

**EAST CONTRA COSTA COUNTY
HABITAT CONSERVANCY**

DATE: February 20, 2014
TO: Governing Board
FROM: Conservancy Staff
SUBJECT: Agreement Amendment with Pacific Gas & Electric Company to Extend Take Coverage

RECOMMENDATION

Consider the following actions related to extending take coverage to Pacific Gas and Electric Company for the Pacific Gas and Electric Company’s Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project (“PG&E Reconductoring Project”):

- A. **AUTHORIZE** staff to file a Notice of Determination for this Board action with the County Clerk.
- B. **AUTHORIZE** Executive Director to execute a First Amendment to the Participating Special Entity Agreement with Pacific Gas and Electric Company for the Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project, as further described in Addendum 1.0 (the Addendum to the Planning Survey Report), provided the Wildlife Agencies concur with the Amendment.

DISCUSSION

ITEM (A). California Environmental Quality Act (CEQA): The Board’s decision to authorize the Executive Director to execute a Frist Amendment to the Participating Special Entity Agreement and to extend take authorization under the First Amendment to Pacific Gas and Electric Company (“PG&E”), for the Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project (“PG&E Reconductoring Project” or “Project”) as described in Exhibit 1 and Addendum 1.0, is a discretionary action subject to CEQA. For the Project, the State Water Resources Control Board (“Water Board”) is the CEQA lead agency. The Water Board prepared the Initial Study/Mitigated Negative Declaration for the Pittsburg-Tesla 230 kV Transmission

CONTINUED ON ATTACHMENT: Yes
ACTION OF BOARD ON: February 20, 2014 APPROVED AS RECOMMENDED: _____
OTHER _____

VOTE OF BOARD MEMBERS

___ UNANIMOUS
AYES: _____
NOES: _____
ABSENT: _____
ABSTAIN: _____

I HEARBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF AN ACTION TAKEN AND ENTERED ON THE MEETING RECORD OF THE CONSERVANCY GOVERNING BOARD ON THE DATE SHOWN.

ATTESTED _____
Catherine Kutsuris, SECRETARY OF THE EAST CONTRA COSTA COUNTY HABITAT CONSERVANCY

BY: _____, DEPUTY

Line Reconductoring Project (“IS/MND”) (*state clearinghouse number 2011102034*), dated October 17, 2012 and the Conservancy as a CEQA responsible agency for purposes of the Project relied on the IS/MND prepared by the Water Board for purposes of fulfilling its responsibilities under CEQA. After the January 23, 2013 approval by the Board, Staff filed a Notice of Determination with the County Clerk.

The proposed modifications to the project description were reviewed by the State Water Resources Control Board and they determined that the Mitigated Negative Declaration for the Project, as documented in the Notice of Determination posted at the State Clearinghouse on November 9, 2012, is still current and adequate (reference Attachment A). The Conservancy concurs with the determination made by the State Water Resources Control Board and finds that the environmental impacts from the PG&E Project, as revised in the First Amendment, are fully disclosed and analyzed in the IS/MND, and that for each significant impact identified in the IS/MND, PG&E has proposed measures included in the project description and included mitigation measures to reduce the impacts to a less than significant level. Staff will file a Notice of Determination with the County Clerk to reflect this action.

ITEM (B). At the January 23, 2013 meeting the Board authorized staff to execute a Participating Special Entity Agreement (“PSE Agreement”) with Pacific Gas and Electric Company (“PG&E”), for the Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project (“PG&E Reconductoring Project” or “Project”). In order to maintain service reliability and meet increasing electric load demands in the City of Pittsburg and surrounding areas in Contra Costa and Alameda Counties, PG&E is conducting upgrades to the existing 230 kilovolt (kV) transmission line between the Pittsburg Substation and the Tesla Substation by replacing approximately 31 miles (24 miles in Contra Costa County) of the 230 kilovolt (kV) transmission line between Pittsburg and Tesla Substations on 147 existing towers (111 in Contra Costa County), as further described in Exhibit 1 (the Planning Survey Report). On January 25, 2013 the PSE Agreement was executed. PG&E has paid all the mitigation and contribution to recovery fees as required in the PSE Agreement. The Conservancy issued the Certificate of Inclusion authorizing activities to commence on January 14, 2014.

PG&E is requesting an amendment to the PSE Agreement and associated Exhibit 1 in order to address changes to the project description resulting from the advancement of the detailed design for the Pittsburg-Tesla 230 kV Transmission Line. The revised plans typically involve minor changes in the configuration and location of pull sites, staging areas/landing zones, and access routes, as more specifically described below. These changes result in an overall reduction of impact acreage covered under the HCP/NCCP permit.

The proposed modifications to the project description are as follows:

- Enlargement and reconfiguration of a crossing guard structure (guard structure);
- Removal, addition, and rescaling of previously identified transmission line conductor pull sites (pull sites);

- Removal, addition, and rescaling of previously identified staging areas and landing zones; and
- Removal, addition, and re-routing of temporary access routes to the areas described above.

The proposed project site description and impact areas would be the same as the approved Planning Survey Report (“PSR”) with the exception of the proposed modifications detailed in Addendum 1.0 to the PSR. A complete description of the proposed changes and the resulting impacts associated with the original PSR and Certificate of Inclusion are described in Addendum 1.0.

In order process modifications to the project description and receive incidental permit coverage under the HCP/NCCP by way of the First Amendment, the Conservancy and PG&E must execute an Amendment to the PSE Agreement obligating compliance with the applicable terms and conditions of the Implementing Agreement, the HCP/NCCP, and the state and federal permits. The Conservancy staff has prepared and PG&E agrees with the terms of the proposed First Amendment to the PSE Agreement for the Project (attached).

Attached, and to be incorporated as Exhibit 1 to the PSE Agreement, is Addendum 1.0 to the Planning Survey Report prepared by Garcia and Associates (the biological consulting firm hired by PG&E to complete the Addendum) in consultation with Conservancy staff. Addendum 1.0 provides a detailed analysis of the impact acreage that will change per each segment of the project along the transmission line. Because the Project results in both acreage reductions and increases associated with various segments of the work along the transmission line, Addendum 1.0 contains a series of impact tables outlining the specific changes which ultimately link to the tables in the Executive Summary. All the tables and impact changes per segment have been reviewed and approved by Staff.

The amendment did require PG&E to conduct new planning-level surveys where new impacts are located and for areas that were previously not surveyed. The modifications in the project area do not introduce impacts to special status species that haven’t already been analyzed in the Mitigated Negative Declaration (MND) or the Planning Survey Report (PSR). All impacts take place outside of sensitive habitats as they typically occur in ruderal, pasture, or on urban land cover types. There are a few new areas of annual grassland that will be affected however they are typically located adjacent or near to areas of previous study.

The pre-construction surveys and avoidance/minimization/construction monitoring measure requirements did not change as a result of the First Amendment. The applicant provided updated land cover and impact maps that depict the project as originally proposed verses the amendment in order to clearly depict how the project area is changing by way of the First Amendment (See Appendix A & B of the Addendum 1.0).

Key provisions of the Agreement:

- The First Amendment results in changes to the impact acres to be covered under the HCP/NCCP permit, these changes are reflected in the table below (see Addendum 1.0, Executive Summary for all tables):

Summary of Acreages Involved in the Proposed Project by Project Activity

Project Activity	Permanent Disturbance Acreage	Temporary Disturbance Acreage	Urban/Exempt Acreage	Total (all Fee Zone II)
Pull Sites	0	5.292	1.332	6.624
Staging Areas/ Landing Zones	0	2.578	7.511	10.089
Access Routes	0	1.647	0.638	2.285
Guard Structures	0	1.223	0	1.223
Current Total	0	10.740	9.481	20.221

- The Agreement provides that the Pacific Gas and Electric Company will reimburse the Conservancy for staff costs associated with processing the request for an amendment, up to a maximum reimbursement of \$5,000 (increasing the cap on administrative fees from \$25,000 to \$30,000).
- To date Pacific Gas and Electric Company has paid the Conservancy \$282,045.36, which amount included all HCP/NCCP development and wetland mitigation fees necessary for the Project and the Contribution to Recovery, less a credit for PG&E for overpayment of fees for the Contra Costa-Las Positas 230-kV Transmission Line Reconductoring Project in the amount of \$170,233.16. Since the project results in a net decrease in impact acreage, PG&E does not owe additional mitigation fees per the First Amendment.
- Staff does not propose a Contribution to Recovery for the First Amendment since the impacts acreage has been reduced and there are no additional mitigation fees.

- The table below summarizes the HCP/NCCP fee summary for the Project, including Addendum 1.0:

	Development Fee	Wetland Fee	Contribution to Recovery	PG&E Credit from 2009	Total
Original PSR 2013	\$409,401.59	\$1,765.25	\$41,111.68	-\$170,233.16	\$282,045.36
Addendum 1.0	\$216,432.48	-	\$41,111.68 (from Original Project)	-\$170,233.16	\$87,311.00
Difference, which amount will be reflected in an increased CTR					\$194,734.36

Next steps: If the Conservancy Governing Board authorizes staff to execute an Amendment to the PSE Agreement, key next steps in granting take coverage would be as follows:

- Pacific Gas and Electric Company signs the First Amendment.
- Staff will ask the Wildlife agencies to review the First Amendment and Addendum 1.0 and to concur that the First Amendment and Addendum 1.0 includes all applicable requirements of the HCP/NCCP with regard to the Project and imposes a duty on Pacific Gas and Electric Company, to implement them. If, and only if, the Wildlife Agencies concur with the Project as described in the First Amendment and Addendum 1.0, the Executive Director of the Conservancy will sign the First Amendment. Note: Participating Special Entity Agreements and any amendments thereof, unlike the granting of take authorization by a participating City or County, require Wildlife Agency concurrence.
- Pacific Gas and Electric Company pay’s all administrative costs, as outlined in the First Amendment.
- The Conservancy issues Pacific Gas and Electric Company an updated Certificate of Inclusion consistent with the First Amendment. Take authorization would then be in effect, subject to the terms of the PSE Agreement, First Amendment, and Certificate of Inclusion.
- Pacific Gas and Electric Company conducts pre-construction surveys to determine which species-specific avoidance and minimization measures are required during

construction, as required during the phases of construction along the transmission line corridor.

- Pacific Gas and Electric Company develops and submits a construction monitoring plan to the Conservancy in accordance to Section 6.3.3 of the HCP/NCCP, as required during the phases of construction along the transmission line corridor.
- Pacific Gas and Electric Company implements the Project subject to the terms of the First Amendment.

Attachments:

- **Attachment A:**
 - **Letter from Mr. Cliff Harvey with State Water Resources Control Board**
- **Attachment B:**
 - **PSE Agreement First Amendment, including:**
 - Main body of amendment
 - Addendum 1.0
 - Main body of addendum
 - Fee Calculator (Exhibit 1)
 - Updated Impact and Land Cover Map and Project Comparison Maps
 - Photographs of selected work areas

Krystal Hinojosa

From: Harvey, Clifford@Waterboards <Clifford.Harvey@waterboards.ca.gov>
Sent: Thursday, February 13, 2014 8:50 AM
To: Krystal Hinojosa
Cc: David L Thomas (DLTg@pge.com); Samantha Hillaire (shillaire@garciaandassociates.com)
Subject: PG&E Pittsburg Tesla Reconductoring Project CEQA

The State Water Resources Control Board, acting as lead agency for CEQA compliance for the PG&E Pittsburg Tesla Reconductoring Project, has reviewed the several minor changes proposed by the applicant for the Project. We find that the Mitigated Negative Declaration for the Project, as documented in the Notice of Determination posted at the State Clearinghouse on November 9, 2012, is still current and adequate.

The numerous minor changes to the Project since issuance of the Notice of Determination have not entailed any new, significantly larger, or substantially different impacts or mitigation measures. Many of the changes have reduced impacts. These changes have been documented in the project's administrative record. These changes have not warranted any new re-publication and noticing. No new negative declaration was needed.

Any impacts that may occur as a result of the proposed project modifications are adequately mitigated to a level that is less than significant through exercise of existing mitigation measures as documented in the Project Mitigation Monitoring and Reporting Plan.

Please let me know if any further documentation is needed to address this concern.

cnh

Cliff Harvey
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FIRST AMENDMENT

**TO THE PARTICIPATING SPECIAL ENTITY AGREEMENT
OF THE EAST CONTRA COSTA COUNTY HABITAT CONSERVATION PLAN/
NATURAL COMMUNITY CONSERVATION PLAN AND GRANTING TAKE
AUTHORIZATION**

Between

the EAST CONTRA COSTA COUNTY HABITAT CONSERVANCY, the Implementing Entity, and PACIFIC GAS AND ELECTRIC COMPANY, a Participating Species Entity

RECITALS

The Participating Special Entity Agreement between the East Contra Costa County Habitat Conservancy (“Conservancy”) and Pacific Gas and Electric Company (“Participating Special Entity” or “PSE”) was entered into February 25, 2013 (the “PSE Agreement”).

The PSE Agreement provides, in Section 10.4, that it may be amended with the written consent of both parties.

The Conservancy and PSE wish to amend the terms of the PSE Agreement by way of this First Amendment (the “First Amendment”).

AMENDMENT

A. The Conservancy and the PSE agree to amend the PSE Agreement as follows:

1. The attached Pacific Gas and Electric Company Addendum 1.0 is added to and incorporated within Exhibit 1.

2. Section 2.7 of the Agreement is amended as follows:

PSE is responsible for the Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project and seeks extension of the Conservancy’s permit coverage for the replacement of approximately 31 miles (24 miles in Contra Costa County) of kilovolt (kV) transmission line between Pittsburg and Telsa Substations on 147 existing towers (111 in Contra Costa County), as further described in Exhibit 1 [and Addendum 1.0](#). Coverage through the Conservancy’s

permit will only be extended to Pacific Gas and Electric Company for work being conducted in Contra Costa County and within the Conservancy's Permit Area.

3. Section 2.8 of the PSE Agreement is amended as follows:

The Conservancy has concluded, based on the terms of this Agreement and the application submitted by PSE (the "Application"), that PSE has provided adequate assurances that it will comply with all applicable terms and conditions of the IA, the HCP/NCCP, and the Permits. The Application is attached hereto as Exhibit 1 [and Addendum 1.0](#) and is hereby incorporated into this Agreement by reference.

4. Section 3.1 of the PSE Agreement is amended as follows:

"Application" means the application submitted by the PSE in accordance with Chapter 8.4 of the HCP/NCCP, and which is attached hereto as Exhibit 1 [and Addendum 1.0](#). The Application contains a cover sheet, the results of required planning surveys and the avoidance, minimization and mitigation measures that will be a condition of the PSE using Conservancy's Permits.

5. Section 5.5 is amended as follows:

As set forth in the Application, PSE agrees to pay the Conservancy a one-time payment of \$282,045.36, which amount includes all HCP/NCCP mitigation fees necessary for the Project, minus an existing credit owed PG&E. The payment also includes an amount sufficient to implement additional actions that will contribute to the recovery of endangered and threatened species ("Contribution to Recovery"). The overall payment amount is the sum of the following:

Development Fee: \$~~216,432.48~~ ~~409,401.59~~
Wetland Mitigation Fee: ~~None~~ ~~\$1,765.25~~
Contribution to Recovery: \$~~235,846.04~~ ~~41,111.68~~
Credit Owed PG&E: (\$170,233.16)

The payment must be paid in full before any ground-disturbance associated with the Project [and Addendum 1.0 are implemented](#) ~~occurs~~. Notwithstanding the above, the Parties acknowledge that the Conservancy adjusts its fee schedule annually on March 15 of each year in accordance with the fee adjustment provisions of Chapter 9.3.1 of the HCP/NCCP. If the PSE pays before March 15, 2013 and construction of the Project commences before March 15, 2013, the amount due will be as stated above. If PSE pays on or after March 15, 2013 or construction of the Project does not commence before March 15, 2013, the amount due will be subject to annual fee adjustments for all fees, and subject to annual adjustments of the Contribution to Recovery based on the formula set forth in Chapter 9.3.1 for the HCP/NCCP wetland mitigation fee. Based on these adjustments, if PSE pays before March 15 of any year, but construction does not

adjustments, if PSE pays before March 15 of any year, but construction does not commence before March 15 of that year, PSE will either be required to submit an additional payment for any increases or be entitled to a refund without interest for any decreases.

6. Section 7.6 is amended as follows:

PSE shall compensate the Conservancy for its direct costs associated with this Agreement, including but not limited to, staff, consultant and legal costs incurred as a result of the review of the Application, drafting and negotiating this Agreement, monitoring and enforcement of this Agreement, and meetings and communications with PSE (collectively, Conservancy's "Administrative Costs"). Conservancy's Administrative Costs shall not exceed \$~~25,000~~ 30,000 in the aggregate. Conservancy shall provide PSE with invoices detailing its Administrative Costs monthly or quarterly, at Conservancy's discretion. PSE shall remit payment of each invoice within thirty (30) days of receiving it.

This provision is not intended to, and shall not be construed to, limit PSE's duty to indemnify the Conservancy as provided in Section 7.7 of this Agreement.

- B. This First Amendment may be executed in counterparts.
- C. All other terms and conditions of the PSE Agreement shall remain as originally agreed.
- D. The Conservancy shall issue a Certificate of Inclusion pursuant to Section 6.1 of the PSE Agreement that is revised to incorporate reference to this First Amendment.
- E. This First Amendment shall take effect on the date after both the Conservancy and PSE have executed this First Amendment.

IN WITNESS WHEREOF, the Conservancy and PSE hereto execute this First Amendment.

EAST CONTRA COSTA COUNTY HABITAT CONSERVANCY

By: _____
CATHERINE KUTSURIS, Secretary

DATE: _____

By: _____
JOHN KOPCHIK, Executive Director

DATE: _____

PACIFIC GAS AND ELECTRIC COMPANY

By: _____
STEVEN FERRARA
Director, Environmental Management

DATE: _____

**PARTICIPATING SPECIAL ENTITY
PLANNING SURVEY REPORT
ADDENDUM 1.0**

**TO COMPLY WITH AND RECEIVE PERMIT COVERAGE UNDER THE EAST
CONTRA COSTA COUNTY HABITAT CONSERVATION PLAN AND
NATURAL COMMUNITY CONSERVATION PLAN**

FOR THE

**PACIFIC GAS & ELECTRIC COMPANY
PITTSBURG-TESLA 230 kV TRANSMISSION LINE
RECONDUCTORING PROJECT**

**SUBMITTED TO
EAST CONTRA COSTA COUNTY HABITAT CONSERVANCY**

February 12, 2014

SUBMITTED BY:

Pacific Gas and Electric Company
245 Market Street
Room 1054d, Mail Code N10a
San Francisco, California 94105

Contact: David Thomas
(415) 973-5885
dltg@pge.com

PREPARED BY:

Garcia and Associates
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ABBREVIATIONS

CDFW	California Department of Fish and Wildlife
CNDDDB	California Natural Diversity Database
Conservancy	East Contra Costa County Habitat Conservancy
GANDA	Garcia and Associates
guard structure	crossing guard structure
HCP	Habitat Conservation Plan
kV	kilovolt
LZ	staging area/landing zone
NCCP	Natural Community Conservation Plan
PG&E	Pacific Gas and Electric Company
Pittsburg-Tesla line	Pittsburg-Tesla 230 kV Transmission Line
project	Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project
P or pull site	transmission line conductor pull site
PSE	Participating Special Entity
PSR	Planning Survey Report
SR	State Route

EXECUTIVE SUMMARY

The purpose of this filing is to request that the East Contra Costa County Habitat Conservancy (Conservancy) approve amending the existing Planning Survey Report (PSR) for the portions of Pacific Gas and Electric Company's (PG&E's) Pittsburg-Tesla 230 kilovolt (kV) Reconductoring Project (project; PG&E 2013) within the Planning Area of the East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan (HCP/NCCP; East Contra Costa County Habitat Conservation Association 2006). The proposed modifications to the project description are as follows:

- Enlargement and reconfiguration of a crossing guard structure (guard structure);
- Removal, addition, and rescaling of previously identified transmission line conductor pull sites (pull sites);
- Removal, addition, and rescaling of previously identified staging areas and landing zones; and
- Removal, addition, and re-routing of temporary access routes to the areas described above.

