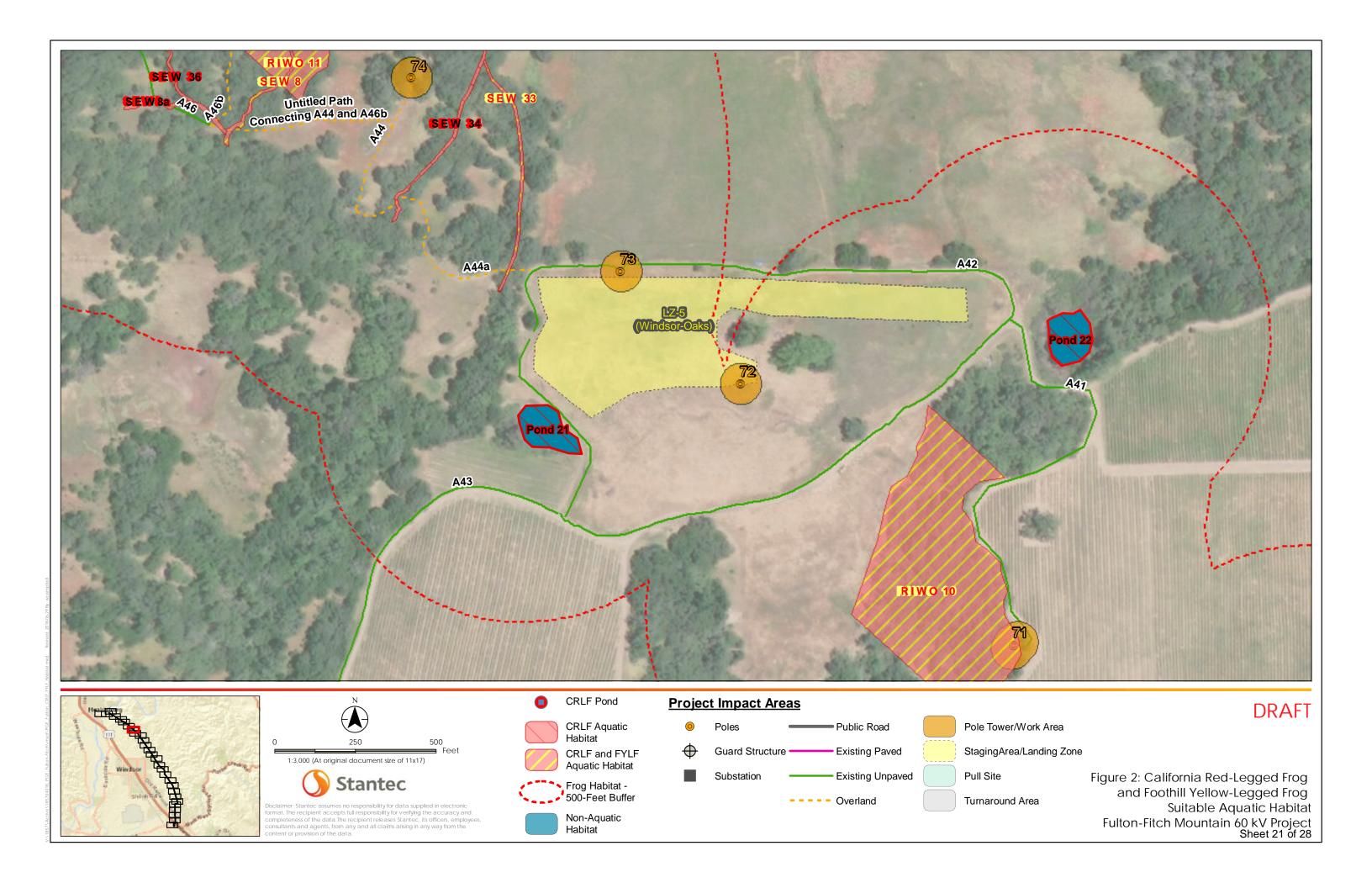


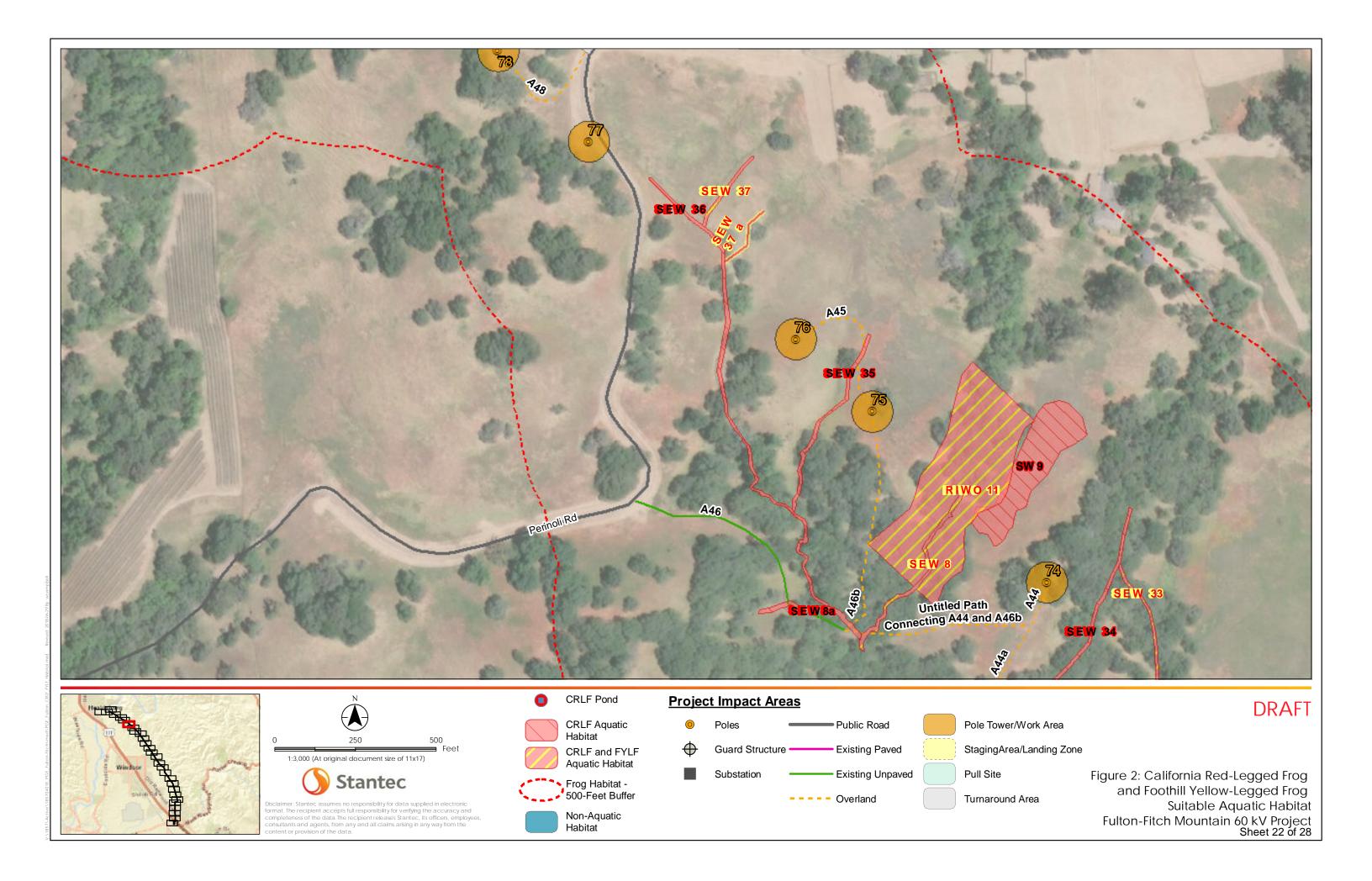


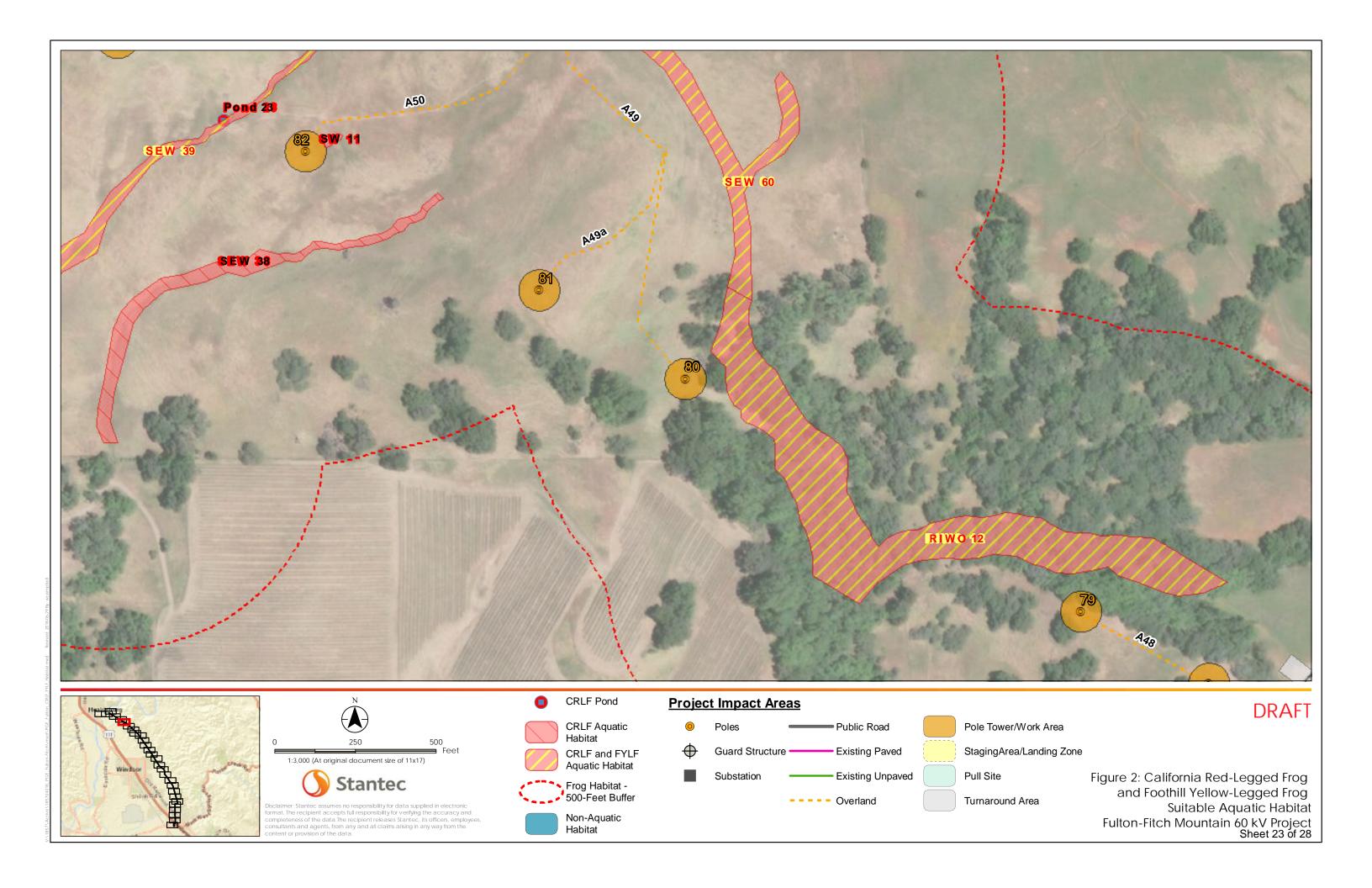


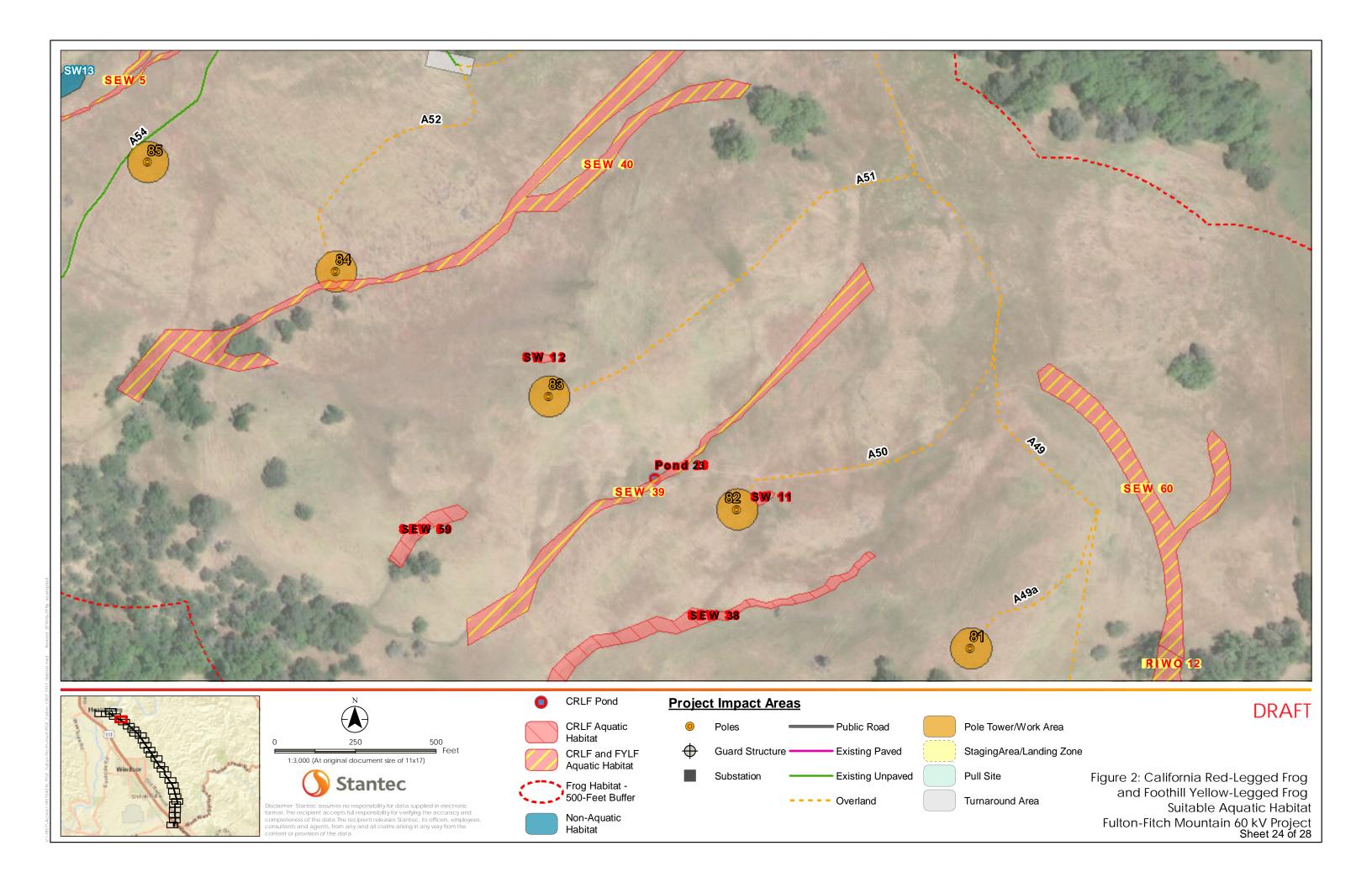


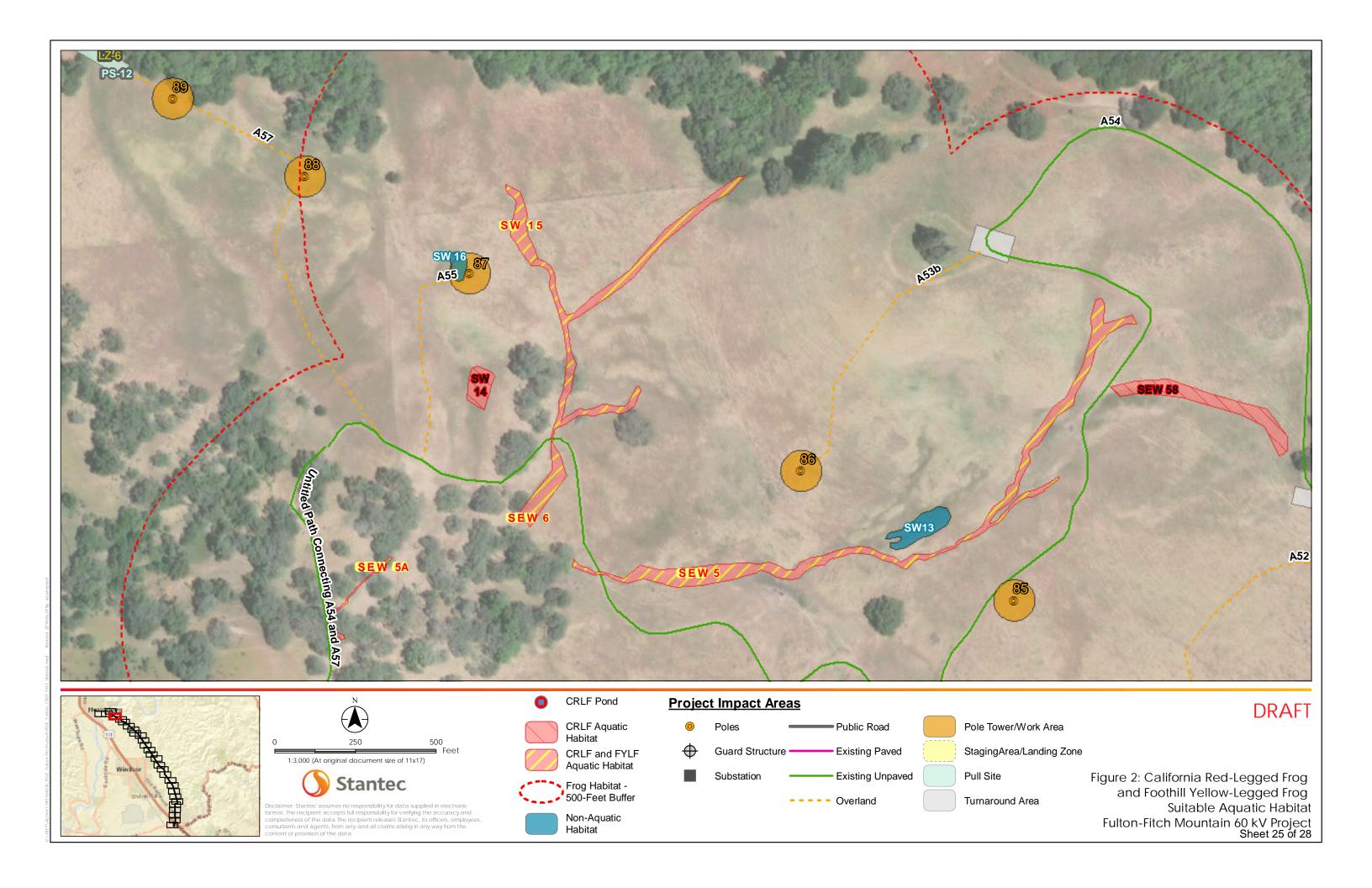


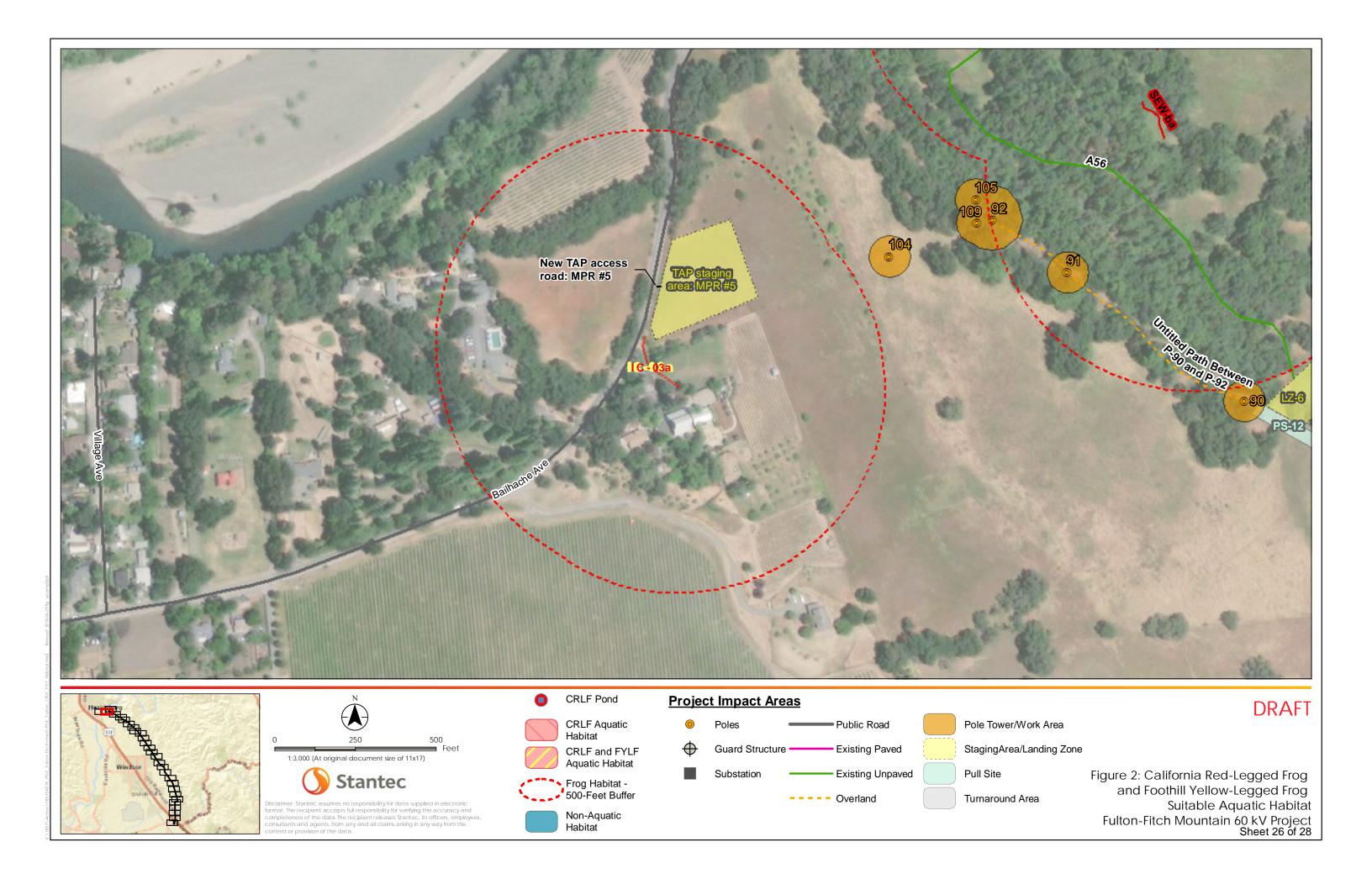


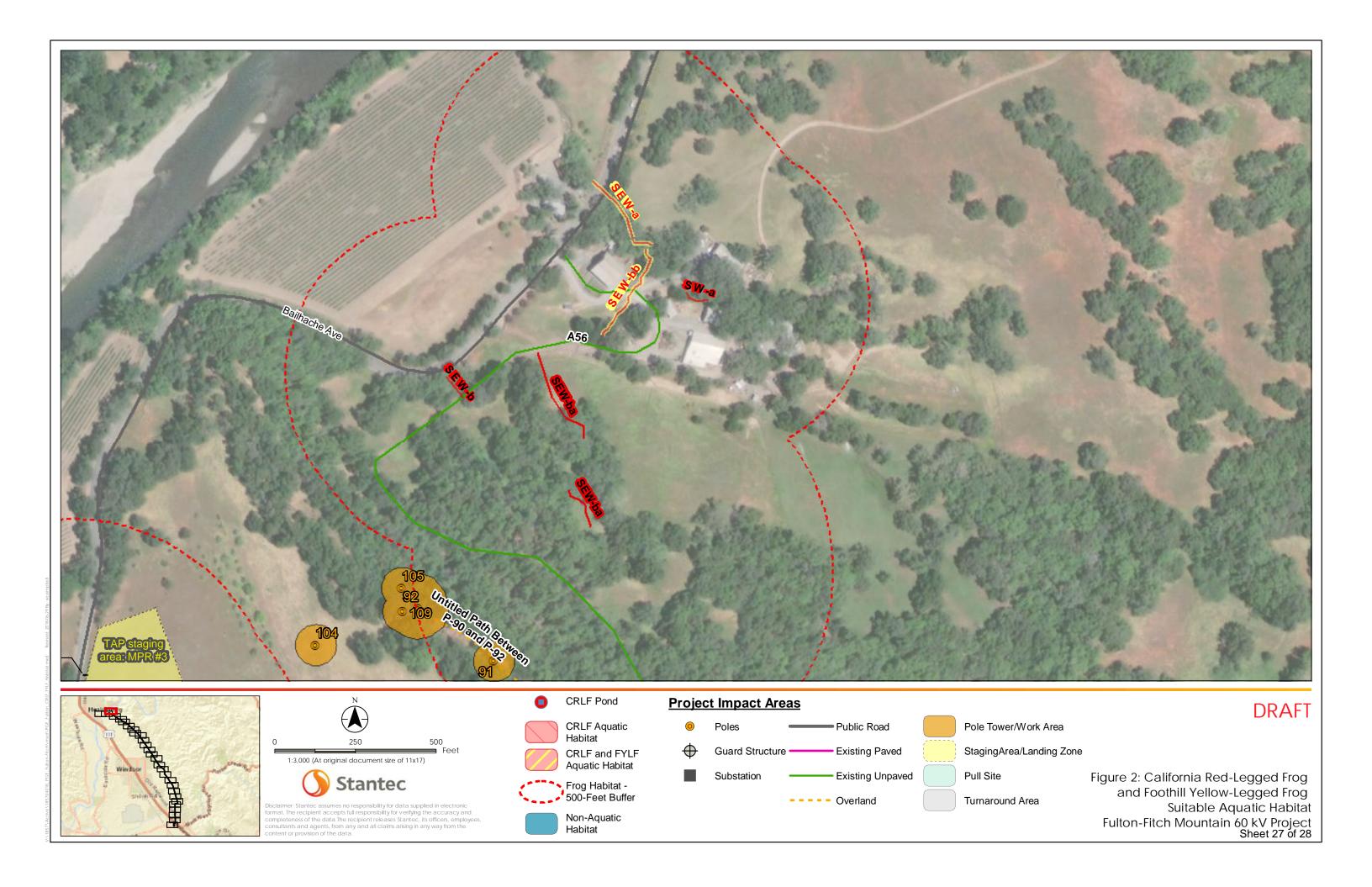






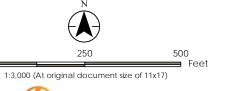












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CRLF and FYLF Aquatic Habitat



Non-Aquatic Habitat



Turnaround Area

Figure 2: California Red-Legged Frog and Foothill Yellow-Legged Frog Suitable Aquatic Habitat Fulton-Fitch Mountain 60 kV Project Sheet 28 of 28



To: David Thomas From: Andrew Sorci

Pacific Gas and Electric Company Stantec Consulting, Inc.

