

DOCKETED	
Docket Number:	24-OPT-04
Project Title:	Potentia-Viridi Battery Energy Storage System
TN #:	260826
Document Title:	DR Response 1 - Appendix C Part 5, DPRs to Attachment 1, Revised Cultural Resources Inventory and Evaluation Report
Description:	Part 5 of the DPR forms that are included as Appendix C of the Revised Cultural Resources Inventory and Evaluation Report
Filer:	Ronelle Candia
Organization:	Dudek
Submitter Role:	Applicant Consultant
Submission Date:	12/26/2024 8:25:03 AM
Docketed Date:	12/26/2024

Attachment 1 Appendix C Part 5

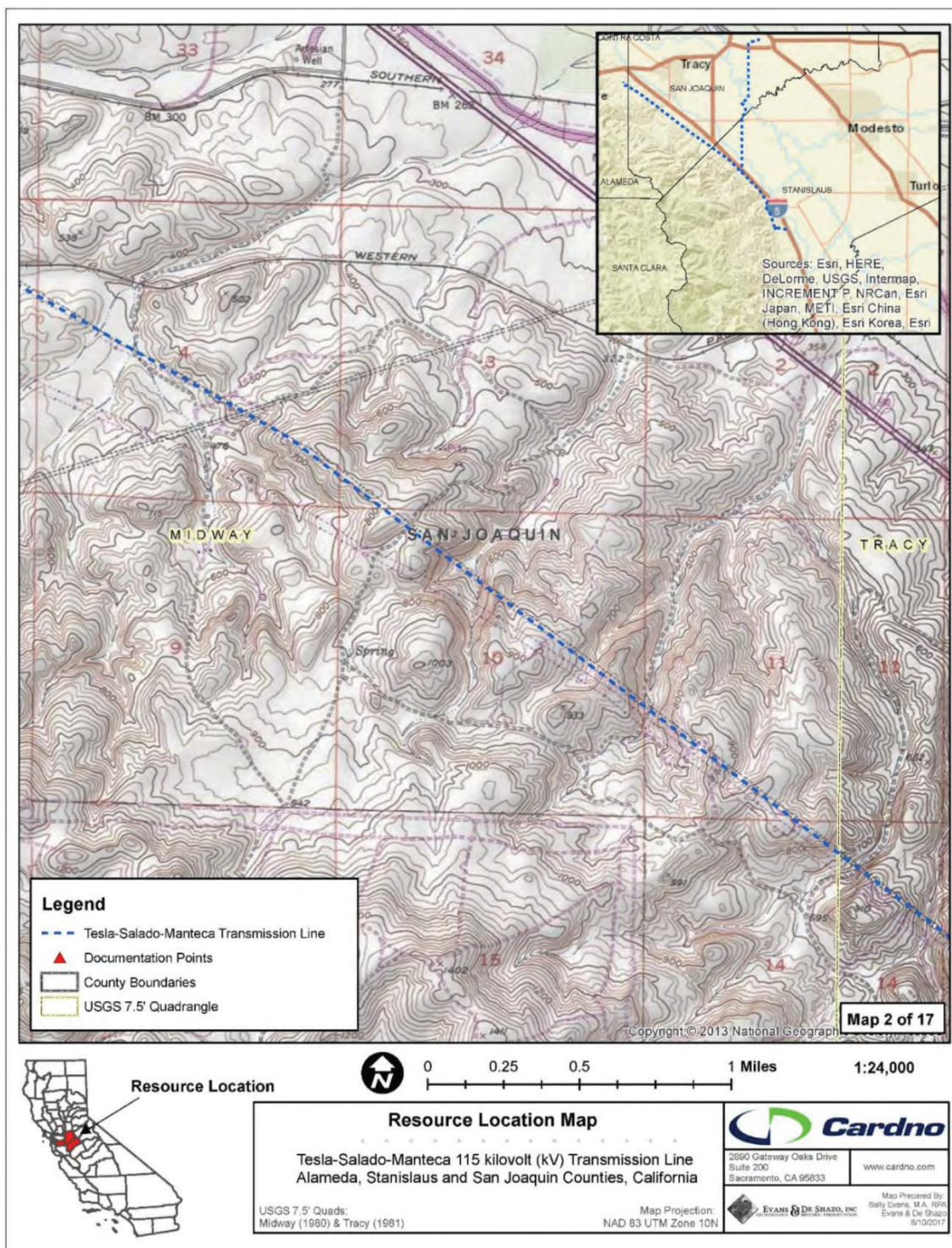
Revised Cultural Resources
Inventory and Evaluation
Report:DPRs

LOCATION MAP

Page 21 of 36

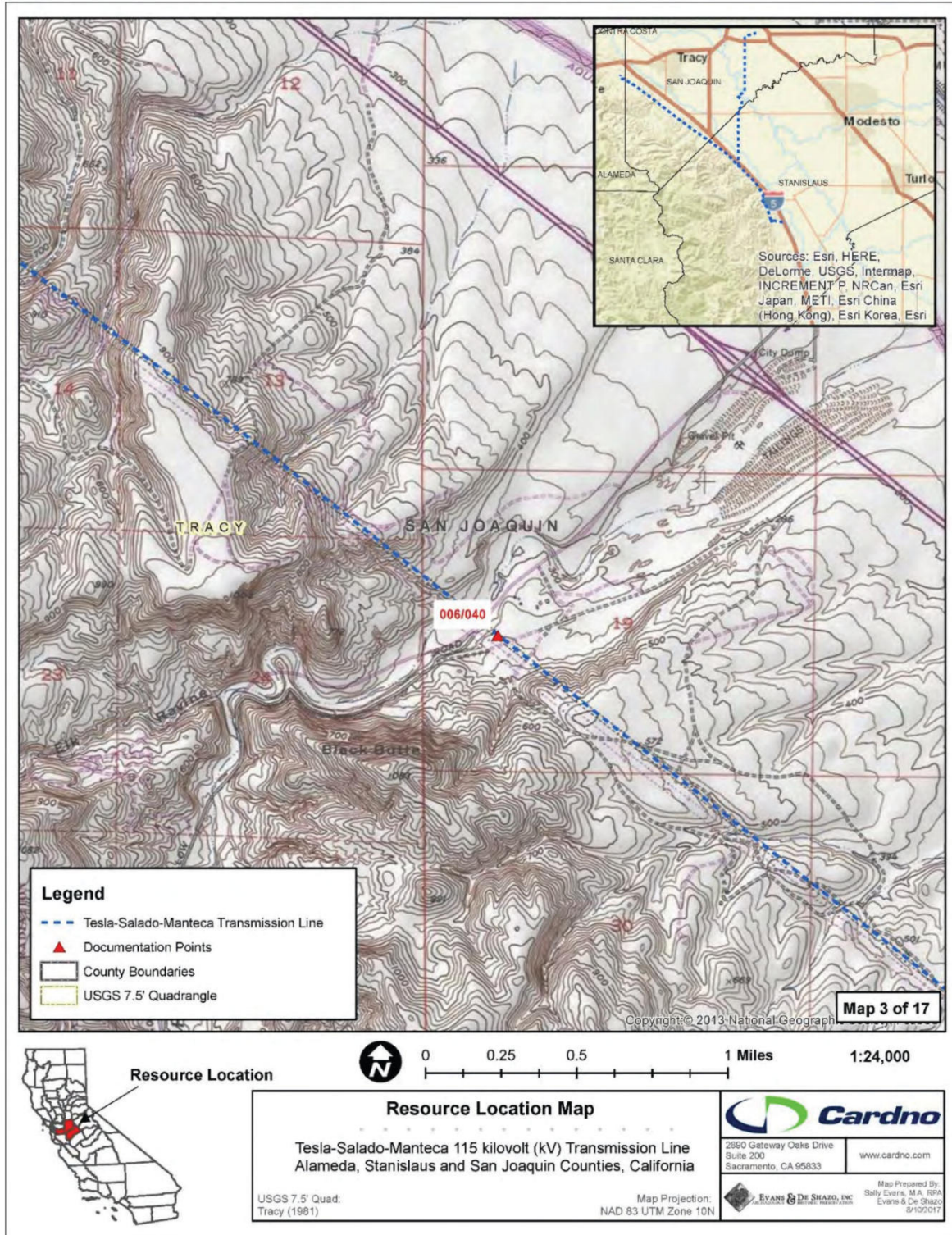
*Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line