Appendix A shows the locations of the new features. Tables revised as a result of the proposed modifications have been included in this addendum, and a date has been added to identify that changes have been made from the original PSR (PG&E 2013). The acreage totals under the original and current project are summarized in Summary Tables 1 and 2, respectively. The changes in acreage are summarized in Summary Table 3. Under proposed modifications, all project impacts remain temporary; the proposed modifications will not cause any permanent disturbance. As with the original project description, under the proposed modifications, all disturbance acreage requiring mitigation is located in Fee Zone II.

Acreage Increases: Changes in one guard structure will cause a small increase in temporary disturbance acreage (0.143 acre). Reconfiguration and relocation of staging areas/landing zones will cause an increase in project acreage (4.524 acres); however, because most of this acreage is located on urban/developed surfaces, the net change of non-exempt temporary disturbance acreage requiring mitigation actually decreases (by -1.201 acres).

Acreage Decreases: Reconfiguration and relocation of pull sites results in a decrease in project acreage (-7.595 acres). Similarly, changes in access routes also result in a decrease in project acreage (-0.369 acre). This change in access routes also removes all impacts to seasonal wetlands (-0.007 acre).

Net Decrease: Proposed modifications result in a reduction of both total project acreage, and in temporary disturbance area requiring mitigation (-8.600 acres).

Summary Table 1. Summary of Acreages Involved in the Proposed Project by Project Activity, Original Project 2013

Project Activity	Permanent Disturbance Acreage	Temporary Disturbance Acreage	Urban/Exempt Acreage	Total (all Fee Zone II)
Pull Sites	0	12.465	1.754	14.219
Staging Areas/ Landing Zones	0	3.779	1.786	5.565
Access Routes	0	2.016	0.638	2.654
Guard Structures	0	1.080	0	1.080
Previous Total	0	19.340	4.178	23.518

Summary Table 2. Summary of Acreages Involved in the Proposed Project by Project Activity, Addendum 1.0 in 2014

Project Activity	Permanent Disturbance Acreage	Temporary Disturbance Acreage	Urban/Exempt Acreage	Total (all Fee Zone II)
Pull Sites	0	5.292	1.332	6.624
Staging Areas/ Landing Zones	0	2.578	7.511	10.089
Access Routes	0	1.647	0.638	2.285
Guard Structures	0	1.223	0	1.223
Current Total	0	10.740	9.481	20.221

Summary Table 3. Summary of Acreage Change from Project Modifications, Addendum 1.0 in 2014

Project Activity	Permanent Disturbance Acreage	Temporary Disturbance Acreage	Urban/Exempt Acreage	Total
Pull Sites	0	-7.173	-0.422	-7.595
Staging Areas/ Landing Zones	0	-1.201	5.725	4.524
Access Routes	0	-0.369	0	-0.369
Guard Structures	0	0.143	0	0.143
Total Net Change	0	-8.600	5.303	-0.643

The resulting mitigation requirement would decrease the temporary impact fee to approximately \$216,432.48. An overview of the fees are provided in Summary Table 4.

Summary Table 4. Summary of Acreage Change from Project Modifications, Addendum 1.0 in 2014

	Development Fee	Wetland Fee	Contribution to Recovery	PG&E Credit from 2009	Total
Original PSR 2013	\$409,401.59	\$1,765.25	\$41,111.68	-\$170,233.16	\$282,045.36
Addendum 1.0	\$216,432.48	-	\$41,111.68 (from Original Project)	-\$170,233.16	\$87,311.00
Difference in Fees from Original Project to First Amendment					\$194,734.36

PROPOSED MODIFICATIONS

1.1 Background

As previously described in the original Planning Survey Report (PSR, PG&E 2013) Pacific Gas and Electric Company (PG&E) proposes to re-conductor (replace existing conductors with new conductors) the existing Pittsburg-Tesla 230 kilovolt (kV) Transmission Line (Pittsburg-Tesla line) between Pittsburg Substation, in the City of Pittsburg, and Tesla Substation, in northern Alameda County. PG&E received permit coverage as a Participating Special Entity (PSE) under the East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan (HCP/NCCP) on February 25, 2013.

PG&E owns and operates the existing line, which is located in the City of Pittsburg and unincorporated portions of Contra Costa and Alameda counties, California, and runs a distance of approximately 31 miles (24 miles in Contra Costa County). The Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project (project) consists of raising (adding height to the top of) 43 of 147 existing steel lattice structures (35 of 111 in Contra Costa County), and replacing conductor (wire) along the entire 31-mile section. The project is engineered and will be constructed pursuant to applicable engineering guidelines and standards (e.g., California Public Utilities Commission General Order Number 95).

The Pittsburg-Tesla line is a critical supply line for Contra Costa and Alameda counties. The line will accommodate the current load demand in the East Bay region once PG&E completes the proposed line and tower facility upgrades.

PG&E's electric transmission system serving the City of Pittsburg and eastern Contra Costa and Alameda communities has been strained by recent population growth. PG&E predicts that it will not be able to sustain reliable electric service in the area if the capacity improvements proposed by the project are not made to the system. The purpose of the project is to increase electric capacity to the existing transmission line and provide safe and reliable service to PG&E customers.

The original PSR describes approximately 23.518 acres of temporary impacts in the East Contra Costa County HCP Planning Area, 19.340 acres of which are located in non-exempt areas. These impacts are the result of acreage totals for construction activities at project transmission line conductor pull sites (pull sites), staging areas/landing zones, access routes, and crossing guard structures (guard structures).

The purpose of this filing (PSR Addendum) is to request East Contra Costa County Habitat Conservancy (Conservancy) approval to amend the PSR to address the proposed changes to the project description. The need for the proposed changes was not known to PG&E at the time of the issuance of the PSE Certificate of Inclusion. These changes result from minor refinements and

adjustments to the construction plan being finalized by PG&E. Plans typically involve minor changes in configuration and location of pull sites, staging areas/landing zones, and access routes; these changes typically result in reduction of impact acreage, and/or relocation of activities into areas of existing or previous ground disturbance. Therefore, the changes proposed in this PSR Addendum result in an overall reduction of impacted acreage in the HCP planning area.

The proposed project site description and impact areas would be the same as the approved PSR with the exception of the proposed modifications detailed herein. A complete description of the proposed changes and the resulting impacts to the original PSR and Certificate of Inclusion are described in the following sections.

1.2 Overview of Modifications

PG&E is amending the PSR to address design changes identified as the project engineering design has been further refined. Proposed design changes to the Pittsburg-Tesla project description include the following:

- Enlargement and reconfiguration of a guard structure;
- Removal, addition, and rescaling of previously identified pull sites;
- Removal, addition, and rescaling of previously identified staging areas/landing zones; and
- Removal, addition, and re-routing of temporary access routes to the areas described above.

Figures revised as part of the proposed changes are included in this addendum, and a revision number (Revision 1) has been added to identify that changes have been made. Figures in Appendix A were updated to Revision 1, and the date was included to reflect the changes. Appendix B provides a comparison between the work areas defined in the original 2013 PSR, and those in this amendment.

1.3 Proposed Project Description Modifications

The following sections describe the proposed project description changes under this PSR Addendum.

1.3.1 Guard Structure Modifications

Proposed modifications include the change in size and shape of one guard structure. The original PSR identified 24 guard structures in the HCP/NCCP planning area, totaling 1.080 acres of temporary disturbance in non-exempt areas. One of these structures will be enlarged and reconfigured, with changes to the design summarized in Table 1.3-1.

Table 1.3-1. Changes to Project Guard Structures from the Original PSR

Guard Structure	Change	Change in Temporary Disturbance (acres) 2014	Depicted on Map in Appendices A and B
HW06	Enlargement of guard structure area, and ground disturbance at adjacent Tower 008.	0.143	Map 2
TOTAL CHANGE FROM 2013		0.143	

Guard Structure HW06 was originally identified as a standard-sized guard structure. However, given its proximity to both State Route (SR) 4, and Tower 008, this temporary structure is being enlarged and modifications are taking place at Tower 008 in order to ensure the safety of the public on SR 4. This change will increase the total temporary impact area mitigation requirement from 1.080 acres to 1.223 acres. The guard structures will remain in land cover categorized as “annual grassland,” “purple needlegrass grassland,” and “ruderal,” and will remain within Development Fee Zone II (see Table 1.3-2).

Table 1.3-2. Temporary Guard Structure Impacts, by Land Cover Type

Land Cover Type in HCP/NCCP Area	Total Area 2014 (Acres)	Mitigation Acres Required 2014
Annual Grassland	0.462	0.462
Purple Needlegrass Grassland	0.045	0.045
Ruderal	0.716	0.761
Total Fee Zone II 2014	1.223	1.223
Total Guard Structure Acres 2014	1.223	1.223
Previous Total 2013	1.080	1.080
Net Increase	0.143	0.143

1.3.2 Pull Sites

Proposed modifications include changes to the size and locations of pull sites. In the original PSR, eight pull sites were identified in the HCP planning area, totaling 14.219 acres of disturbance; 12.465 acres were located within non-exempt land covers, and 1.754 acres were located within exempt areas. Changes to pull site design are summarized in Table 1.3-3 below.

Table 1.3-3. Changes to Project Pull Sites from the Original PSR

Pull Site	Change	Change in Temporary Disturbance (acres) 2014	Depicted on Map in Appendices A and B
P-2	Relocate P-2	-1.819*	Map 3
P-3	Relocate P-3	-0.451	Map 5
P-4	Reduce size of P-4	-1.220	Map 10
P-5	Remove P-5	-2.664	Map 12
P-6	Relocate P-6	-0.939	Map 15
P-8	Relocate P-8	-0.502	Map 21
TOTAL CHANGE FROM 2013		-7.595	

* Includes removal of 0.016 acre of fenced/flagged area for rare plant protection at the original P-2, that is not needed at the relocated P-2.

Pull Site 2 (P-2) was originally two separate areas located in sloped annual grassland land cover on a PG&E fee-title parcel. In order to avoid grading, P-2 has been relocated to a flat area one tower span north. The relocated P-2 surrounds the originally proposed DL09 guard structure. This change moves P-2 into ruderal land cover adjacent to the Delta View Golf Course, reduces the temporary impact area, and moves the site away from a rare plant occurrence (round-leaved filaree [*California macrophylla*]). The original P-2 was located within 75 feet of an ephemeral stream; the relocated P-2 is located 90 feet from an intermittent stream.

Pull Site 3 (P-3) was originally located on a steep narrow paved road and adjacent annual grassland shoulder between Towers 024 and 025. Subsequent engineering analysis of this area indicates that the underlying soils may not be suitable to support the weight of the pulling equipment. Therefore, P-3 was relocated north to a flat area with heavily grazed annual grassland land cover between Towers 021 and 022. Relocated P-3 will have a slightly larger temporary impact area, and will be located approximately 50 feet away from an ephemeral channel.

Pull Site 4 (P-4) was originally comprised of two separate areas located in annual grassland land cover. Similarly, Pull Site 5 (P-5) was originally comprised of two separate areas located in grazed pasture. Construction analysis since the original PSR indicates that the project can be constructed using only one of the separate areas at P-4. Therefore, P-4 has been reduced in size, and P-5 has been removed from the project, resulting in a decrease in temporary impact disturbance.

Pull Site 6 (P-6) has been reconfigured within the annual grassland near towers 68A and 68B, resulting in a decrease in temporary impact disturbance. However, Pull Site 8 (P-8) has been reconfigured and moved mid-span, completely into annual grassland, resulting in a small increase in temporary impact disturbance.

The proposed modifications would result in an overall reduction in the total temporary disturbance acreage resulting from pull sites. The original pull sites were located in “urban,” “annual Grassland,” and “pasture” land cover types; with the proposed modifications, pull site acreage would instead be located in “urban,” “annual grassland,” and “ruderal.” All pull site acreage would remain in Development Fee Zone II. Design changes are summarized in Table 1.3-4.

Table 1.3-4. Temporary Pull Site Impacts, by Land Cover Type

Land Cover Type in HCP/NCCP Area	Total Area (acres) 2014	Mitigation Acres Required 2014
Annual Grassland	4.431	4.431
Pasture	0	0
Ruderal	0.861	0.861
Urban (Exempt)	1.332	0
Total Fee Zone II 2014	6.624	5.292
Total Pull Site Acres 2014	6.624 (5.292 non-exempt, 1.332 exempt)	5.292
Previous Total 2013	14.219 (12.465 non-exempt, 1.754 exempt)	12.465
Net Decrease	-7.595	-7.173

1.3.3 Project Staging and Landing Zones

Proposed modifications also include changes to the size and locations of areas used for helicopter landing zones and staging areas (LZs). The original PSR identified a total of 5.565 acres of LZs in the HCP/NCCP planning area: 3.779 acres in non-exempt areas and 1.786 acres in exempt areas. Changes to LZ design are summarized in Table 1.3-5.

LZ-1 is located on a developed surface (exempt area) in a substation. Under the proposed modifications, LZ-1 will be enlarged on the same developed surface. This will result in increased project acreage, but will not increase mitigation acreage.

LZ-2 was originally located on sloped annual grassland land cover within a PG&E fee-title parcel. Similarly, LZ-3 was located in annual grassland land cover at the corner of Nortonville Road and Kirker Pass Road. Both LZ-2 and LZ-3 have been moved to existing graveled/developed areas. Because these LZs have been moved to urban land cover (exempt), the required mitigation acreage will

decrease. Both LZ-2 and LZ-3 are located approximately 30 feet from ephemeral streams.

LZ-5 was originally located within grazed pasture land cover adjacent Chadbourne Road. The relocated LZ-5 position has been shifted slightly and enlarged in the same pasture land cover to allow for easier access. This change will result in a small increase in temporary impact disturbance.

LZ-8 was originally located in annual grassland land cover in a wind farm. The relocated LZ-8 has been placed in a similar nearby area with better existing access (a gravel road), and its size has been reduced slightly, resulting in a small decrease in temporary impact disturbance.

Lastly, an additional staging area/landing zone has been added to the project description. This staging area/landing zone (referred to as the Byron Hot Springs LZ) is located in an existing developed gravel lot near the north entrance of the Buena Vista Wind Farm. This additional LZ will result in increased project acreage, but because it is located in an exempt area, will not increase mitigation acreage.

Table 1.3-5. Changes to Project Staging Areas/Landing Zones from the Original PSR

Staging Area/ Landing Zone	Change	Change in Temporary Disturbance (acres) 2014	Depicted on Map in Appendices A and B
New LZ-1	Add additional acreage in developed Pittsburg Substation	1.414	Map 1
LZ-2	Relocate LZ-2	0.273	Map 4
LZ-3	Relocate LZ-3	-0.575	Map 5
LZ-5	Relocate LZ-5	0.322	Map 12
LZ-8	Relocated LZ-8	-0.055	Map 21
Byron Hot Springs LZ	Add additional acreage in developed lot at Buena Vista Wind Farm	3.145	Map 24
TOTAL CHANGE FROM 2013		4.524	

The proposed modifications would result in an increase in the total temporary disturbance acreage resulting from LZs, but a decrease in the amount of non-exempt land cover types; the amount of mitigation acreage from LZs will decrease. With the proposed modifications, LZ's will continue to be located in "annual grassland," "pasture," "ruderal," and "urban" land cover types. All LZ acreage would remain in Development Fee Zone II. Design changes are summarized in Table 1.3-6.

Table 1.3-6. Temporary Staging Area/Landing Zone Impacts, by Land Cover Type

Land Cover Type in HCP/NCCP Area	Total Area (acres) 2014	Mitigation Acres Required 2014
Annual Grassland	1.363	1.363
Pasture	1.215	1.215
Ruderal	0.893*	0
Urban (Exempt)	6.618	0
Total Fee Zone II 2014	10.089	2.578
Total LZ Acres 2014	10.089	2.578
Previous Total 2013	5.565	3.779
Net Change	4.524	-1.201

*The 0.893 acre in LZ-6 is located on an abandoned gravel pad, and is not suitable habitat for covered species. This was considered exempt in calculations.

1.3.4 Access Route Modifications

The original PSR identified a total of 2.654 acres of temporary project access routes within the HCP/NCCP planning area; this involved 2.016 acres of temporary disturbance within non-exempt areas, including 0.007 acre of temporary disturbance in seasonal wetland habitat. Proposed modifications under this amendment include changes to the temporary usage of both existing paved and gravel access routes (exempt areas), and unimproved access such as dirt tracks and overland access (non-exempt areas). Changes to access route design are summarized in Table 1.3-7.

Under the proposed modifications, some existing paved and well-developed gravel roads (exempt areas) identified in the original PSR maps will no longer be used, including the routes to the original P-3 and to Alameda County. The removal of the Alameda County access route (see Map 24 in Appendices A and B) also removes the need for two planned culvert replacements, and the associated seasonal wetland disturbance. These access route alterations will result in the reduction and elimination of temporary disturbance acreage in seasonal wetland habitat.

Under the proposed modifications, temporary unimproved access routes (dirt tracks or overland access) will no longer be used. Unimproved access routes will no longer be used to access the following locations: original P-2 and original LZ-2; a portion of the original P-4; and access to the original P-5. The removal of the access route to the original P-2 and original LZ-2 (see Map 3 in Appendices A and B) also removes the need for the associated seasonal wetland crossing. These access route alterations will result in the reduction of temporary disturbance acreage, including reduction in disturbance to seasonal wetland habitat.