File: Fulton-Fitch Mountain Reconductoring Date: June 27, 2018

Project

Reference: Fulton-Fitch Mountain Reconductoring Project: Seasonal Watercourse Avoidance and

**Crossing Plan** 

### INTRODUCTION

Pacific Gas and Electric (PG&E) is conducting the Fulton-Fitch Mountain Reconductoring Project (Project) to reinforce the electric transmission and distribution system in Sonoma County by replacing the existing conductor (reconductoring) on two power lines pursuant to California Public Utilities Commission (CPUC) General Order (GO) 131-D, Section III.B. PG&E is replacing the conductor on a 9.8-mile-long section of the Fulton-Hopland 60 kilovolt (kV) Power Line (Fulton-Hopland line or 60kV line) between Fulton Substation and Fitch Mountain Substation. PG&E is also replacing poles along 8 miles of the Fulton-Hopland line and making modifications to the Fitch Mountain Substation (Figure 1). The project consists of two segments: the Southern Segment, which extends from Fulton Substation to Shiloh Ranch Regional Park, and the Northern Segment, which extends between Shiloh Ranch Regional Park and the Fitch Mountain #1 Tap 60kV Power Line (Fitch Mountain #1 Tap).

Mitigation Measure (MM) Hydrology - 4 of the Initial Study/Mitigated Negative Declaration (IS/MND) issued by the CPUC for the project requires the preparation of a Seasonal Watercourse Avoidance and Crossing Plan that defines specific methods for completely avoiding impacts to wetlands and streams or specific minimization measures that would be implemented at each crossing location that cannot be completely avoided.

In accordance with MM Hydrology - 4, PG&E has prepared this Seasonal Watercourse Avoidance and Crossing Plan for wetlands and waters within 50 feet of project impact areas, which includes the following:

- Available methods for complete avoidance (i.e., fencing, flagging, or alternative routes) or an explanation of why complete avoidance is not feasible.
- Proposed crossing methods.
- Anticipated impacts that cannot be avoided and anticipated permitting requirements for those impacts, with an explanation of why alternate crossing methods are not feasible.
- Methods that would be implemented to reduce water quality impacts, avoid inadvertent impacts on aquatic resources, and avoid direct impacts on potentially suitable aquatic habitat for California red-legged frog (CRLF) and foothill yellow-legged frog (FYLF) (refer to MM Biology-3). Methods could include restricting crossings to dry periods; installing temporary bridges; or placing fiber-glass mats, steel plates, or wooden beams to protect the feature.



### **METHODS**

Prior to visiting the project site, Stantec biologists reviewed the following reports:

- Fulton-Fitch Reconductoring Project, Water Crossing Mapping. Garcia and Associates. January 15, 2016.
- Aquatic Resources Assessment for the Fulton-Fitch Mountain Reconductoring Project in Sonoma County, California. Garcia and Associates. May 23, 2017
- Delineation of Waters of the United States for Pacific Gas and Electric Company's Fulton-Fitch Mountain Reconductoring Project, Sonoma County, California. TRC. May 2015.
- DRAFT Delineation of Waters of the United States for Pacific Gas and Electric Company's Fulton-Fitch Mountain Reconductoring Project, Sonoma County, California." Version 1. TRC. April 2016
- DRAFT Delineation of Waters of the United States for Pacific Gas and Electric Company's Fulton-Fitch Mountain Reconductoring Project, Sonoma County, California." Version 2. TRC. October 2016
- PG&E Fulton-Fitch Reconductoring Project SW3 at Pole 62, SW1 at Mount Weske Drive. TRC. June 9, 2017
- Fulton-Fitch Mountain Reconductoring Project Final IS/MND, Section 3.9 Hydrology and Water Quality and Appendix F (Hydrology and Water Quality Supporting Information). Panorama Environmental, Inc. October 2017

Following this review, biologists Margaret Finch and Alan Roseto conducted field surveys on March 19, 20, 21, 22, and 23, 2018. Biologist Sheryl Creer conducted a follow-up survey on May 2, 2018. Ms. Finch, Ms. Creer, and Mr. Roseto were approved by the CPUC as Qualified Biologists for the Project. Biologists visited each pre-established watercourse crossing and photographed each watercourse crossing they encountered. In addition, all project impact areas, including access roads, were visited to identify additional watercourse crossings.

### RESULTS

A list of proposed watercourse crossings that cannot be avoided and specific methods to be implemented at each crossing are shown in Table 1. Table 1 includes features identified in the IS/MND (labeled "FFX"), as well as new features (labeled "WC") identified after the publication of that document. Table 1 and Figure 2 also include watercourses that will be crossed using existing culverts. Photos of each proposed watercourse crossing listed in Table 1 are included in Attachment A.

Table 2 provides a list of wetlands and waters located within 50 feet of impact areas (defined as "proximity points") and avoidance methods to be implemented for these features, as required by MM Hydrology – 4.

Figure 2 shows the locations of all features listed in Tables 1 and 2 on a mapset that includes all project features.

Per MM Biology – 11, impacts to waters of the US and state shall be minimized using Best Management Practices (BMPs) during construction. In addition to flagging and avoiding the features, erosion and sediment control BMPs, such as straw wattles, hay bales, and drain inlet controls, will be installed to keep sediment and debris from entering jurisdictional waters. MM Biology – 11 also states that temporary bridges, such as steel plates (as included in Table 1), shall be designed and installed such that the water flow (velocity and low-flow channel width) is not impaired. In accordance with this MM, a biological monitor will be on site during project construction to monitor the integrity of wetlands and other waters while major earthmoving activities are underway. Implementation of standard erosion control BMPs is also required per the following Field Protocol (FP) Measures in PG&E's Bay Area Habitat



Conservation Plan (Bay Area HCP) Field Protocol: FP-11 and FP12. See Table 5-1 in the Bay Area HCP for further details.

A Stormwater Pollution Prevention Plan (SWPPP) has been prepared for the project and was approved by CPUC on June 11, 2018. The SWPPP addresses procedures and standards required for project activities including, but not limited to, BMPs for erosion and sedimentation control; dewatering; hazardous materials identification, handling, storage, and disposal; and emergency response and cleanup. All necessary erosion and sediment control BMPs will be installed prior to conducting grading or vegetation-clearing activities during the wet season and before the onset of any anticipated storm events. Temporary BMPs such as silt fences or wattles, which are intended to minimize sediment transport from temporarily disturbed areas, shall remain in place until disturbed areas have stabilized. SWPPP monitoring will be conducted on a weekly basis, in accordance with MM Hydrology – 2. MM Hydrology – 3 outlines a dewatering procedure to be implemented to ensure that any groundwater encountered during project activities will not come into contact with surface waters. The water features listed in Table 2 will be flagged/signed prior to the commencement of construction activities as needed and avoided where feasible. Flagging/signage will remain intact throughout construction within a given work area.



**Table 1: Proposed Watercourse Crossings** 

ISMND Crossing Number	SWACP Crossing Number	Crossed by	Nearest Project Impact Areas	Water Feature to be Crossed	Proposed Avoidance and Minimization Method
FFX1	N/A	Access road 15	Pole 42	Seasonal watercourse (SEW44)	Existing culvert
FFX2	N/A	Access road 31	Pole 58	Seasonal wetland (SW1/MW0-01)	Existing culvert
FFX3	N/A	Access road 31	Pole 58	Seasonal watercourse (SEW7/C1)	Steel plate
FFX4	N/A	Access road 31	Pole 58	Seasonal watercourse (SEW 7)	Existing culvert
FFX7	N/A	Access road abandoned by project	Pole 68	Seasonal watercourse (SEW4)	N/A
FFX8	N/A	Access road 36	Pole 66	Seasonal watercourse (SEW 3)	Existing culvert/steel plate
FFX9	N/A	Project does not cross feature; See Table 2 below	Pole 66	Seasonal watercourse (SEW3)	Flag and avoid, implement BMPs
FFX10	N/A	Access road 36	Pole 66	Seasonal watercourse (SEW 3)	Steel plate
FFX11	N/A	Access road 35	Pole 66	Seasonal watercourse (SEW 2)	Steel plate
FFX12	N/A	Access road 39	Pole 70	Seasonal watercourse (SEW56)	Steel plate
FFX13	N/A	Access road 41	Landing Zone-5	Seasonal watercourse (SEW61)	Existing culvert
FFX14	N/A	Access road 46	Pole 75	Seasonal watercourse (SEW 8a)	Steel plate
FFX15	N/A	Access road 46b	Pole 74	Seasonal watercourse (SEW 8a)	Steel plate
FFX16	N/A	Access road 46	Pole 74	Seasonal watercourse (SEW8a)	Steel plate
FFX17	N/A	Access road abandoned by project	Pole 77	Seasonal watercourse (D5)	N/A
FFX18	N/A	Access road abandoned by project	Pole 77	N/A Seasonal watercourse (SEW46)	



FFX19	N/A	Access road abandoned by project	Pole 77	Seasonal watercourse (SEW54)	N/A
FFX20	N/A	Access road 54	Pole 87	Seasonal watercourse (SEW 6)	Steel plate
FFX21	N/A	Access road 54	Pole 86	Seasonal watercourse (SEW 5)	Steel plate
FFX22	N/A	Access road abandoned by project	Pole 85	Seasonal watercourse (SEW5)	N/A
FFX23	N/A	Access road abandoned by project	Pole 85	Seasonal watercourse (SEW13)	N/A
FFX24	N/A	Access road abandoned by project	LZ-2	Seasonal watercourse (SEW9a)	N/A
FFX25	N/A	Access road abandoned by project	Pole 70	Seasonal watercourse (SEW56)	N/A
FFX26	N/A	Access road abandoned by project	Pole 66	Seasonal watercourse (SEW2)	N/A
FFX27	N/A	Access road abandoned by project	Pole 66	Seasonal watercourse (SEW3a)	N/A
FFX28	N/A	Access road abandoned by project	Pole 87	Seasonal watercourse (SEW5a)	N/A
FFX29	N/A	Access road abandoned by project	Pole 77	Seasonal watercourse (SEW51)	N/A
FFX30	N/A	Project Does Not Cross Feature	Pole 29	Seasonal watercourse (SEW57)	N/A
FFX31	N/A	Access road abandoned by project	Pole 81	Seasonal watercourse (SEW60)	N/A



FFX32	N/A	Project does not cross feature; See Table 2 below	Pole 67	Drainage Ditch (D6)	Flag and avoid, implement BMPs
FFX33	N/A	Access point abandoned, new access to TAP Staging Area	TAP Staging Area	Seasonal watercourse (C3)	N/A
N/A	WC-1	New Access Route to LZ-3	LZ-3	Seasonal watercourse (C2)	Existing culvert
N/A	WC-2	New Access Route to LZ-3	LZ-3	Seasonal watercourse (C2)	Existing culvert
N/A	WC-3	Access road B01	Pull Site-2, Pole 5	Drainage ditch (D1)	Existing culvert
N/A	WC-4	Access road 39	Pole 70	N/A	Existing culvert
N/A	WC-5	Access road 39	Pole 70	N/A	Existing culvert
N/A	WC-6	Access road 39	Pole 70	Seasonal watercourse 32 (SEW32)	Steel plate
N/A	WC-7	Access road 44a	Landing Zone-5	Seasonal watercourse (SEW 33)	Existing culvert
N/A	WC-8	Access road 44a	Pole 74	Seasonal watercourse (SEW 34) Steel plate	
N/A	WC-9	New TAP AR	TAP Staging Area	Seasonal watercourse (C3) Steel plate	

FFX5 and FFX6 are shown on Figure 2; they were removed from this table because it was determined that the features they crossed did not meet the criteria for a wetland and the features were removed from the survey data (Panorama Environmental 2017).



Table 2: Wetlands and Water Features within 50 Feet of Project Impact Areas

ISMND Feature ID Number	Project Impact Area	Water Feature within 50-feet	Water Feature Type	Avoidance Method
FFW1, FFW2	PS-4 Pole 20	SEW 41 D-4	Seasonal watercourse	Flag and avoid, implement BMPs
FFW3, FFW4, FFW5	PS-5 Pole 21 AR-B06 LZ-2	SEW 9a	Seasonal watercourse	Flag and avoid, implement BMPs
FFW6 FFW7	PS-6 Pole 23 AR-A01	SEW 1	Seasonal watercourse	Flag and avoid, implement BMPs
FFW8	Pole 25 AR-A03	SEW 9	Seasonal watercourse	Flag and avoid, implement BMPs
FFW9	Pole 28 AR-A06	RIWO 2	Riparian woodland associated with feature	Flag and avoid, implement BMPs
FFW10	Pole 46	SEW 16	Seasonal watercourse	Flag and avoid, implement BMPs
FFW11	N/A	SEW19	Seasonal watercourse	N/A; Not within 50 feet of current project design
FFW12	Pole 54 AR-A25	SEW 22	Seasonal watercourse	Flag and avoid, implement BMPs
FFW13	Pole 57	SEW 24	Seasonal watercourse	Flag and avoid, implement BMPs
FFW16	N/A	Windsor Creek	Seasonal watercourse	N/A; No longer using nearby staging area
FFW17, FFW24	Pole 67 AR-A37	SEW 3c SEW 3	Seasonal watercourse	Flag and avoid, implement BMPs
FFW18	Pole 71 AR-A41	RIWO 10 (SEW61 in ISMND)	Riparian woodland associated with featurue	Flag and avoid, implement BMPs
FFW19	AR-A45 Pole 75	SEW 35	Seasonal watercourse	Flag and avoid, implement BMPs



FFW20	AR-A52 Pole 84	SEW 40	Seasonal watercourse	Flag and avoid, implement BMPs
FFW21	Pole 83	SW 12	Seasonal wetland	Flag and avoid, implement BMPs
FFW22	AR-A50 Pole 82	SW 11	Seasonal wetland	Flag and avoid, implement BMPs
FFW23	AR-A55 Pole 87	SW 16	Seasonal wetland	Flag and avoid, implement BMPs
FFX32, FFX9	AR-A36	D6, SEW3	Drainage ditch and seasonal watercourse	Flag and avoid, implement BMPs
N/A	Pole 66	SEW 30	Seasonal watercourse	Flag and avoid, implement BMPs
N/A	Pole 79 Pole 80	RIWO 12 SEW 60	Riparian woodland	Flag and avoid, implement BMPs
N/A	TAP	C-3	Seasonal watercourse	Flag and avoid, implement BMPs
N/A	Pull Site (PS)-1 Pole/Tower Work Area (Pole) 2	D-1	Drainage Ditch	Flag and avoid, implement BMPs
N/A	Pole 4	D-1	Drainage Ditch	Flag and avoid, implement BMPs
N/A	PS-2 Pole 5	D-1, D-2, D-3	Drainage Ditches	Flag and avoid, implement BMPs
N/A	PS-3 Landing Zone (LZ)-1	SEW 43	Drainage Ditch	Flag and avoid, implement BMPs
N/A	Pole 13 Access road (AR) – B04	RIWO 13	Riparian Woodland associated with feature	Flag and avoid, implement BMPs
N/A	LZ-2	SEW 9a	Seasonal watercourse	Flag and avoid, implement BMPs





### CONCLUSIONS

Twenty-one watercourses will be crossed by the proposed project using the methods listed in Table 1. Water features listed in Table 2 will be flagged prior to construction activities as needed and avoided. In addition, BMPs will be implemented across the project site to minimize impacts to these features. With implementation of the methods described above and listed in Tables 1 and 2, impacts to jurisdictional water features will be avoided and permitting requirements are not anticipated.

At a minimum, PG&E will notify the California Department of Fish and Wildlife in accordance with the requirements of Fish and Game Code Section 1602 prior to:

- Substantially diverting or obstructing the natural flow of any river, stream or lake;
- Substantially changing or using any material from the bed, channel or bank of any river, stream, or lake; or
- Depositing debris, waste or other materials that could pass into any river, stream or lake.

According to Fish and Game Code Section 1602, "river, stream or lake" includes those waters that are dry for periods of time as well as those that are perennial. This includes ephemeral streams, washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the floodplain of a body of water. If conditions change and permits may be required, PG&E will notify CPUC immediately and then consult with the applicable agencies to obtain the necessary permits prior to conducting activities for which the permits would be required.

#### REFERENCES

Ahtna Government Services Corporation. 2018. Stormwater Pollution Prevention Plan, Fulton Fitch Mountain Reconductoring 60 kV Project. Application ID#: 494849.

Panorama Environmental, Inc. 2017. Fulton-Fitch Mountain Reconductoring Project Final Initial Study/Mitigated Negative Declaration. State Clearinghouse No. 2017072049.

STANTEC CONSULTING SERVICES INC.

**Andrew Sorci** 

Biologist/Lead Environmental Inspector

Phone: (925) 212-5949 andrew.sorci@stantec.com

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Attachment: Figure 1: Project Vicinity

Figure 2: Proposed Watercourse Crossings

Attachment A: Photographs of Proposed Watercourse Crossings



Photograph 1. FFX1 at SEW44 on Access Road A15.



Photograph 3. FFX3 at SEW 7/C1 on Access Road 31.



Photograph 5. FFX8 at SEW 3 on Access Road 36.



Photograph 2. FFX2 at SW1/MW0-01 on Access Road 31.



Photograph 4. FFX4 at SEW 7/C1 on Access Road 31.



Photograph 6. FFX10 at SEW 3 on Access Road 36.

PG&E Fulton-Fitch Mountain Reconductoring Project Attachment B: Photographs of Preconstruction Trail Conditions -Foothill Regional Park Pre-Project Trail Condition Report



Photograph 7. FFX11 at SEW 2 on Access Road 35.



Photograph 9. FFX13 at SEW61 on Access Road 41.



Photograph 11. FFX15 at SEW 8a on Access Road 46b.



Photograph 8. FFX12 at SEW 56 on Access Road 39.



Photograph 10. FFX14 at SEW 8a on Access Road 46.



Photograph 12. FFX16 at SEW8A on Access Road 46.

PG&E Fulton-Fitch Mountain Reconductoring Project Attachment B: Photographs of Preconstruction Trail Conditions -Foothill Regional Park Pre-Project Trail Condition Report



Photograph 13. FFX20 at SEW 6 on Access Road 54.



Photograph 15. WC-1 at unnamed seasonal watercourse on new access road to LZ-3.



Photograph 17. WC-3 at D1 on Access Road B-01.



Photograph 14. FFX21 at SEW 5 on Access Road 54.



Photograph 16. WC-2 at unnamed seasonal watercourse on new access road to LZ-3.



Photograph 18. WC-4 at unnamed seasonal watercourse on Access Road 39.

PG&E Fulton-Fitch Mountain Reconductoring Project Attachment B: Photographs of Preconstruction Trail Conditions -Foothill Regional Park Pre-Project Trail Condition Report



Photograph 19. WC-5 at unnamed seasonal watercourse on Access Road 39.



Photograph 21. WC-7 at SEW 33 on Access Road 44a.



Photograph 23. WC-9 at C3 on new access to TAP staging area.



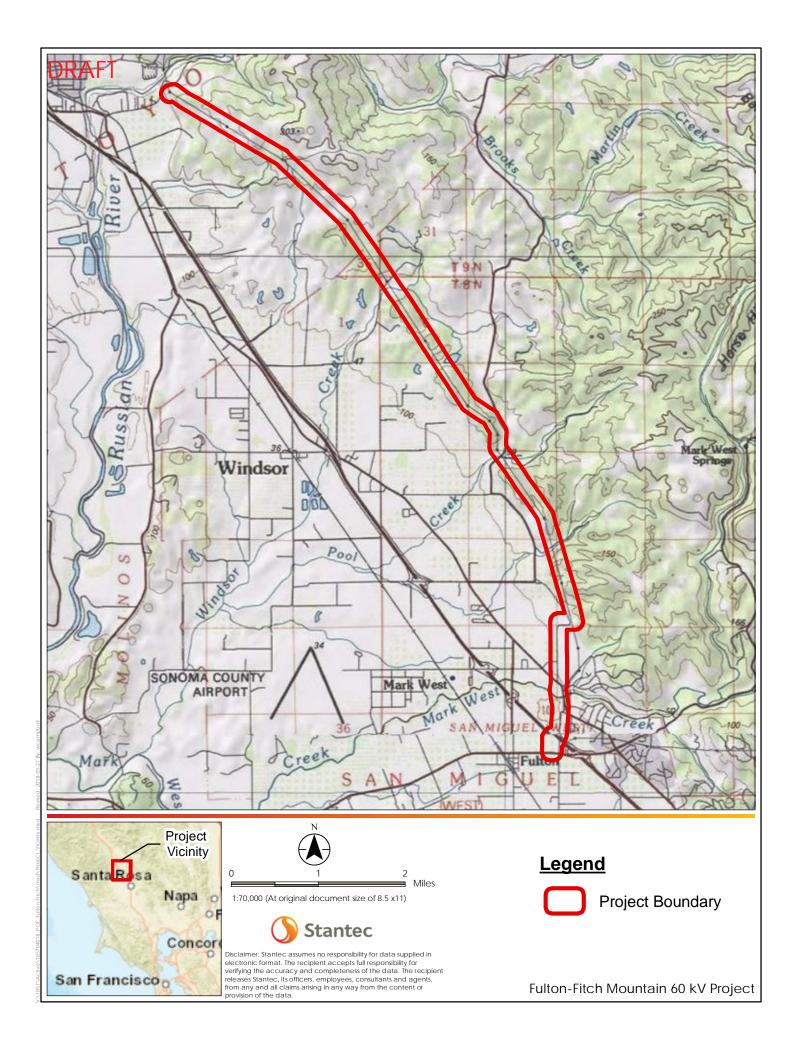
Photograph 20. WC-6 at SEW 32 on Access Road 39.