*Map Name: Midway, Calif. and Tracy *Scale: 1:24,000 *Date of map: 1980



LOCATION MAP

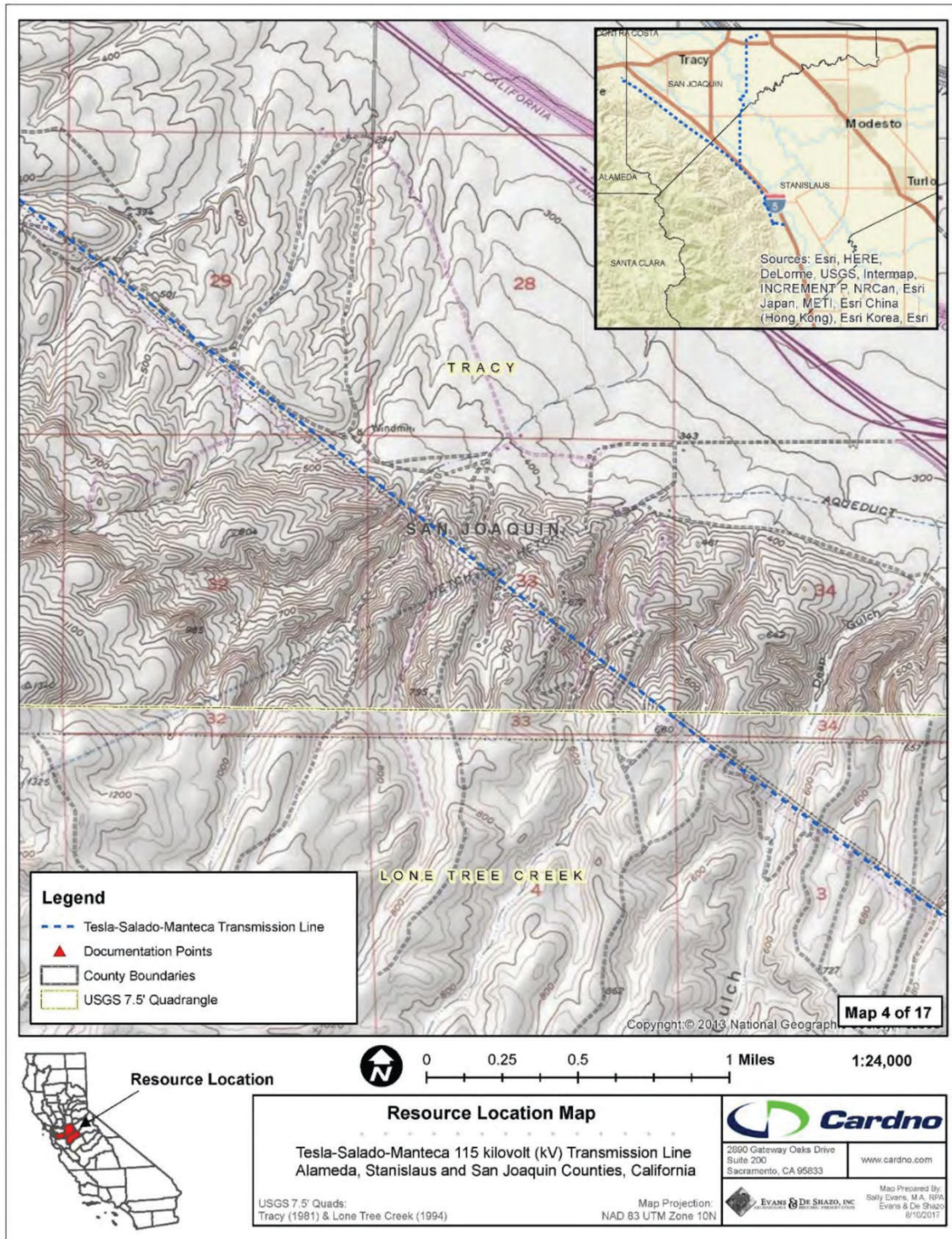
Page 22 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Tracy, Calif. *Scale: 1:24,000 *Date of map: 1981