Table 1.3-7. Changes to Project Access Routes from the Original PSR

Access Route	Change	Change in Temporary Disturbance (acres) 2014	Exempt or Non-Exempt	Depicted on Map in Appendices A and B
Access to original P-2 and original LZ-2	Removal of unimproved track	-0.193	Non-exempt (unimproved track)	Map 3
Access to P-4	Reducing unimproved track to 260 feet	-0.088	Non-exempt (unimproved track)	Map 10
Access to relocated LZ-5	Reducing unimproved track to 521 feet	-0.392	Non-exempt (unimproved overland access)	Map 12
Access to relocated P-6	Increasing unimproved track access to 4,100 feet	0.250	Non-exempt (unimproved track)	Map 15
Access to relocated P-8	Additional 270 feet of temporary overland access	0.075	Non-exempt (unimproved track)	Map 21
Access to Alameda County	Removal of culvert replacements	-0.021	Non-exempt (grassland and seasonal wetland)	Map 24
TOTAL CHANGE FROM 2013		-0.369		

However, under the proposed modifications, small sections of previously unidentified temporary overland access will be needed to access two pull sites: relocated P-6 and relocated P-8. These access route alterations will result in small increases in temporary disturbance acreage.

Whenever feasible, proposed temporary access routes to relocated and/or new project work areas were identified on existing paved and/or well-developed gravel routes (exempt areas). Under the proposed modifications, paved and gravel routes will be used to access the following areas: Guard Structure HW06 and associated work areas at Tower 008; relocated LZ-3 and relocated P-3; relocated LZ-8; and the new Byron Hot Springs LZ. These access route alterations will not result in a change in mitigation acreage, and are not detailed in Table 1.3-7.

The proposed modifications would result in an overall reduction in the total temporary disturbance acreage resulting from access routes. With the proposed modifications, access routes will continue to be located in “annual grassland,” “pasture,” “ruderal,” and “urban” land cover types; temporary disturbance would no longer take occur in “seasonal wetland.” All access route acreage would remain in Development Fee Zone II. Design changes are summarized in Table

1.3-8. Any new temporary access routes would be restored to their previous condition after construction, as described in the original PSR.

Table 1.3-8. Temporary Access Route Impacts, by Land Cover Type

Land Cover Type in HCP/NCCP Area	Total Area (acres) 2014	Mitigation Acres Required 2014
Annual Grassland	1.505	1.505
Pasture	0.142	0.142
Ruderal	0	0
Seasonal Wetland	0	0
Urban (exempt)	0.638	0
Total Fee Zone II 2014	2.285	1.647
Total Seasonal Wetland 2014	0	0
Upland Acreage		
Total Access Route Acres 2014	2.285	1.647
Previous Total 2013	2.654	2.016
Net Decrease	-0.369	-0.369
Wetland Acreage		
Total Seasonal Wetland Access Acres 2014	0	0
Previous Total 2013	0.007	0.007
Net Decrease in Seasonal Wetland	-0.007	-0.007

2.0 LAND COVER TYPES

Changes to the land cover types associated with the proposed modifications include the annual grassland, pasture, ruderal, seasonal wetland, and urban land cover types, due to modifications of guard structures, pull sites, staging areas/landing zones, and access routes; the purple needlegrass grassland land cover is unchanged. The acreage totals for these categories have been updated in Table 2.0-1.

The proposed modifications in this addendum generally result in both reductions of acreage (pull sites and access routes), and increases in acreage (guard structures and staging areas/landing zones). The total net change is a decrease of approximately 3.29 acres (Table 2.0-1).

The proposed modifications would eliminate impacts to jurisdictional waters, including wetlands. The types of land cover impacted remain the same, therefore species-specific planning survey requirements would not change. The revised land cover acreages, under the proposed modifications in this addendum, are summarized in Table 2.0-2. Due to the shifts of work areas to urban land cover (exempt), the project mitigation acreage drops to a total of 10.740 acres. Below is a revised version of Table 5 from the original PSR (PG&E 2013, page 34). All disturbance acreage is temporary.

Table 2.0-1. Land Cover Type Changes under this Addendum

Land Cover Type	Original PSR Acreage 2013	Acreage under this Addendum 2014	Net Acreage Change
Upland Land Cover			
Annual Grassland	14.571	7.761	-6.810
Pasture	4.087	1.357	-2.730
Purple Needlegrass Grassland	0.045	0.045	0
Ruderal	1.523	2.470	0.947
Urban (Exempt)	3.285	8.588	5.303
TOTAL UPLAND	23.511	20.221	-3.290
Wetland Land Cover			
Seasonal Wetland	0.007	0.000	-0.007
TOTAL WETLAND	0.007	0.000	-0.007

Table 2.0-2. Project Disturbance by Land Cover Type*, Revised 2014

	HCP/NCCP Inventory Area						Contra Costa County, Outside HCP Area
Land Cover Type**	AnG	PNg	Rud	Urb (Exempt)	Pas	Seas Wet	Rud
Pull Sites	4.431	0	0.861	1.332	0	0.000	0.000
Staging Areas/Landing Zones	1.363	0	0.893***	6.618	1.215	0.000	0.000
Access Routes	1.505	0	0	0.638	0.142	0.000	0.000
Guard Structures	0.462	0.045	0.716	0.000	0.000	0.000	0.045
TOTALS	7.761	0.045	2.470***	8.588	1.357	0.000	0.045
TOTAL MITIGATION ACREAGE 2014 (Acreage impact in HCP Area, minus urban and other exempt land cover types) 10.740 acres							

* All area measurements are in acres.

** Land cover type abbreviations:

AnG: Annual Grassland

PNg: Purple Needlegrass Grassland

Rud: Ruderal

Urb: Urban (exempt)

Pas: Pasture

*** The 0.893 acre located on LZ-6 is an abandoned gravel pad, and is not suitable habitat for covered species. This was considered exempt in both 2013 and current (2014) calculations.

3.0 PLANNING SURVEY RESULTS

Proposed modifications to new work areas associated with this addendum do not introduce impacts to new species. They take place outside of sensitive habitats, typically occurring in ruderal, urban, and pasture land cover types; a few new areas of annual grassland will also be affected. Newly-identified work areas are typically located adjacent or near to areas of previous study. As described in the original PSR, all impacts will be temporary.

The following are new work areas, not previously within the project footprint, that are located on urban/developed surfaces (considered exempt):

- Access to Guard Structure HW06 and Tower 008 – existing gravel road between road medians;
- Relocated LZ-2 – moved from annual grassland to a developed gravel lot adjacent Kirker Pass Road (Appendix C, Photograph 1);
- Relocated LZ-3 – moved from annual grassland onto a developed gravel lot in a ranch adjacent Nortonville Road (Appendix C, Photograph 2);
- Access to Relocated LZ-3 and Relocated P-3 – on an existing paved/graveled road in a farm adjacent Nortonville Road;
- Access to Relocated LZ-8 – on an existing large gravel road in a wind farm;
- New Byron Hot Springs LZ – in a developed gravel lot in the Buena Vista Wind Farm; and
- Access to new Byron Hot Springs LZ – on developed gravel road in the Buena Vista Wind Farm (Appendix C, Photograph 5).

The following are new work areas, not within the original project footprint, that are located on natural (non-exempt) land cover types:

- Enlarged Guard Structure HW06 including area at Tower 008 – in ruderal and annual grassland land cover north of SR 4 in the City of Pittsburg;
- Relocated P-2 – moved from annual grassland to ruderal land cover adjacent the Delta View Golf Course;
- Relocated P-3 – moved from a paved road and annual grassland shoulder, to disturbed annual grassland in a ranch adjacent Nortonville Road;
- Relocated LZ-5 – moved within the same pasture land cover as the original LZ-5, adjacent Chadbourne Road (Appendix C, Photograph 3);
- Relocated P-6 – moved adjacent within the same annual grassland land cover as the original P-6;
- Access to Relocated P-6 – minor extension of the original P-6 access route, in annual grassland land cover, along the same unimproved track;
- Relocated P-8 – moved nearby the original P-8 into annual grassland landcover;

- Access to Relocated P-8 – small amount of overland travel in annual grassland; and
- Relocated LZ-8 – moved nearby the original LZ-8 into annual grassland land cover (Appendix C, Photograph 4).

Some of the new work areas not within the original project footprint are located within the boundaries of the original planning surveys: relocated P-6 and the associated access, and the majority of P-5. Some work areas were surveyed in the spring and summer of 2013 (Garcia and Associates [GANDA] March 29, April 29, and July 23-24, 2014): relocated P-8 and the associated access route. The remaining new work areas were surveyed by project biologists Caleb Murphy, Ryan Fomosa, Tasha McMillan, and Brett Harshaw on the following dates: October 17 and 23, 2013; November 4, 18-22, 25, and 27, 2013; December 9-13, 30, and 31, 2013; and January 2, 3, 7-17, 21-24, and 27-31, 2014.

No new habitats or species concerns were identified from these surveys. An updated review of California Natural Diversity Database (CNDDDB) records was also performed (California Department of Fish and Wildlife [CDFW] 2014). A record of the covered species California red-legged frog (*Rana draytonii*) is located near relocated LZ-2. A recent record of the covered species San Joaquin spearscale (*Atriplex joaquiniana*) has been added near the Byron Hot Springs LZ access route; this population is located adjacent the paved road and access gate that is regularly used by the Buena Vista Wind Farm, and will not be impacted by project activities. Otherwise, no new covered species or occurrences have been noted.

4.0 LANDSCAPE AND NATURAL COMMUNITY-LEVEL AVOIDANCE AND MINIMIZATION MEASURES

The proposed modifications described in this addendum would not alter the implementation of the following HCP/NCCP conservation measures, listed in the original January 2013 PSR (PG&E 2013):

- **Conservation Measure 1.10 “Maintain Hydrologic Conditions and Minimize Erosion;”**
- **Conservation Measure 1.6 “Minimize Development Footprint Adjacent to Open Space;”** and
- **Conservation Measure 1.12 “Implement Best Management Practices for Rural Road Maintenance.”**

The proposed modifications described in this addendum would slightly alter the implementation of the following HCP/NCCP conservation measures, listed in the original PSR.

- **Conservation Measure 1.11 “Avoid Direct Impacts on Extremely Rare Plants, Fully Protected Wildlife Species, or Covered Migratory Birds.”**
(This measure also refers to ‘*Covered and No-Take Plants, Avoidance and Minimization Measures*’ page 19 of original PSR). The original PSR describes measures to protect a population of a covered plant species, round-leaved filaree (*California macrophylla*) located adjacent to the original P-2. The proposed modifications relocate P-2 greater than 200 feet away from this population. Therefore, the following measure is not expected to be implemented at relocated P-2:

- a) installation of protective fencing or flagging (including a buffer of approximately 20 feet) around the population and limiting nearby ground disturbance.

As stated in the original PSR, in the unlikely event that another population of an HCP/NCCP covered or no-take plant is documented during pre-construction surveys, the avoidance and minimization measures in the PSR would be implemented. In addition, the PSE (PG&E) will meet and confer with Conservancy staff to develop and implement a suitable plan to address the following sections in the HCP/NCCP: Conservation Measure 3.10 “Plant Salvage when Impacts are Unavoidable;” Sections 6.31 “Covered and No-Take Plants;” and Table 5-20 “Protection Requirements for Covered Plants.”

- **Conservation Measure 1.7 “Establish Stream Setbacks.”** The original PSR describes two work areas, P-2 and LZ-2 (both at one location) that are within 75 feet of an ephemeral stream. With the proposed

modifications the following four work areas are within 75 feet of ephemeral streams: relocated P-2, relocated LZ-2, relocated P-3, and relocated LZ-3. The conservation measures described in the original PSR for the original P-2 and original LZ-2 will be implemented at the four relocated work sites.

- **Conservation Measure 2.12 “Wetland, Pond, and Stream Avoidance and Minimization.”** The original PSR describes activities on two access routes (access to original P-2/LZ-2, and access P-9 in Alameda County) that would temporarily impact 0.007 acre of seasonal wetland habitat. With the proposed modifications, neither of these access routes will be utilized. Planning surveys have determined that no wetlands or waters will be impacted at newly-identified work areas proposed in this addendum. Therefore, the measures required for directly impacting wetlands will not be implemented.

The conservation measures described for avoiding indirect impacts to wetlands and waters will continue to be implemented as described in the original PSR.

Other than the changes described above, the conservation measures will be implemented as stated in the original PSR.

As described in the original PSR, with the proposed modifications, the following conservation measures are not applicable to this project:

- **Conservation Measure 1.8 “Establish Fuel Management Buffer to Protect Preserves and Property;”**
- **Conservation Measure 1.9 “Incorporate Urban-Wildland Interface Design Elements;”**
- **Conservation Measure 1.13 “Implement Best Management Practices for Flood Control Facility Maintenance;”** and
- **Conservation Measure 1.14 “Design Requirements for Covered Roads Outside the Urban Development Area.”**

5.0 MITIGATION MEASURES

As stated in the original PSR, all impacts as a result of this project are temporary; however, PG&E is planning to mitigate for these temporary impacts using the *permanent* impact ratio for the footprint of the temporary impacts, consistent with Chapter 9.3.1 of the HCP/NCCP.

In the fee calculator in the original PSR, mitigation for the project involved compensating for approximately 19.340 acres of temporary impacts in Fee Zone II, including 0.007 acre of wetland impacts, by paying approximately \$452,278.52 in fees (development fees plus contribution to recovery). Of this amount, PG&E used an existing fee credit with the Conservancy in the amount of \$170,233.16. With the credit applied to the project, the resulting final payment due to the Conservancy under the calculations in the original PSR was \$282,045.36.

5.1 Revised Mitigation Fees

Under Addendum 1.0, the final temporary impact acreage, all located within Development Fee Zone II, is 10.740 acres. This is a temporary impact acreage decrease of approximately 8.900 acres, including removal of 0.007 acre of seasonal wetland impacts, from the amount stated in the original PSR.

This will result in a decrease in the mitigation fee to \$216,432.48. The overall difference in the fees is \$194,734.36.

Summary Table 4. Summary of Acreage Change from Project Modifications, Addendum 1.0 in 2014

	Development Fee	Wetland Fee	Contribution to Recovery	PG&E Credit from 2009	Total
Original PSR 2013	\$409,401.59	\$1,765.25	\$41,111.68	-\$170,233.16	\$282,045.36
Addendum 1.0	\$216,432.48	-	\$41,111.68 (from Original Project)	-\$170,233.16	\$87,311.00
Difference in Fees from Original Project to First Amendment					\$194,734.36

The revised **Exhibit 1: HCP/NCCP Fee Calculator**, dated February 2014, is included as an attachment to this addendum.

6.0 REFERENCES CITED

California Department of Fish and Wildlife (CDFW). 2014. Rarefind, a California Natural Diversity Database. Commercial Version 3.1.1. Updated January 3, 2014.

East Contra Costa County Habitat Conservation Plan Association. 2006. East Contra Costa County Habitat Conservation Plan and Natural Community Conservation Plan. Prepared by Jones and Stokes, San Jose, California, with assistance from Economic & Planning Systems, and Resources Law Group. Dated October 2006.

Pacific Gas and Electric Company (PG&E). 2013. East Contra Costa County HCP/NCCP Planning Survey Report for Pittsburg-Tesla 230 kV Transmission Line Reconductoring Project. Prepared by Garcia and Associates.

Exhibit 1: HCP/NCCP FEE CALCULATOR WORKSHEET

PROJECT APPLICANT INFO:

Project Applicant: Pacific Gas and Electric Company

Project Name: Pittsburg-Tesla 230 kV Transmission Reconductoring Project

APN (s): Several

Date: February 6, 2014

Jurisdiction: Participating Special Entity

DEVELOPMENT FEE (see appropriate ordinance or HCP/NCCP Figure 9-1 to determine Fee Zone)

**Acreage of land to be
permanently disturbed (from
Table 1)¹**

	Full Development Fee		Fee per Acre (subject to change on 3/15/14 ²)	=	
Fee Zone 1		x	\$10,076.00	=	\$0.00
Fee Zone 2	10.74	x	\$20,152.00	=	\$216,432.48
Fee Zone 3		x	\$5,038.00	=	\$0.00
Fee Zone 4 ³		x	\$15,114.00	=	\$0.00
Development Fee Total =					\$216,432.48

****WETLAND MITIGATION FEE**

	Acreage of wetland		Fee per Acre (subject to change on 3/15/14 ²)	=	
Riparian woodland / scrub		x	\$87,978.00	=	\$0.00
Perennial Wetland		x	\$129,261.00	=	\$0.00
Seasonal Wetland	0.000	x	\$299,636.00	=	\$0.00
Alkali Wetland		x	\$302,668.00	=	\$0.00
Ponds		x	\$163,972.00	=	\$0.00
Aquatic (open water)		x	\$81,986.00	=	\$0.00
Slough / Channel		x	\$119,488.00	=	\$0.00
Linear Feet					
Streams 25 Feet wide or less (Fee is per Linear Foot)		x	\$334.00	=	\$0.00
Streams greater than 25 feet wide (Fee is per Linear Foot)		x	\$501.00	=	\$0.00
Wetland Mitigation Fee Total =					\$0.00

FEE REDUCTION

Development Fee reduction (authorized by Implementing Entity) for land in lieu of fee	
Development Fee reduction (up to 33%, but must be approved by Conservancy) for permanent assessments	
Wetland Mitigation Fee reduction (authorized by Implementing Entity) for wetland restoration/creation performed by applicant	
Reduction Total =	\$0.00

CALCULATE FINAL FEE

First Amendment Development Fee Total +	\$216,432.48
Wetland Mitigation Fee Total +	\$0.00
Fee Subtotal =	\$216,432.48
Mitigation Fees Paid in Original Project 2013 =	\$411,166.84
Contribution to Recovery from Original Project 2013 =	\$41,111.68
Credit to PG&E from 2009 =	-\$170,233.16
Total paid from Original Project 2013 =	\$282,045.36
First Amendment Mitigation Fees =	\$216,432.48
Contribution to Recovery from Original Project 2013 =	\$41,111.68
Credit to PG&E from 2009 =	-\$170,233.16
Total Mitigation Fees, Contribution to Recovery, Minus Credit =	\$87,311.00
Difference, which amount will be reflected in an increased CTR =	\$194,734.36

Notes:

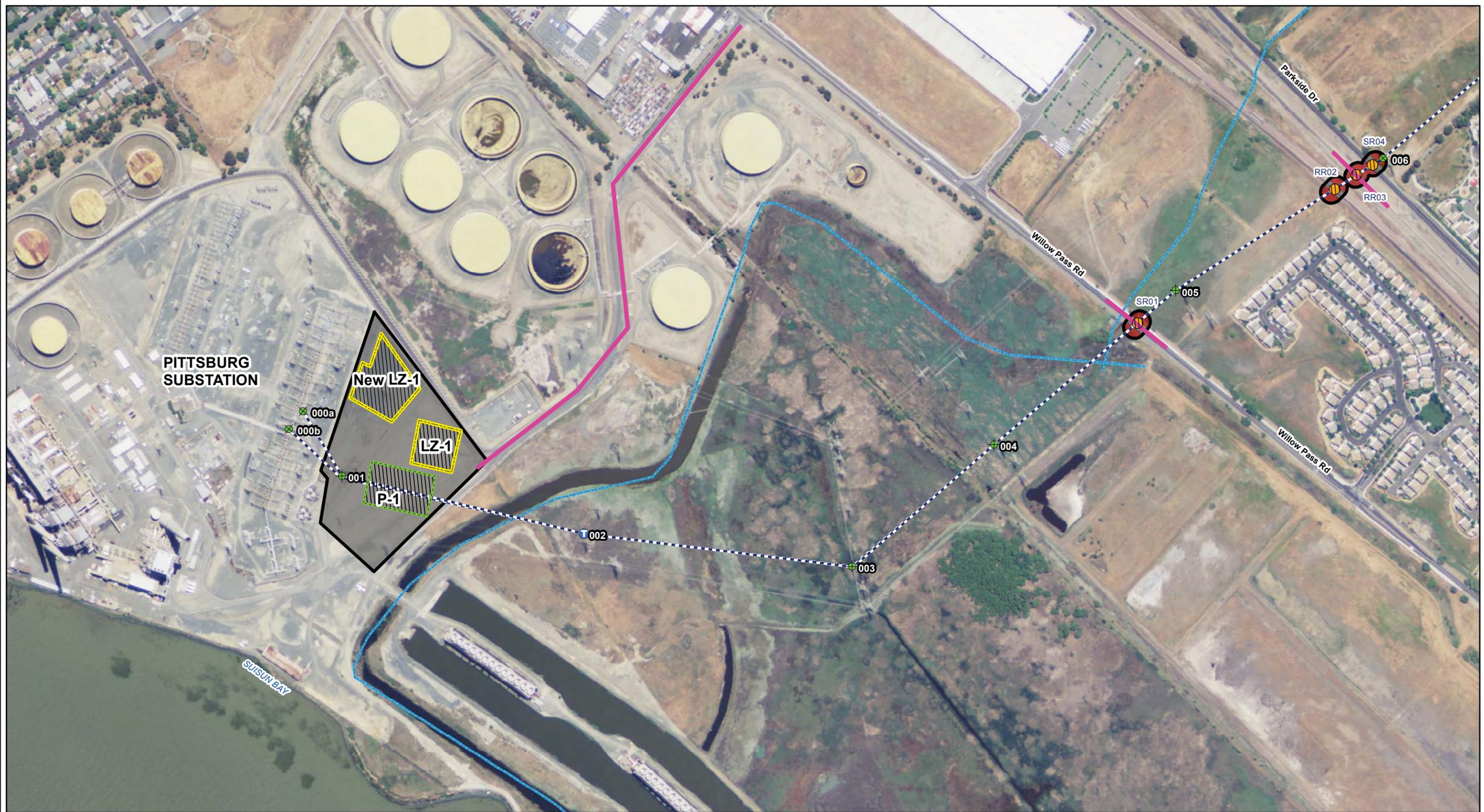
1 City/County Planning Staff will consult the land cover map in the Final HCP/NCCP and will reduce the acreage subject to the Development Fee by the acreage of the subject property that was identified in the Final HCP/NCCP as urban, turf, landfill or aqueduct land cover.