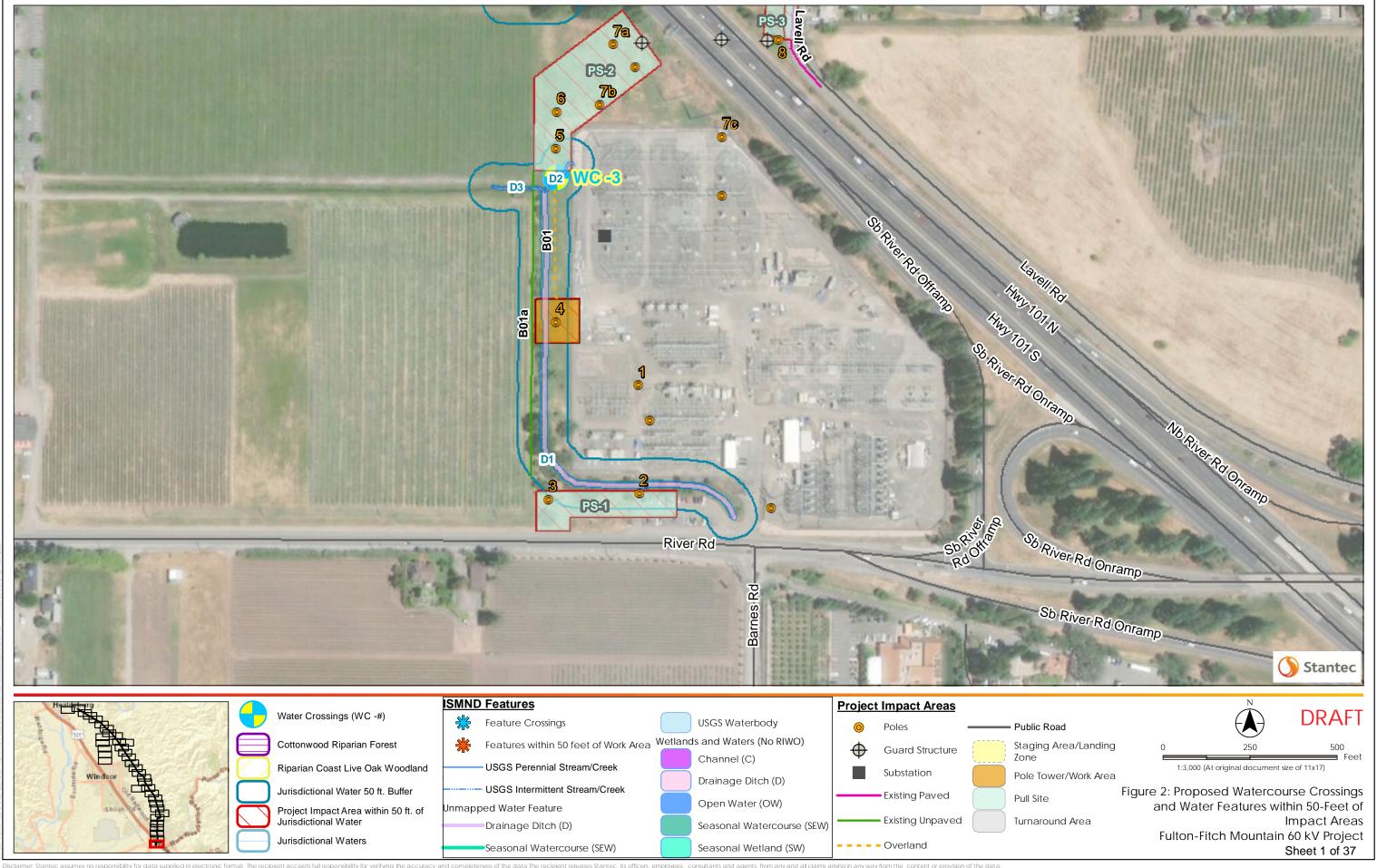


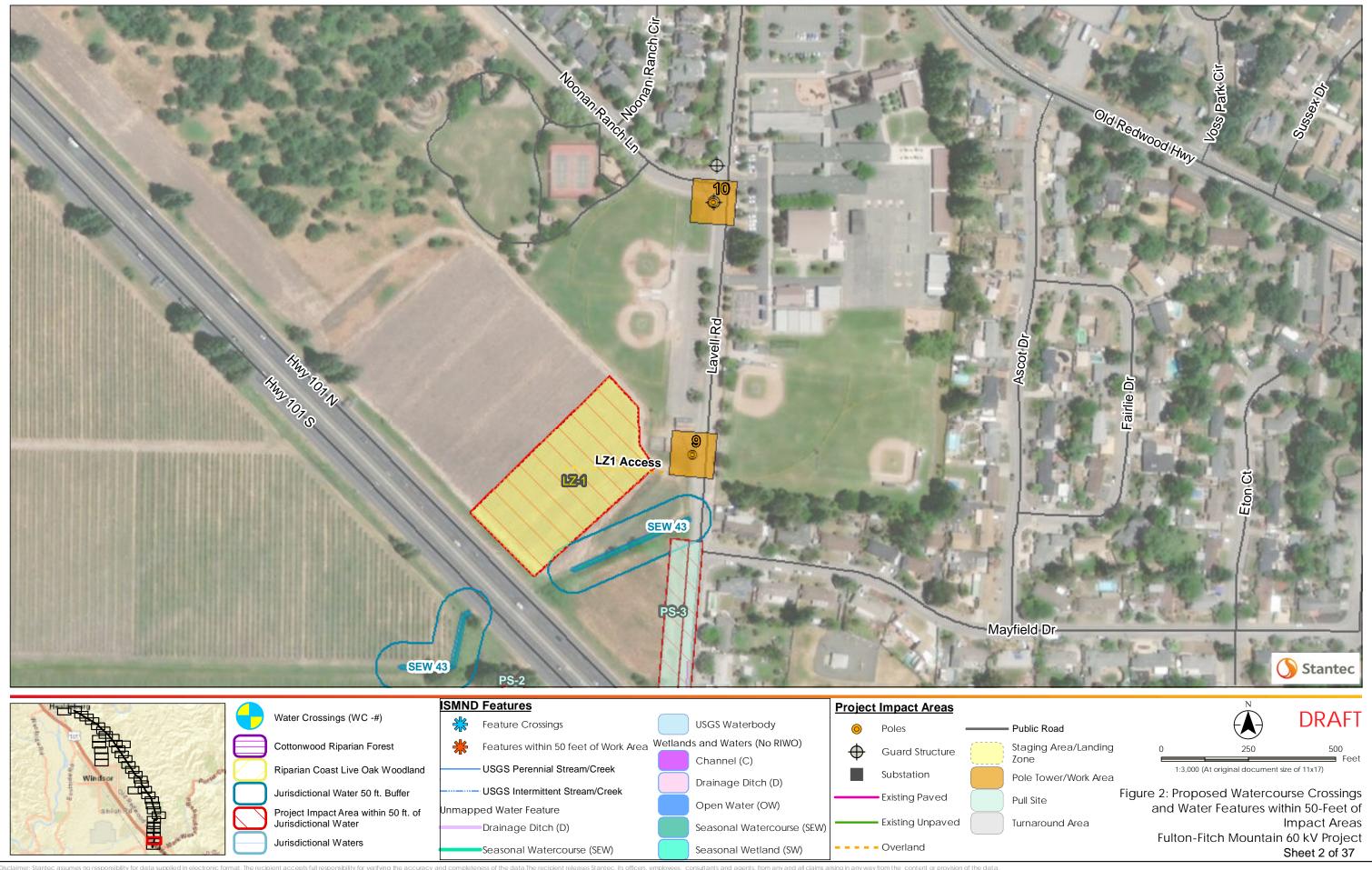
Photograph 22. WC-8 at SEW 34 on Access Road 44a.

Photograph.

PG&E Fulton-Fitch Mountain Reconductoring Project Attachment B: Photographs of Preconstruction Trail Conditions -Foothill Regional Park