LOCATION MAP

Page 23 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line

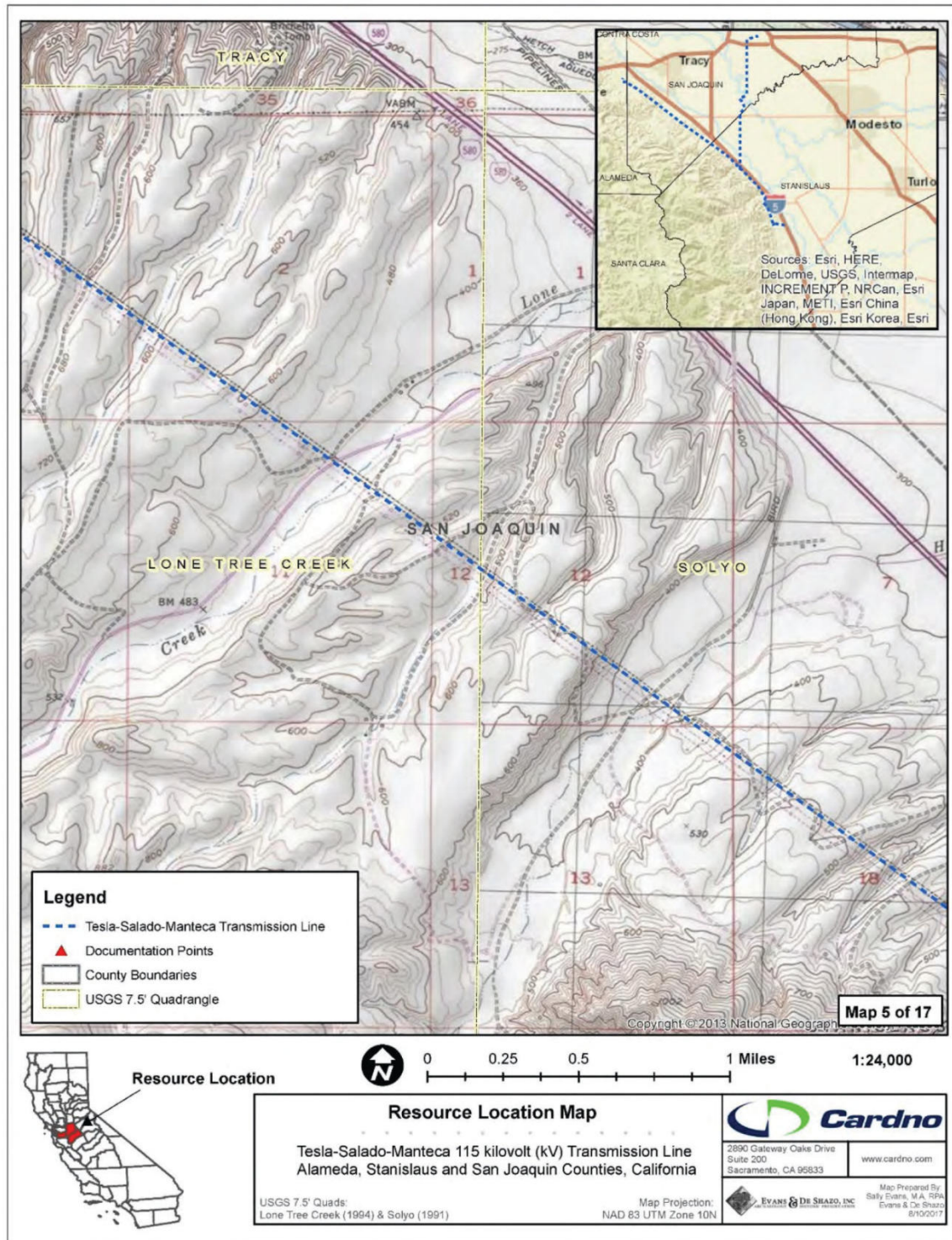
*Map Name: Tracy, Calif. *Scale: 1:24,000 *Date of map: 1981
and Lone Tree Creek