2 The Conservancy Board adopted a periodic fee audit required by the HCP/NCCP on June 27, 2013. The fee schedule listed above is based on the periodic fee audit as adopted on June 27, 2013.

3 "Fee Zone 4" is not shown on Figure 9.1 of the HCP/NCCP but refers to the fee applicable to those few covered activities located in northeastern Antioch (see page 9-21 of the HCP).

Template date: June 27, 2013

**Appendix A:
Land Cover Impact Maps 2014 – Revision 1**



**PITTSBURG
SUBSTATION**

New LZ-1

LZ-1

P-1

000a

000b

001

T 002

003

004

SR01

005

RR02

SR04

RR03

006

Parkside Dr

Willow Pass Rd

Willow Pass Rd

SUISUN BAY



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

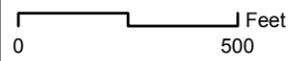
- Creek, Stream
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



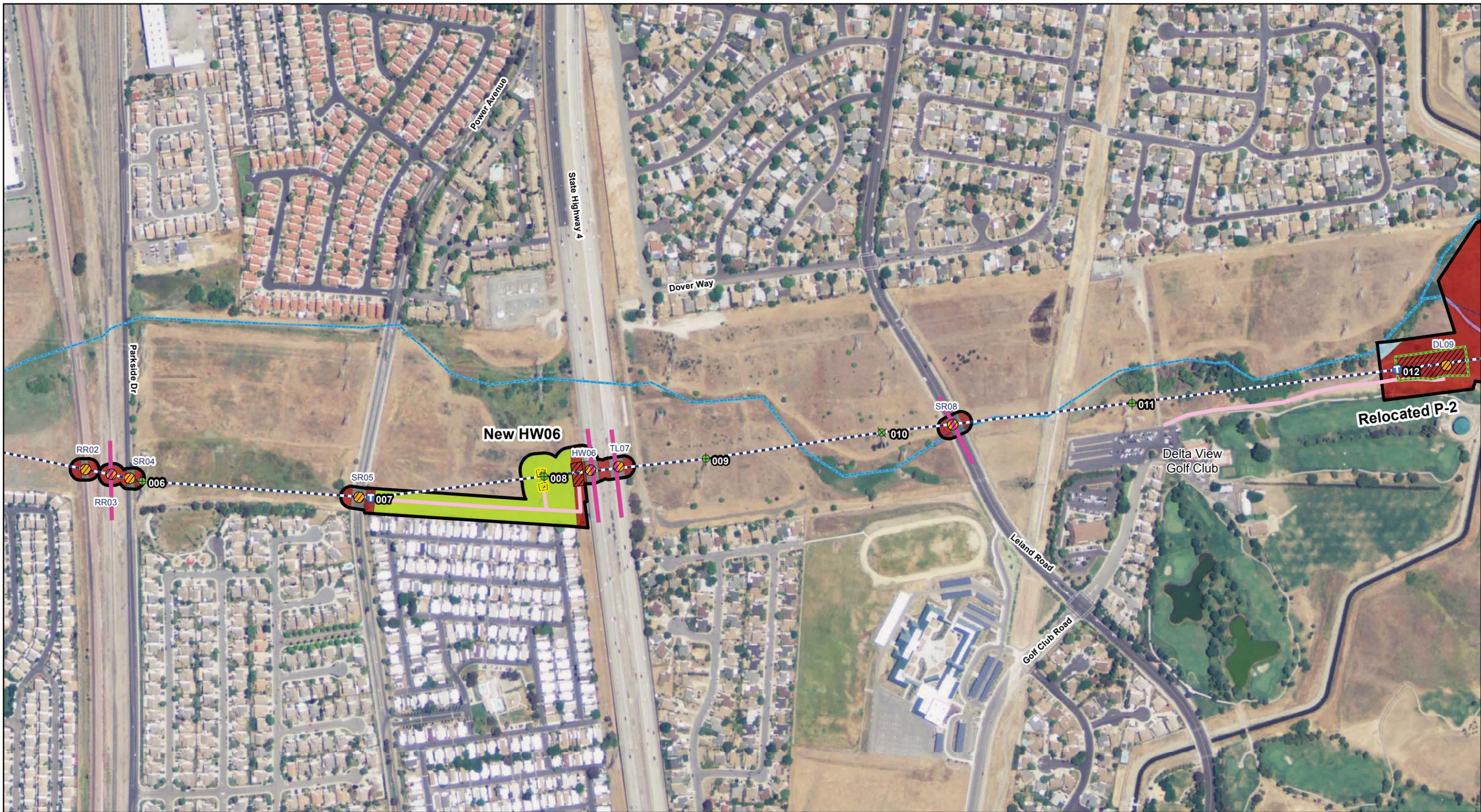
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 1 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- + Tower (No Modification)
- E Dead End with Tap
- T Top Cage Extension
- C Top Cage Extension/DE
- F FLO Wind Tap

Access Roads

- Temporary Impact Area
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

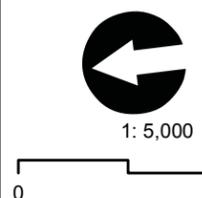
- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub

Ruderal

- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

Creek, Stream

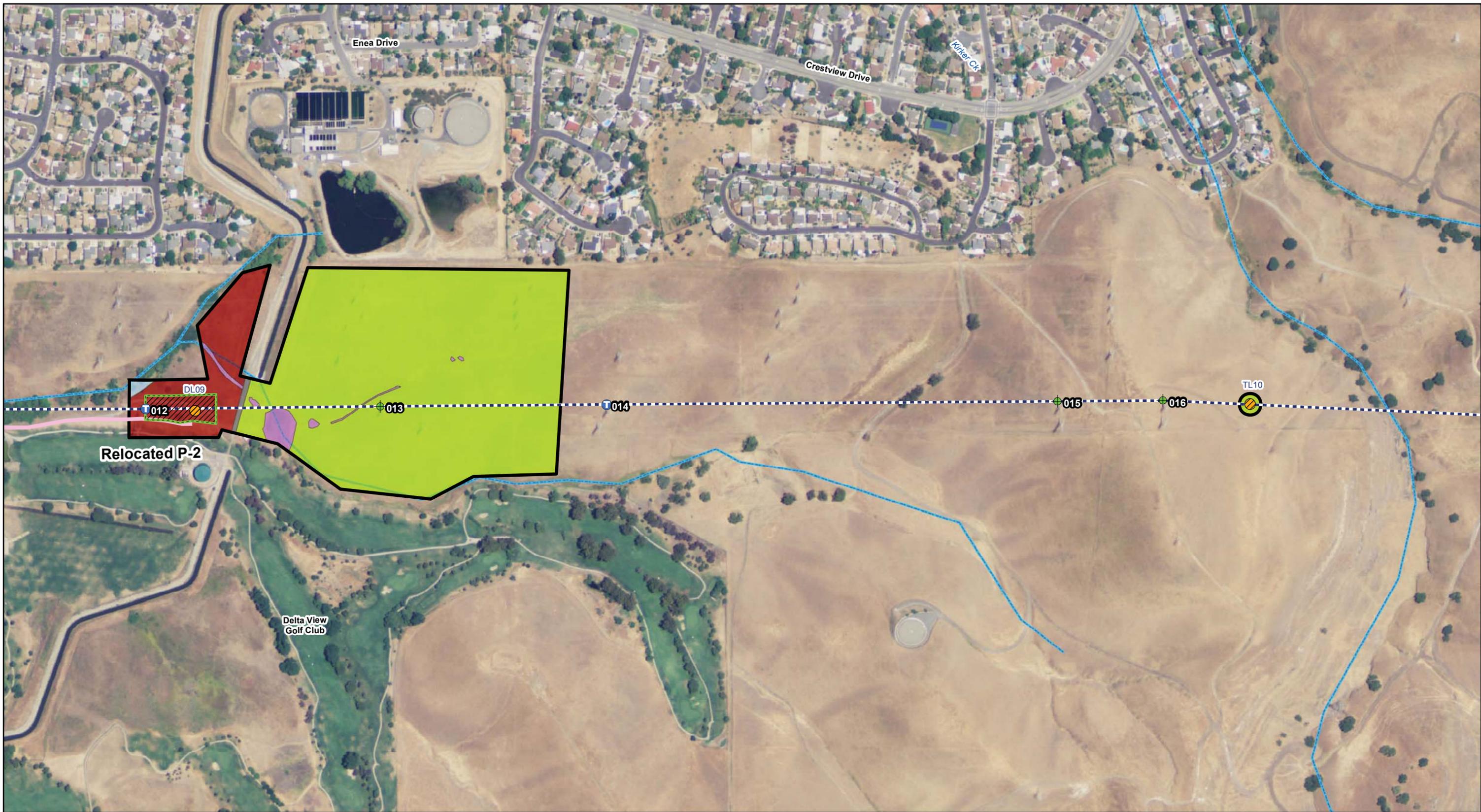
- Creek, Stream



Appendix A: Detailed Project and Land Cover Map
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA
Map 2 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Temporary Impact Area
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

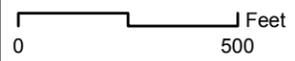
- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

Creek, Stream

- Creek, Stream



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 3 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Creek, Stream
- Temporary Impact Area
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1
 February 2014
 Contra Costa County, CA
Map 4 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

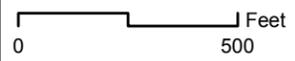
- Creek, Stream
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 5 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Creek, Stream

- Creek, Stream

Temporary Impact Area

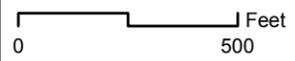
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 6 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

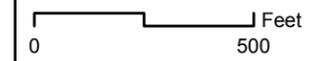
- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

Creek, Stream

- Creek, Stream
- Temporary Impact Area



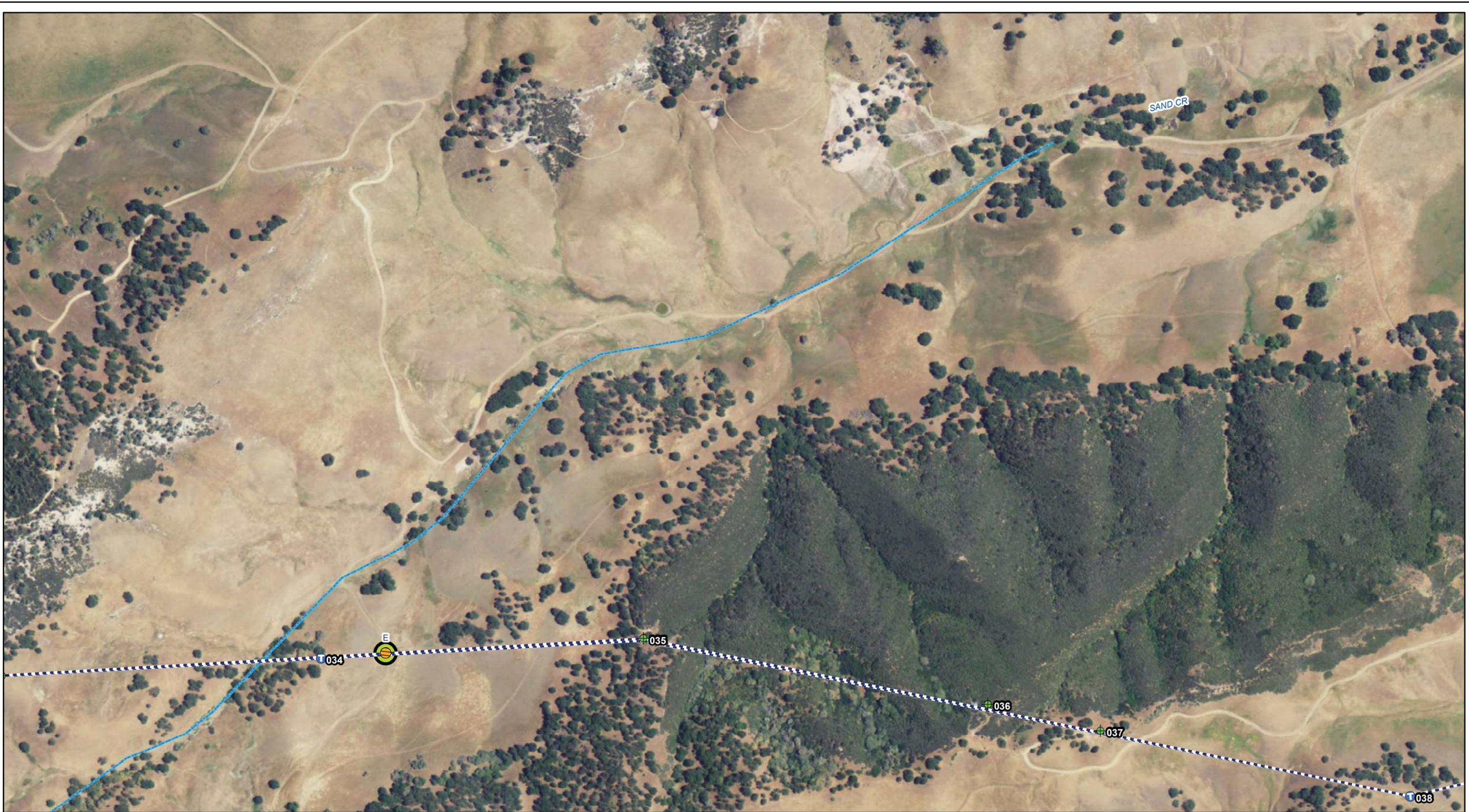
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 7 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Temporary Impact Area

- Temporary Impact Area

Creek, Stream

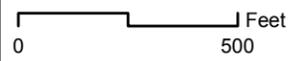
- Creek, Stream

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 8 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Creek, Stream

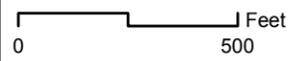
- Creek, Stream
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



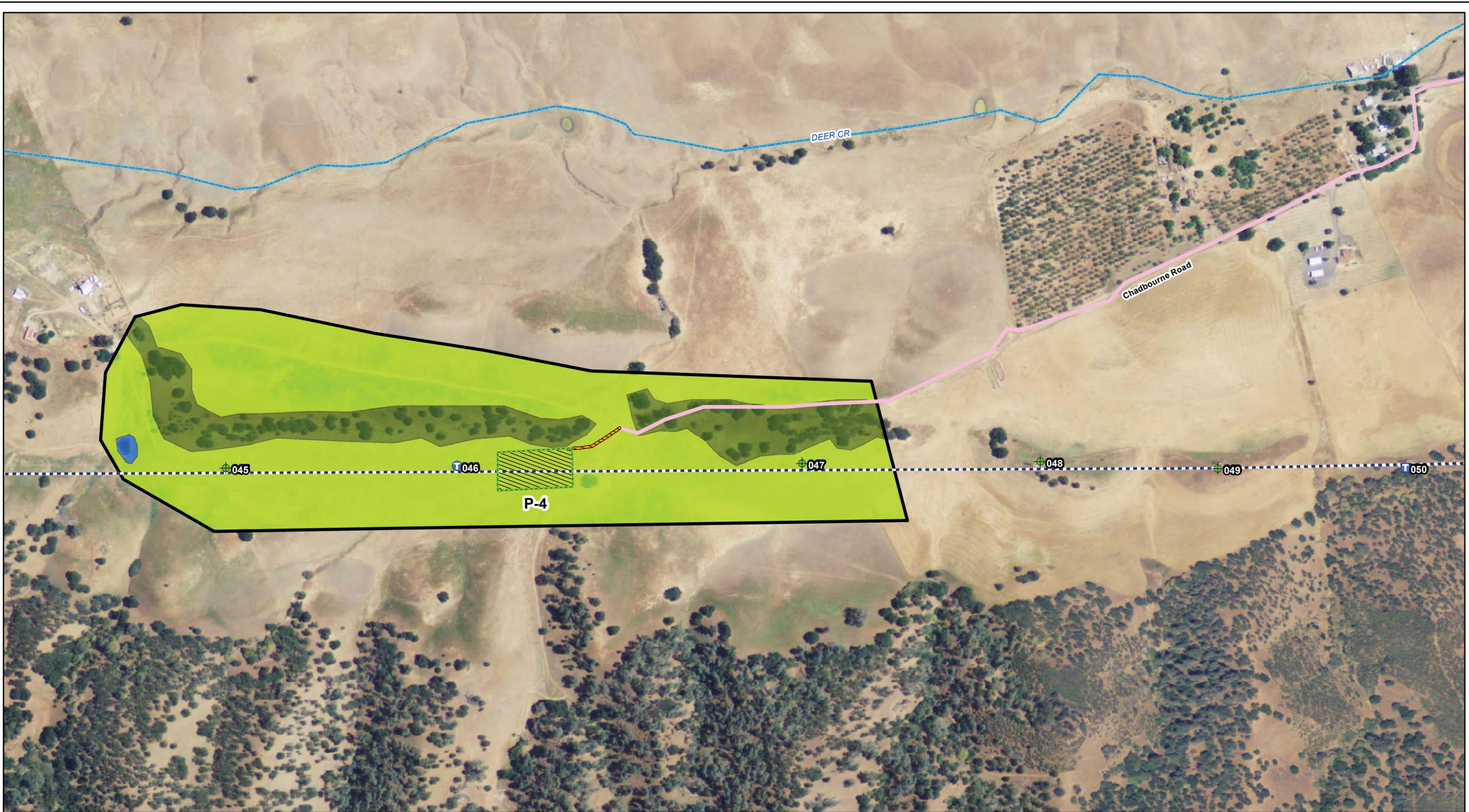
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 9 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