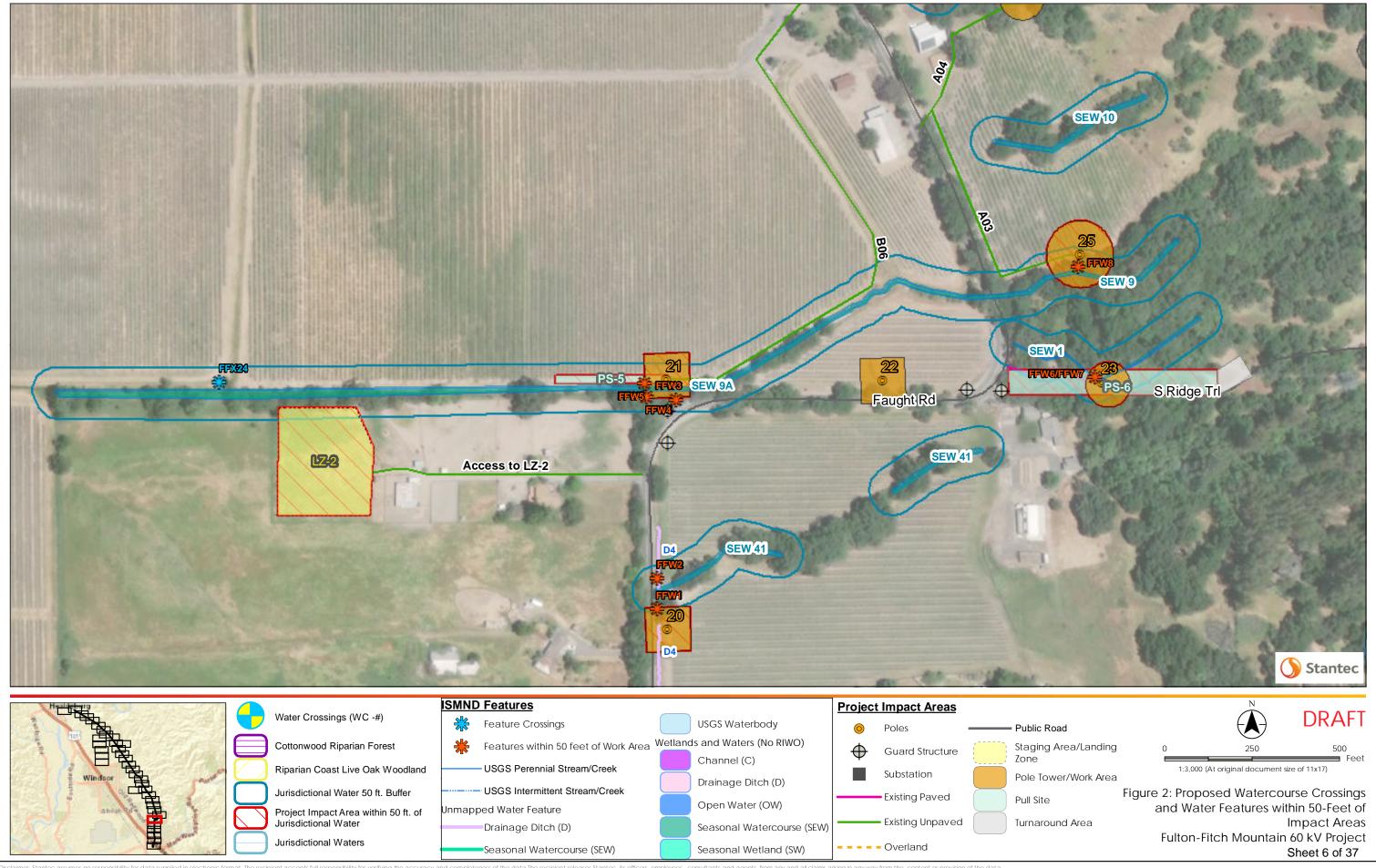


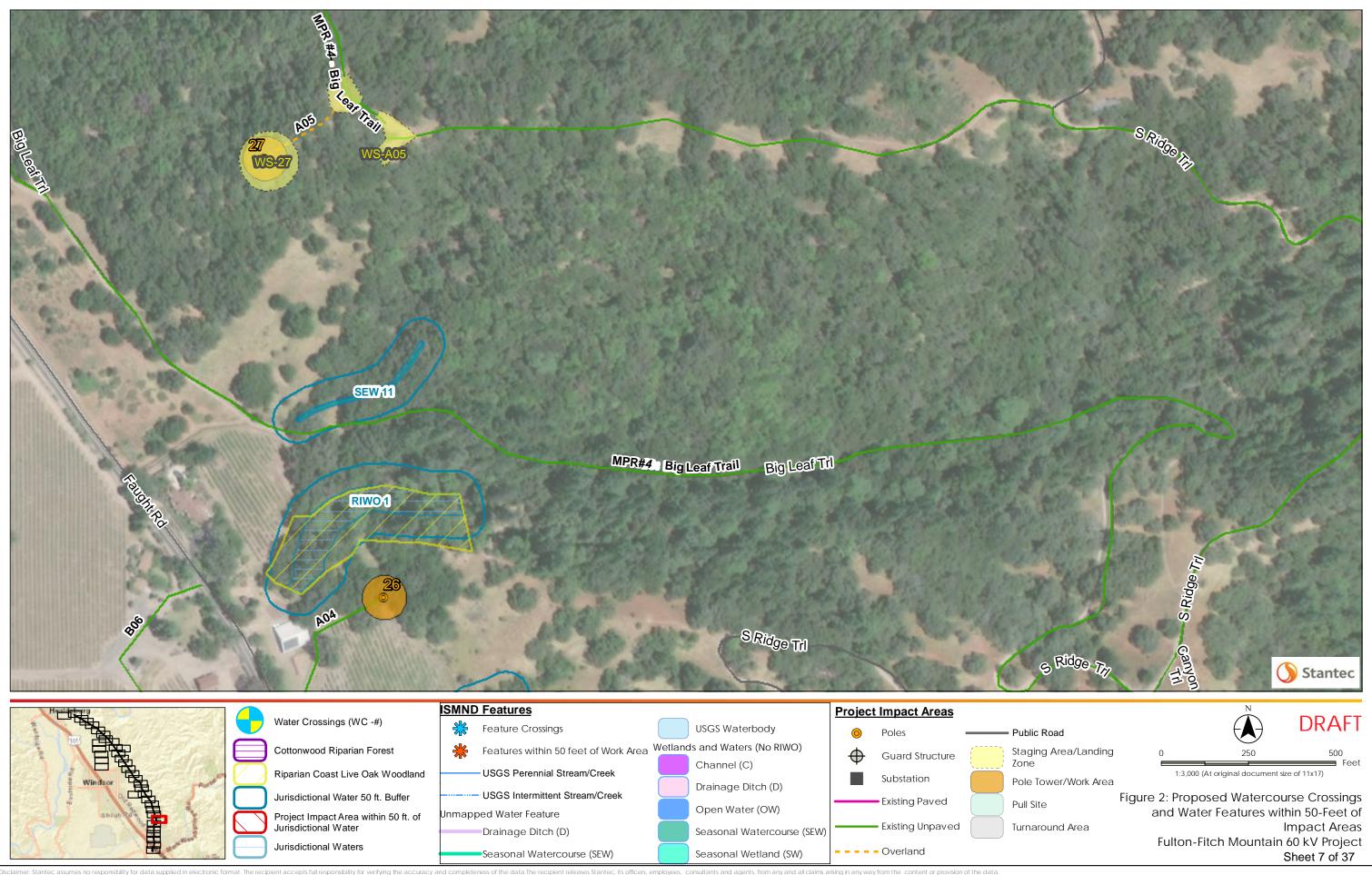


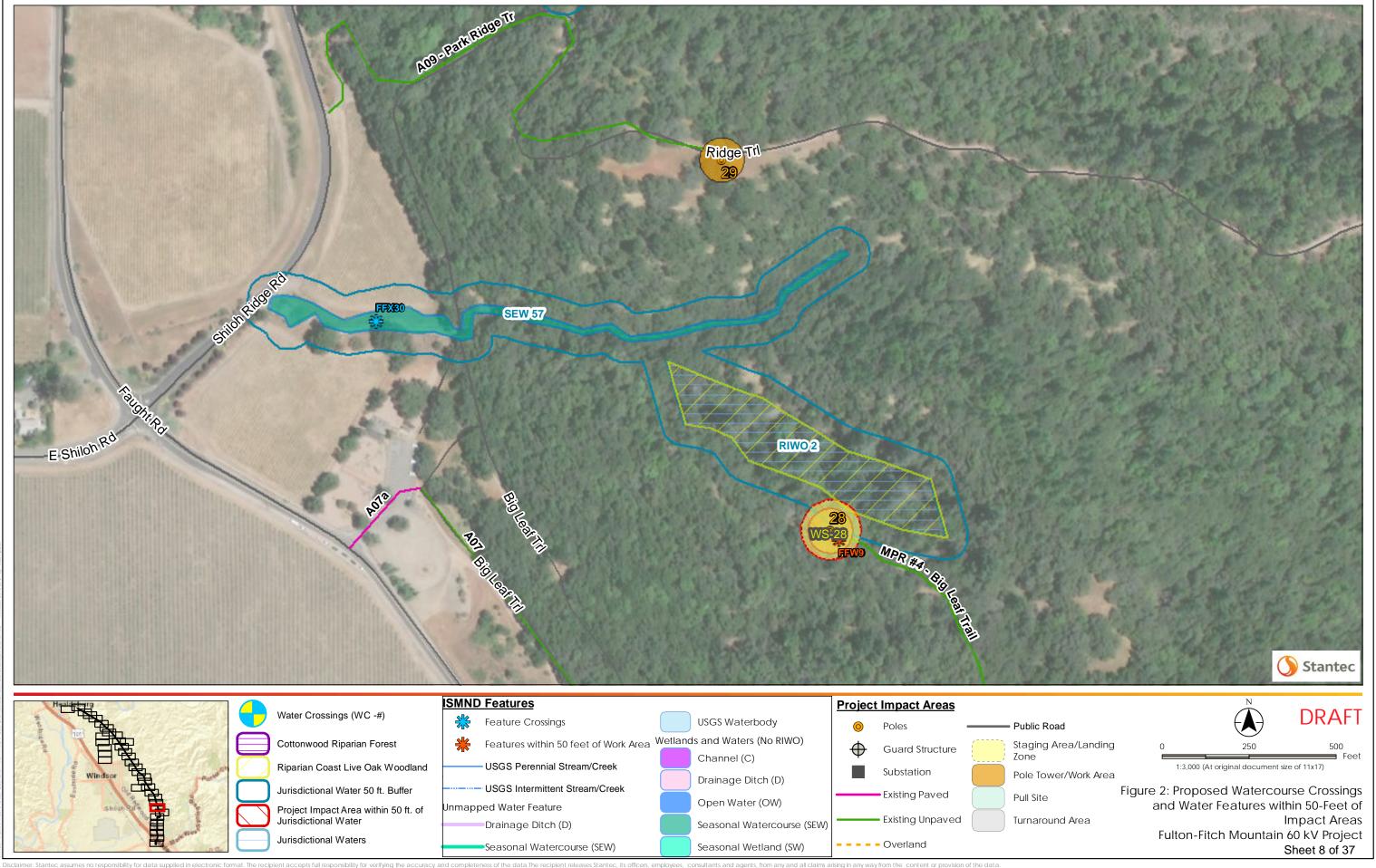


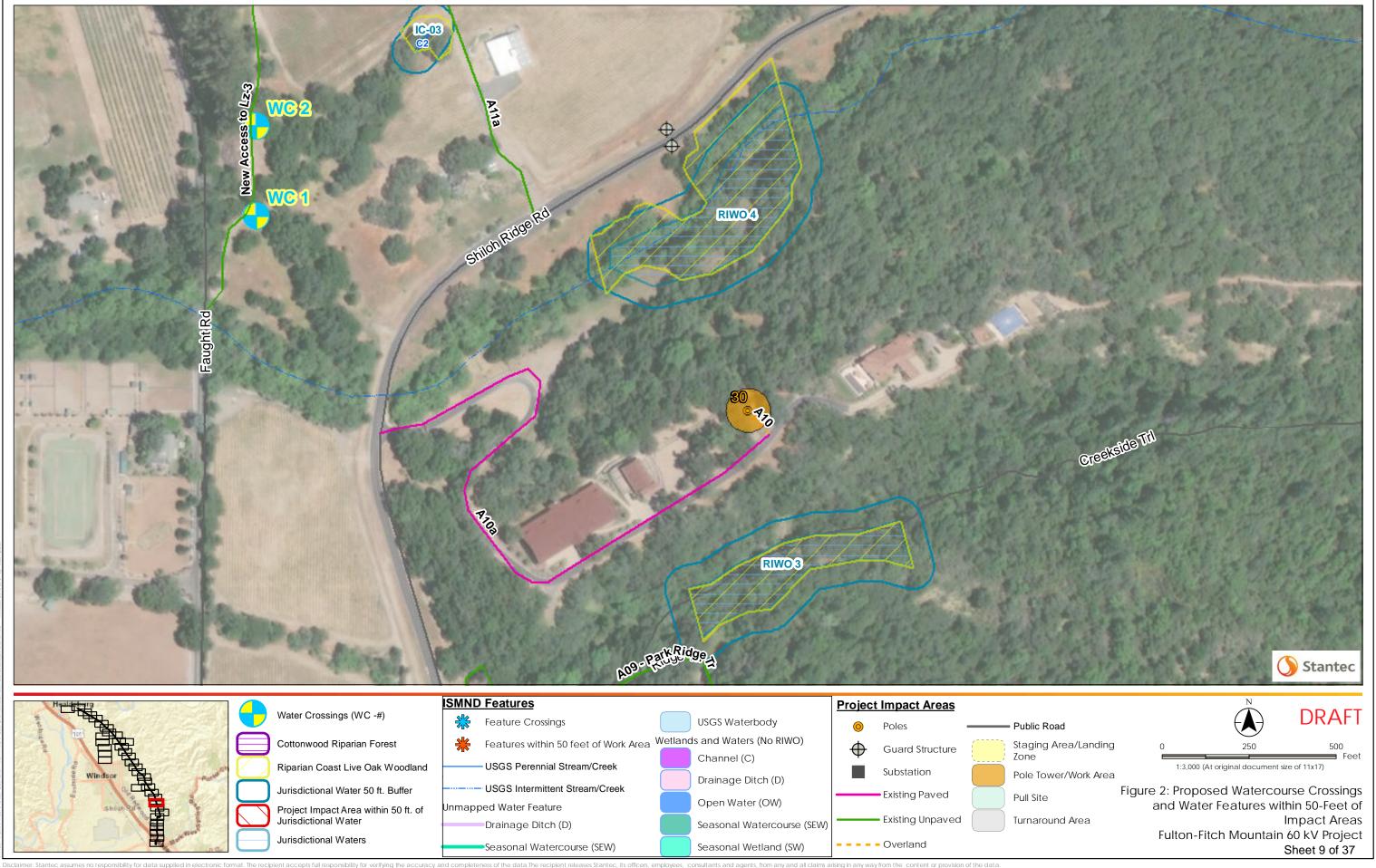


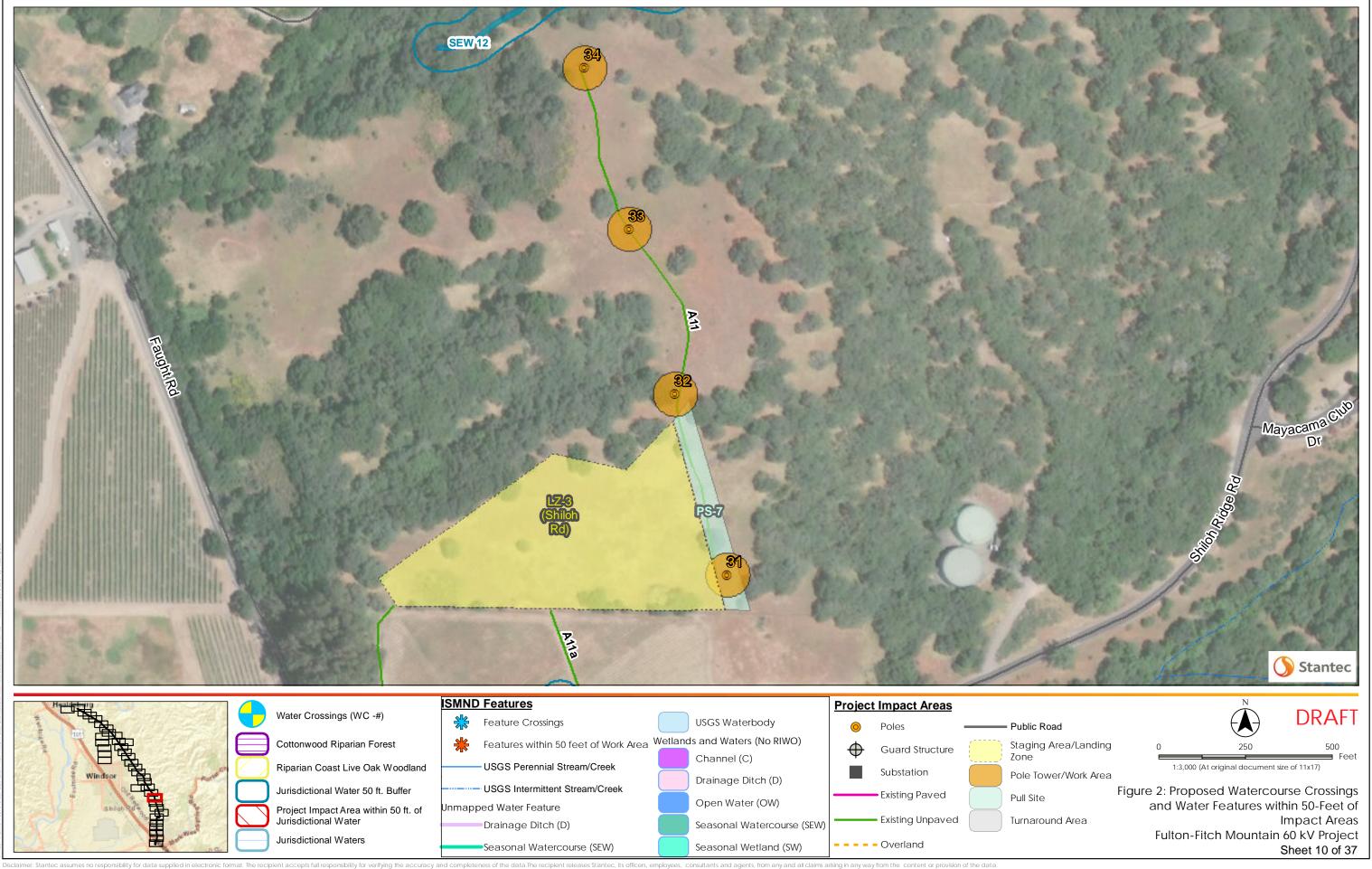


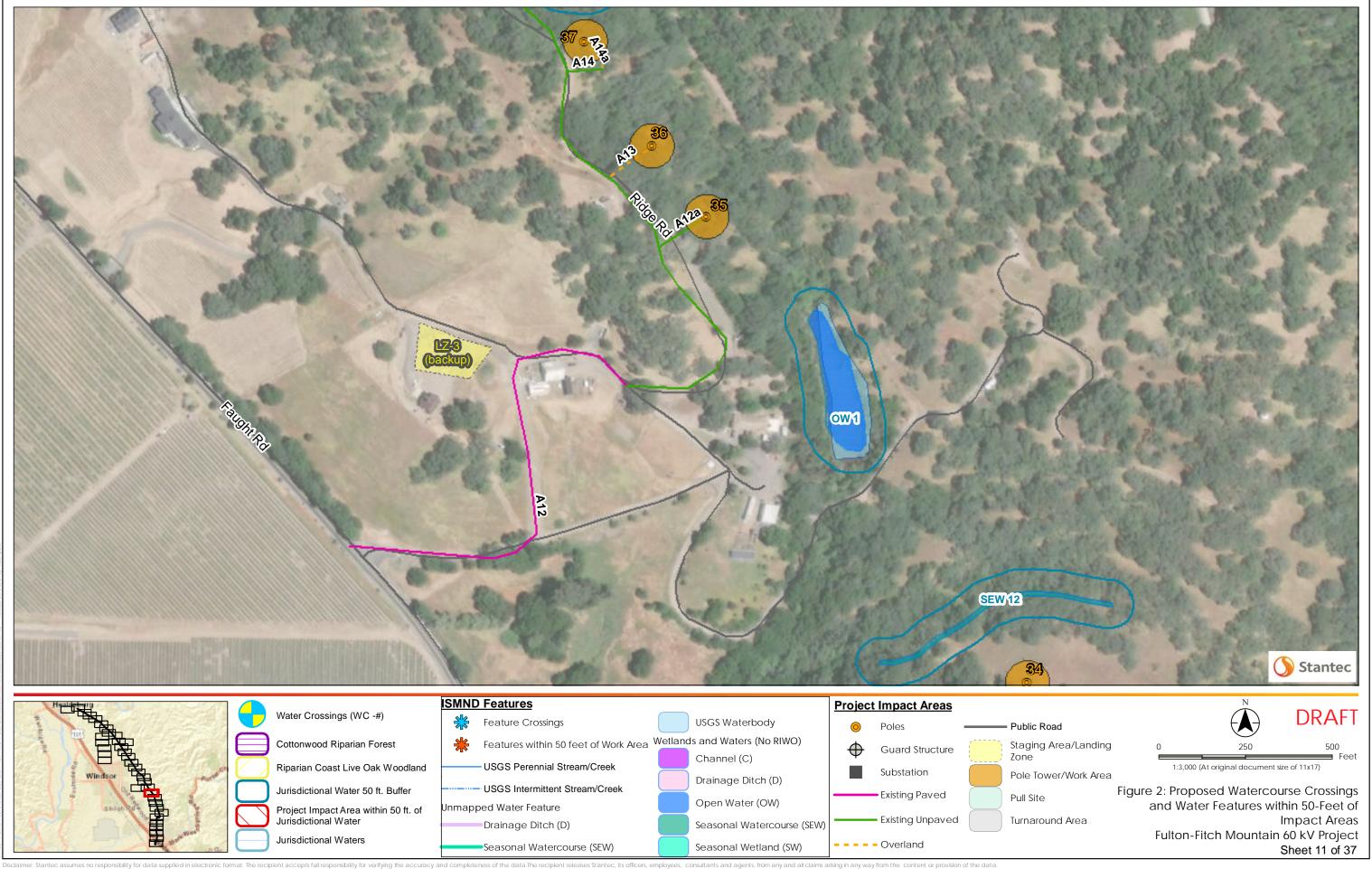


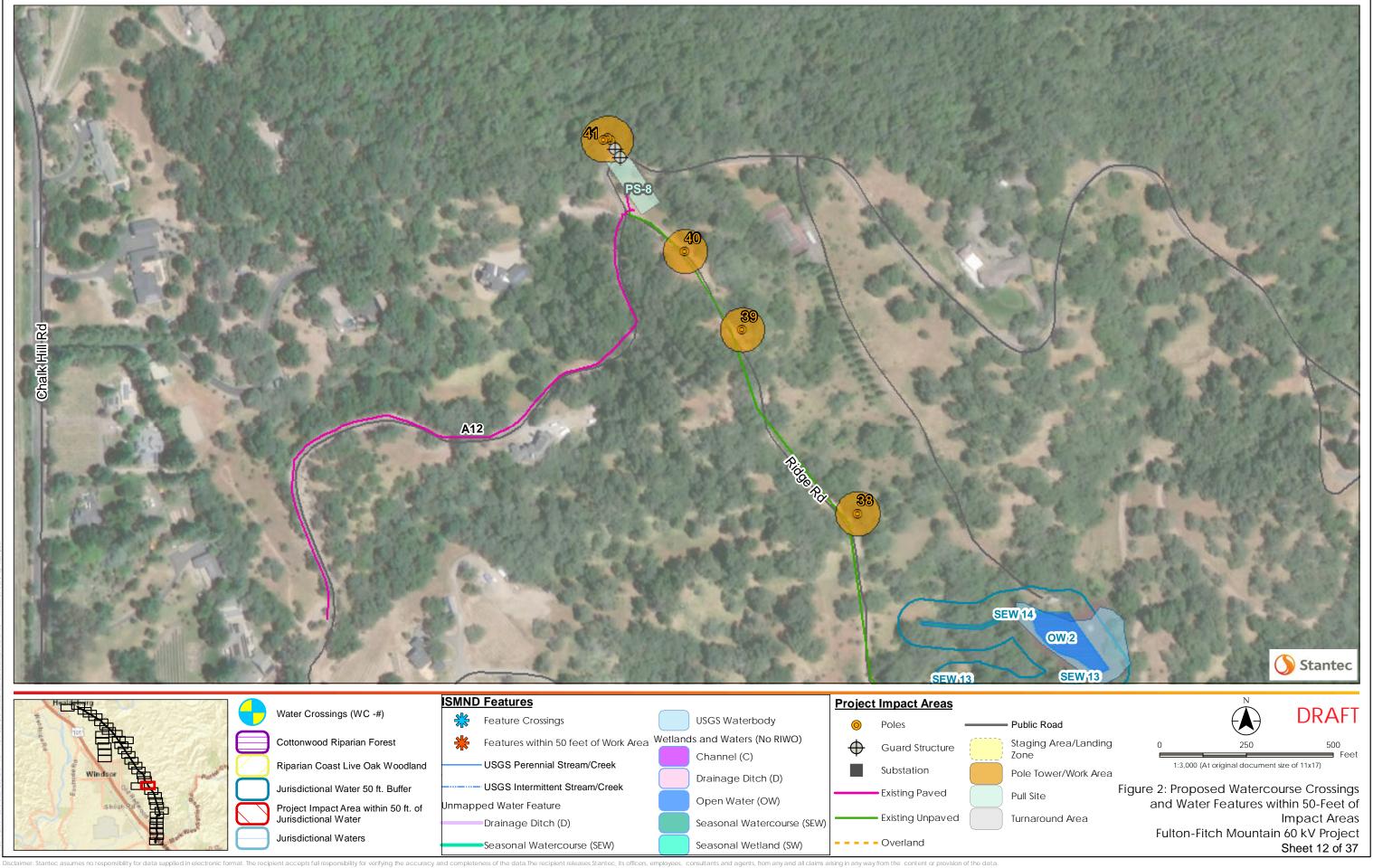


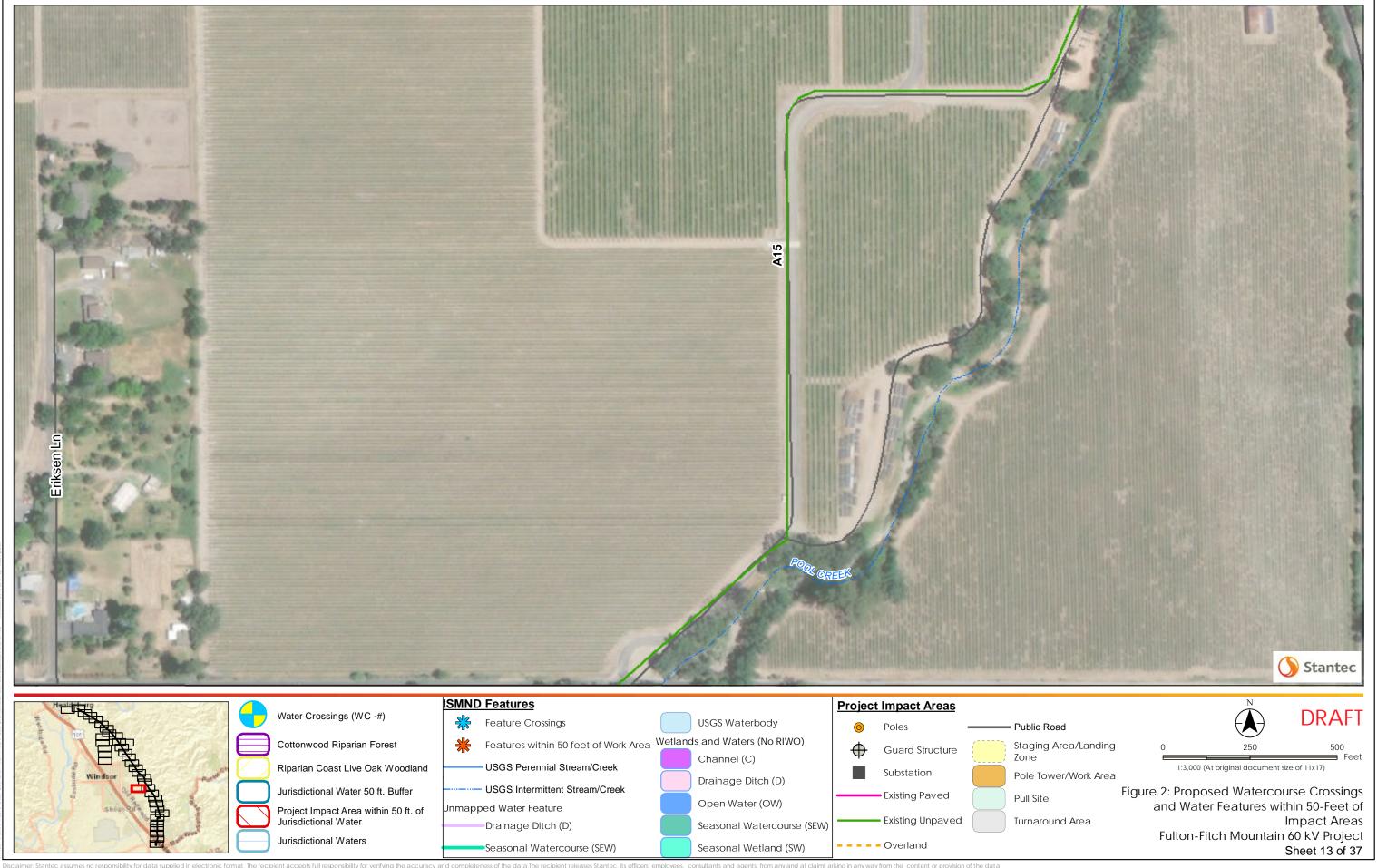


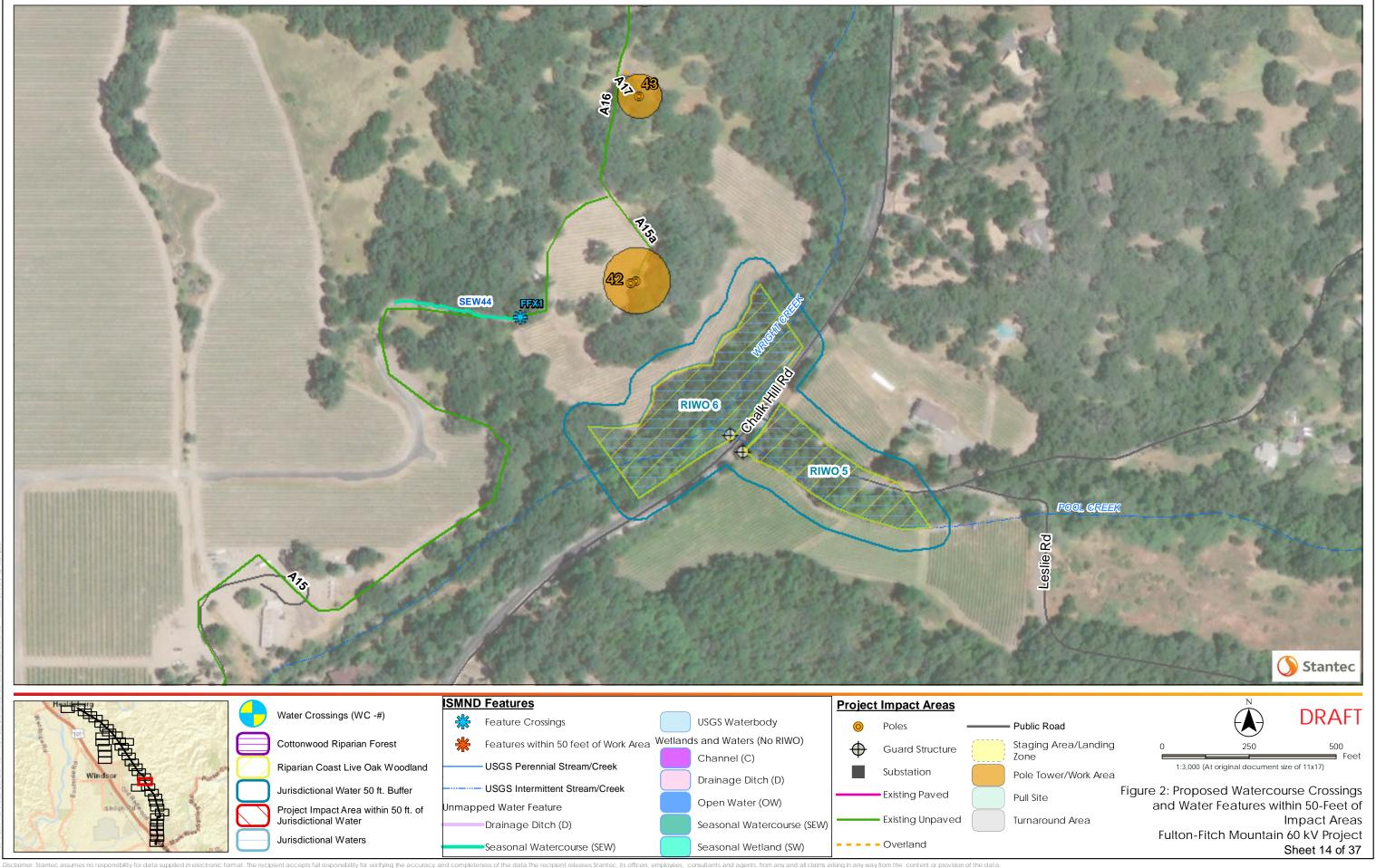


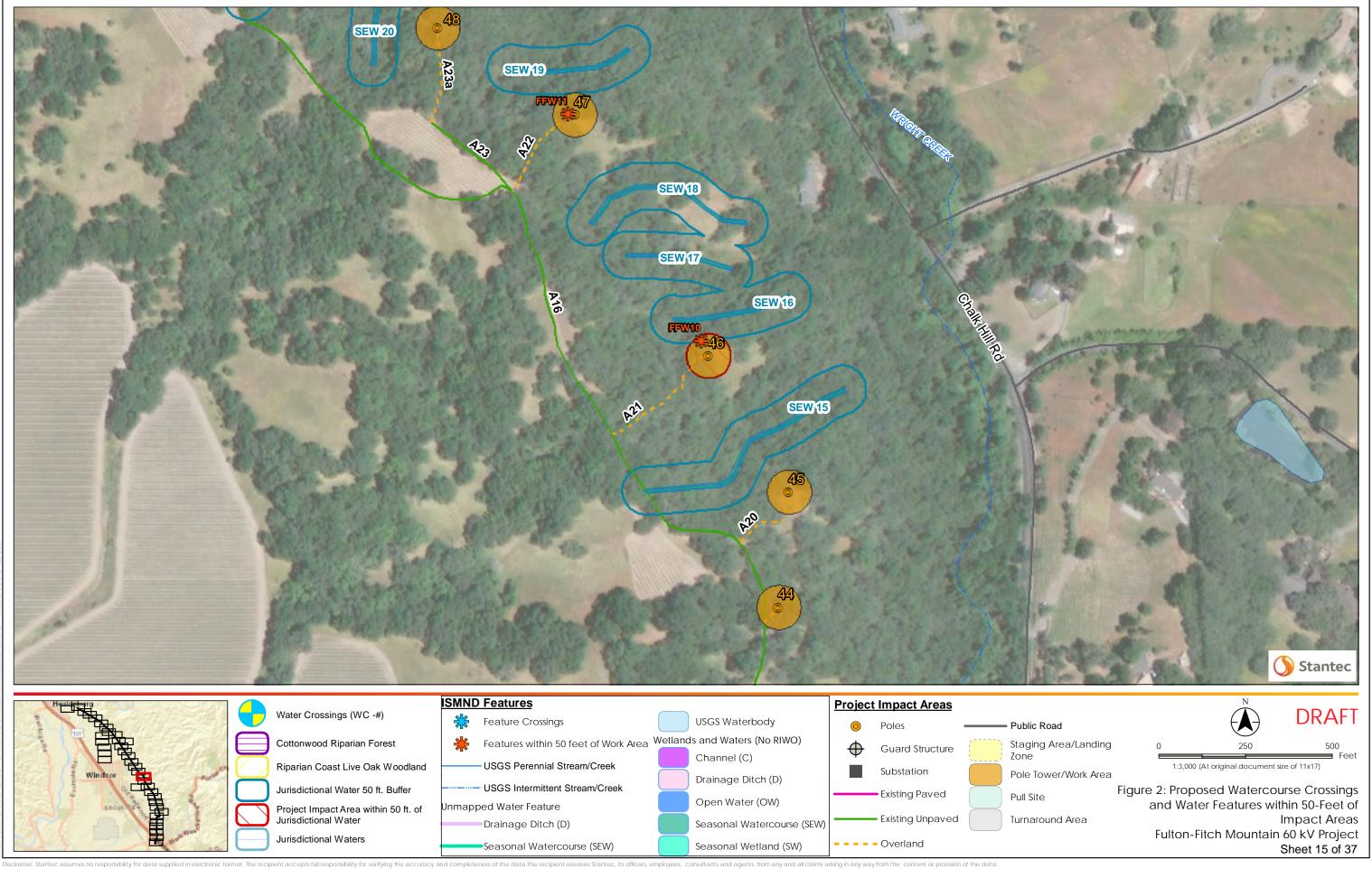


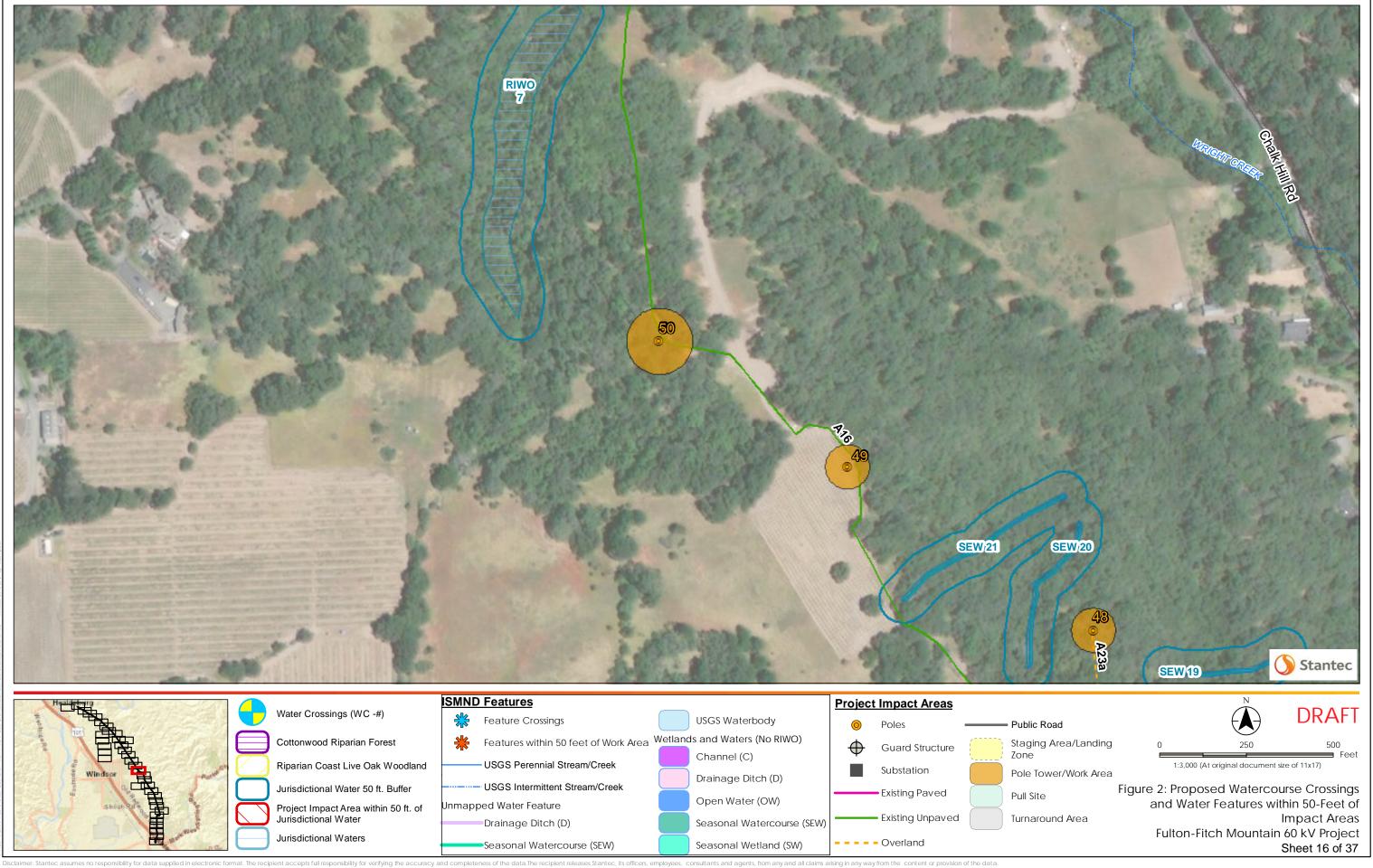


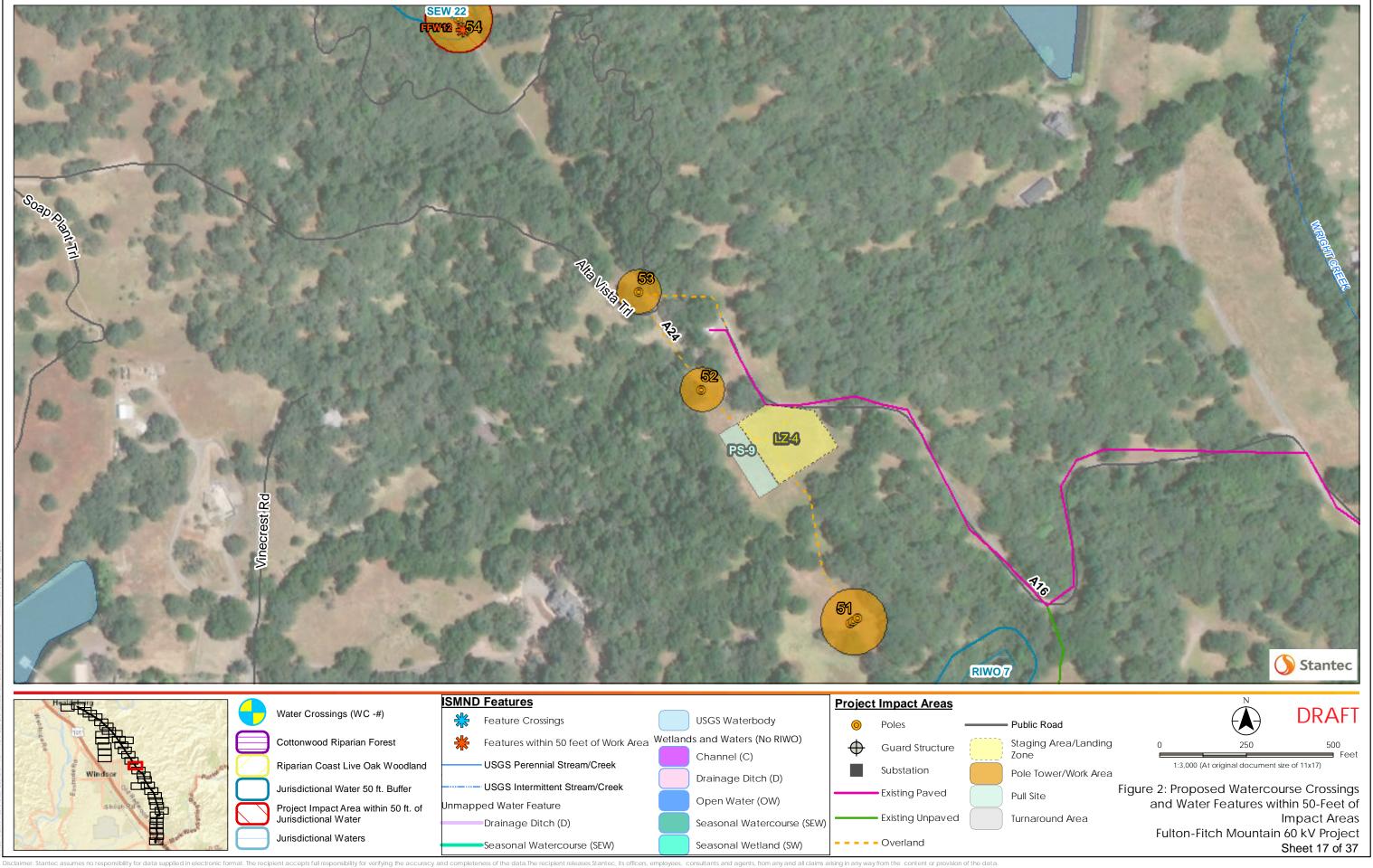


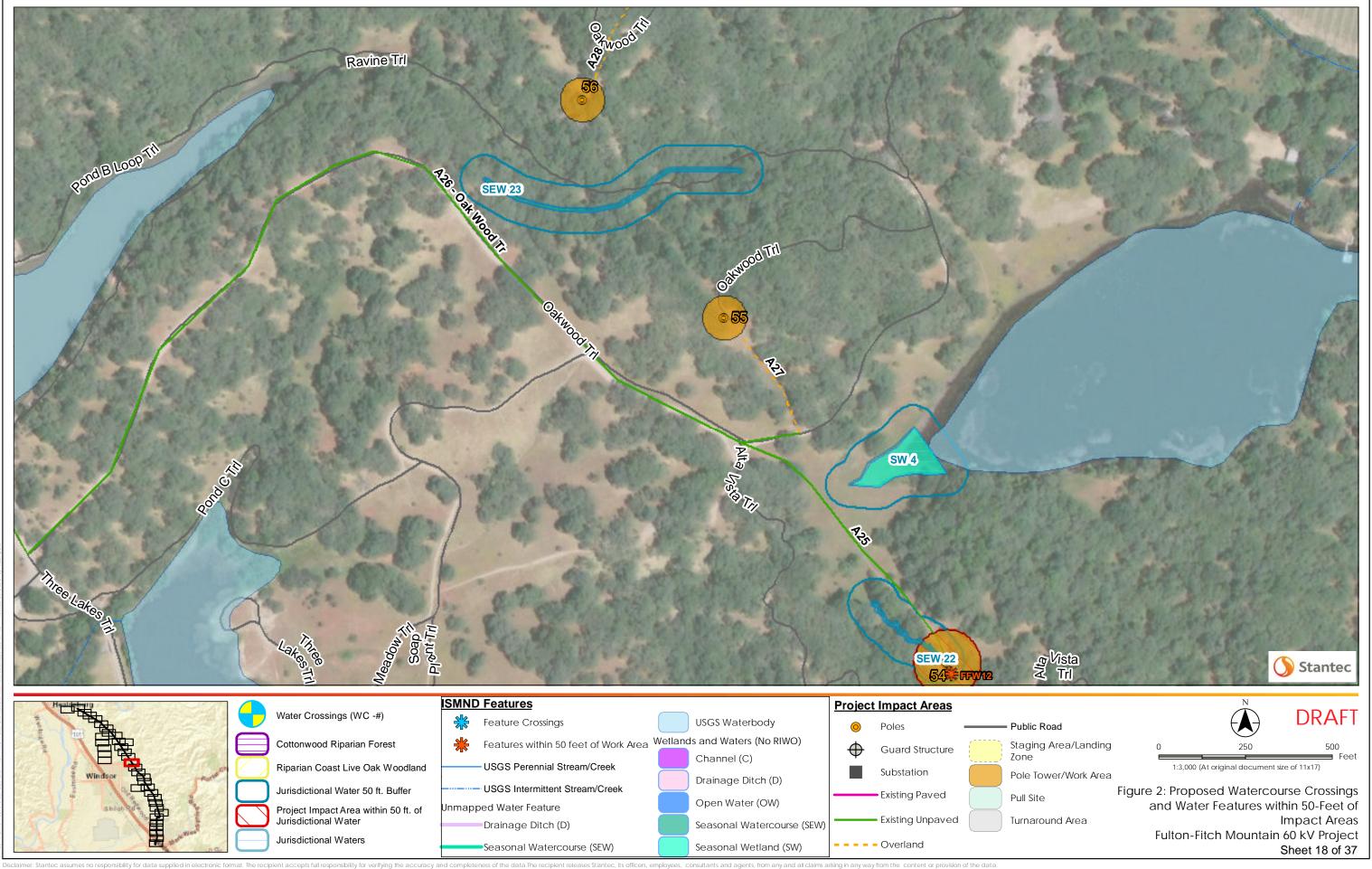


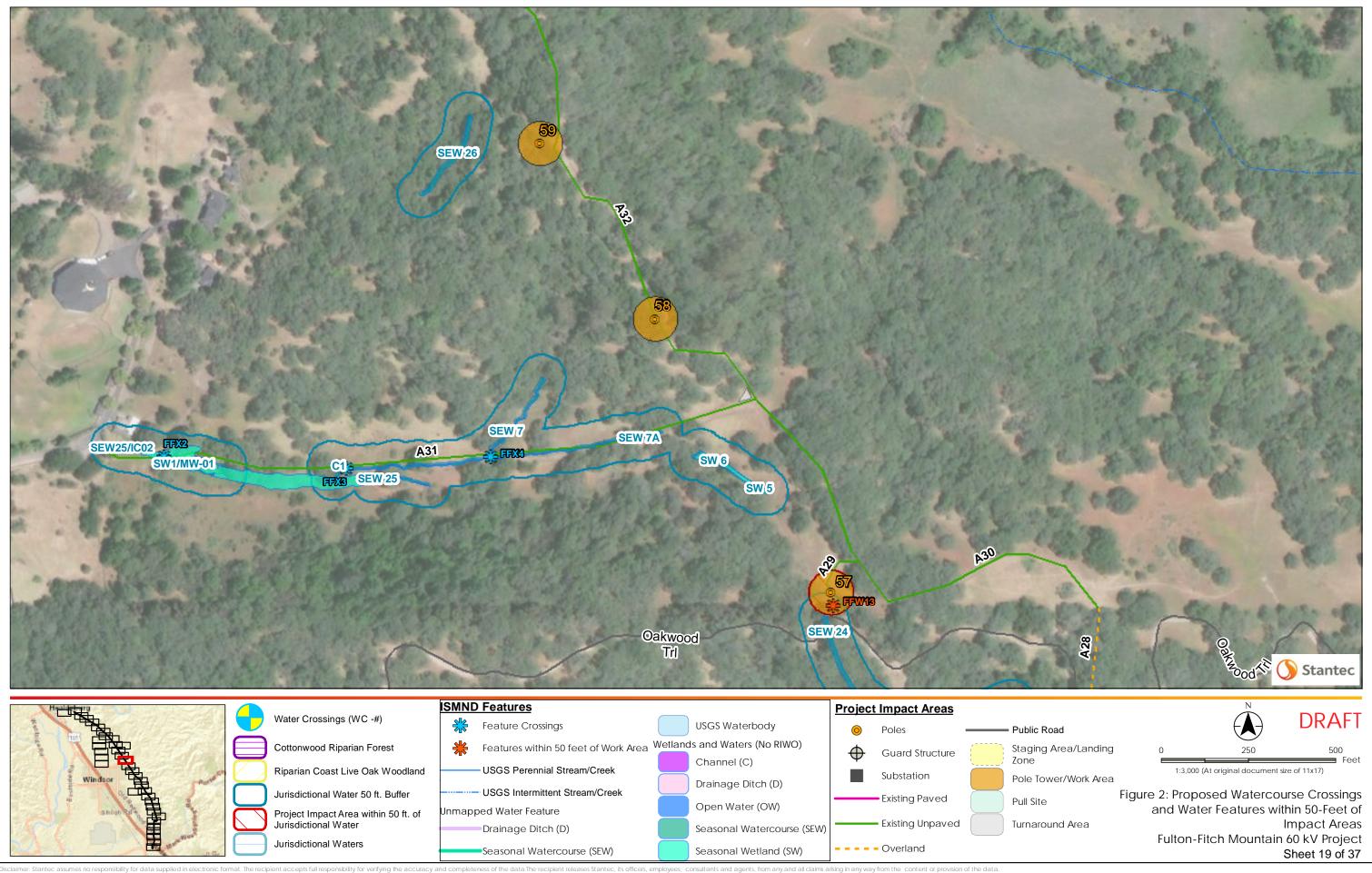


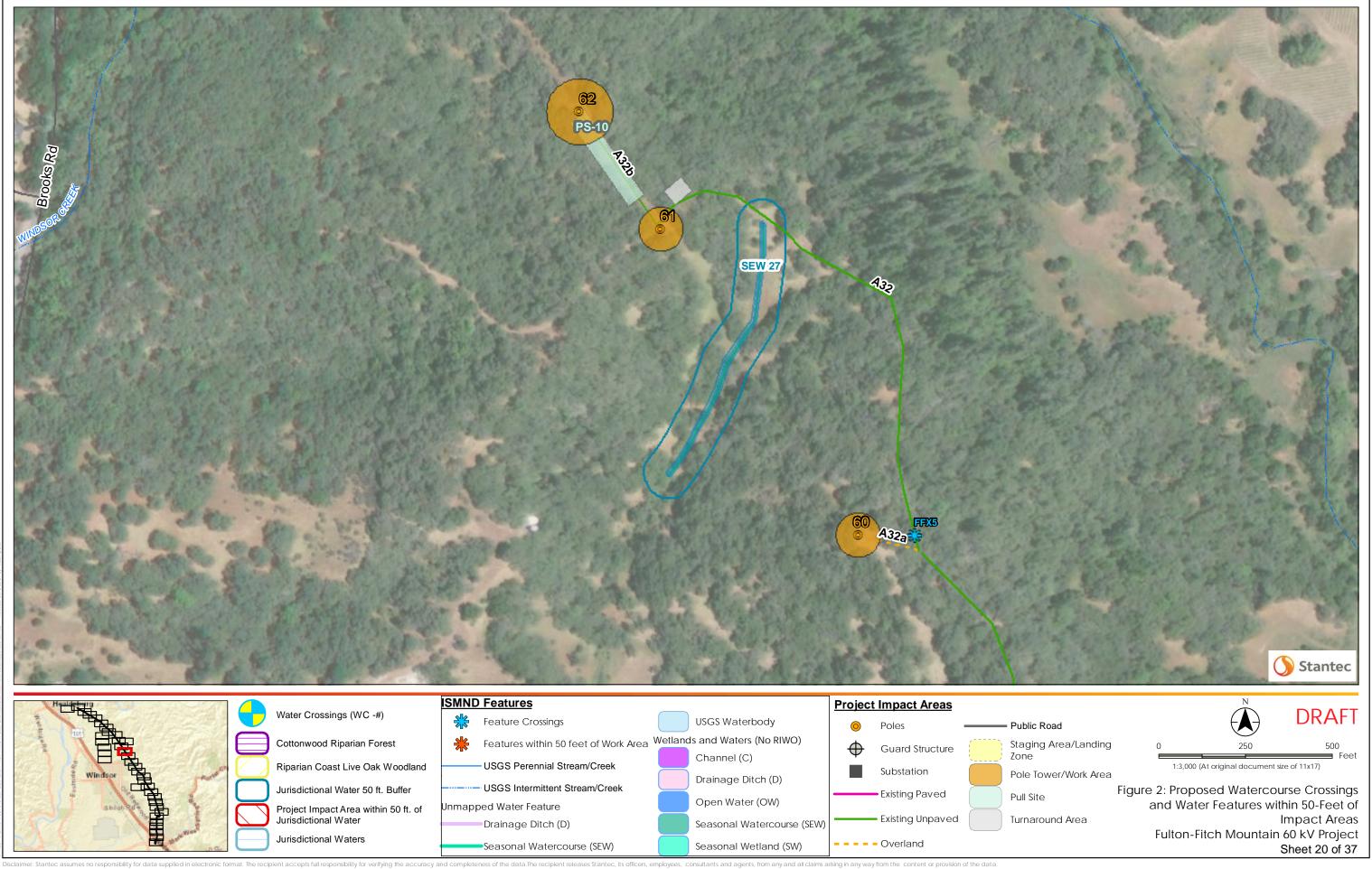


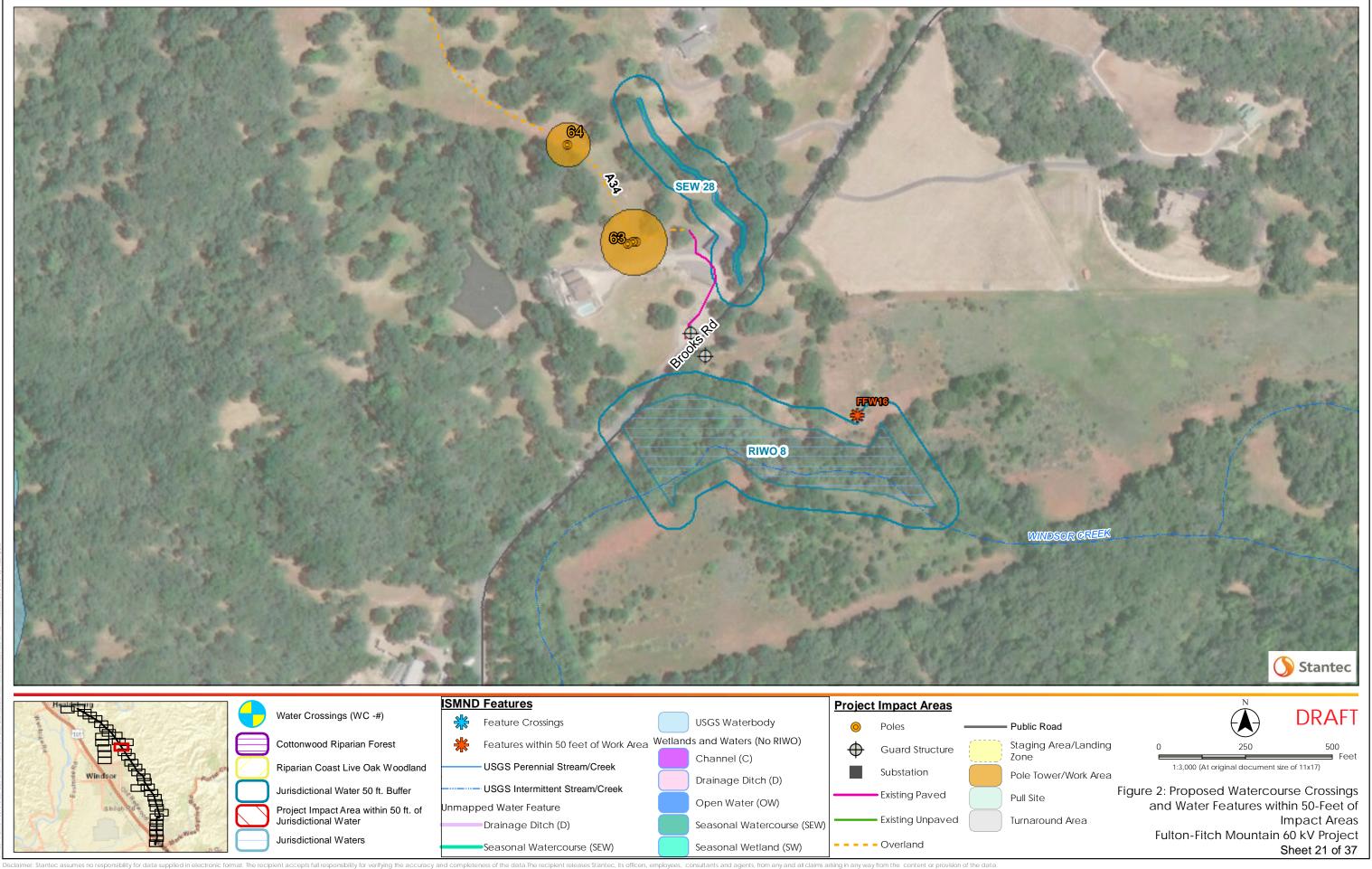


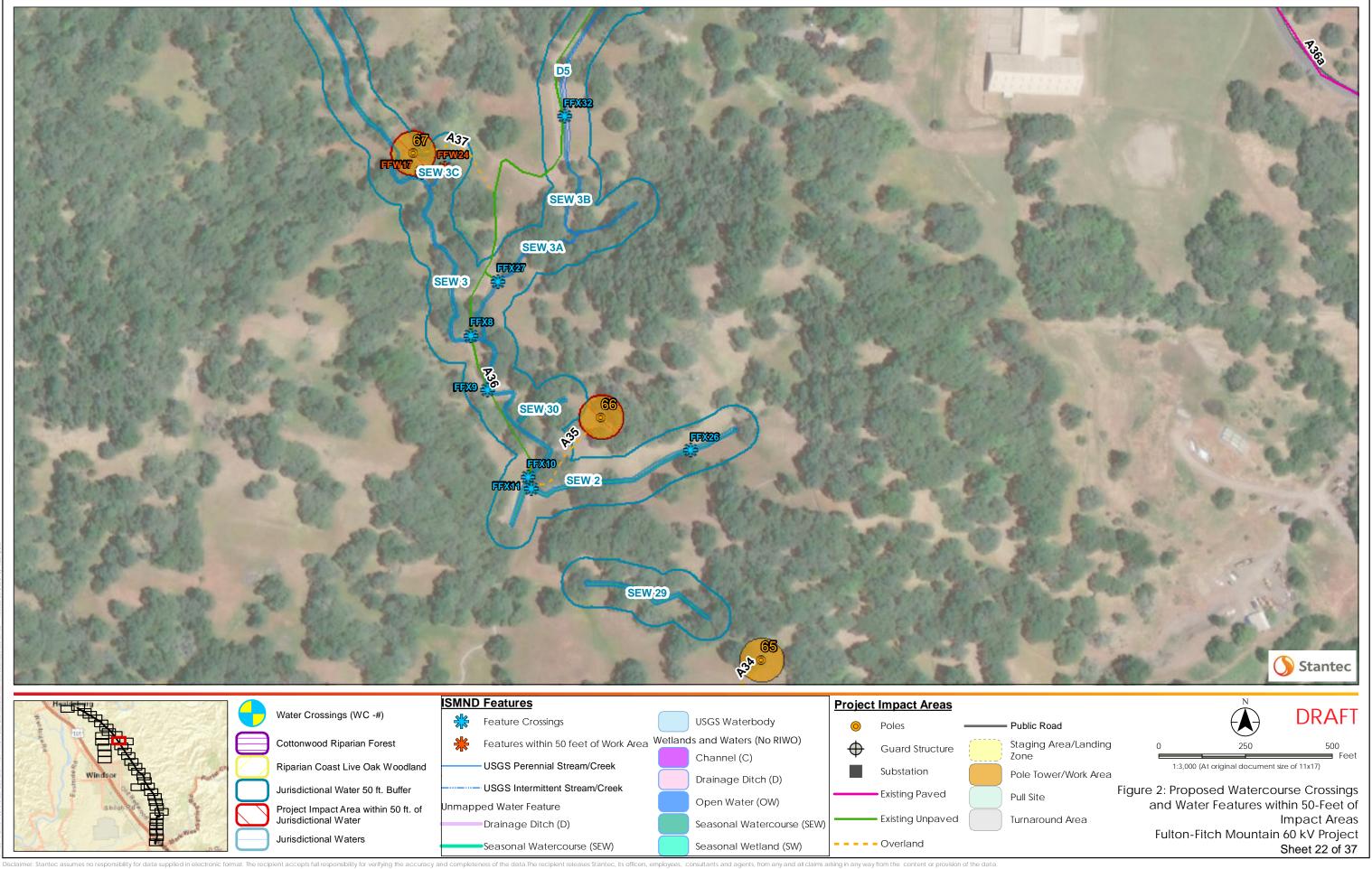


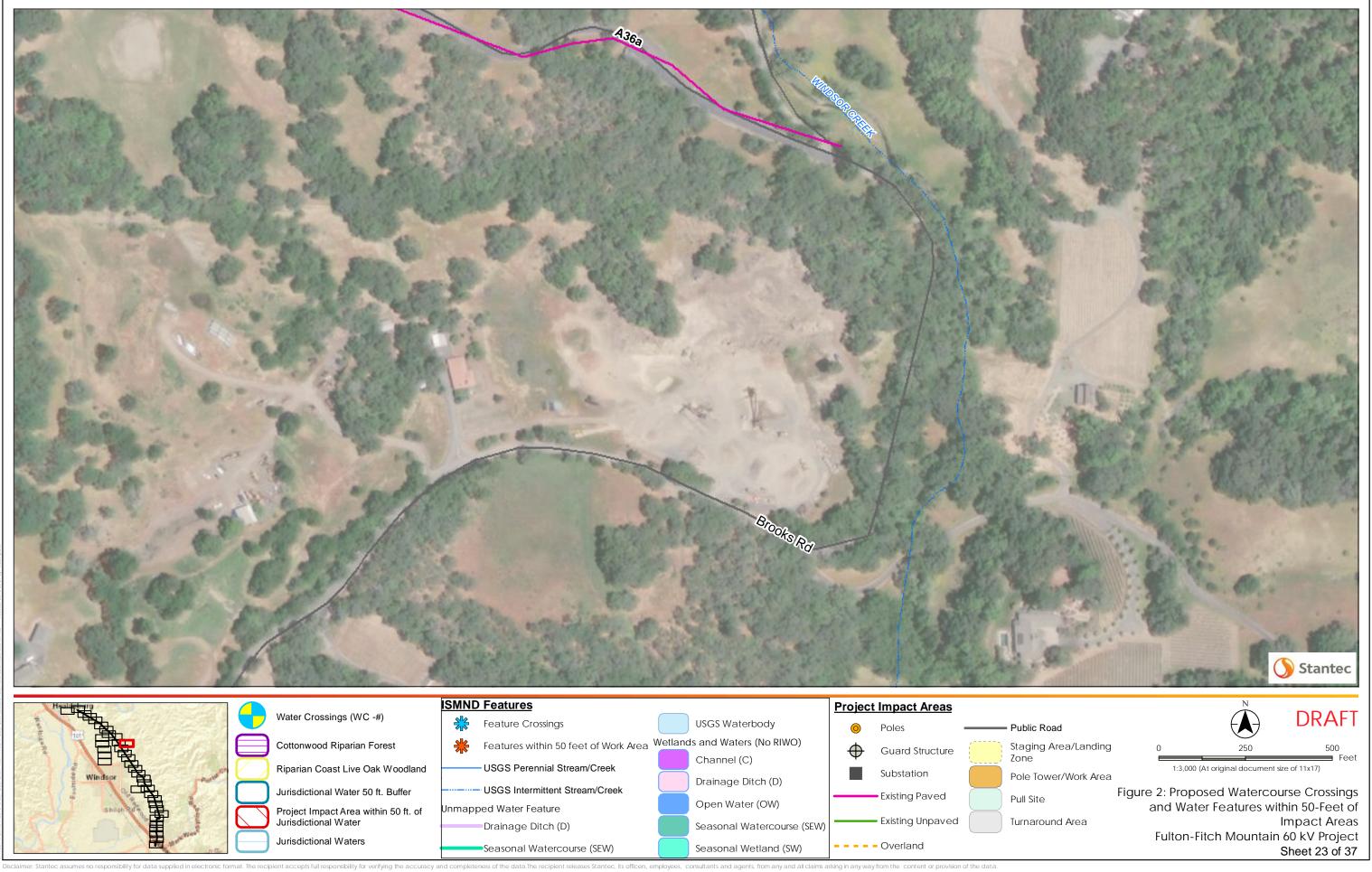


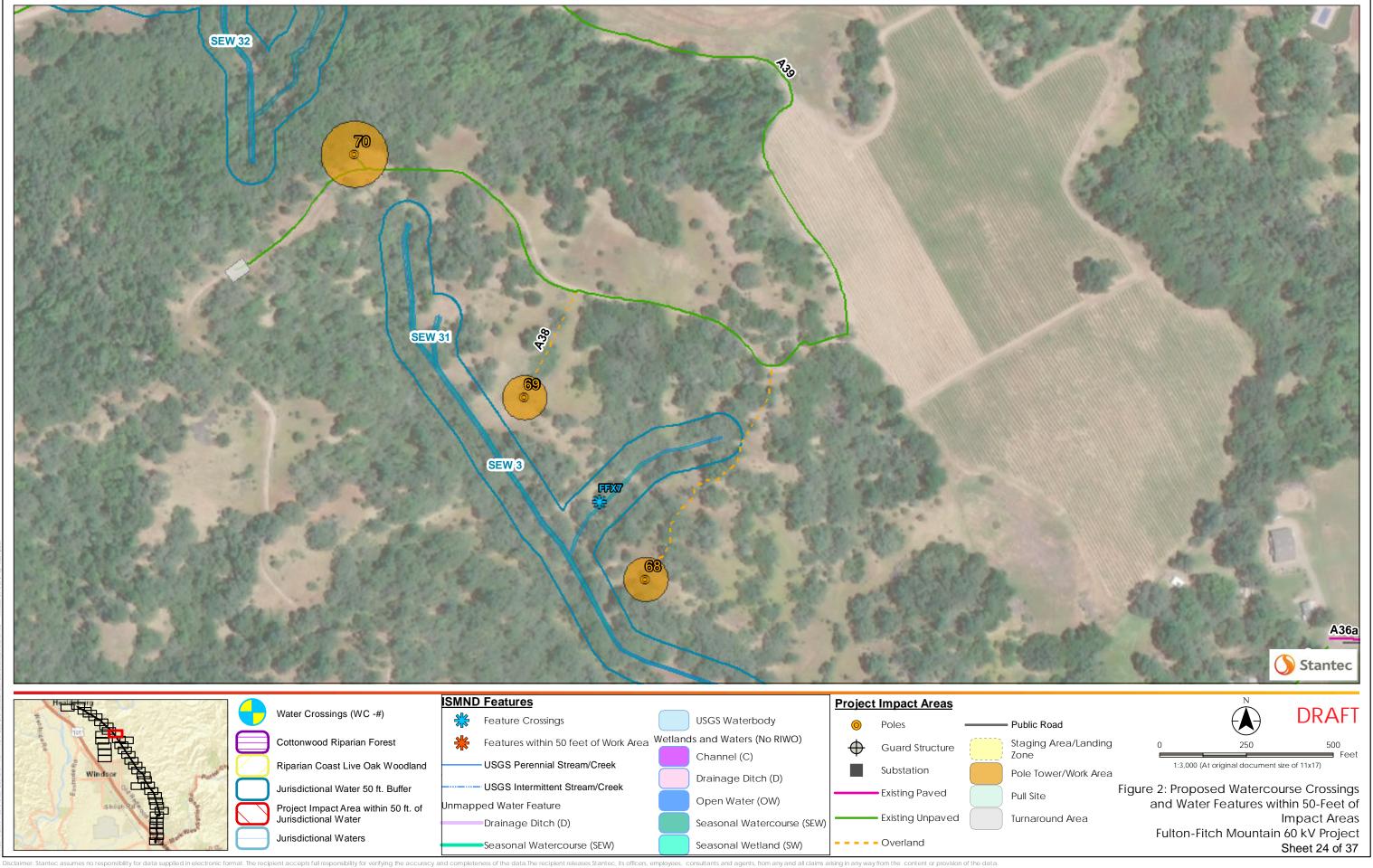


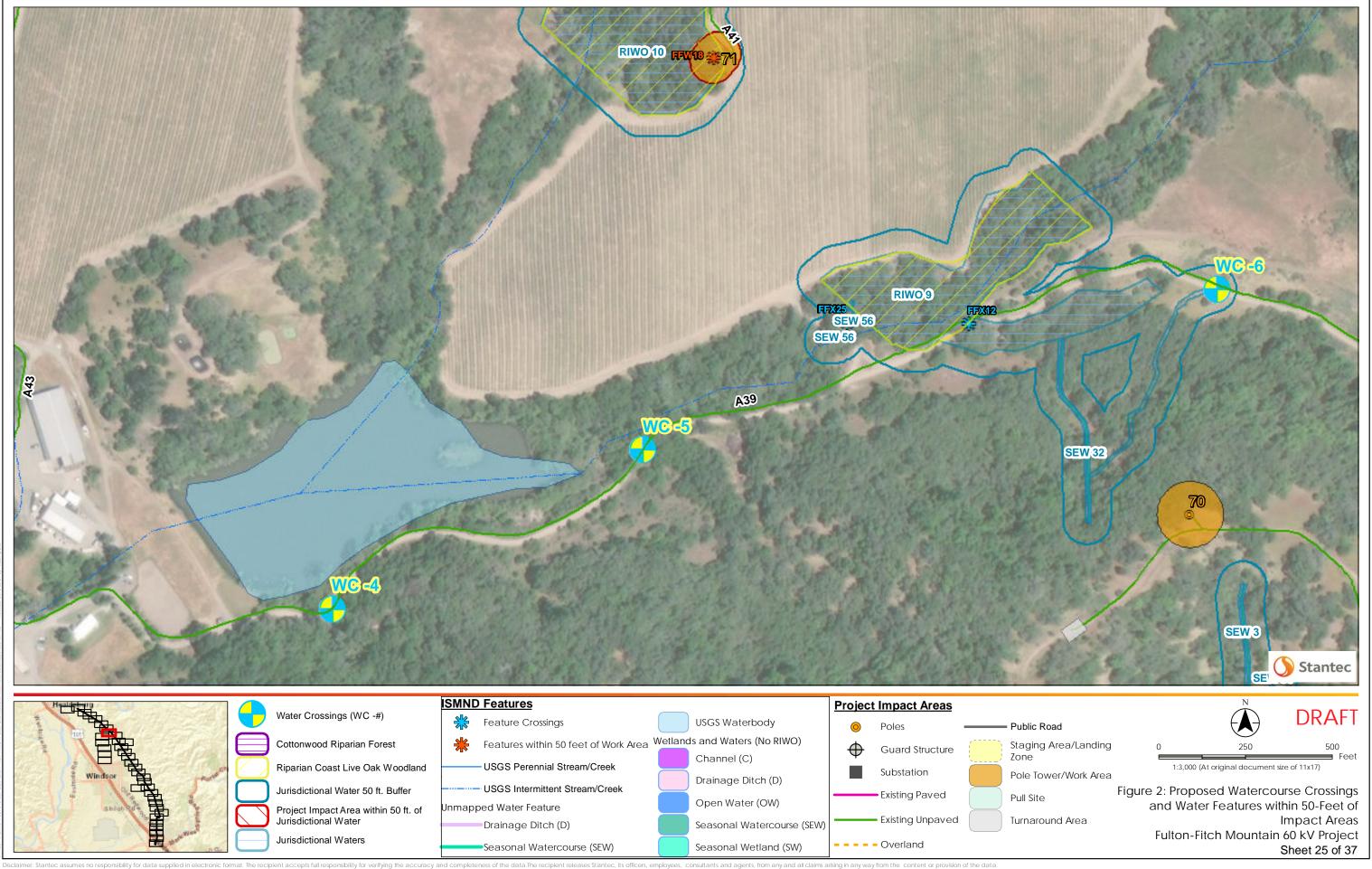


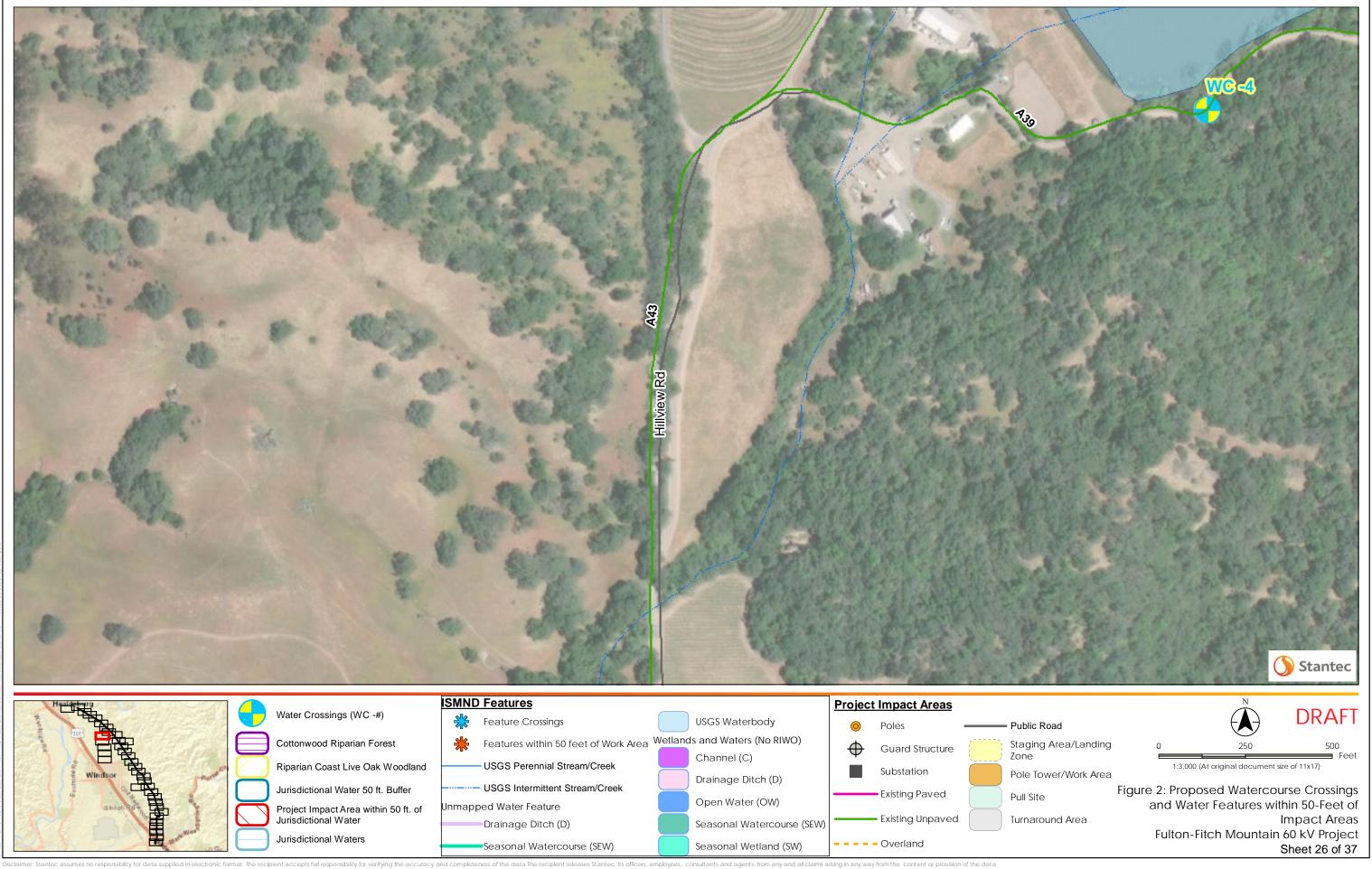


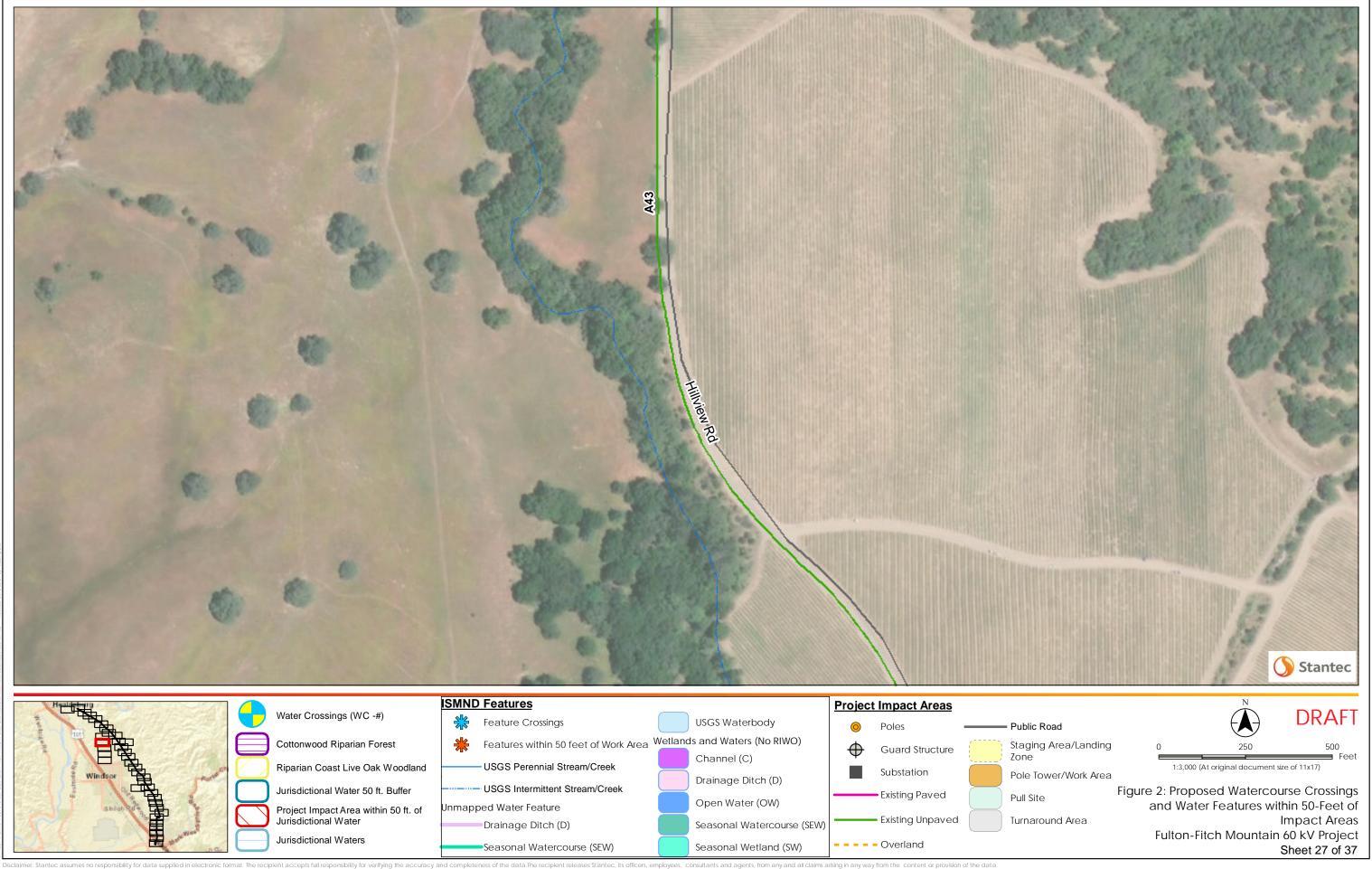


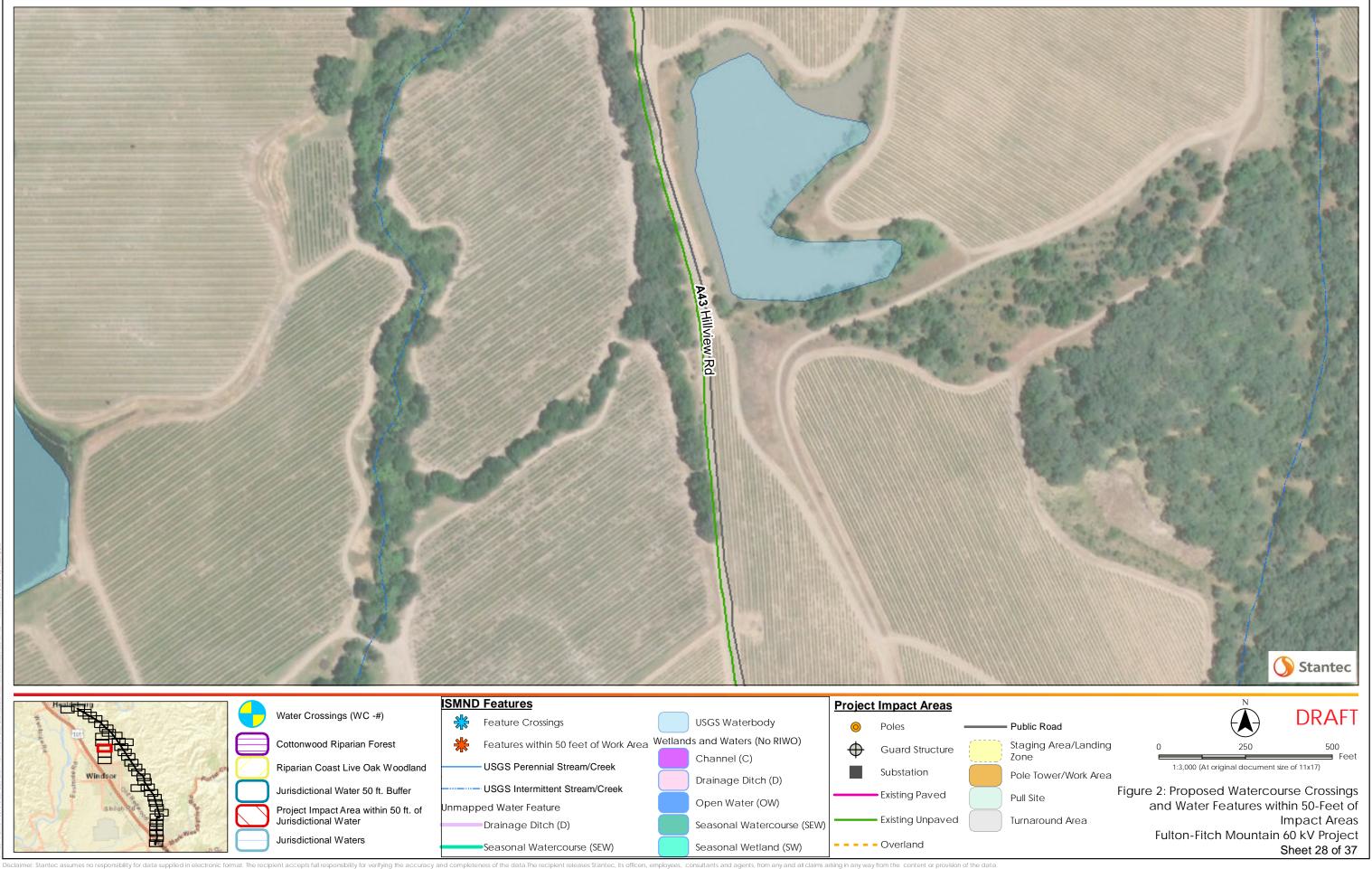




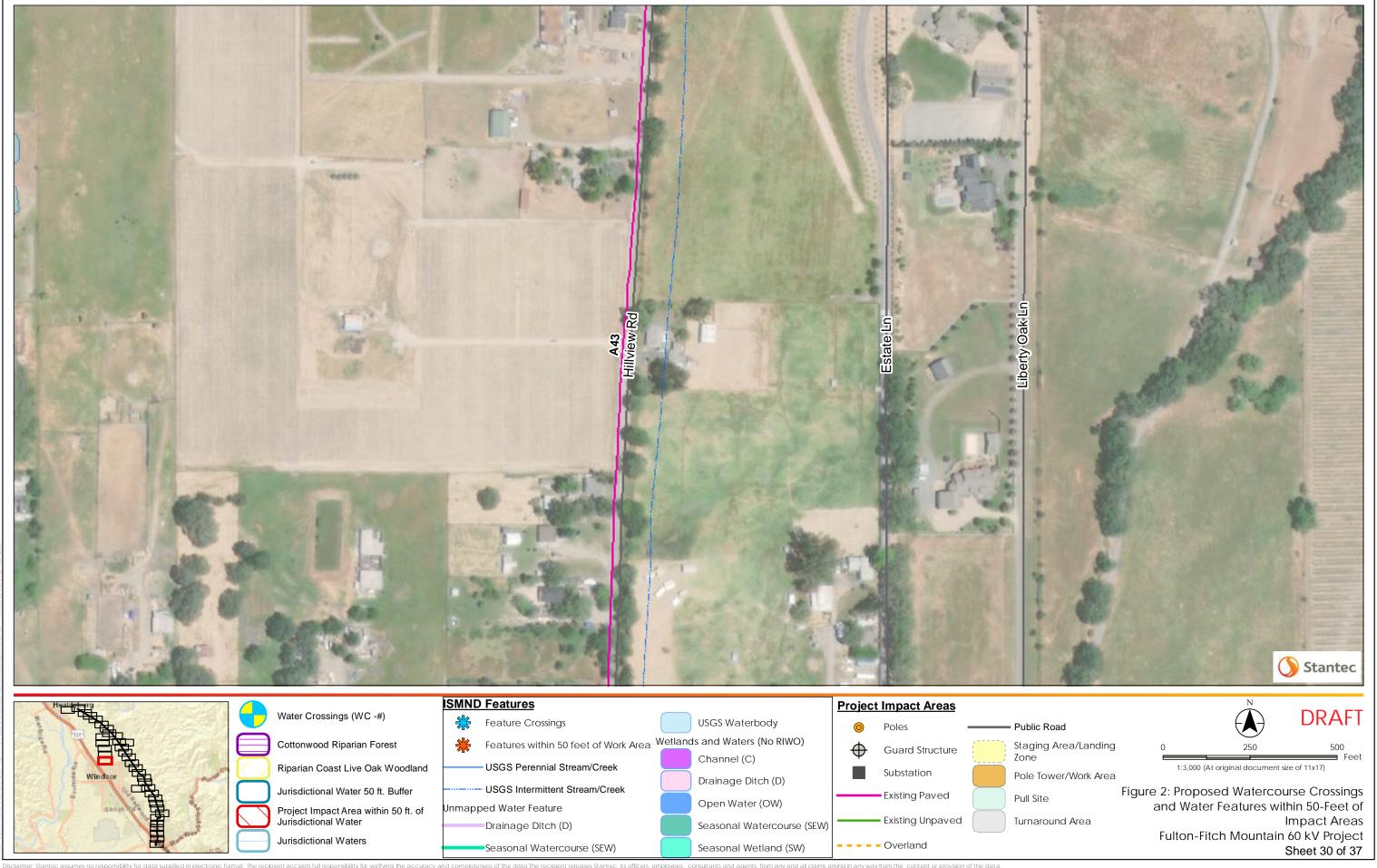


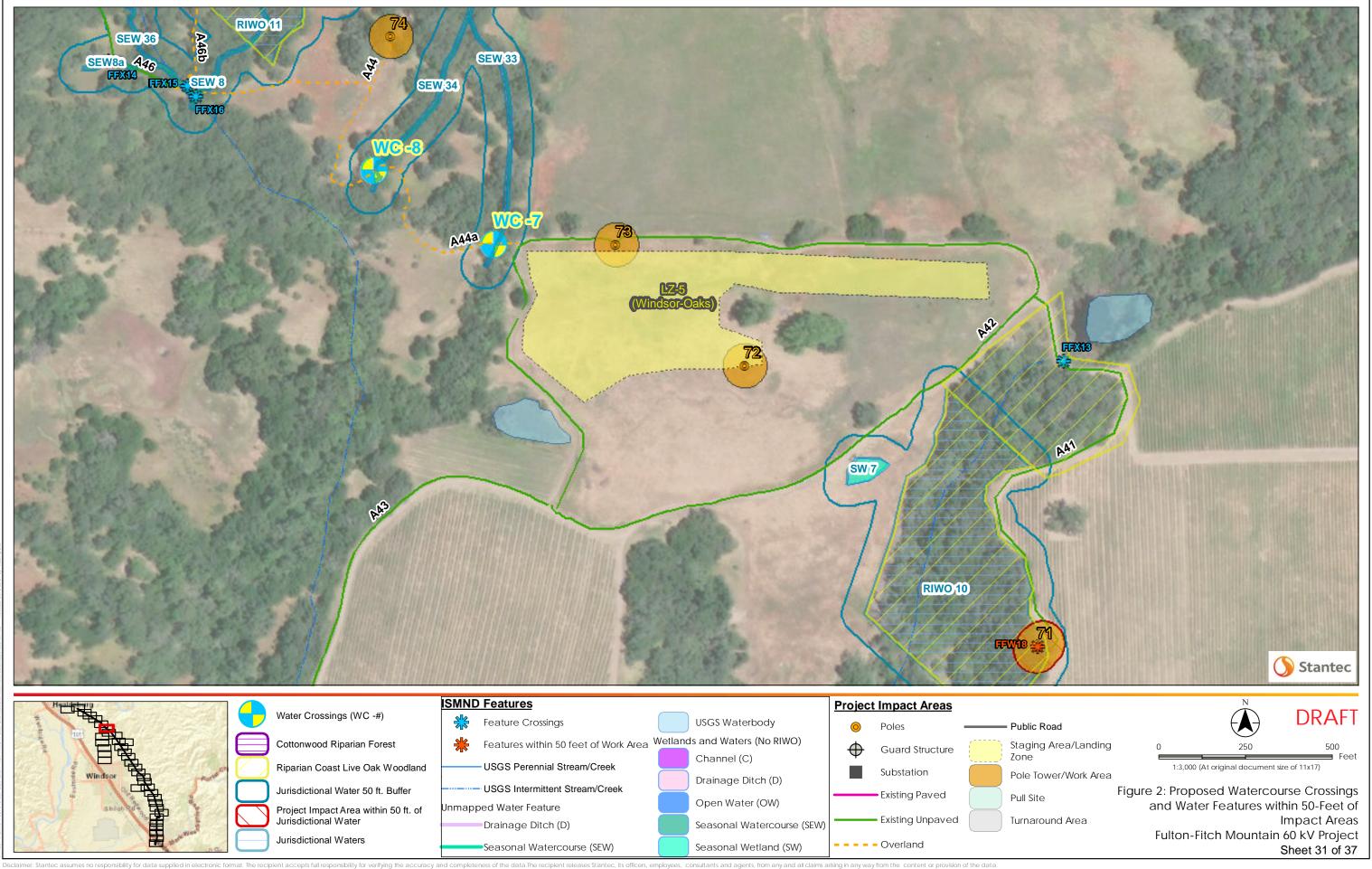


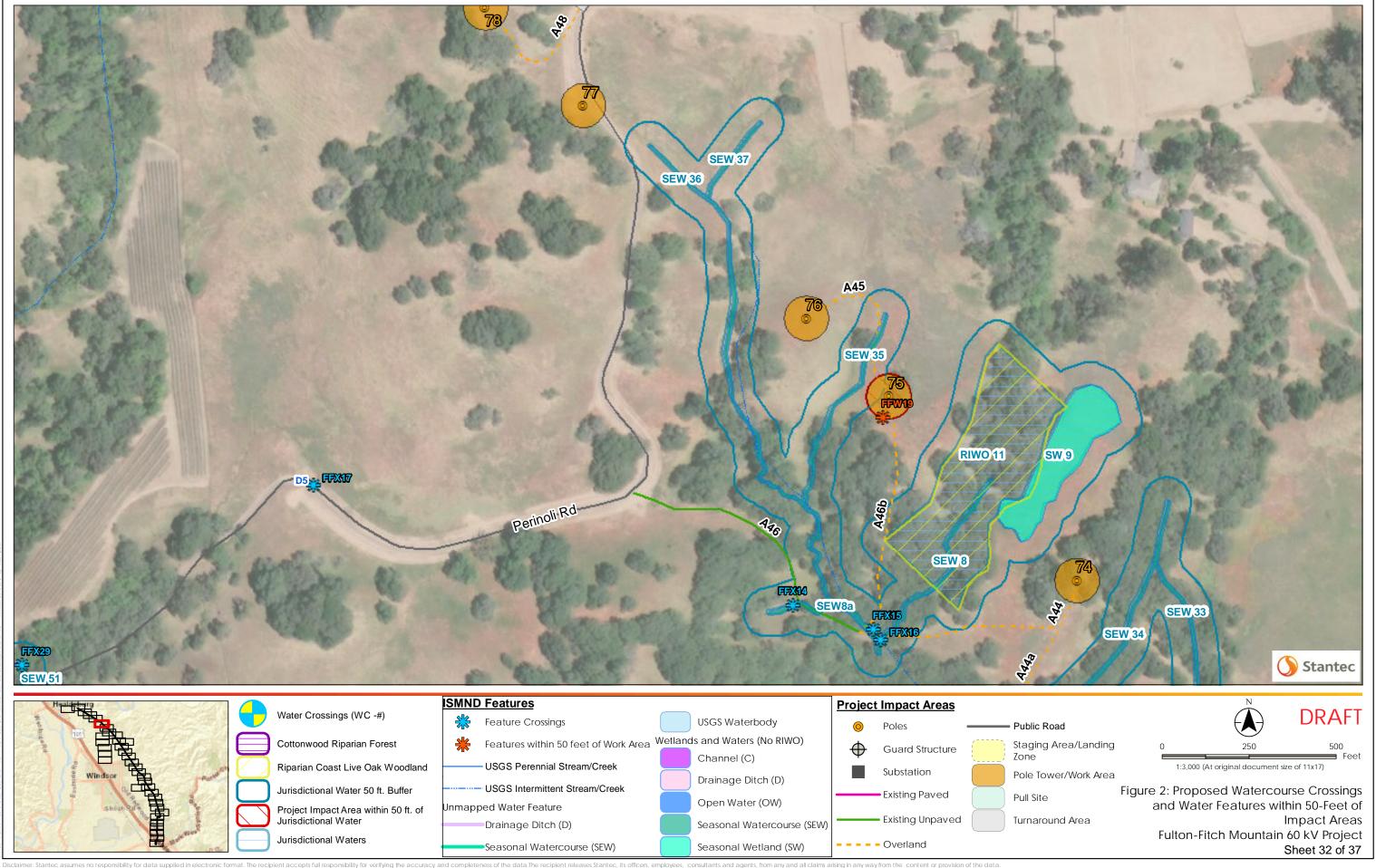


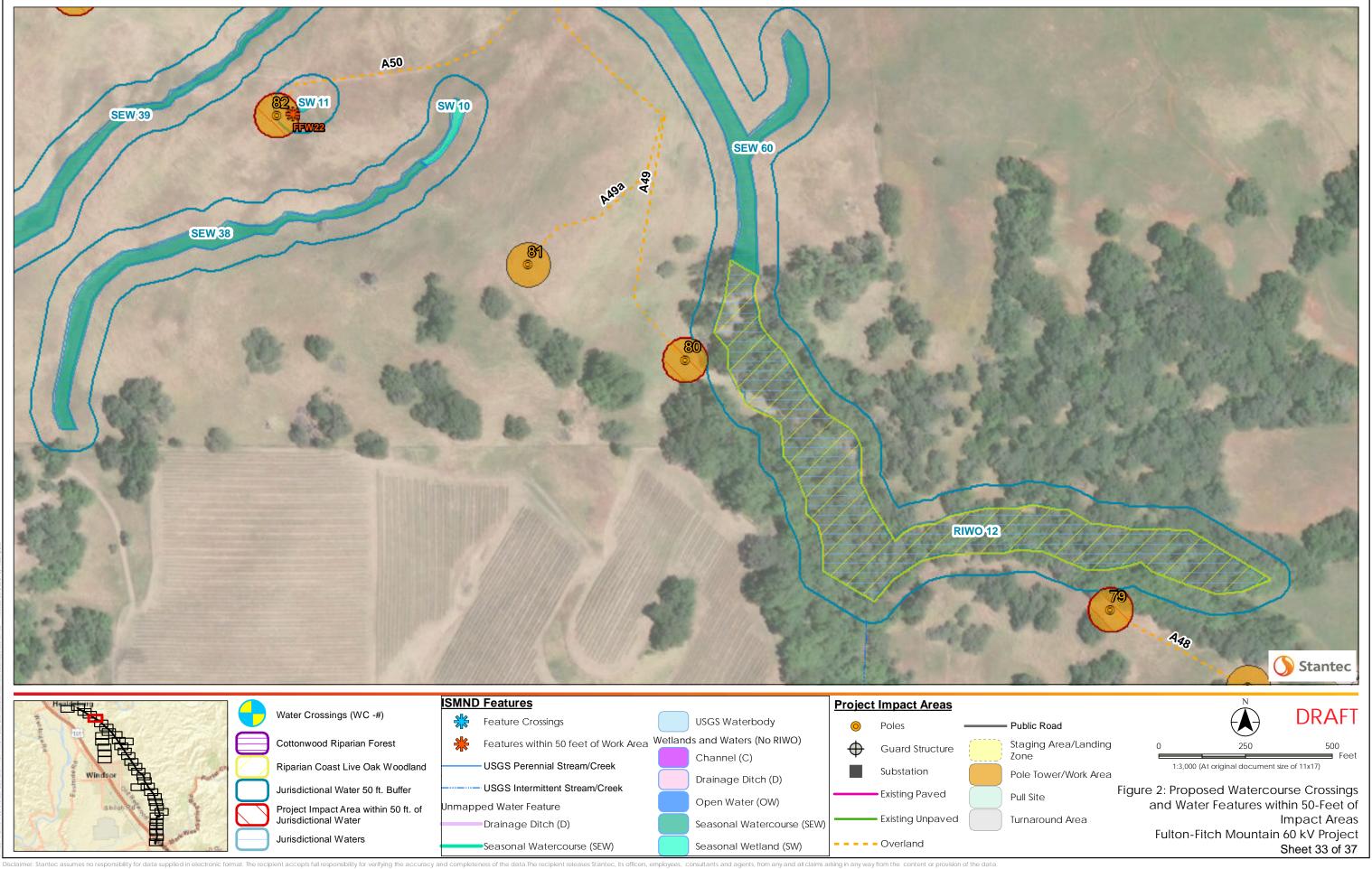


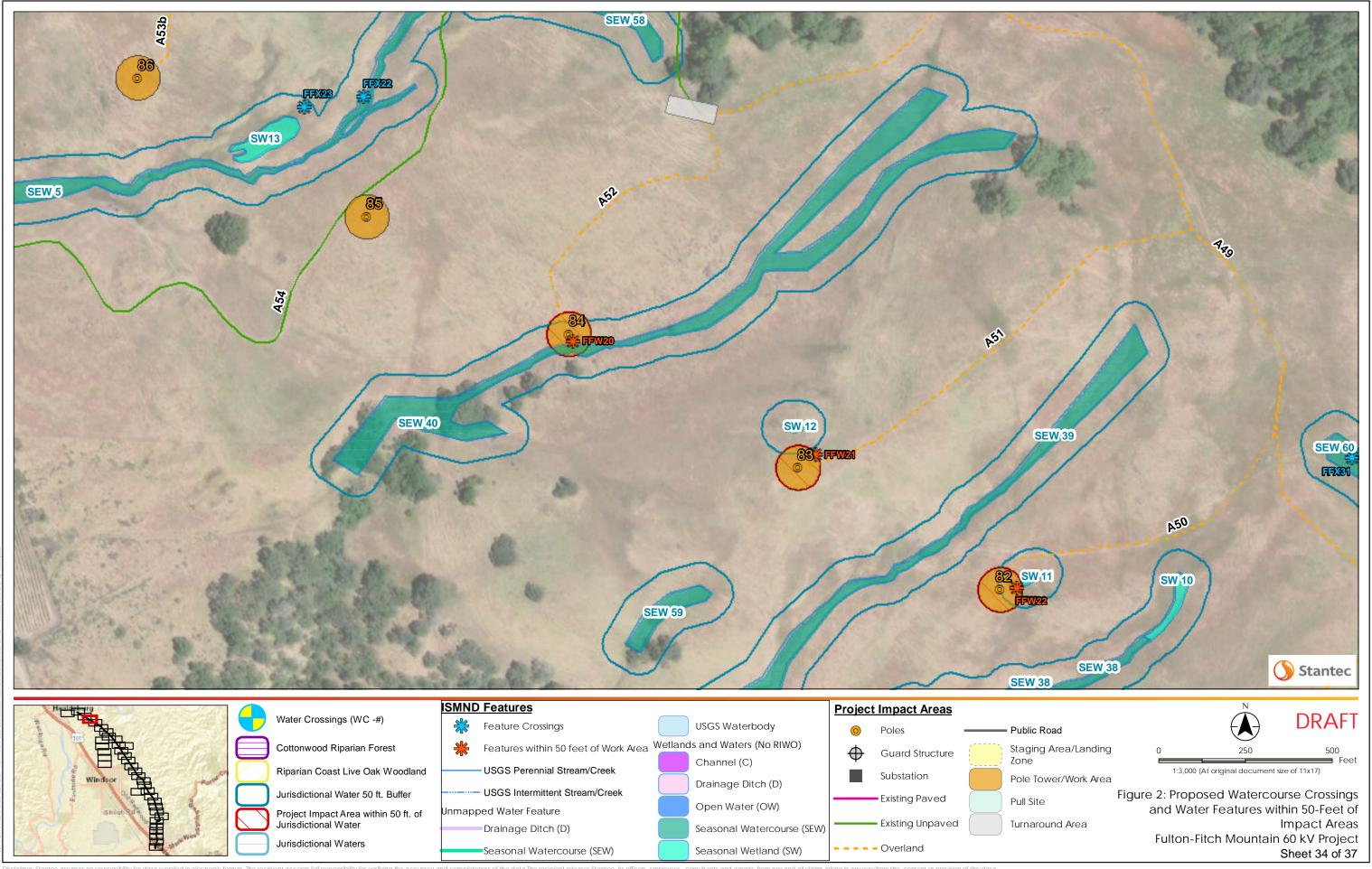


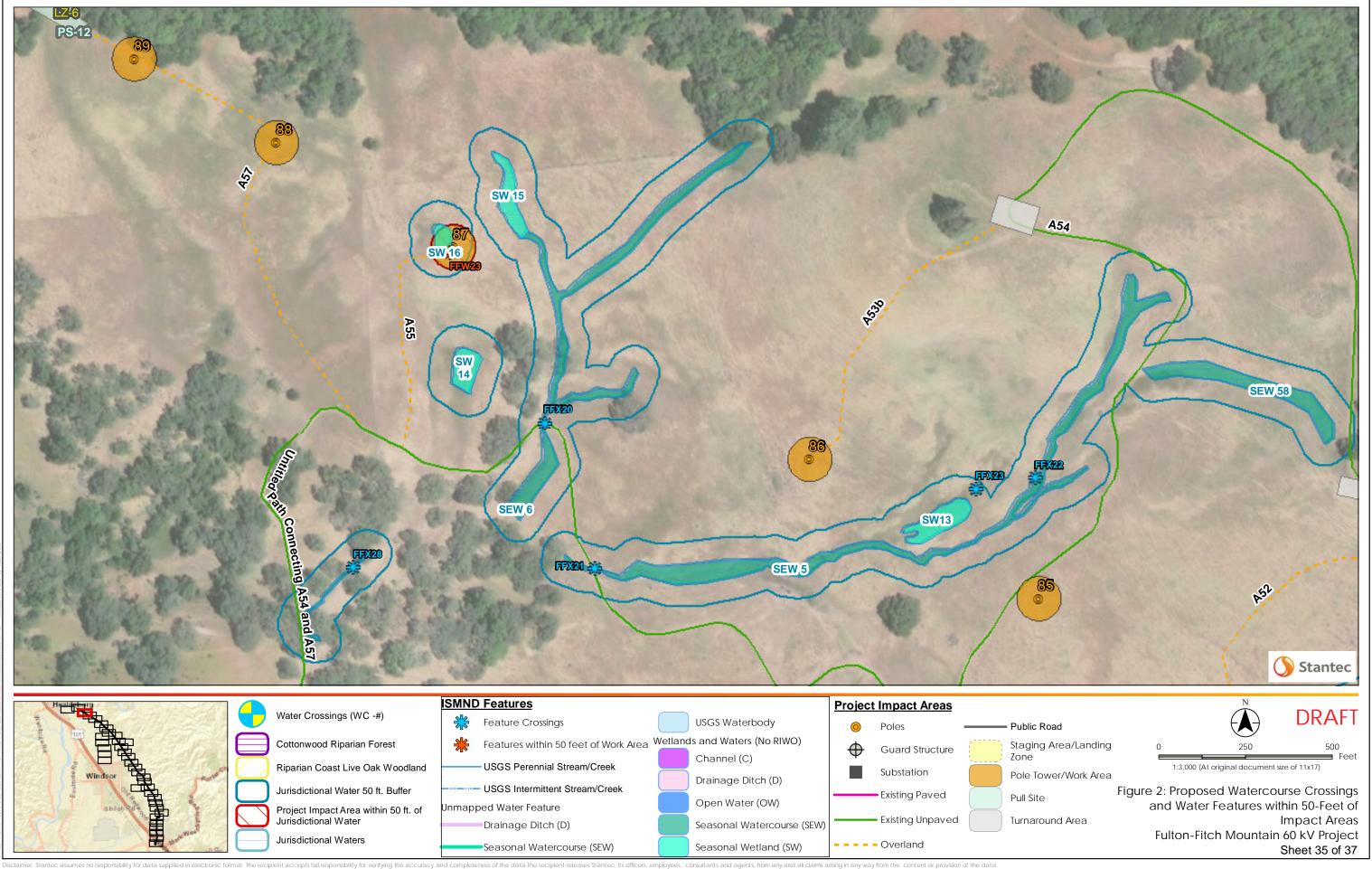


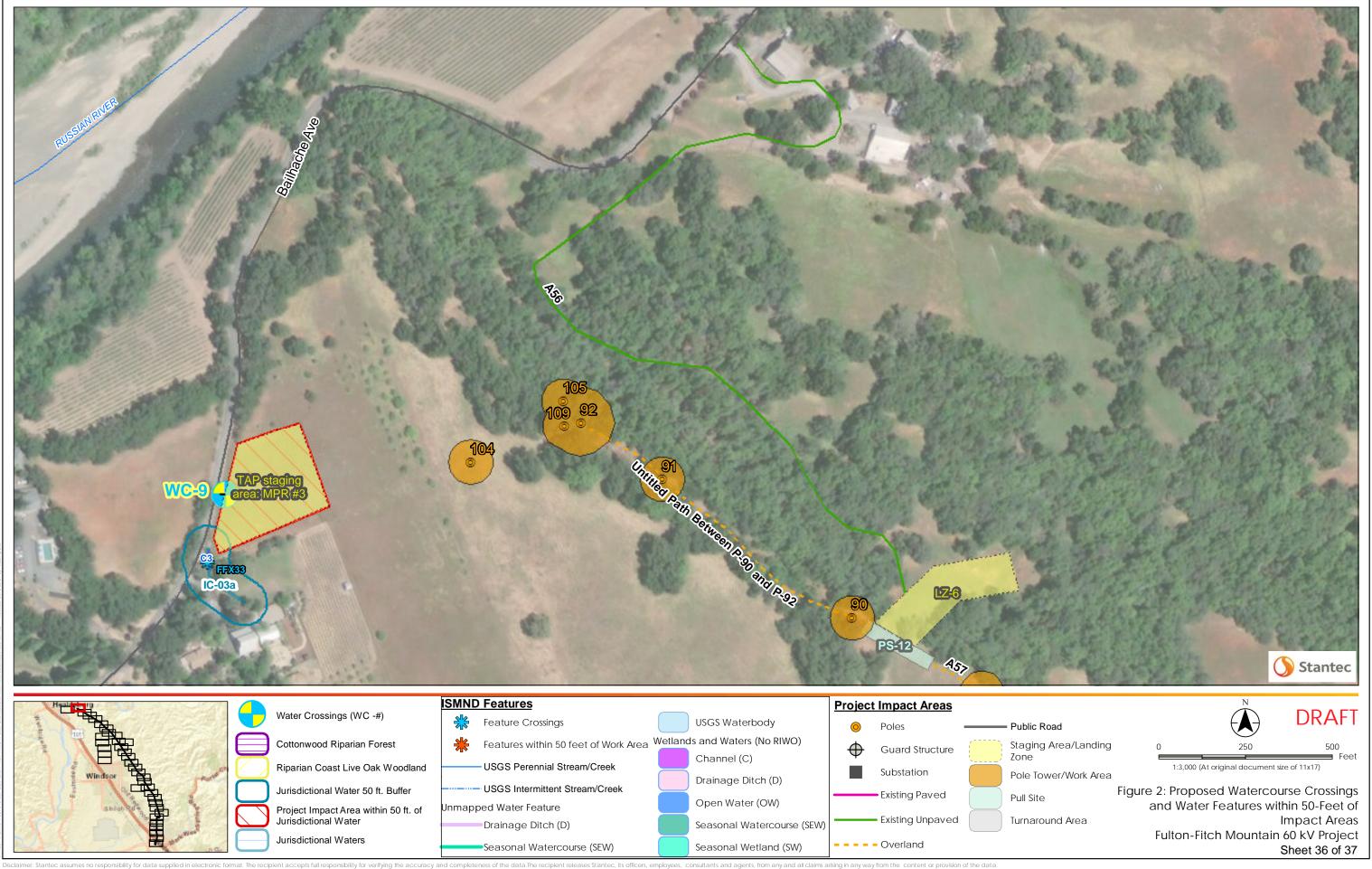














Attachment 2: CPUC Review of Pre-Construction Requirements for NTP #2

# FULTON-FITCH MOUNTAIN RECONDUCTORING PROJECT

Review of Pre-construction Requirements for NTP #2

Updated: July 20, 2018

Table 1 Permits and Authorizations Tracking

				Review/C	oordination a	
Permit/Authorization	Purpose and Authority	Requirement Sources	Timing and Submittal Requirements	Submitted	Approved	Status
Required Prior to All Construction	Activities					
CPUC Permit to Construct (PTC)	CPUC authorization to construct the project CPUC General Order (GO) 131-D, Section III.B		PG&E obtained a PTC from CPUC (as issued through the CPUC Proceeding Decision).	<b>CPUC:</b> 12/3/15	<b>CPUC:</b> 12/14/17; 4/26/18	Complete On 1/12/18, PG&E submitted an Application for Rehearing of Decision to address language in the CPUC's original decision regarding GO 95. PG&E's application was denied and the original decision was amended.
			*PG&E shall submit any requests for Minor Project Refinements (MPRs) or Petition for Modifications (PFMs), as needed, <b>prior to</b> <b>deviating from the CPUC-approved</b> <b>project</b> .	*CPUC: Ongoing	*CPUC: Ongoing	Ongoing  MPR #1 (Staging Area LZ-5); approved with NTP #1  MPR #2 (access road to LZ-3); pending review  MPR #3 (TAP Staging Area SA-5); approved with NTP #2
State Water Resources Control Board (SWRCB) General Permit	Permit for discharging stormwater associated with construction and land disturbance activities of one acre or more Order No. 2009-0009-DWQ, as amended	Development and Implementation  MM Hydrology-2: SWPPP Monitoring Program	PG&E shall submit Permit Registration Documents (PRDs) (e.g., Notice of Intent [NOI], etc.) <b>once obtained from the</b> <b>SWRCB</b> .	SWRCB: 6/25/18 CPUC: 6/27/18	SWRCB: 6/25/18 CPUC: 6/27/18	Complete
	by 2010-0014-DWQ and 2012-0006-DWQ The General NPDES Permit requires preparation and implementation of a Stormwater Pollution Prevention Plan (SWPPP) (refer to Table C-2)		PG&E shall submit all Notice of Termination (NOT) forms to CPUC once SWPPP requirements have been met and permit coverage has ended.	SWRCB: Pending CPUC: Pending	SWRCB: Pending CPUC: Pending	Pending The pending requirements are not applicable to NTP #2.