LOCATION MAP

Page 24 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line

*Map Name: Solyo, Calif. *Scale: 1:24,000 *Date of map: 1991
and Lone Tree Creek



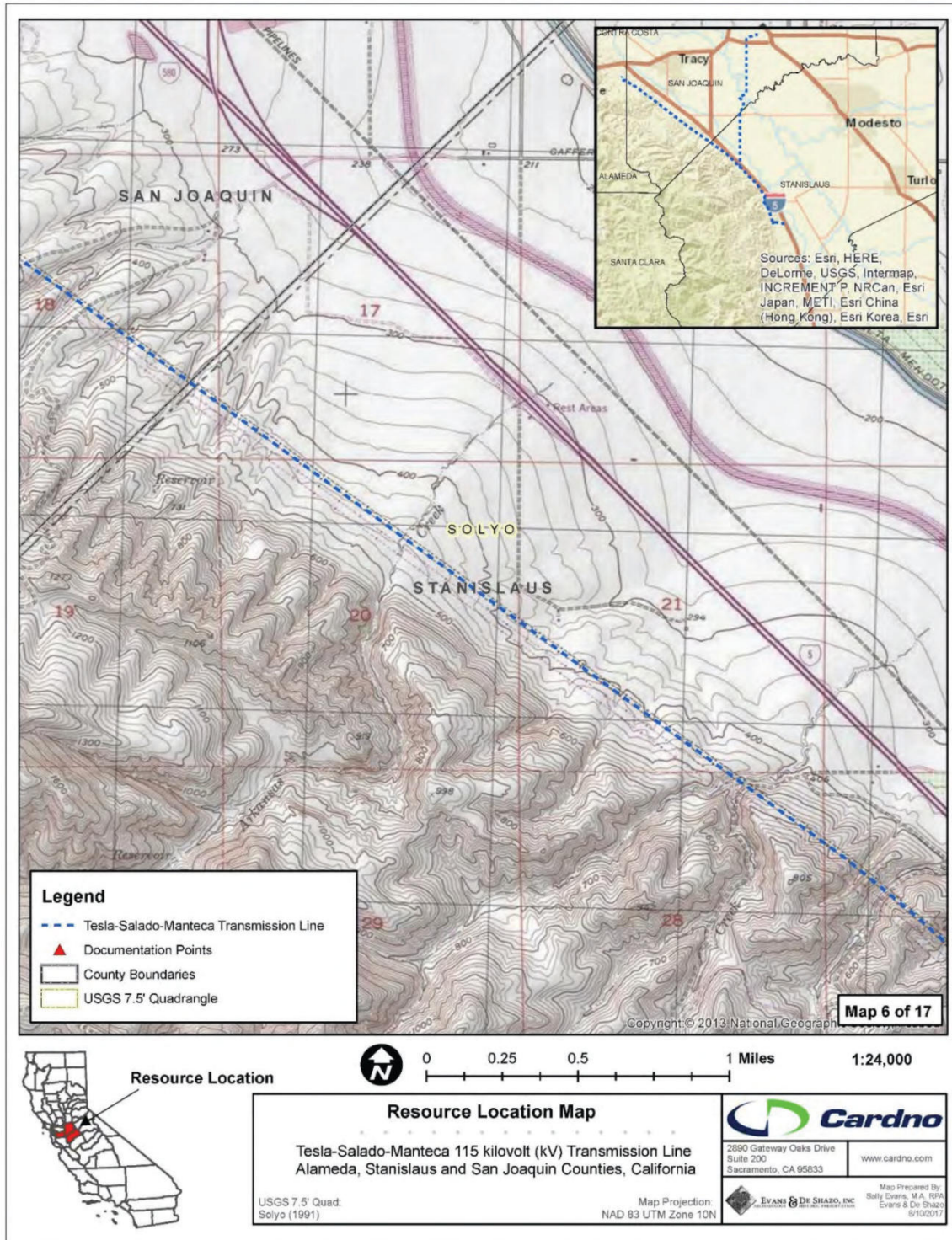
LOCATION MAP

Page 25 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line

*Map Name: Solyo, Calif. *Scale: 1:24,000 *Date of map: 1991

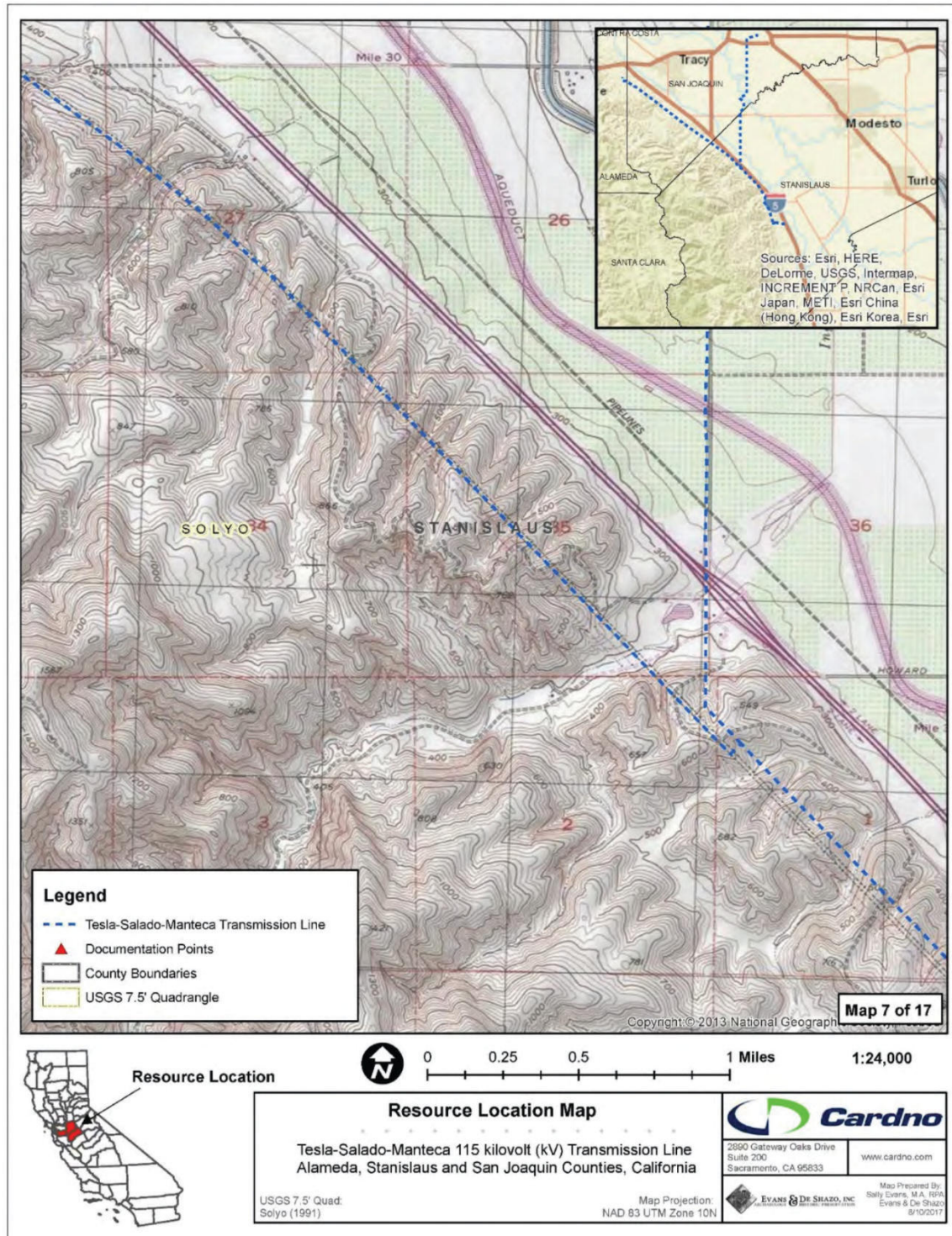
SJO Co.

STA Co.