- Creek, Stream
- Temporary Impact Area



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 10 of 24



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

Creek, Stream

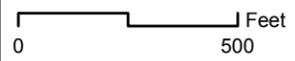
- Creek, Stream

Temporary Impact Area

- Temporary Impact Area



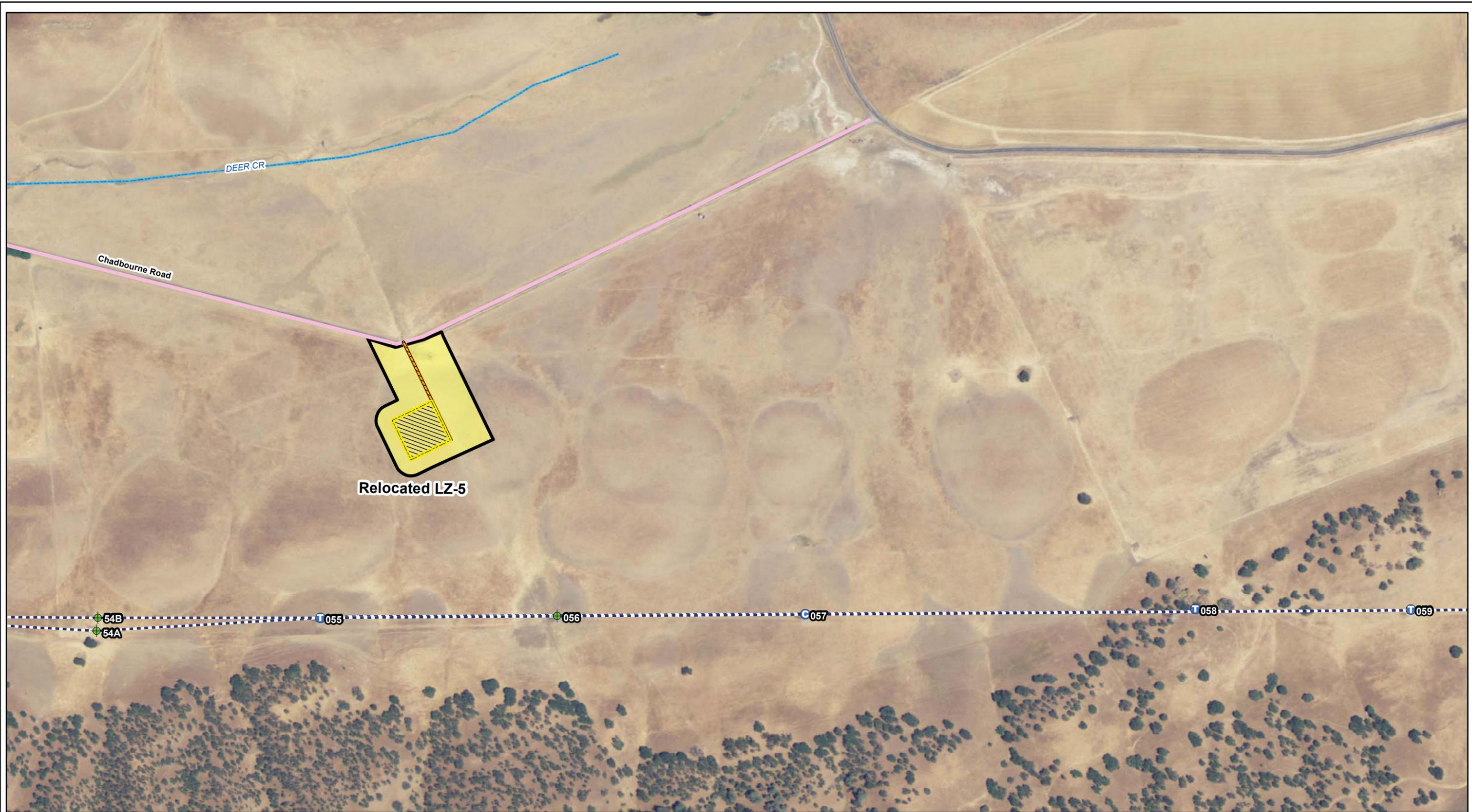
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 11 of 24

Source: GANDA GIS 2014



Relocated LZ-5

Chadbourne Road

DEER CR

54B
54A

T 055

056

C 057

T 058

T 059



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

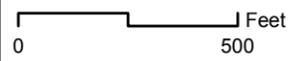
- Creek, Stream
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 12 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

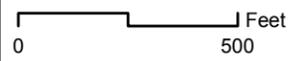
- Creek, Stream
- Temporary Impact Area
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



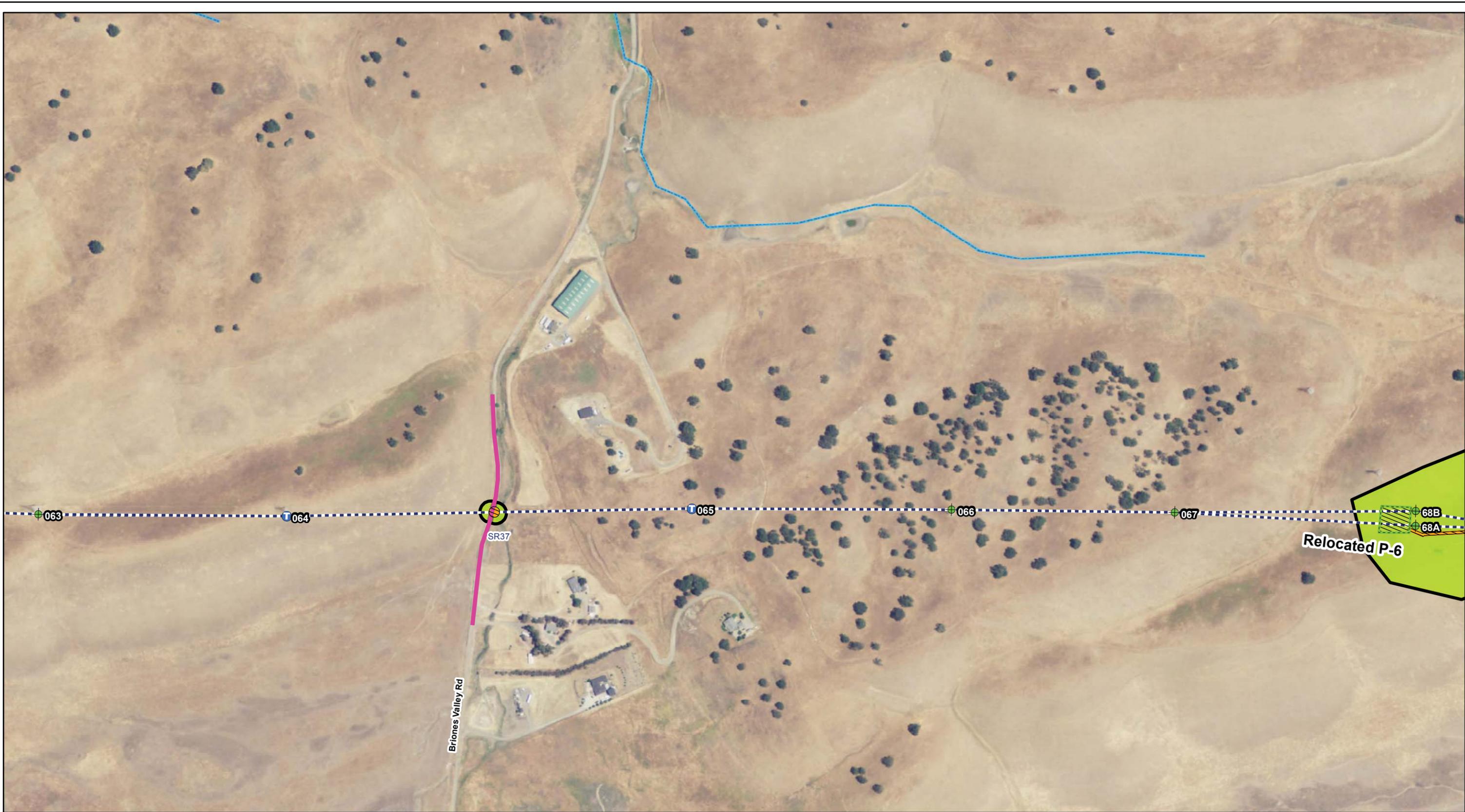
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 13 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Water Features

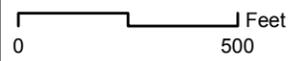
- Creek, Stream
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



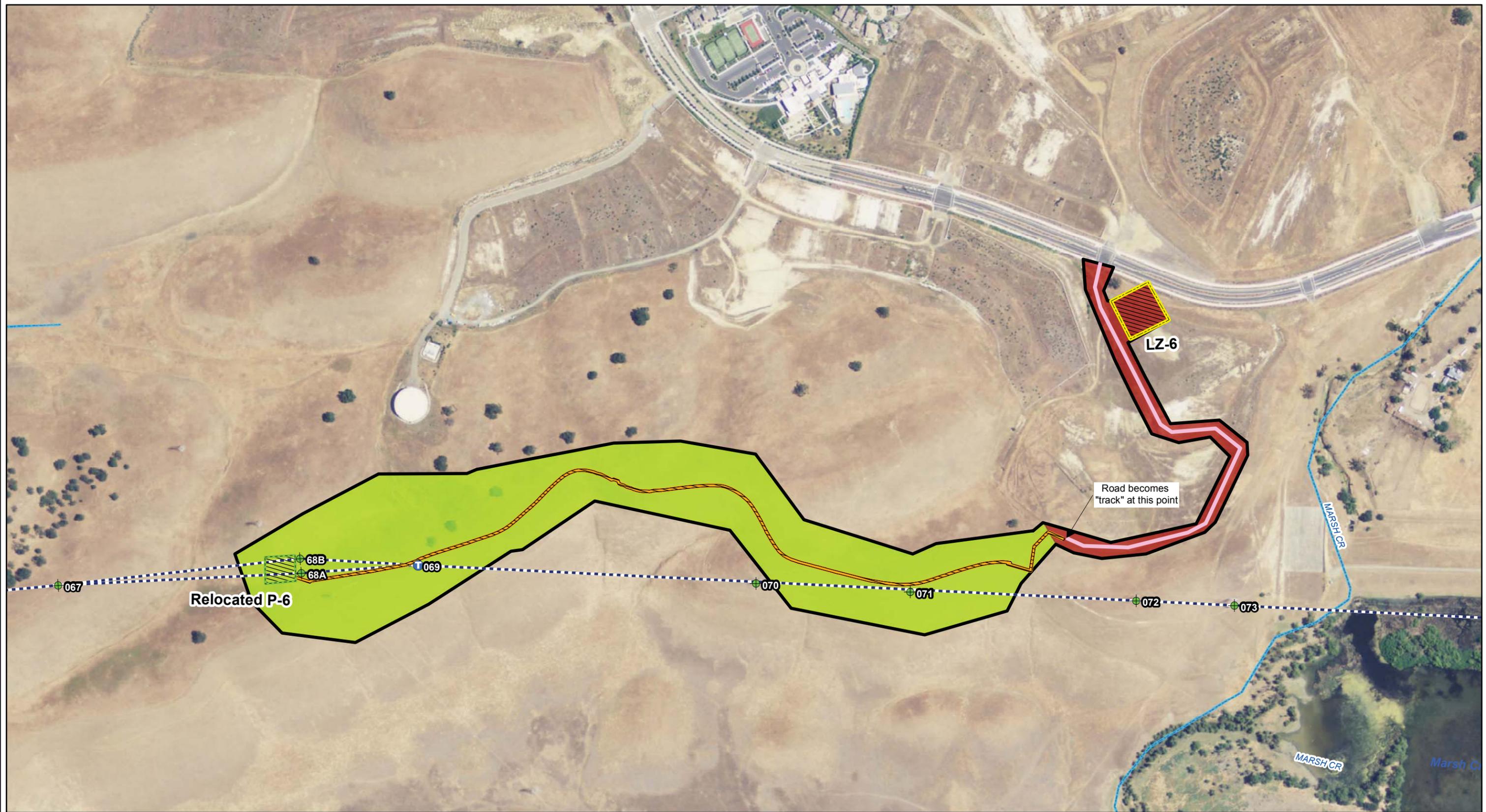
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 14 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

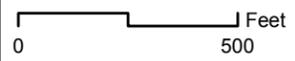
- Creek, Stream
- Temporary Impact Area
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 15 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub

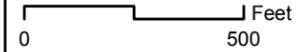
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

Creek, Stream

Temporary Impact Area

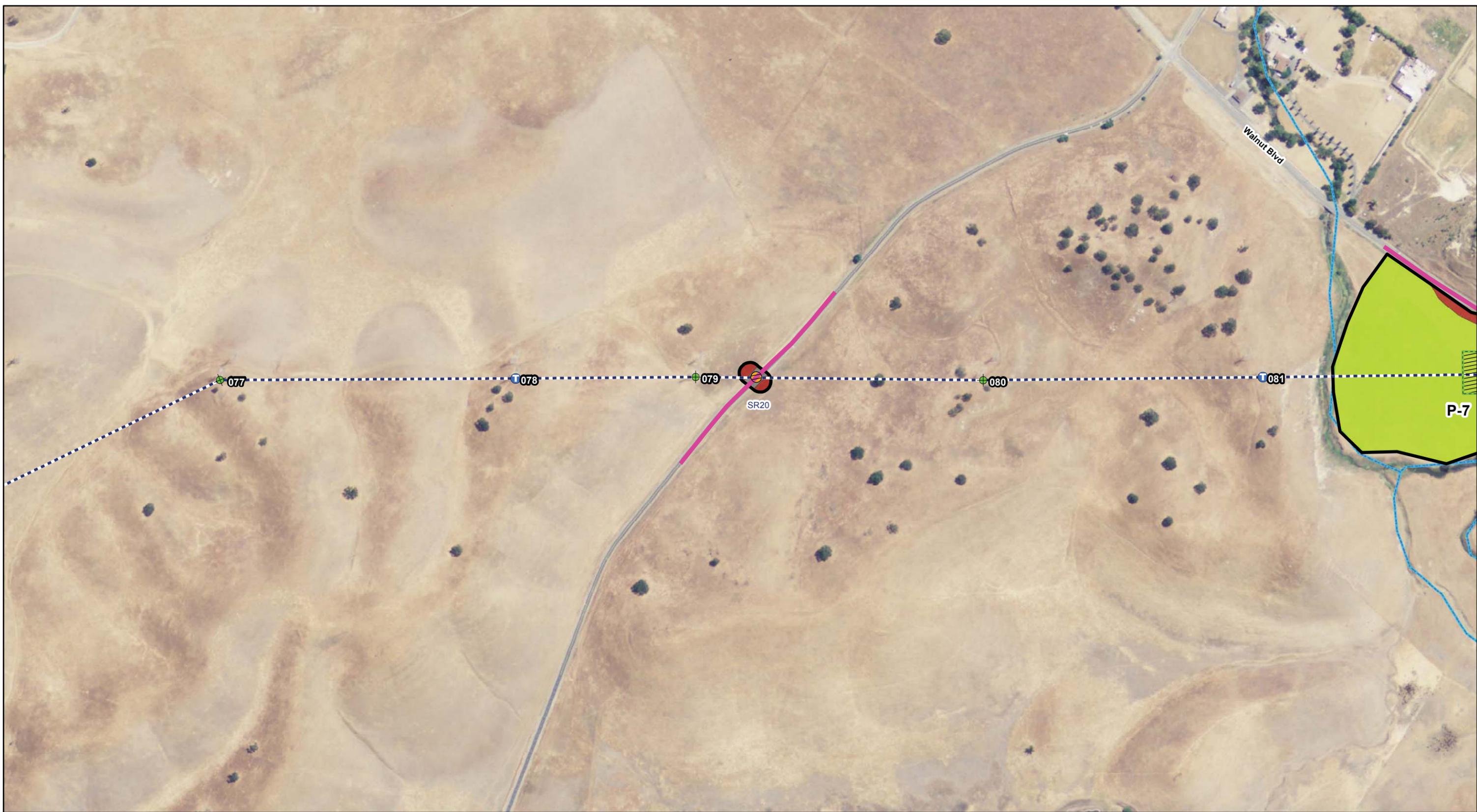


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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 16 of 24