Required Prior to Specific Construc	ction Activities					
Federal Aviation Administration (FAA) Notice of Proposed Construction or Alteration	Regulations apply to poles and conductor over 200 feet in height above ground level or within certain proximities to local airports Federal Aviation Regulations (FAR) and Code of Federal Regulations (CFR) Part 77	Consistency with impact analysis in IS/MND	An initial Notice (Form 7460) and FAA determination were completed; however, a revised notice must be submitted within 45 days of construction.  PG&E shall submit a final Notice to FAA and provide a copy of the Notice and FAA determination to CPUC once obtained.	FAA: 2/6/18 CPUC: 2/8/16	FAA: 2/6/18 CPUC: 2/8/16	Partially Complete  FAA determination of no hazard is complete for the poles identified in the Final IS/MND. Filing of FAA Form 7460-2, Part pending (due within 5 days after construction reaches its greatest height). Additional FAA notification would be required if major pole changes occur.  The pending requirements are not applicable to NTP #2.
FAA Congested Area Plan for External Helicopter Loads	Regulations for carrying external helicopter loads in congested areas (e.g., residential areas)  Title 14 Code of Federal Regulations (CFR) Part 133	MM Traffic-2: Overhead Construction Safety	PG&E shall submit the Plan for FAA approval <b>prior to conducting helicopter activity in congested areas</b> , and submit a copy of the approved plan to CPUC.	FAA: Pending CPUC: Pending	FAA: Pending CPUC: N/A	Pending – Condition of Approval #5
California Department of Transportation (Caltrans) Standard Encroachment Permit	Use of California state highways for purposes other than normal transportation, including construction activities completed within the Caltrans right-of-way (ROW)  Section 660 of the California Streets and Highways Code	MM Traffic-1: Construction Traffic Management MM Traffic-3: Roadway Damage	PG&E shall acquire the permit and provide a copy to CPUC prior to work within the US 101 ROW.	Caltrans: Pending CPUC: Pending	Caltrans: Pending CPUC: N/A Pending	Pending The pending requirements are not applicable to NTP #2.

				Review/Co	oordination <sup>a</sup>	
Permit/Authorization	Purpose and Authority	Requirement Sources	Timing and Submittal Requirements	Submitted	Approved	Status
Caltrans Transportation Permit	Movement of oversized or excessive load vehicles on the state transportation network  California Vehicle Code	MM Traffic-1: Construction Traffic Management MM Traffic-3: Roadway Damage	PG&E shall acquire the permit and provide a copy to CPUC prior to transportation of oversized equipment on the state transportation network.	Caltrans: Pending CPUC: 7/20/18	Caltrans: Pending CPUC: N/A	Complete
Sonoma County Building Permit	Constructing structures associated with the Fitch Mountain Substation Sonoma County Code of Ordinances, Chapter 7 Building Regulations, Section 7- 5	MMCRP	PG&E shall acquire the permit and provide copy to CPUC <b>prior to constructing the Fitch Mountain Substation</b> .	County: Pending CPUC: Pending	County: Pending CPUC: N/A	Pending - Condition of Approval #6
Sonoma County Encroachment Permit	Construction activities within Sonoma County roadways not covered by existing franchise agreements Sonoma County Code of Ordinances, Chapter 7 Building Regulations, Article III	MM Traffic-1: Construction Traffic Management MM Traffic-3: Roadway Damage	PG&E shall acquire the permit and provide a copy to CPUC <b>prior to work within County roadways</b> .	County: 7/20/18 CPUC: 7/20/18	County: 7/20/18 CPUC: N/A	Partially Complete  An encroachment permit was provided for the TAP Staging Area entrance off of Bailhache Avenue. Additional encroachment permits are required for any County lane or road closures.  The pending requirements are not applicable to NTP #2.