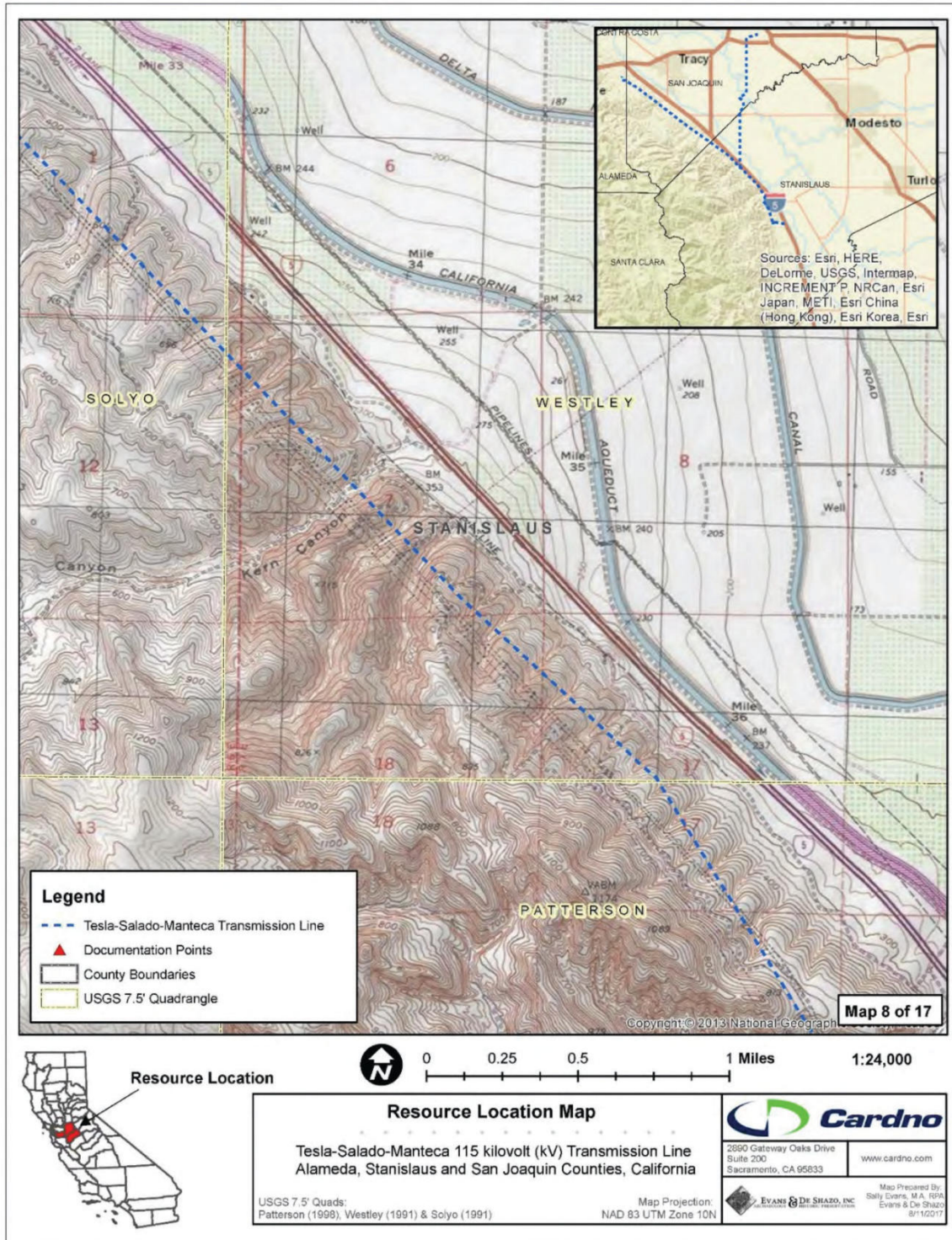
LOCATION MAP

Page 26 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Solyo, Calif. *Scale: 1:24,000 *Date of map: 1991



LOCATION MAP

Page 27 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Patterson, Westley, Solyo, Calif. *Scale: 1:24,000 *Date of map: 1991