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

Creek, Stream

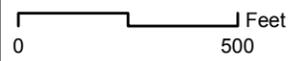
- Creek, Stream

Temporary Impact Area

- Temporary Impact Area



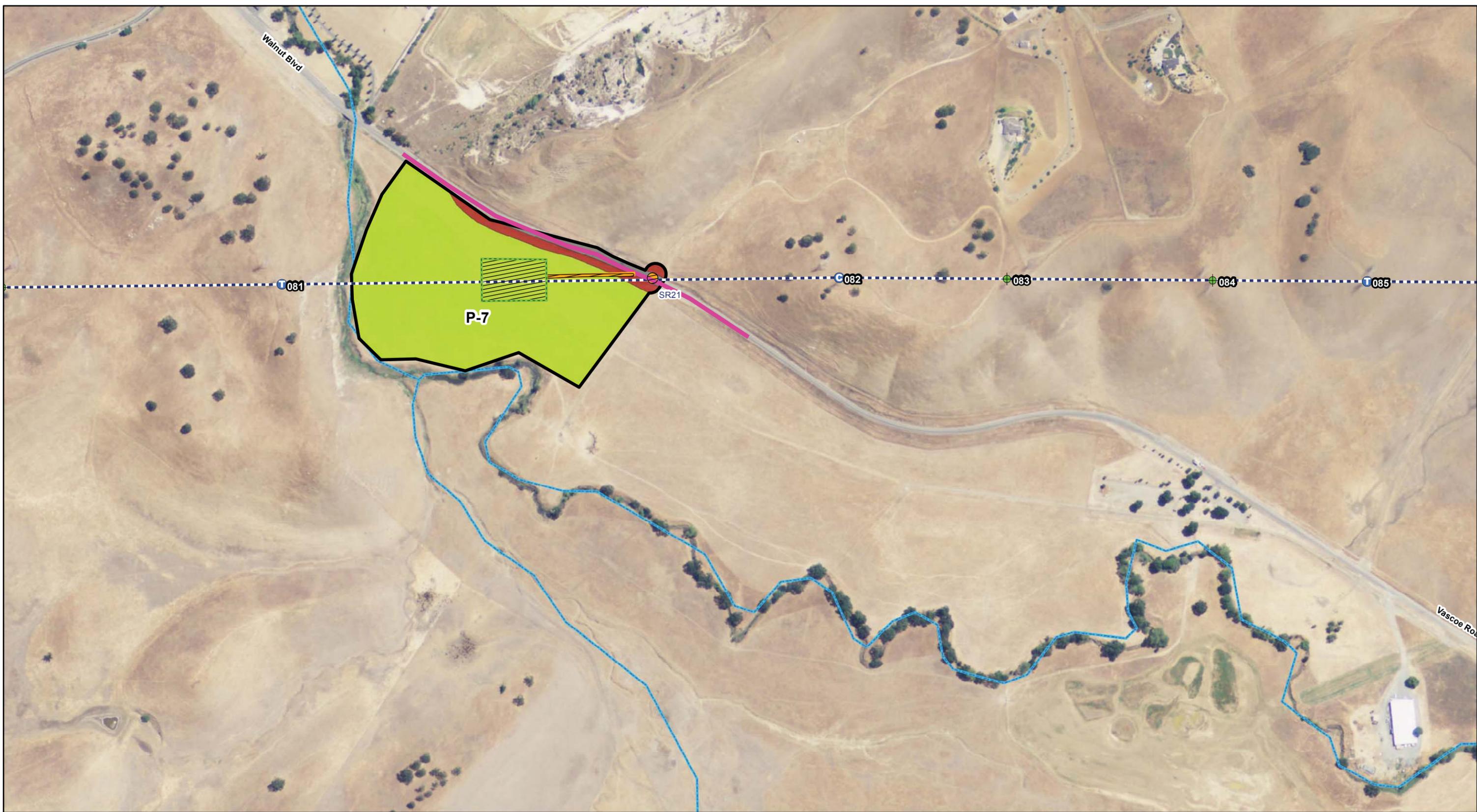
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 17 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

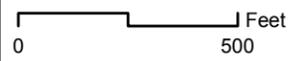
- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

Creek, Stream

- Creek, Stream
- Temporary Impact Area



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 18 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

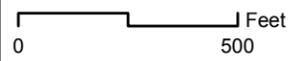
- Creek, Stream
- Temporary Impact Area
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 19 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

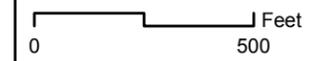
Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

- Creek, Stream
- Temporary Impact Area



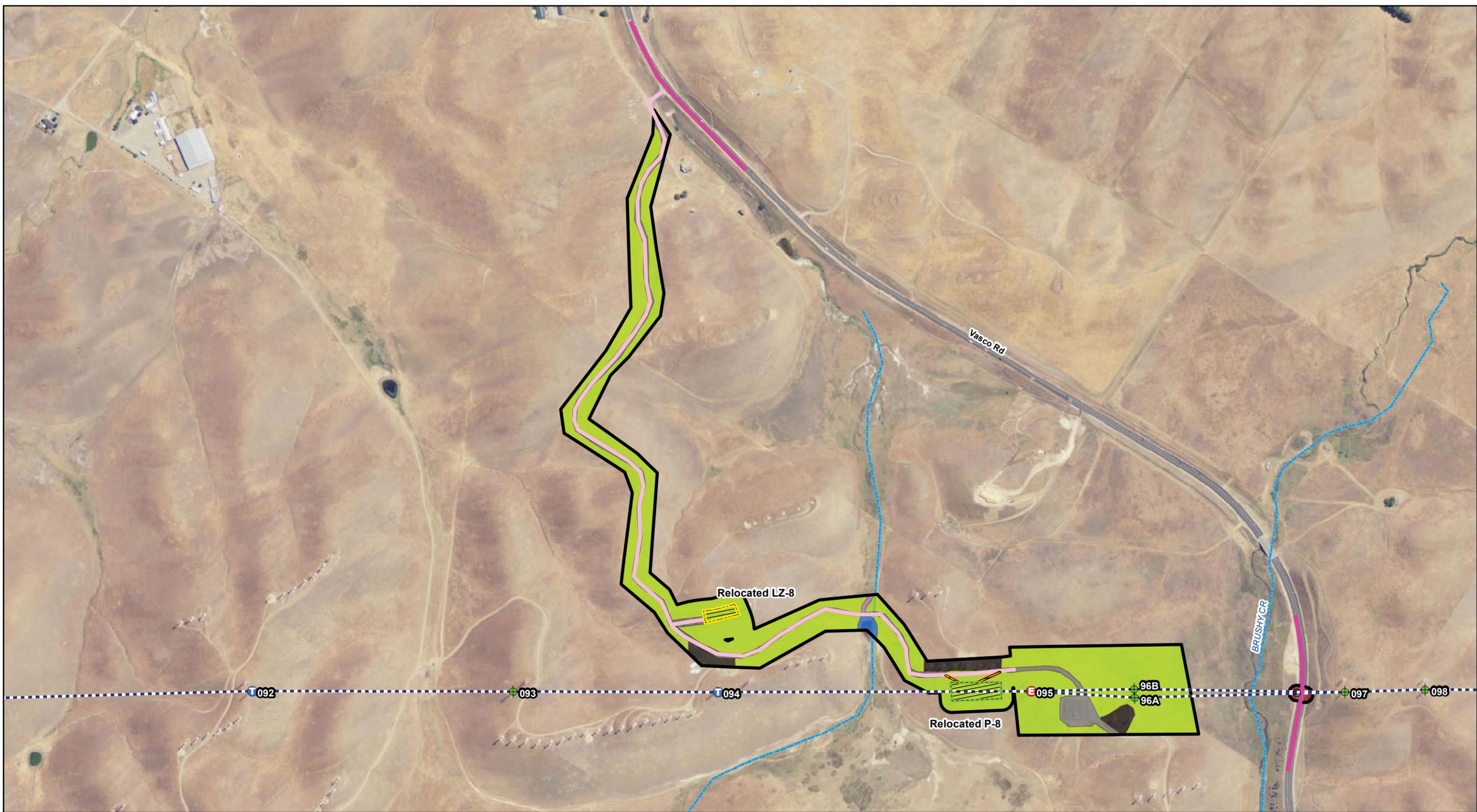
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 20 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

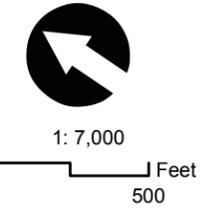
- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Temporary Impact Area
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



Appendix A: Detailed Project and Land Cover Map
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1
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Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

Water Features

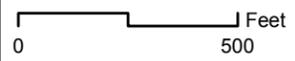
- Creek, Stream
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



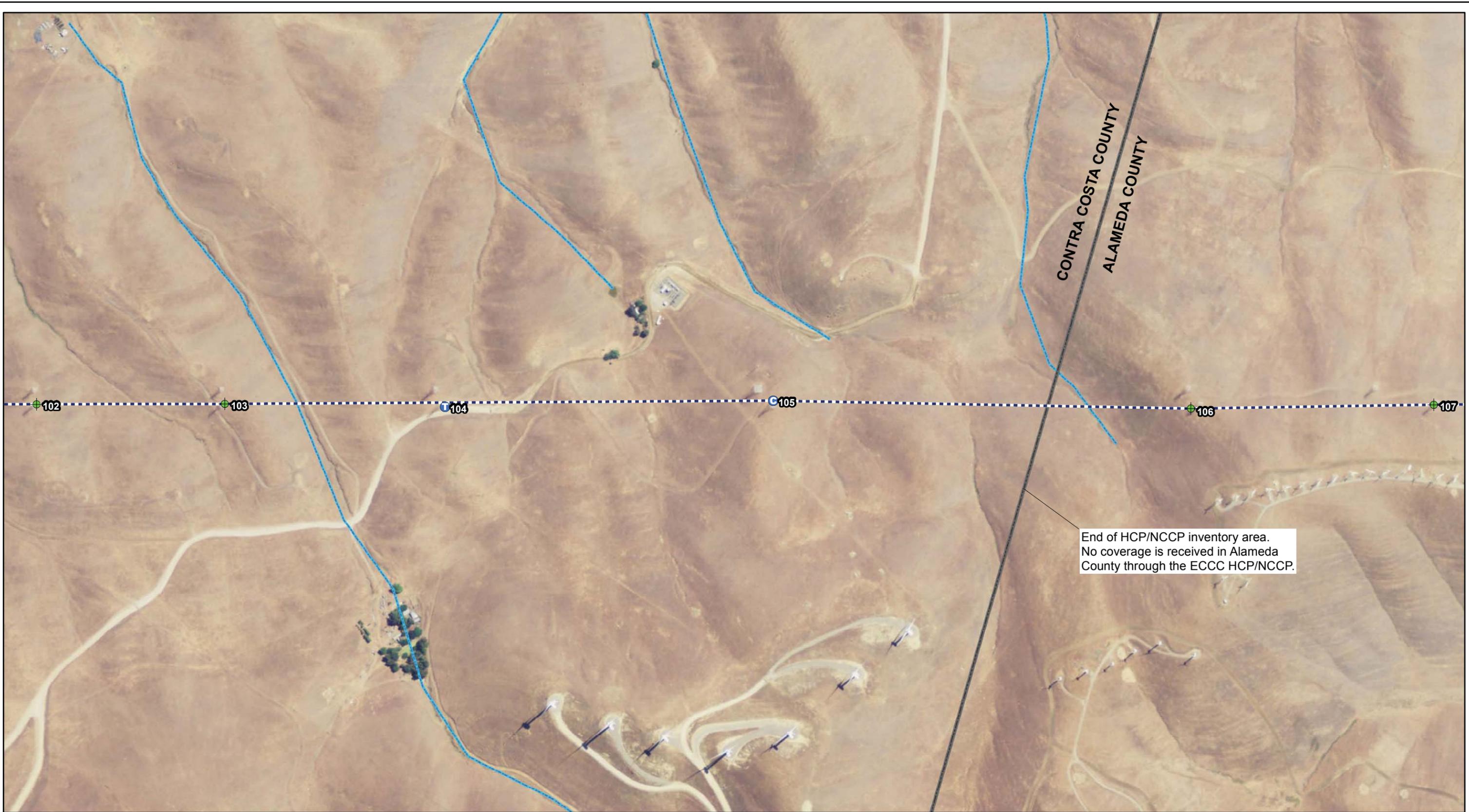
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 22 of 24

Source: GANDA GIS 2014



End of HCP/NCCP inventory area.
No coverage is received in Alameda
County through the ECCC HCP/NCCP.



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

- Paved
- Unpaved (Well-established/Gravel)
- Unimproved

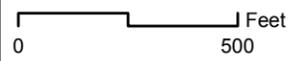
Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines

- Creek, Stream
- Temporary Impact Area



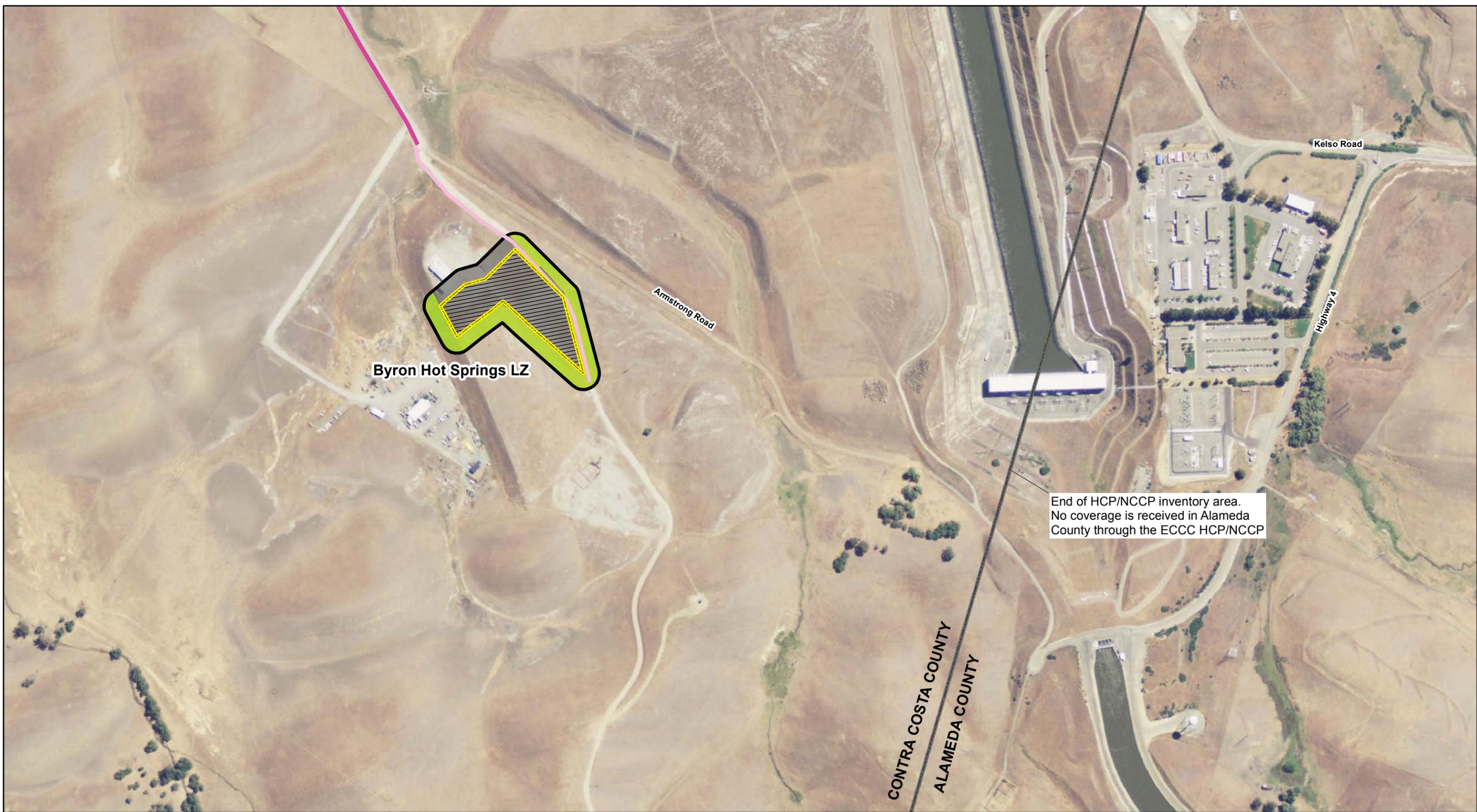
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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 23 of 24

Source: GANDA GIS 2014



Project Features

- Study Area
- Transmission Line
- Pull Site (200x300)
- Staging Area / LZ (200x200)
- Guard / X-ing Structure

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

Access Roads

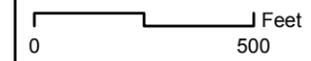
- Creek, Stream
- Paved
- Unpaved (Well-established/Gravel)
- Unimproved
- Temporary Impact Area

Land Cover

- Grassland
- Oak Woodland
- Pasture
- Pond
- Riparian Woodland/Scrub
- Ruderal
- Seasonal Wetland
- Purple Needlegrass Grassland
- Turf
- Urban
- Wind Turbines



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Appendix A: Detailed Project and Land Cover Map
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA
Map 24 of 24

Source: GANDA GIS 2014

Appendix B:
Project Work Area Changes 2013 to 2014– Revision 1



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

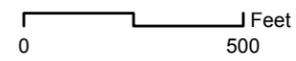
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



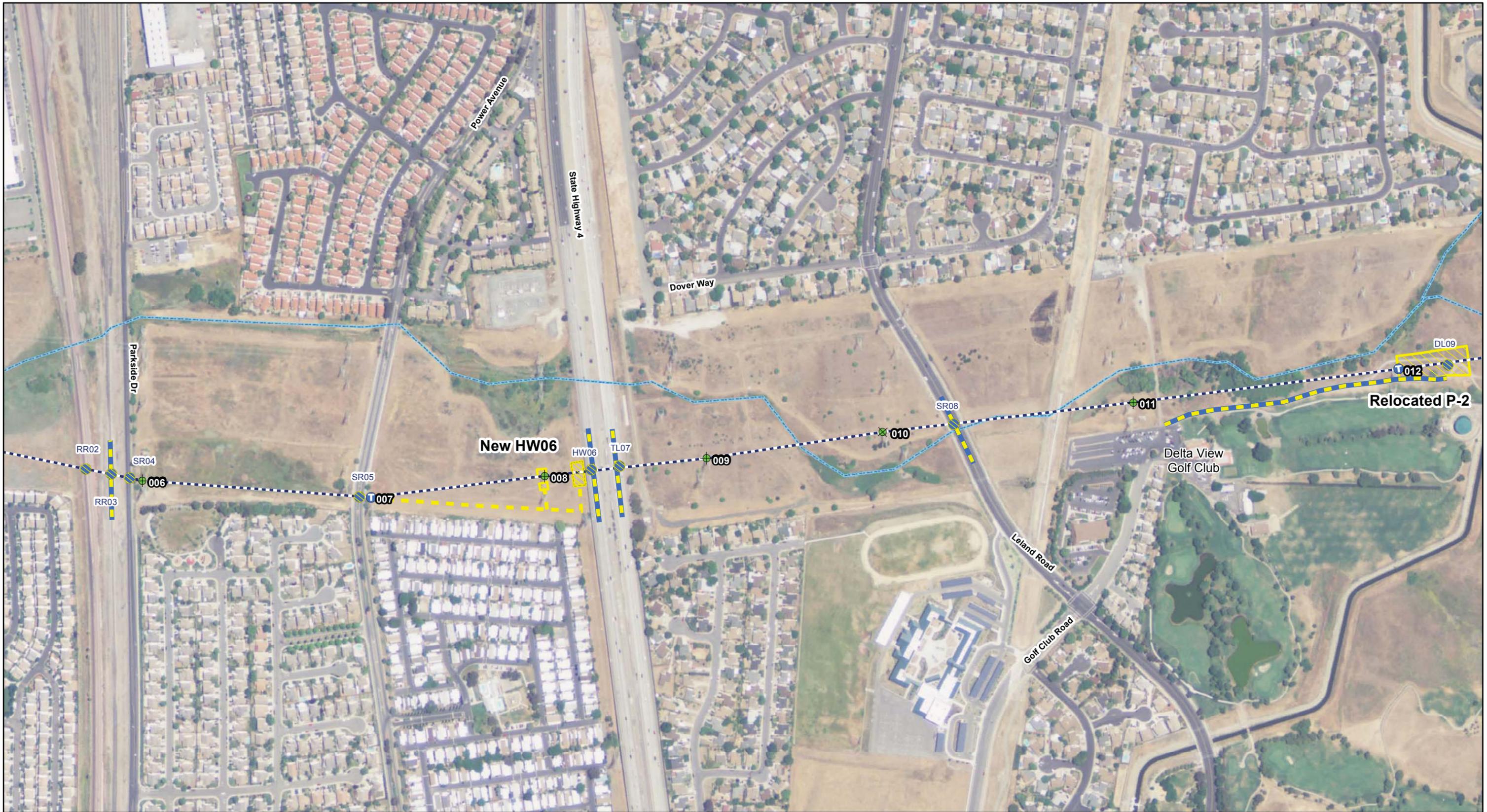
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Appendix B: Project Work Area Changes 2013-2014
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA

Map 1 of 24



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

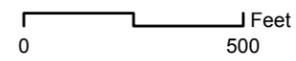
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 2 of 24

Source: GANDA GIS 2014



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

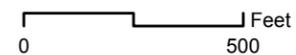
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- + Tower (No Modification)
- E Dead End with Tap
- T Top Cage Extension
- C Top Cage Extension/DE
- F FLO Wind Tap



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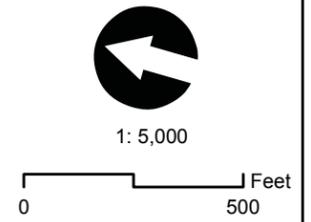
Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 3 of 24



- | | | |
|---|---|---|
|  2014 Project Data |  Transmission Line | Tower Modifications (Helicopter Work Only) |
|  2013 Project Data |  Creek, Stream |  Tower (No Modification) |
|  2014 Access Roads | |  Dead End with Tap |
|  2013 Access Roads | |  Top Cage Extension |
| | |  Top Cage Extension/DE |
| | |  FLO Wind Tap |



Appendix B: Project Work Area Changes 2013-2014
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA

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Source: GANDA GIS 2014



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

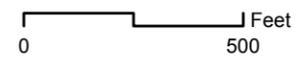
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



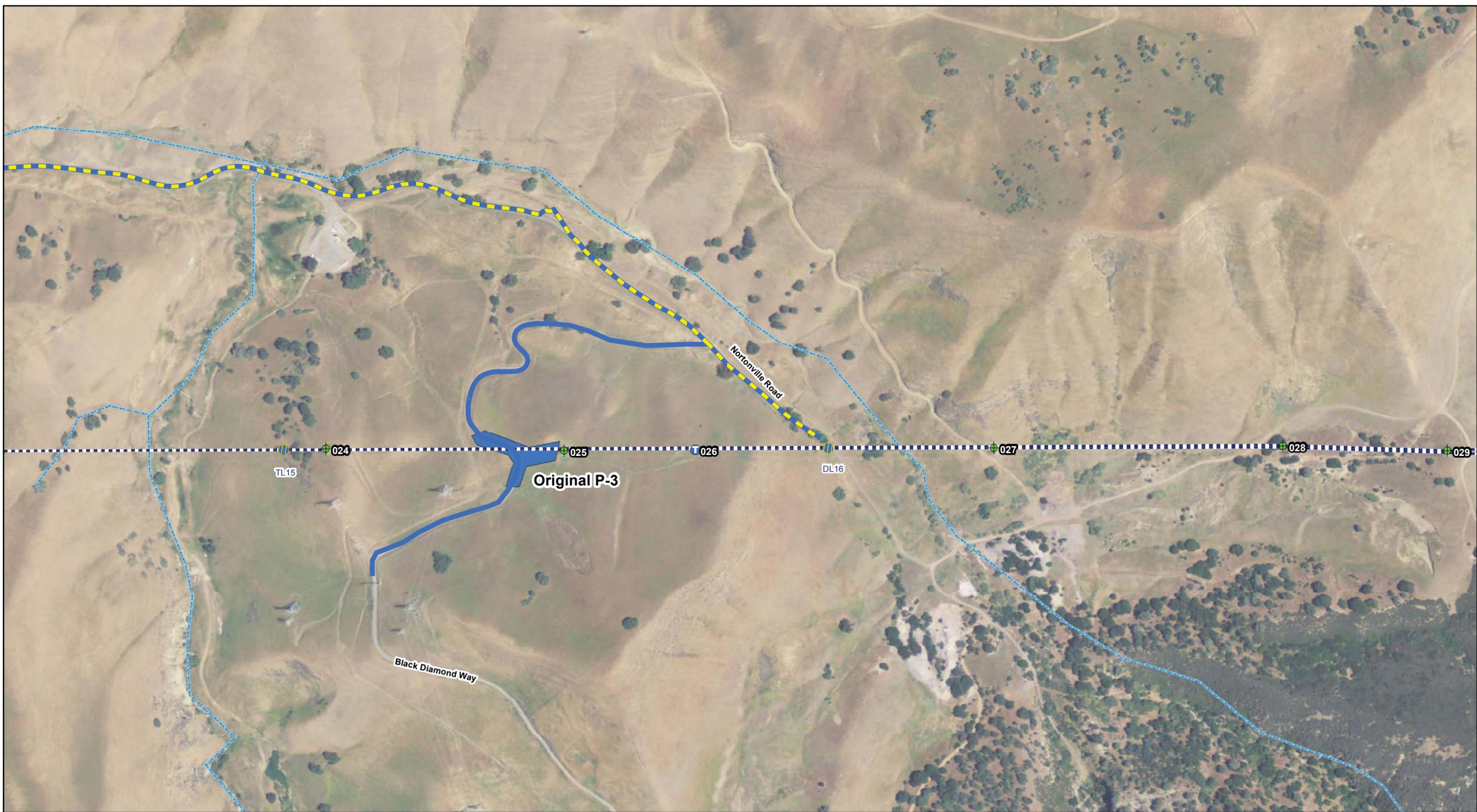
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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 5 of 24



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

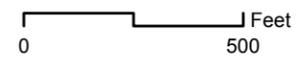
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 6 of 24



-  2014 Project Data
-  2013 Project Data
-  2014 Access Roads
-  2013 Access Roads

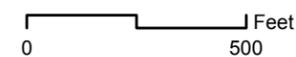
-  Transmission Line
-  Creek, Stream

Tower Modifications (Helicopter Work Only)

-  Tower (No Modification)
-  Dead End with Tap
-  Top Cage Extension
-  Top Cage Extension/DE
-  FLO Wind Tap



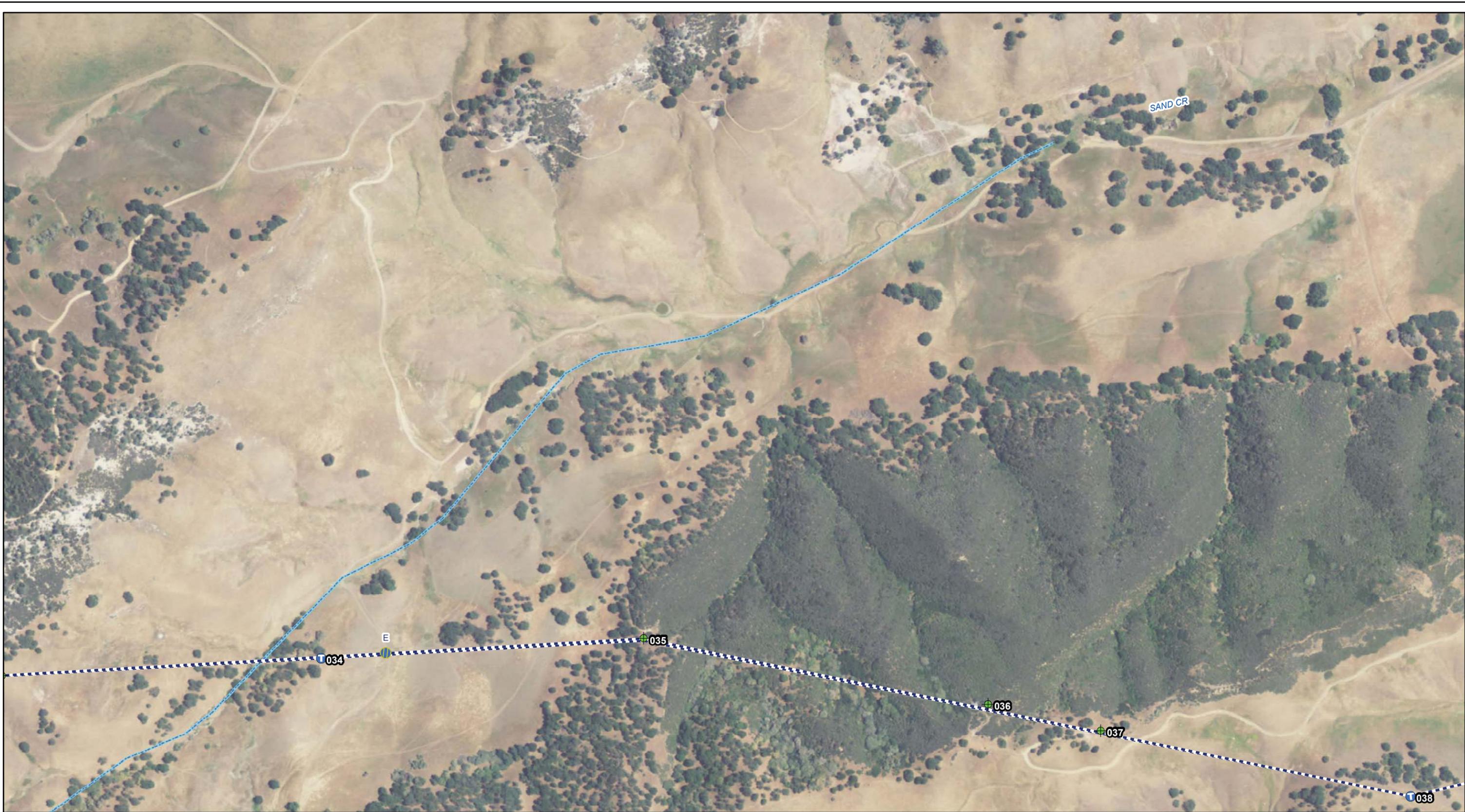
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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

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-  2014 Project Data
-  2013 Project Data
-  2014 Access Roads
-  2013 Access Roads

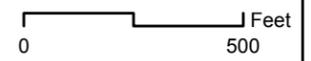
-  Transmission Line
-  Creek, Stream

Tower Modifications (Helicopter Work Only)

-  Tower (No Modification)
-  Dead End with Tap
-  Top Cage Extension
-  Top Cage Extension/DE
-  FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

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- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

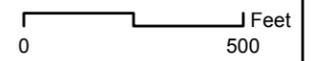
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA

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Source: GANDA GIS 2014



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

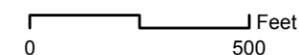
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA

Map 10 of 24



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

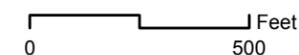
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



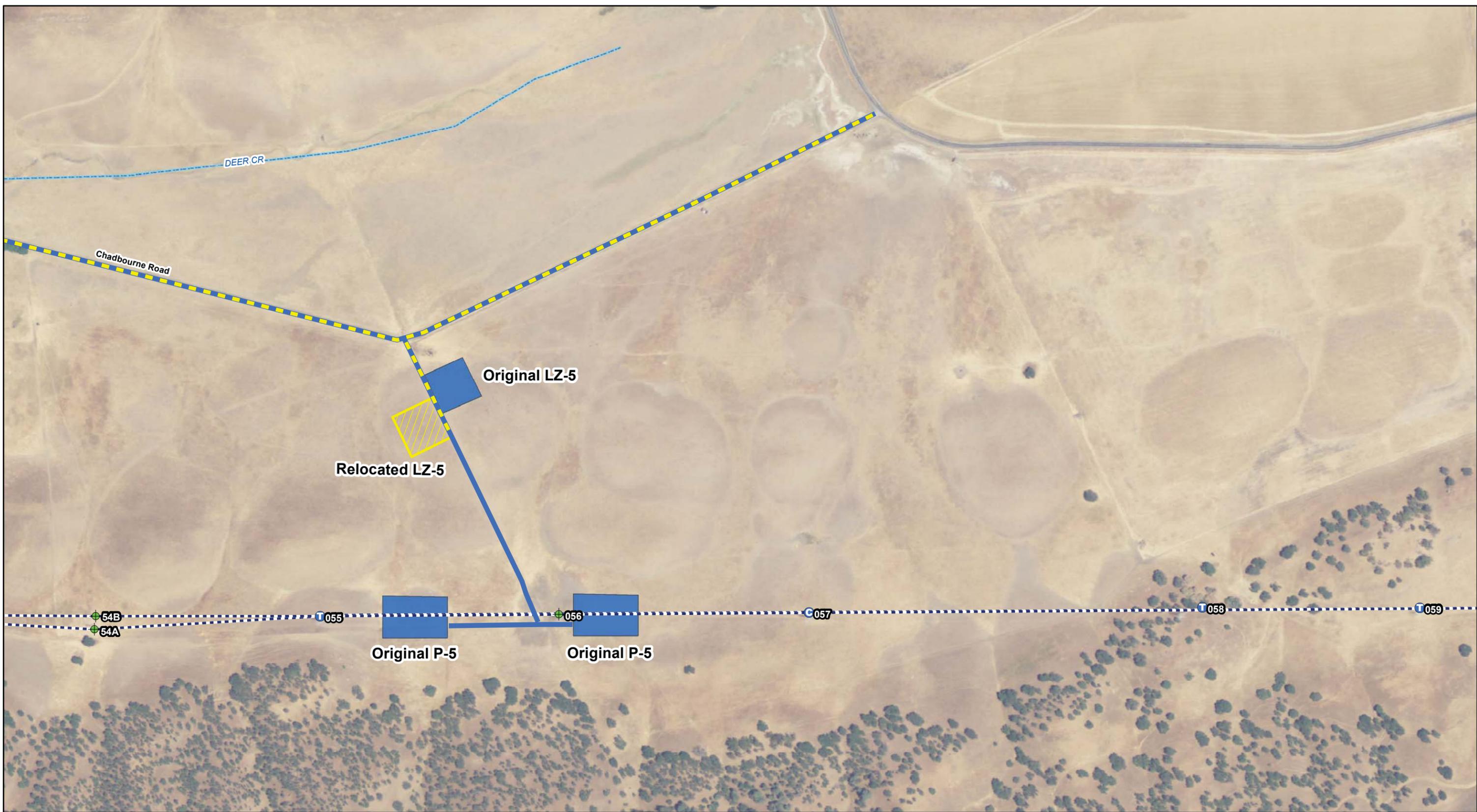
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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

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- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

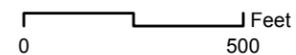
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 12 of 24



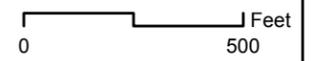
-  2014 Project Data
-  2013 Project Data
-  2014 Access Roads
-  2013 Access Roads

-  Transmission Line
-  Creek, Stream

- Tower Modifications (Helicopter Work Only)**
-  Tower (No Modification)
 -  Dead End with Tap
 -  Top Cage Extension
 -  Top Cage Extension/DE
 -  FLO Wind Tap



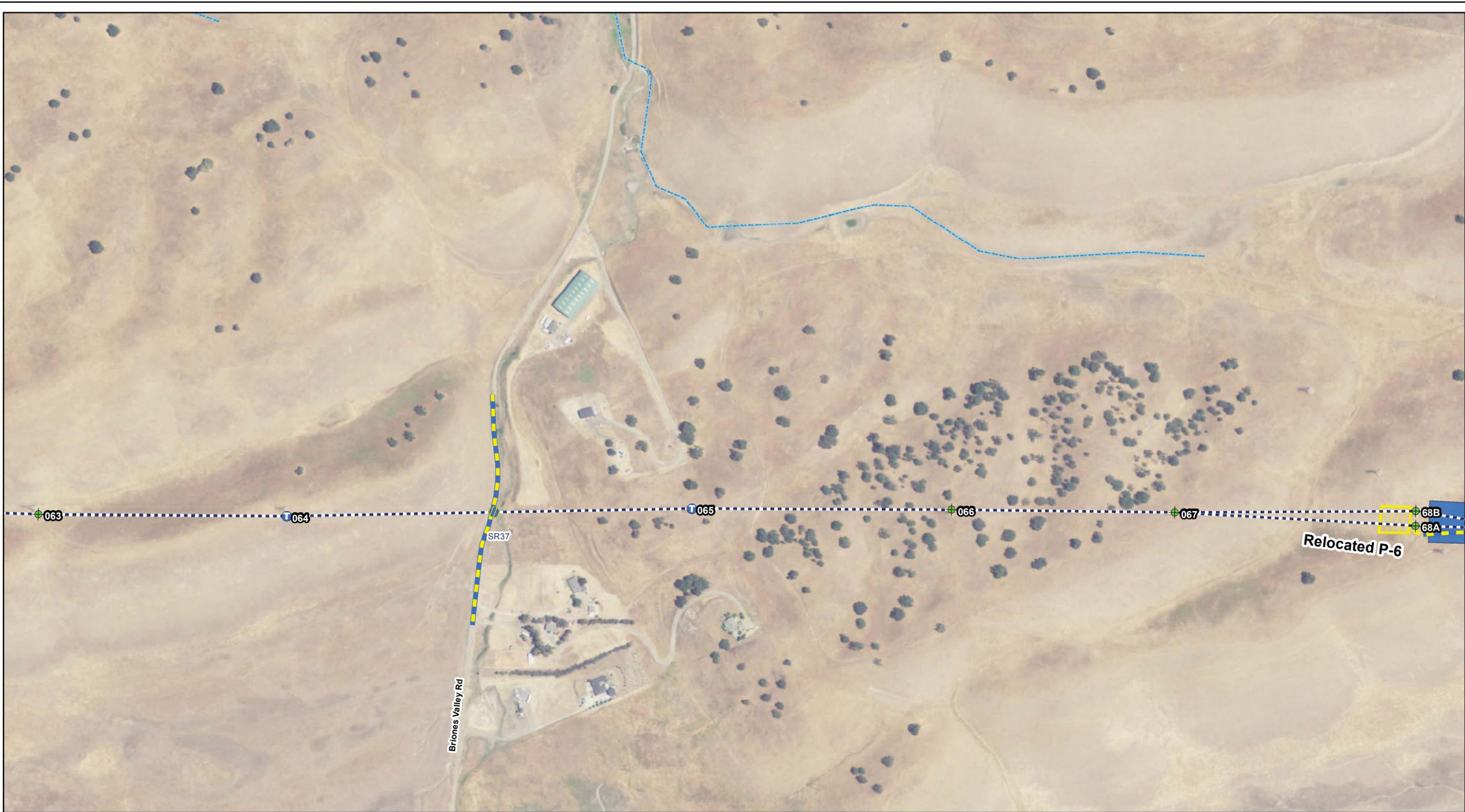
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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

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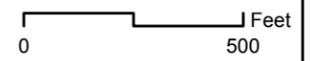
- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

- Transmission Line
- Creek, Stream

- Tower Modifications (Helicopter Work Only)**
- Tower (No Modification)
 - Dead End with Tap
 - Top Cage Extension
 - Top Cage Extension/DE
 - FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA

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Source: GANDA GIS 2014



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

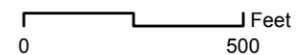
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 15 of 24



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

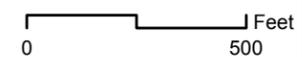
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 16 of 24



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

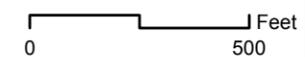
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

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- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

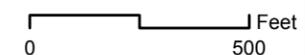
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



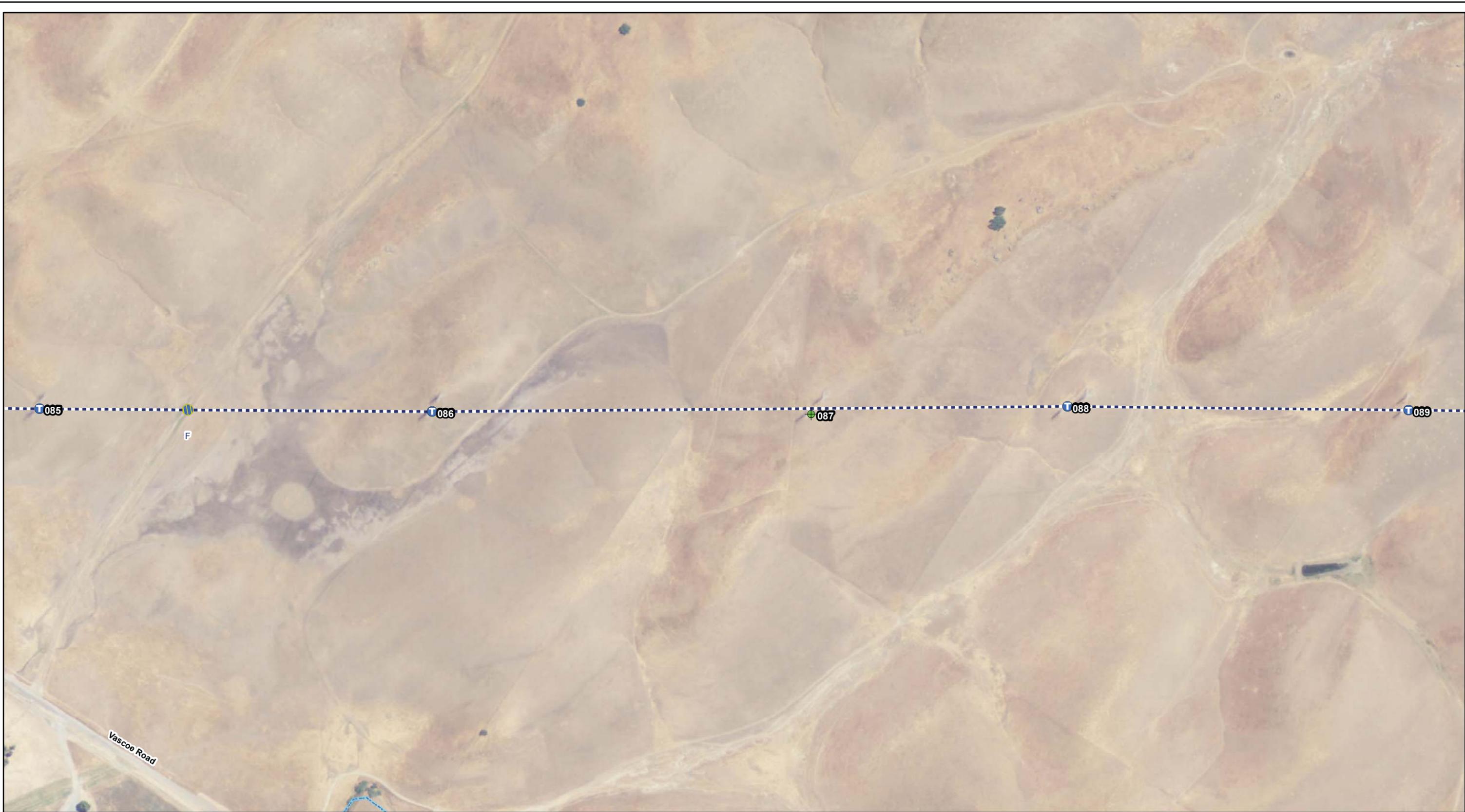
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Appendix B: Project Work Area Changes 2013-2014
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA

Map 18 of 24



-  2014 Project Data
-  2013 Project Data
-  2014 Access Roads
-  2013 Access Roads

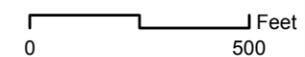
-  Transmission Line
-  Creek, Stream

Tower Modifications (Helicopter Work Only)

-  Tower (No Modification)
-  Dead End with Tap
-  Top Cage Extension
-  Top Cage Extension/DE
-  FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconducting Project
REVISION 1

February 2014
Contra Costa County, CA

Map 19 of 24



-  2014 Project Data
-  2013 Project Data
-  2014 Access Roads
-  2013 Access Roads

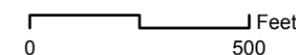
-  Transmission Line
-  Creek, Stream

Tower Modifications (Helicopter Work Only)

-  Tower (No Modification)
-  Dead End with Tap
-  Top Cage Extension
-  Top Cage Extension/DE
-  FLO Wind Tap



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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

Map 20 of 24

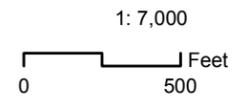


- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap

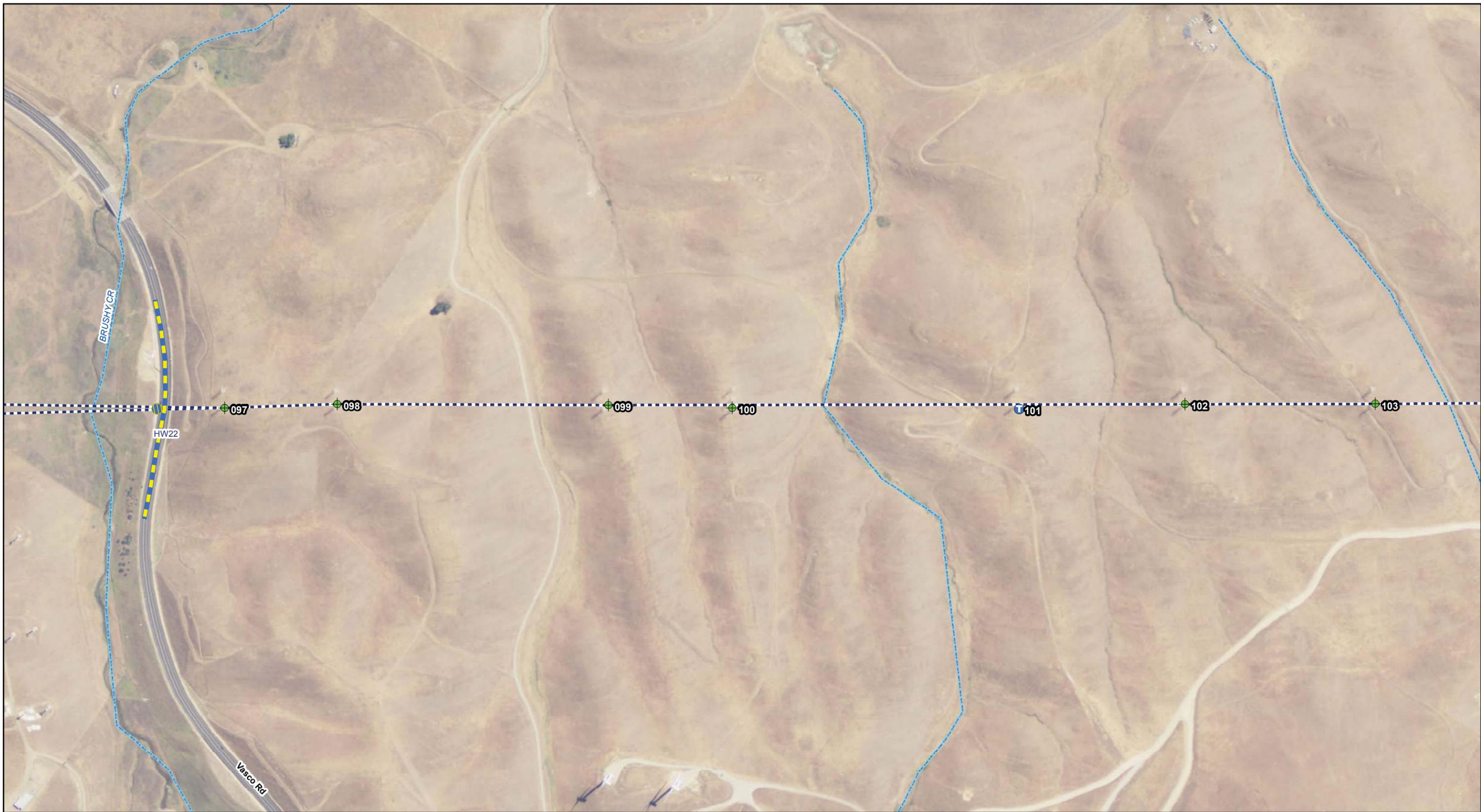


Appendix B: Project Work Area Changes 2013-2014
 Pittsburg Tesla 230kV Reconductoring Project
 REVISION 1

February 2014
 Contra Costa County, CA

Map 21 of 24

Source: GANDA GIS 2014



-  2014 Project Data
-  2013 Project Data
-  2014 Access Roads
-  2013 Access Roads

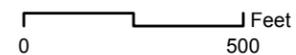
-  Transmission Line
-  Creek, Stream

Tower Modifications (Helicopter Work Only)

-  Tower (No Modification)
-  Dead End with Tap
-  Top Cage Extension
-  Top Cage Extension/DE
-  FLO Wind Tap



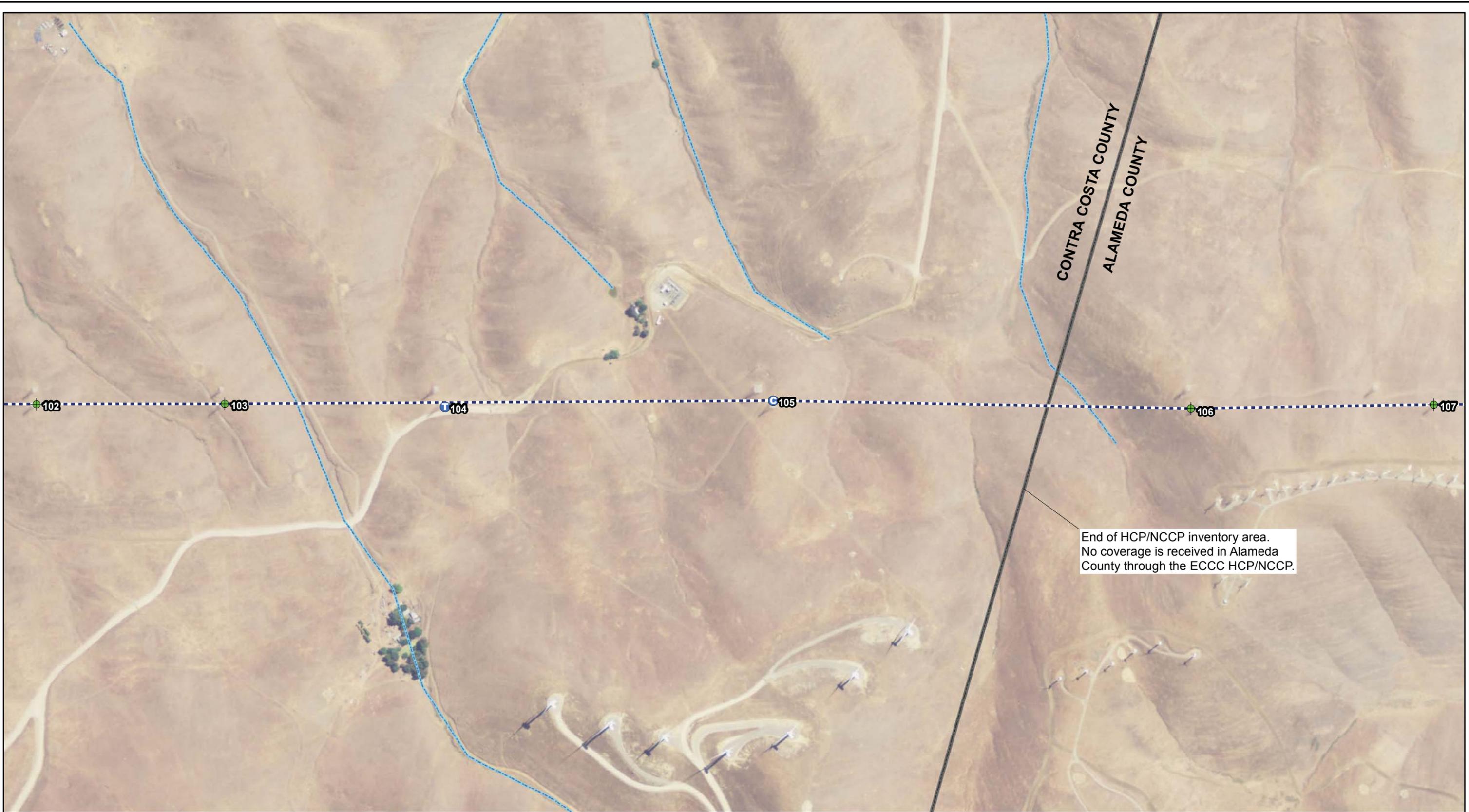
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Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconducting Project
REVISION 1

February 2014
Contra Costa County, CA

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End of HCP/NCCP inventory area.
No coverage is received in Alameda
County through the ECCC HCP/NCCP.

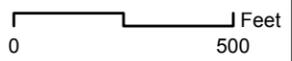


- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads
- Transmission Line
- Creek, Stream

- Tower Modifications (Helicopter Work Only)**
- Tower (No Modification)
 - Dead End with Tap
 - Top Cage Extension
 - Top Cage Extension/DE
 - FLO Wind Tap



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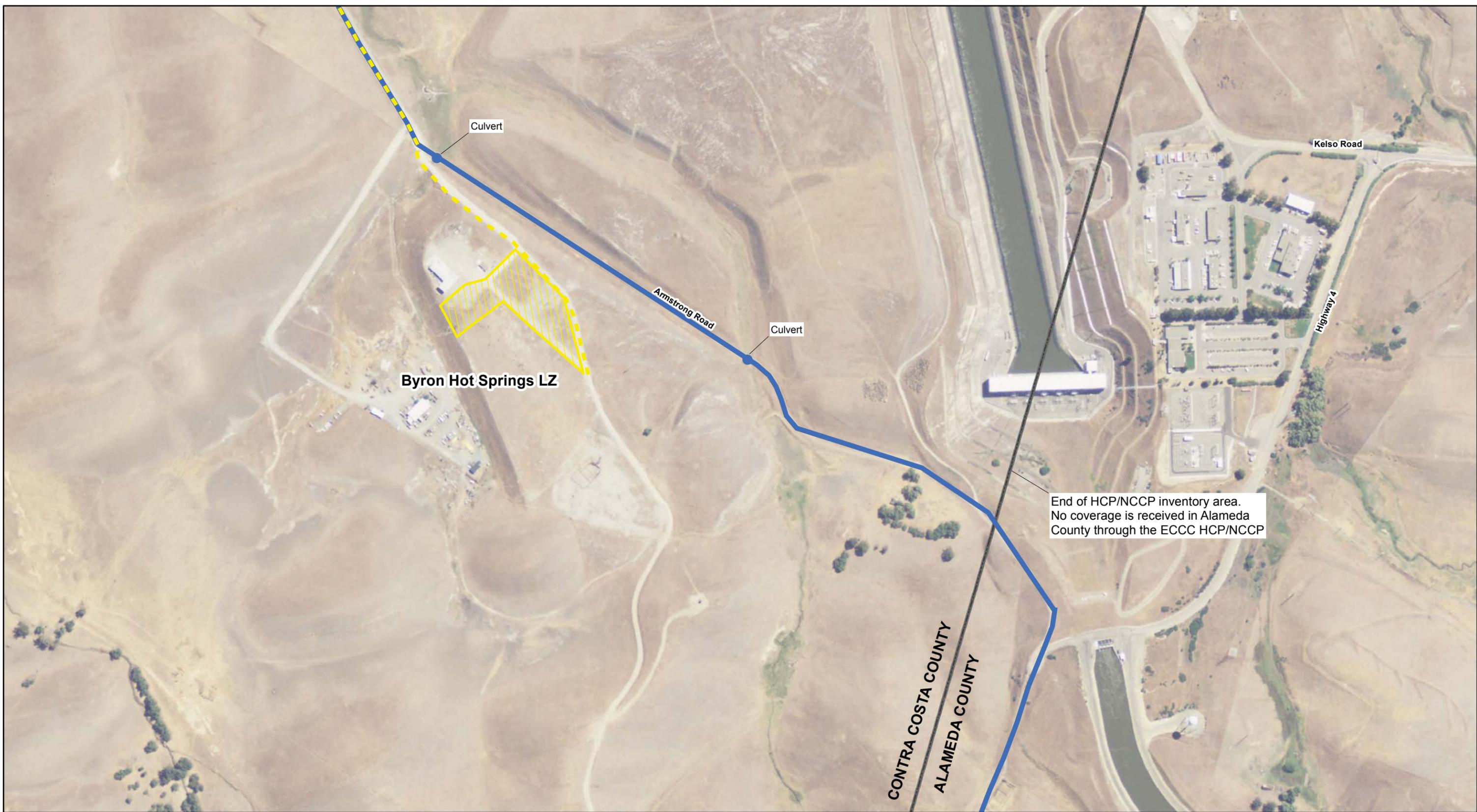


Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

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Source: GANDA GIS 2014



- 2014 Project Data
- 2013 Project Data
- 2014 Access Roads
- 2013 Access Roads

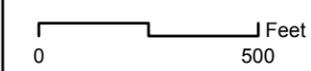
- Transmission Line
- Creek, Stream

Tower Modifications (Helicopter Work Only)

- Tower (No Modification)
- Dead End with Tap
- Top Cage Extension
- Top Cage Extension/DE
- FLO Wind Tap



1: 5,000



Appendix B: Project Work Area Changes 2013-2014
Pittsburg Tesla 230kV Reconductoring Project
REVISION 1

February 2014
Contra Costa County, CA

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Source: GANDA GIS 2014

**Appendix C:
Photographs of Select Work Areas**



Photograph 1. Relocated LZ-2 on developed surface, January 7, 2014.



Photograph 2. Relocated LZ-3 on developed surface. January 7, 2014.



Photograph 3. Relocated LZ-5, February 2012. Original LZ-5 was on the south (left) side of the fenceline. Relocated LZ-5 is north (right) of the fenceline in the same pasture habitat.



Photograph 4. Relocated LZ-8, in annual grassland land cover. January 30, 2014.



Photograph 5. New Byron Hot Springs Staging Area/Landing Zone (Byron Hot Springs LZ) on developed surface. January 31, 2014.