Sonoma County Transportation Permit	Movement of oversized or excessive load vehicles on the County transportation network  Sonoma County Code of Ordinances, Chapter 15 Highways, Roads and Bridges, Article II	MM Traffic-1: Construction Traffic Management MM Traffic-3: Roadway Damage	PG&E shall acquire the permit and provide a copy to CPUC prior to transportation of oversized equipment on the County transportation network.	County: Pending CPUC: Pending	County: Pending CPUC: N/A	Pending - Condition of Approval #7  A County encroachment permit has not been provided to date.
Required Following Specific Discov	veries/Determinations					
*United States (U.S.) Army Corps of Engineers (USACE) Section 404 Nationwide Permit	Work in waters of the U.S., including wetlands Section 404 of the Clean Water Act	MM Biology-11: Wetland Mitigation MM Hydrology-4: Watercourse Avoidance and Crossing Plan	*PG&E shall acquire a permit and provide a copy to CPUC <b>prior to impacting waters</b> <b>of the U.S., including wetlands.</b>	*USACE: TBD *CPUC: TBD	*USACE: TBD *CPUC: N/A	Impacts to jurisdictional water features associated with NTP #2 will be avoided and permitting requirements are not anticipated. PG&E would be required to obtain the necessary permits if any impact to a jurisdictional water feature becomes anticipated.
*U.S. Fish and Wildlife Service (USFWS) Section 10 Incidental Take Permit	Regulates impacts on federally-listed, threatened, or endangered plants and animals, and the habitats upon which they depend.  Section 10 of the Endangered Species Act	AMP BIO-7: California Tiger Salamander MM Biology-2: Special- status Plants MM Biology-3: California Red-legged Frog	*PG&E shall acquire permits and provide copies to CPUC <b>prior to any incidental take of federally-listed species or federally-protected habitat</b> .	*USACE: TBD *CPUC: TBD	*USFWS: TBD *CPUC: N/A	No special-status species have been identified in project areas to date. PG&E would be required to obtain the necessary permits if special-status species are discovered during pre-construction surveys or during construction clearances.  PG&E's Bay Area Habitat Conservation Plan completed in December 2017 would be applied for select species covered by the plan, including California red-legged frog.
*RWQCB Section 401 Water Quality Certification	Consistency with state water quality standards, prior to issuance of a USACE Section 404 Permit.  Section 401of the Clean Water Act	MM Biology-11: Wetland Mitigation MM Hydrology-4: Watercourse Avoidance and Crossing Plan	*PG&E shall obtain a 401 Permit prior to obtaining a Section 404 Permit from USACE, and provide a copy of the permits to CPUC prior to impacting waters of the U.S.	*RWQCB: TBD *CPUC: TBD	*RWQCB: TBD *CPUC: N/A	Impacts to jurisdictional water features associated with NTP #2 will be avoided and permitting requirements are not anticipated. PG&E would be required to obtain the necessary permits if any impact to a jurisdictional water feature becomes anticipated.

				Review/Co	oordination <sup>a</sup>	
Permit/Authorization	Purpose and Authority	Requirement Sources	Timing and Submittal Requirements	Submitted	Approved	Status