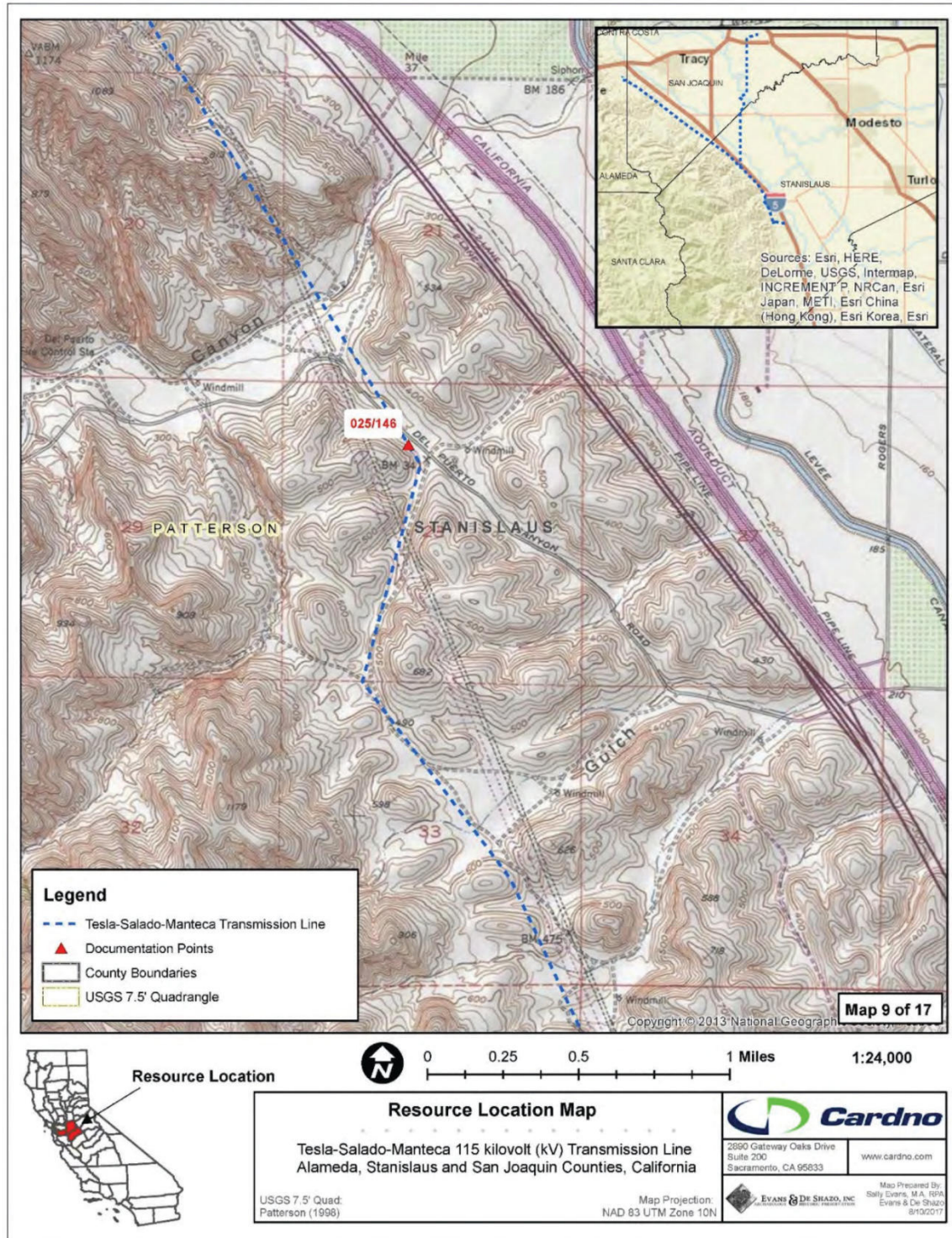


LOCATION MAP

Page 28 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line

*Map Name: ~~Solys, Westley, Calif.~~ *Scale: 1:24,000 *Date of map: 1991

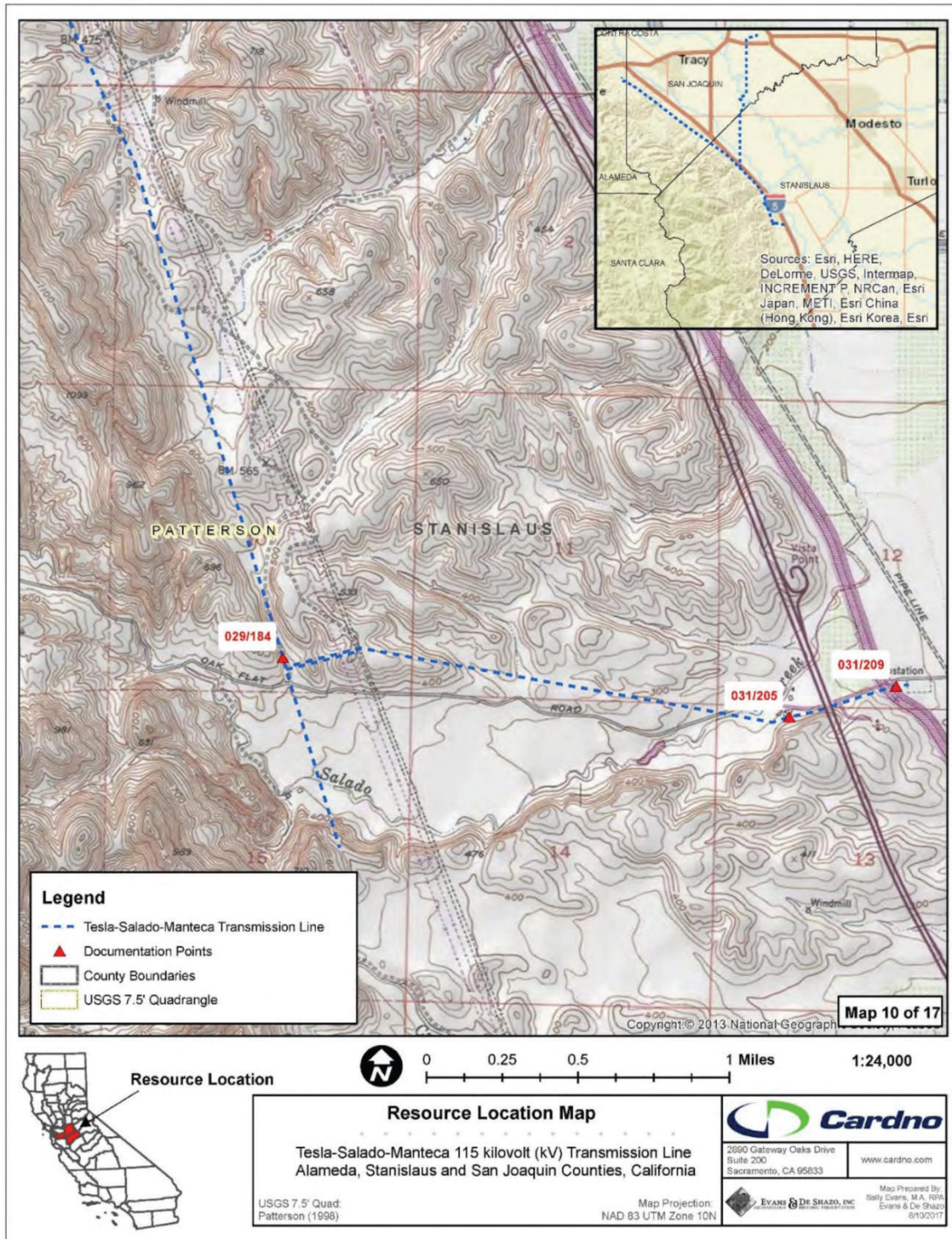
Patterson



LOCATION MAP

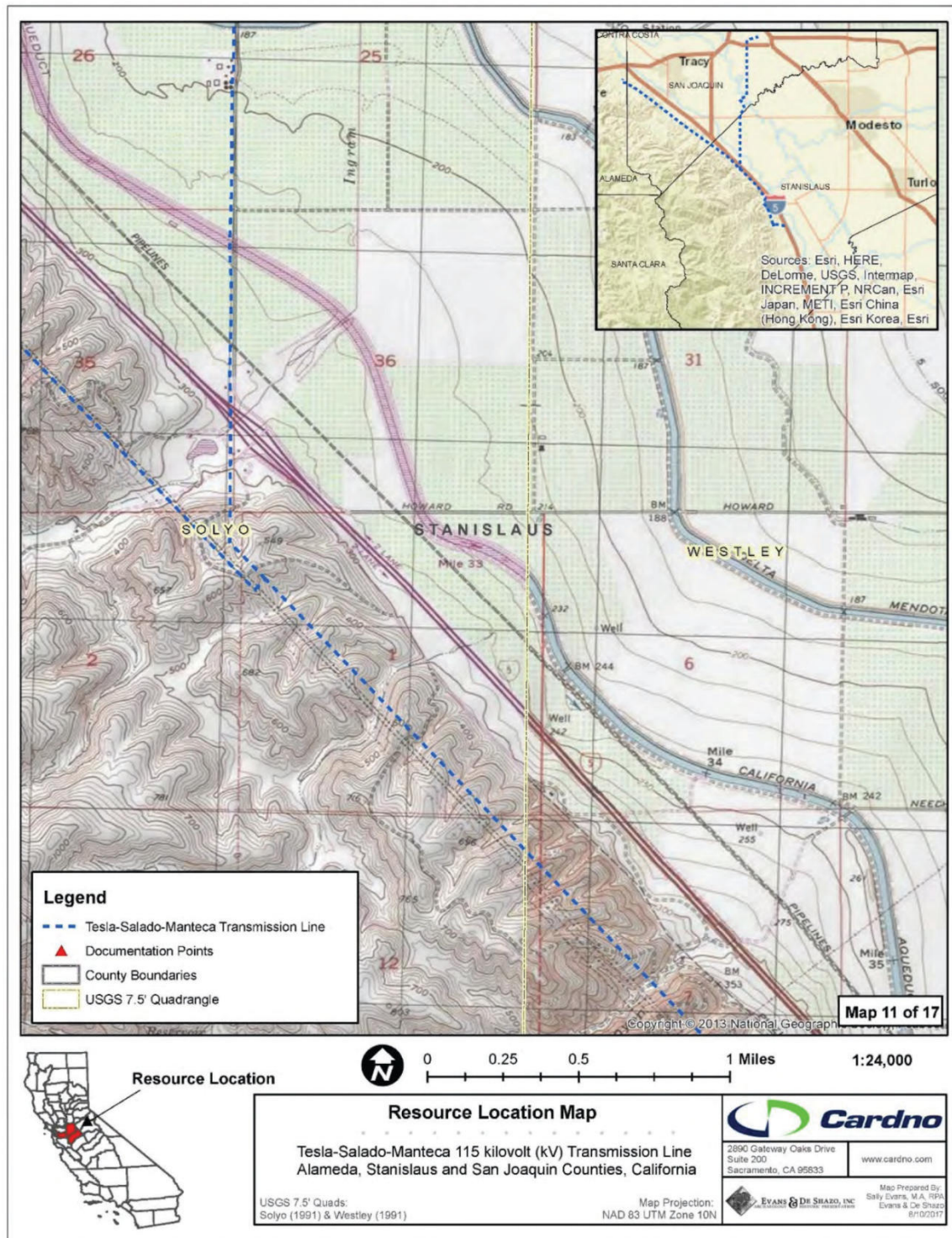
Page 29 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line