*California Department of Fish and Wildlife (CDFW) Lake and Streambed Alteration Agreement	Regulates activities that affect waters of the state, including the bed or bank of such features Fish and Game Code Section 1602	MM Hydrology-4: Watercourse Avoidance and Crossing Plan	*PG&E shall acquire any permit and provide a copy to CPUC <b>prior to impacting waters of the state</b> .	*CDFW: TBD *CPUC: TBD	*CDFW: TBD *CPUC: N/A	Impacts to jurisdictional water features associated with NTP #2 will be avoided and permitting requirements are not anticipated. PG&E would be required to obtain the necessary permits if any impact to a jurisdictional water feature would occur.
*CDFW Section 2081(b) Incidental Take Permits or Consistency Determination	Impacts on state-listed, threatened, or endangered species, and the habitats upon which they depend Fish and Game Code Section 2081(b)	AMP BIO-7: California Tiger Salamander APM BIO-8: American Badger APM BIO-9: Western Pond Turtle MM Biology-2: Special- status Plants MM Biology-4: Foothill Yellow-legged Frog	*PG&E shall acquire any permits and provide copies to CPUC <b>prior to any incidental take of state-listed species or state-protected habitat</b> .	*CDFW: TBD *CPUC: TBD	*CDFW: TBD *CPUC: N/A	No special-status species have been identified in project areas to date. PG&E would be required to obtain the necessary permits if special-status species are discovered during pre-construction surveys or during construction clearances.
*Sonoma County culvert design approval	Requirements regarding the design of culverts that could impede flood water Sonoma County Flood Control Design Criteria	MM Hydrology-5: Culvert Design	PG&E shall acquire the permit and provide a copy to CPUC <b>prior to modifying or installing culverts</b> .	*County: Pending *CPUC: Pending	*County: Pending *CPUC: N/A	<b>TBD</b> PG&E no longer anticipates a need for culvert installation or replacement.

### Notes:

# Table 2 Plans Tracking

		Review/Coordination <sup>a</sup>				
Plan	Requirement Sources	Timing and Submittal Requirements	Submitted	Approved	Status	
Required Prior to All Construction	n Activities					
Worker Environmental Awareness Program (WEAP) Training Materials (also referred to as the Environmental Training Program [ETP])	APM BIO-1a: Environmental Awareness Training MM Biology-10: Sudden Oak Death Procedures MM Cultural-2: Cultural Resource Training MM Hazards-1: Hazardous Materials Procedures and Worker Training MM Hazards-2: Construction Fire Prevention Plan APM PAL-2: Worker Environmental Awareness Training	PG&E shall submit all ETP materials to CPUC for review and approval <b>no less than 30 days before construction</b> .	<b>CPUC</b> : 5/30/18	<b>CPUC</b> : 6/8/18	Complete CPUC approved the supervisor level training presentation (Tracking #WT-01.2). Copies of the final training pamphlets for workers were provided on 6/25/18.	
Revegetation, Restoration, and Monitoring Plan	MM Biology-7: Revegetation, Restoration, and Monitoring Plan	PG&E shall submit the plan to the CPUC for review and approval <b>no less than 60</b> days before construction.	<b>CPUC</b> : 3/5/18	<b>CPUC</b> : 6/13/18	Complete Tracking #P-01.2	

<sup>&</sup>lt;sup>a</sup> All project permits, and authorizations provided by other agencies, must be submitted to CPUC. CPUC reserves the right to review and comment on the accuracy and adequacy of project permits and authorizations, if necessary.

 $<sup>^{\</sup>star}$  Requirements marked with an asterisk are only applicable under specified conditions.

			Review/Co	oordination <sup>a</sup>	
Plan	Requirement Sources	Timing and Submittal Requirements	Submitted	Approved	Status
Stormwater Pollution Prevention Plan (SWPPP)	MM Hazards-1: Hazardous Materials Procedures and Worker Training MM Hydrology-1: SWPPP Development and Implementation MM Hydrology-2: SWPPP Monitoring Program	A Qualified SWPPP Developer (QSD) shall prepare a SWPPP for the project in accordance with the SWRCB General Permit (refer to Table C-1). PG&E shall submit the SWPPP to the CPUC for review and comment <b>no less than 30 days prior to construction</b> .	<b>CPUC</b> : 5/8/18	<b>CPUC</b> : 6/11/18	Complete Tracking #P-04.3
Required Prior to Specific Const	ruction Activities				
Construction Fire Prevention Plan	MM Hazards-2: Construction Fire Prevention Plan	PG&E shall submit the plan to CPUC for review and approval at least 30 days prior to construction within the Northern Segment.	<b>CPUC</b> : 4/20/18	<b>CPUC</b> : 6/14/18	Complete Tracking #P-02.3
Watercourse Avoidance and Crossing Plan	MM Biology-11: Wetland Mitigation MM Hydrology-1: SWPPP Development and Implementation MM Hydrology-4: Watercourse Avoidance and Crossing Plan	PG&E shall prepare a Seasonal Watercourse Avoidance and Crossing Plan and submit the plan to the CPUC <b>no less than 60 days prior to use or construction of surface water crossings or work within 50 feet of surface water resources</b> .	<b>CPUC</b> : 4/20/18	<b>CPUC</b> : 7/19/18	Complete Tracking #P-03.2
Required Following Specific Disc	coveries/Determinations				
*Special-status Plant Salvage and Replanting Plan	MM Biology-2: Special-status Plants	*If impacts on the special-status plant species cannot be avoided and if impacts would be substantial, as determined by the CPUC, PG&E shall prepare and implement a Special-status Plant Salvage and Replanting Plan. PG&E shall submit the plan to the CPUC for review and approval no less than 30 days prior to impacting or collecting special-status plants. If CPUC determines that the Salvage and Replanting Plan is not likely to be, then either (1) impacts on the special-status plants in questions must be avoided, or (2) a financial contribution will be made to an organization that restores/protects special-status plant populations in the project region.	*CPUC: TBD	*CPUC: TBD	<b>TBD</b> PG&E submitted special-status plant surveys on 2/6/18 and no special-statu plants were identified.
*Wetland Creation/ Enhancement Plan	MM Biology-11: Wetland Mitigation	*If wetlands wetland creation/enhancement is necessary, PG&E shall prepare and submit a plan to the CPUC, USACE and RWQCB for review and approval prior to impacting any wetlands.	*USACE: TBD *RWQCB: TBD *CPUC: TBD	*USACE: TBD *RWQCB: TBD *CPUC: TBD	TBD  To date, wetlands are not located within project areas and no impacts would occur.
*Research and Data Recovery Plan	MM Cultural-4: Data Recovery	*If CRHR-eligible, unique archaeological, or tribal cultural resource data recovery occurs, PG&E shall prepare a Research and Data Recovery Plan for each individual site where data recovery is necessary. The plans shall be submitted to the CPUC for approval prior to conducting data recovery procedures for each site.	*CPUC: TBD	*CPUC: TBD	TBD  To date, data recovery has not been proposed for any cultural site and all potentially eligible sites would be avoided. PG&E is in the process of evaluating one potentially eligible site where a proposed access road is identified in MPR #2.

## Notes:

<sup>&</sup>lt;sup>a</sup> All project Plans required by other agencies must be submitted to CPUC. CPUC reserves the right to review and comment on the accuracy and adequacy of all project Plans, if necessary.

<sup>\*</sup> Requirements marked with an asterisk are only applicable under specified conditions.

Table 3 Notifications Tracking

Table 3	Notifications fracking					
				Review/Co	oordination <sup>a</sup>	
Notification	Entities to Notify	Requirement Sources	Timing and Submittal Requirements	Submitted	Approved	Status
Required Prior to	All Construction Activities					
Post signs with dust complaint information	Public	APM AIR-1: Fugitive Dust Emissions MM Noise-1: General Construction Noise	PG&E shall install a publicly visible sign at work areas where grading/blading and helicopter activities occur near public and residential areas <b>prior to grading/blading and helicopter activities</b> .	<b>CPUC</b> : 1/24/18	<b>CPUC</b> : 1/24/18	Partially Complete The draft signs were approved by CPUC. Signs must be posted immediately prior to the initiation of work where grading/blading and helicopter activities occur near public and residential areas. The pending requirements are not applicable to NTP #2.
Required Prior to S	Specific Construction Activities					
General construction noise disturbance	All noise-sensitive receptors within 500 feet of work areas	MM Noise-1: General Construction Noise	Noise-sensitive receptors within 500 feet of work areas shall be provided written notice at least 7 days prior to beginning construction.	<b>CPUC</b> : 5/17/18	<b>CPUC</b> : 5/17/18	Complete Tracking #N-01.1; notification letters sent 5/18/18
Helicopter noise disturbance	School administrators for Mark West Elementary School and San Miguel Elementary School	MM Noise-2: Schools	<b>Prior to helicopter activities within 500 feet of schools</b> , PG&E shall coordinate with school administrators to determine the schedule for noise-sensitive periods that must be avoided during helicopter operation within 500 feet.	CPUC: Pending	CPUC: N/A	Pending The pending requirements are not applicable to NTP #2.
Helicopter noise disturbance	All noise-sensitive receptors within 500 feet of any location where helicopter activity will occur	MM Noise-3: Helicopter Activities	Noise-sensitive receptors within 500 feet from any location where helicopter activities may occur, including flight paths if applicable, shall be provided written notice at least 30 days prior to beginning helicopter activities.	<b>CPUC</b> : 5/17/18	<b>CPUC</b> : 5/17/18	Complete Tracking #N-01.1; notification letters sent 5/18/18
Construction activities within parks	Sonoma County park officials and park users for Maddux Ranch Regional Park, Shiloh Ranch Regional Park, and Foothill Regional Park	APM REC-1: Coordination with Park Management and Signage MM Recreation-2: Trail Detours and Notifications	PG&E shall post signs at park and trail entrances at least 1 week in advance of parks or trail closures.  PG&E shall coordinate with county officials regarding park and trail closures and detours at least 90 days prior to such closures.	County: Pending CPUC: Pending	County: Pending CPUC: N/A	Pending The pending requirements are not applicable to NTP #2.
Emergency access disruption	Local emergency service providers (i.e., local fire districts, law enforcement offices, hospitals, and ambulance and paramedic services)	MM Traffic-4: Emergency Access	PG&E shall notify local emergency service providers no less than 1 week before construction activities	Emergency Services: Pending CPUC: Pending	Emergency Services: N/A CPUC: N/A	Pending The pending requirements are not applicable to NTP #2.
Affected public transit routes and stops	Sonoma County Transit (SCT)	MM Traffic-5: Public Transit	PG&E shall notify SCT <b>no less than 30 days before construction in the Southern Segment</b> and identify roadway segments where bus routes and bus stops are located that may be affected during construction.	SCT: Pending CPUC: Pending	SCT: N/A CPUC: N/A	Pending The pending requirements are not applicable to NTP #2.

Table 4 Pre-construction Survey Tracking

Resource/Topic	Requirement Sources	Status
California tiger salamander	APM BIO-7: California Tiger Salamander Santa Rosa Plain Conservation Strategy (SRPCS)	Pending - Condition of Approval #8a-c Pre-construction wildlife surveys are required immediately prior to work activities in each new area.
American badger	APM BIO-8: American Badger	_
Western pond turtle	APM BIO-9: Western Pond Turtle	_
Special-status plants	MM Biology-2: Special-status Plants	Complete Surveys for special-status plants were completed in 2016 and 2017. No special-status plants were identified.
California red-legged frog (CRLF)	MM Biology-3: California Red-legged Frog	Partially Complete - Condition of Approval #8d-e
Foothill yellow-legged frog (FYLF)	MM Biology-4: Foothill Yellow-legged Frog	Suitable habitat for CRLF and FYLF was mapped within 500 feet of current work areas for the entire project (Tracking #S-03.1). Minor revisions were required to the maps included with the habitat assessment report. Additional habitat assessments would be required for any new work areas that may be proposed.  Pre-construction wildlife surveys are required immediately prior to work activities in each new area.
Nesting birds	MM Biology-5: Special-status and Protected Migratory Birds	Pending - Condition of Approval #8f  Pre-construction nesting bird surveys are required immediately prior to work activities in each new area.
Special-status and protected bats	MM Biology-6: Special-status and Protected Bats	Partially Complete - Condition of Approval #8g  PG&E completed the required bat habitat assessment for suitable roosts within 50 feet of project areas (Tracking #S-02.2). Additional habitat assessments would be required for any new work areas that may be proposed.  An acoustic emergence survey must be completed, and the results reported to CPUC, prior to impacting suitable roosts during the breeding season.
Temporarily disturbed areas	MM Biology-7: Revegetation, Restoration, and Monitoring Plan	Complete

Resource/Topic	Requirement Sources	Status
Sensitive plant communities	MM Biology-9: Sensitive Natural Plant Communities	A pre-construction vegetation memo was submitted with the request for NTP #2 as required. The memo addresses vegetation for current work areas for the entire project. Sensitive natural plant communities were identified in the memo, including Oregon oak woodland and riparian woodland. Additional vegetation mapping would be required for any new work areas that may be proposed.
Vegetation infected with Sudden Oak Death	MM Biology-10: Sudden Oak Death Procedures	Pending - Condition of Approval #8h  All work areas must be inspected for signs of infected vegetation prior to construction.
Cultural resources <sup>a</sup>	MM Cultural-3: Pre-Construction Cultural and Tribal Cultural Resource Surveys	Complete The work areas identified in NTP #2 are within the cultural survey area shown in the Final IS/MND. No resources were identified in these areas.
Geotechnical investigation	APM GS-3: Site-specific Geotechnical Investigation MM Geology-1: Geotechnical Investigation Report	Complete Tracking #R-02.1 Additional geotechnical review is required prior to any grading in landslide prone areas identified in the report.

#### Notes:

<sup>&</sup>lt;sup>a</sup> Cultural surveys were completed for all preliminary work areas identified in the IS/MND, and for a large portion of the IS/MND study area where work areas could be relocated. Cultural survey areas are shown on Figure E-1 of the Final IS/MND. Additional cultural surveys are only required if work areas or access roads are relocated to areas that were not previously surveyed, including those within the IS/MND study area.

Table 5 Pre-construction Report Tracking

Report	Preparation/Submittal Frequency	Requirement Sources <sup>a</sup>	Contents	Status
Special-status Plant Survey Report(s)	Survey report(s) submitted to CPUC no less than 30 days prior to construction	MM Biology-2: Special-status Plants	Report shall identify: the botanists' names and qualifications; a description of the survey dates, methods, and a description of the survey efforts, including a list of the species that were searched for; results of the plant inventory evaluation; suitable habitat that was encountered; maps (1: 3,000 scale) that identify final project work areas and access routes; locations of suitable habitat within the project study area; the extent of focused plant surveys that cover project areas located in suitable habitat; enumeration and description of encountered special-status plant individuals or populations; and recommendations for avoiding the plants, where feasible.	Complete Surveys for special-status plants were completed in 2016 and 2017. No special-status plants were identified.
Pre-Construction Report (general vegetation and habitat impacts)	Pre-Construction Report to the CPUC at least 30 days prior to construction	MM Biology-7: Revegetation, Restoration, and Monitoring Plan	Report shall: quantify and document anticipated impacts on vegetation resources; identify special-status plant individuals or the characteristics of populations; the types and numbers of tree and shrub individuals; restoration acreages for grassland, woodland, and forest vegetation communities; the baseline conditions for adjacent and comparable vegetation resources; maps (1: 3,000 scale) that identify the types and locations of the vegetation resources that may be impacted; the limits of the planned work areas; and project access routes.	Complete  A pre-construction vegetation memo was submitted with the request for NTP #2 as required. The memo addresses vegetation for current work areas for the entire project. Sensitive natural plant communities were identified in the memo, including Oregon oak woodland and riparian woodland. Additional vegetation mapping would be required for any new work areas that may be proposed.

Report	Preparation/Submittal Frequency	Requirement Sources <sup>a</sup>	Contents	Status
Pre-Project Trail Condition Report	Pre-Project Trail Condition Report is submitted to the CPUC no less than 30 days prior to construction	MM Recreation- 1: Trail Conditions and Repairs	Report documents the condition of designated trails located within project work areas or access routes.	Pending The pending requirements are not applicable to NTP #2.
Geotechnical Investigation Report	Geotechnical Investigation Report is submitted to the CPUC no less than 60 days prior to construction	APM GS-3: Site- specific Geotechnical Investigation MM Geology-1: Geotechnical Investigation Report	Report areas that are suspected to have unstable soils or landslide susceptibility and evaluate the potential for surface fault rupture for poles within and adjacent to potentially active fault traces and earthquake fault zones. Report shall provide site-specific recommendations for poles, work areas, and access routes where there is an elevated risk of geologic hazards.	Partially Complete - Condition of Approval #9  Tracking #R-02.1  Prior to pole replacement, PG&E shall provide written confirmation that applicable pole recommendations to address geohazards identified in the geotechnical investigation report (Kleinfelder 2017 and 2018) were incorporated into the final project designs.

# Attachment 3: CPUC Review of MPR #3



#### Part A: Request Description

### **MPR** Request

Request Number: 03

Date Requested: July 3, 2018

Proposed Duration/

Timing of Use:

June 1, 2018 to January 31, 2019; 7 days per week (no nighttime work)

Location: TAP Staging Area, Bailhache Avenue; 1 square acre

Attached Map? □ No

## Proposed Action(s)

PG&E proposes to move the TAP Staging Area (SA-5), approximately 360 feet to the northwest of its original location as shown on figures in the Final IS/MND. This staging area would be approximately 1 acre in size, compared to 1.38 acres for the previously approved staging area location. The new staging area would be adjacent to Bailhache Avenue, and therefore, access to the site would be shorter than the previously approved route. To allow safer (improved line of sight) access from Bailhache Ave the access has been moved approximately 140 feet to the north/east. This new staging area would serve the same function as the previously approved one, including storing construction materials and equipment, refueling equipment, parking vehicles and equipment, collecting construction waste prior to disposal, and construction workforce meetings. The site would not be used for helicopter landing.

#### Purpose(s)

The staging area has been relocated at the request of the neighboring parcel. The new location will be out of sight of their wedding venue.

#### Part B: Existing Conditions

**Existing Land Uses:** Private open space

**Surrounding Land Uses:** Residential, vineyard, pasture

**Sensitive Receptors** 

within 500 feet:

There are 3 receptors within 500 feet

**Environmental Resources** 

within 500 feet:

There is one (1) water feature within 500 feet that could potentially support California red-legged frog during non-breeding stages: C3 (seasonal

watercourse). Mitigation considerations are discussed below in Part E.

Has landowner approval

been granted?

□ No □ N/A

Landowner: Minaglia Partners; 1115 Bailhache Avenue, Healdsburg, CA 95448

#### Surveys

List any new survey reports under Part D, attach a copy, and describe relevant survey details under the applicable resource category listed in the Part E.

Biological Resources. Were all sites associated with the proposed action(s) surveyed for biological resources with the potential to occur in the area? If so, were survey results positive or negative? Were surveys completed during the appropriate timing and season to detect resources? If not, describe under the applicable resource category in Part E.

The proposed staging area location is within the biological survey area identified in the IS/MND. No special-status plants or animals were identified in the location; however, potentially suitable habitat may

be present. Preconstruction surveys and review of the area would be required, as specified in applicable APMs and MMs.

Cultural Resources. Were all sites associated with the proposed action(s) surveyed for cultural resources (records search and pedestrian survey)? If so, were survey results positive or negative?

The proposed staging area is within the cultural survey area identified in the IS/MND. There are no known cultural resources within or immediately adjacent to the area.

Jurisdictional Waters. Were all sites associated with the proposed action(s) surveyed for hydrologic resources? If so, were survey results positive or negative?

The proposed staging area is within the biological/hydrology survey area identified in the IS/MND. Water features were identified within 500 feet of the staging area. A seasonal watercourse avoidance and crossing plan was prepared for all areas identified in NTP #2 including the TAP Staging Area. The access road off Bailhache Avenue would cross one seasonal watercourse (C3). No other water features are located within or immediately adjacent to the staging area.

# Part C: Permits, Agency Approvals, and Environmental Protection Measures

List any new permits or agency approvals under Part D, attach a copy, and describe relevant details under the applicable resource category listed in Part E.

Have all required permits, permit amendments/authorizations, or agency approvals been issued by resource agencies with applicable jurisdiction? Describe if necessary.

No. An encroachment permit for traffic control on Bailhache Avenue will need to be obtained prior to using the new staging area.

Would the proposed action(s) conflict with permit conditions or agency approvals? Describe if necessary.

No

Would the proposed action(s) conflict with project applicant proposed measures or mitigation measures listed in Final Initial Study/Mitigated Negative Declaration (IS/MND)? Describe if necessary.

No

#### Part D: Attached Materials

List any attached materials (e.g. surveys, maps, photos, memos, agency authorizations, etc.) below. Materials should be attached to the end of this form.

Fulton-Fitch Mountain Reconductoring Project: Seasonal Watercourse Avoidance and Crossing Plan, Stantec, 2018.

Fulton-Fitch Mountain Reconductoring Project: California Red-Legged Frog and Foothill Yellow-Legged Frog Habitat Maps, Stantec, 2018.

Fulton-Fitch Mountain Reconductoring Project: Pre-Construction Vegetation Report, Stantec, 2018.

### Part E: Final IS/MND Consistency Summary

Complete the Final IS/MND Consistency Summary below and answer the consistency questions for each resource category. Include a description and justification below each resource category as necessary. The consistency questions were developed using the CEQA Checklist provided in the Final IS/MND. Refer to the Final IS/MND for the details on the project impact evaluation.

Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact on:	No Change	Potentially Significant Change	N/A
Aesthetics (e.g., damage scenic resources or vistas, degrade the existing visual character of the site and its surroundings, or create sources of light or glare)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant with Mitigation			
The proposed staging area would include the same activities as to Construction materials and construction equipment storage and limited to the duration of construction. Preparation of the propose and installation of geotextile fabric and gravel and would be visite Bailhache Avenue throughout the construction period. The propose any impacts to aesthetics beyond those addressed in the IS/MND result in a new impact or increase the severity of a previously analysis.	staging woul ed staging ar ble to the pul osed access r o. The proposo	d be temporary ea may require blic from adjace oute would not ed staging area	and mowing ent result in
Agriculture and Forestry Resources (e.g., convert Farmland to nonagricultural use, or create a conflict with existing agricultural zoning or a Williamson Act)?  Final IS/MND evaluation: Less than Significant with Mitigation	$\boxtimes$		
The new staging area location is located in the same agricultural location identified in the Final IS/MND, including land subject to a Land. The new staging area would involve the same types of imp the Final IS/MND, including temporary land disturbance during costaging area would be returned to its current land uses. The new simpact or increase the severity of a previously analyzed impact of	Williamson A acts to agric onstruction. Fo staging area	act contract and ulture as those a ollowing constru would not result	d Grazing analyzed in ction, the in a new
Air Quality (e.g. produce additional emissions, or expose sensitive receptors to additional pollutants)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant			
Relocating the staging area would not change the air quality and 1 would ensure that impacts from fugitive dust would be minimize remain less than significant. The proposed staging area would no severity of a previously analyzed impact on air quality.	ed and impac	cts to air quality	would
Biological Resources (e.g., cause an adverse effect to sensitive or special-status species, or impact riparian, wetland, or any other sensitive habitat, or conflict with local policies or ordinances protecting biological resources)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant with Mitigation			
The staging area is within the IS/MND study area and was previous. The work site is within grassland which may provide suitable habits evaluated in the IS/MND, including CRLF and FYLF in proximity to sidentified in the IS/MND would ensure all impacts on biological resignificant.	at for the san seasonal wat	ne special-statu: ercourse C3. Mi	s species tigation
Cultural and Tribal Cultural Resources (e.g., cause adverse change to a historical, archeological, or tribal cultural resource)?	$\boxtimes$		
Final IS/MND evaluation: Less than Significant with Mitigation			
The staging area location is within the IS/MND study area and wa resources. No known resources were identified during pedestrian American tribes. In the event that a previously undiscovered resources MM Cultural 1 would be implemented to avoid or treat the resources.	surveys or du urce is identif	ring outreach w ied in the stagir	vith Native ng area,

substantially greater impacts to cultural and tribal cultural resource IS/MND.	ces beyond th	nose analyzed i	n the				
Geology and Soils (e.g., cause or expose people or structures to geologic or soil hazards, including erosion or loss of topsoil)? Final IS/MND evaluation: Less than Significant with Mitigation							
Where necessary, the staging area would be bladed or graded and covered with geotextile fabric and gravel to create a stable all-weather surface for vehicles and equipment. Substantial cut-and-fill work would not occur at the staging area. The staging area would be located in a generally flat area away from steep slopes and geologic hazards identified in the Geotechnical Investigation Report (Kleinfelder 2017 and 2018). Impacts associated with geologic and soil conditions were analyzed in the IS/MND and the conditions at the staging area would be consistent with other work areas for the project. No new or substantially greater impacts would occur.							
Greenhouse Gas Emissions (e.g., generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	$\boxtimes$						
<u>Final IS/MND evaluation: Less than Significant</u>							
The proposed staging area would not result in an increase in the equipment beyond that described in the IS/MND. APM AIR-2 ad impacts from construction emissions would remain less than signif not result in a new impact or increase the severity of a previously emissions.	APM GHG-2 v icant. The pro	vould ensure th pposed staging	at any area would				
Hazards and Hazardous Materials (e.g., create or increase the exposure of people or structures to hazardous materials or wildland fires, involve the use of additional hazardous materials or equipment, or interfere with an adopted emergency plan)?	$\boxtimes$						
Final IS/MND evaluation: Less than Significant with Mitigation							
Hazardous materials, such as fuels, oils, and lubricants, would be used at the staging area. These and other materials were addressed in the IS/MND. The staging area would be located in grassland. Working in and around vegetation poses a risk of wild fires. The risk of fires during construction was previously analyzed in the IS/MND. APM HM-3, APM HM-4, MM Hazards-1, and MM Hazards-2 would ensure that impacts from hazards and hazardous materials are less than significant. The proposed staging area would not result in a new or substantially greater impact from hazards and hazardous materials than analyzed in the IS/MND.							
Hydrology and Water Quality (e.g., degrade water quality, discharge waste or sediment, deplete groundwater, alter the existing drainage pattern, create additional runoff water or polluted runoff, place structures in a 100-year flood hazard area, or expose people or structures to a significant risk involving flooding)?							
<u>Final IS/MND evaluation: Less than Significant with Mitigation</u>							
The proposed staging area would involve an access road off of Bailhache Avenue that would cross a ditch (C3, listed in the Watercourse Crossing Plan as Crossing "WC-9"). The ditch will be crossed using a steel plate to span the crossing. Implementation of MM Hydrology-1, MM Hydrology-2, and the approved Stormwater Pollution and Prevention Plan would prevent any impacts to this water feature. The proposed staging area would not result in a new impact or increase the severity of a previously analyzed impact on hydrology and water quality.							
Land Use (e.g., conflict with a land use plan, policy, or regulation of an agency with jurisdiction over the project, or conflict with a habitat conservation plan)?  Final IS/MND evaluation: Less than Significant with Mitigation	$\boxtimes$						

The proposed staging area is located on private land owned by the Minaglia Partners. Use of the staging

area has been approved by the property manager. The temporary staging area would not affect land use or zoning designations. Noise (e.g., expose sensitive receptors to additional noise or vibration)? XFinal IS/MND evaluation: Less than Significant with Mitigation Activities associated with staging area use are consistent with those discussed in the IS/MND. Noise impacts on receptors within 500 feet were analyzed in the IS/MND for the adjacent staging area location, and with the implementation of MM Noise-1, the proposed staging area would not result in a new impact or increase the severity of a previously analyzed impact on noise. Helicopters would not operate at the staging area. Paleontological Resources (e.g., cause adverse change to a paleontological resource or site or unique geologic feature)?  $\boxtimes$ Final IS/MND evaluation: Less than Significant with Mitigation The staging area would be located in an area of high paleontological sensitivity. Ground-disturbing activities at the site, such as surface grading, could potentially damage paleontological resources in the same manner as other work areas for the project. The risk of damage to paleontological resources from these activities was previously analyzed in the IS/MND. Potential impacts on paleontological resources would be reduced to less than significant through implementation of APM PAL-1, APM PAL-2, and APM Population and Housing (e.g., induce substantial population growth in an area, or displace substantial numbers of people Xor housing)? Final IS/MND evaluation: Less than Significant The staging area would have no effect on population and housing. Recreation (e.g., increases the use of, or cause adverse effects to, parks or other recreational facilities)? XFinal IS/MND evaluation: Less than Significant with Mitigation The staging area is located on private land and would not result in a new impact or increase the severity of a previously analyzed impact on recreation. Transportation and Traffic (e.g., increase traffic congestion or degrade performance of the circulation system, taking into account all modes of transportation, or increase hazards due  $\boxtimes$ to a design feature)? Final IS/MND evaluation: Less than Significant with Mitigation Relocating the staging area 360 feet would not change the impact analysis on transportation and traffic presented in the IS/MND. The access road to the staging area was also relocated to provide better line of sight for traffic on Bailhache Avenue. Impacts on transportation and traffic will remain less than significant with implementation of MM Traffic-1. Utilities and Public Services (e.g., result in construction of new, or expansion of existing, water facilities, stormwater drainage facilities, require additional water entitlements, or creation of  $\boxtimes$ new solid waste disposal needs)? Final IS/MND evaluation: Less than Significant with Mitigation Relocating the staging area 360 feet would not change the impact analysis on utilities and public services presented in the IS/MND. There would be no impact.