*Map Name: ~~SJO Co. Westley, Calif.~~ *Scale: 1:24,000 *Date of map: 1991
Patterson



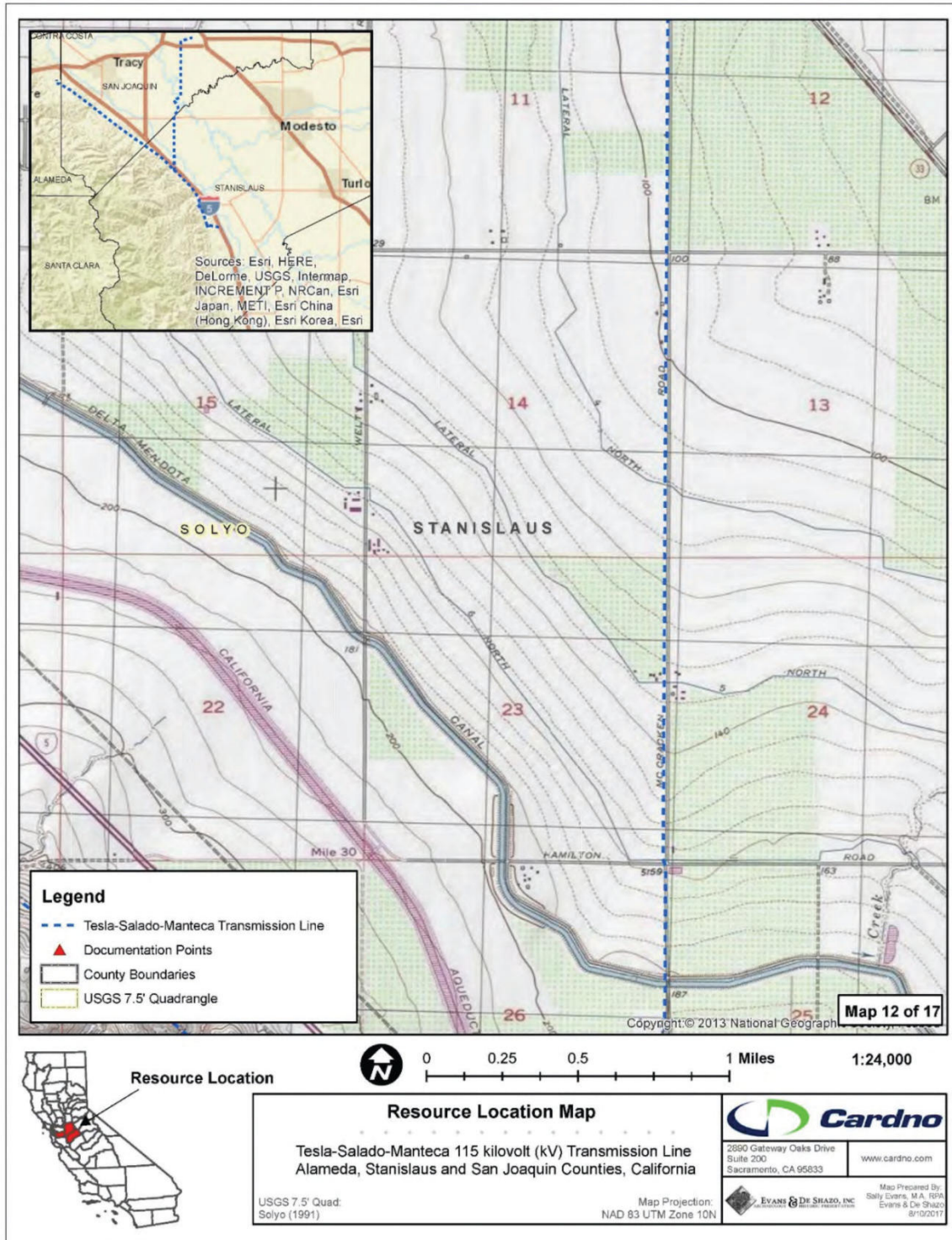
LOCATION MAP

Page 30 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Solyo, Westley, Calif. *Scale: 1:24,000 *Date of map: 1991



LOCATION MAP

Page 31 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Solyo, Calif. *Scale: 1:24,000 *Date of map: 1991



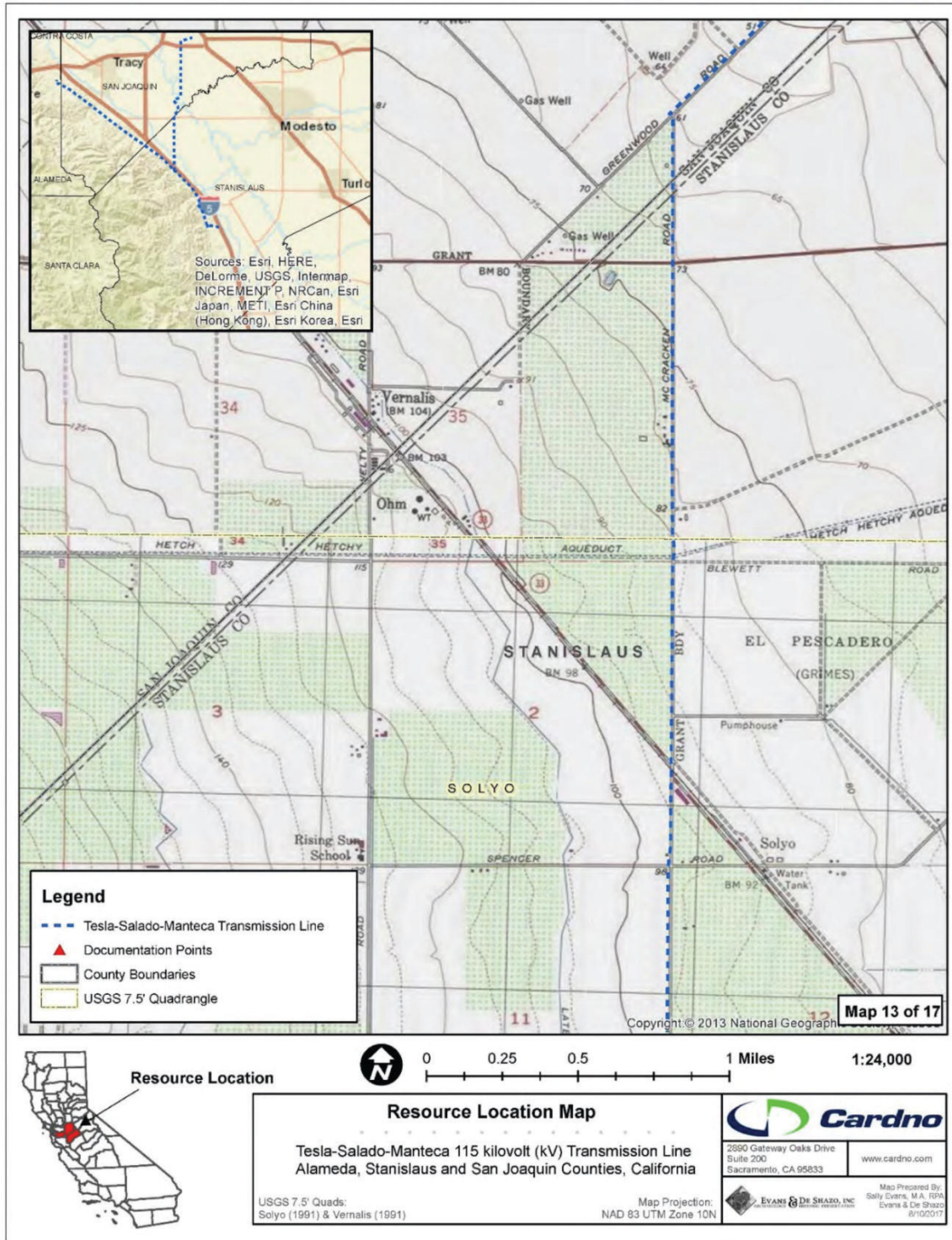
LOCATION MAP

Page 32 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line

*Map Name: Vernalis, Calif. and Solyo *Scale: 1:24,000 *Date of map: 1991

SJO Co.

STA Co.

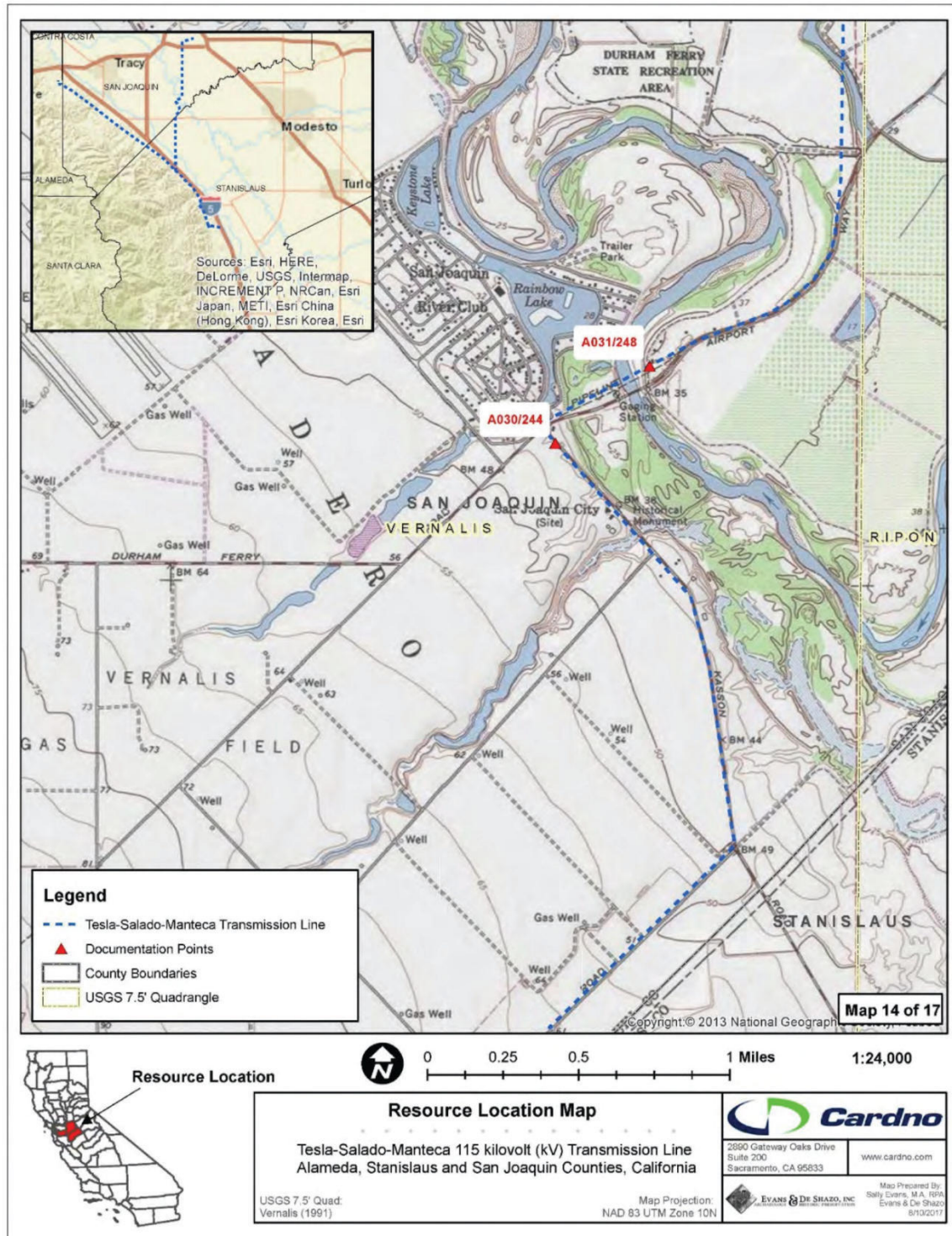


LOCATION MAP

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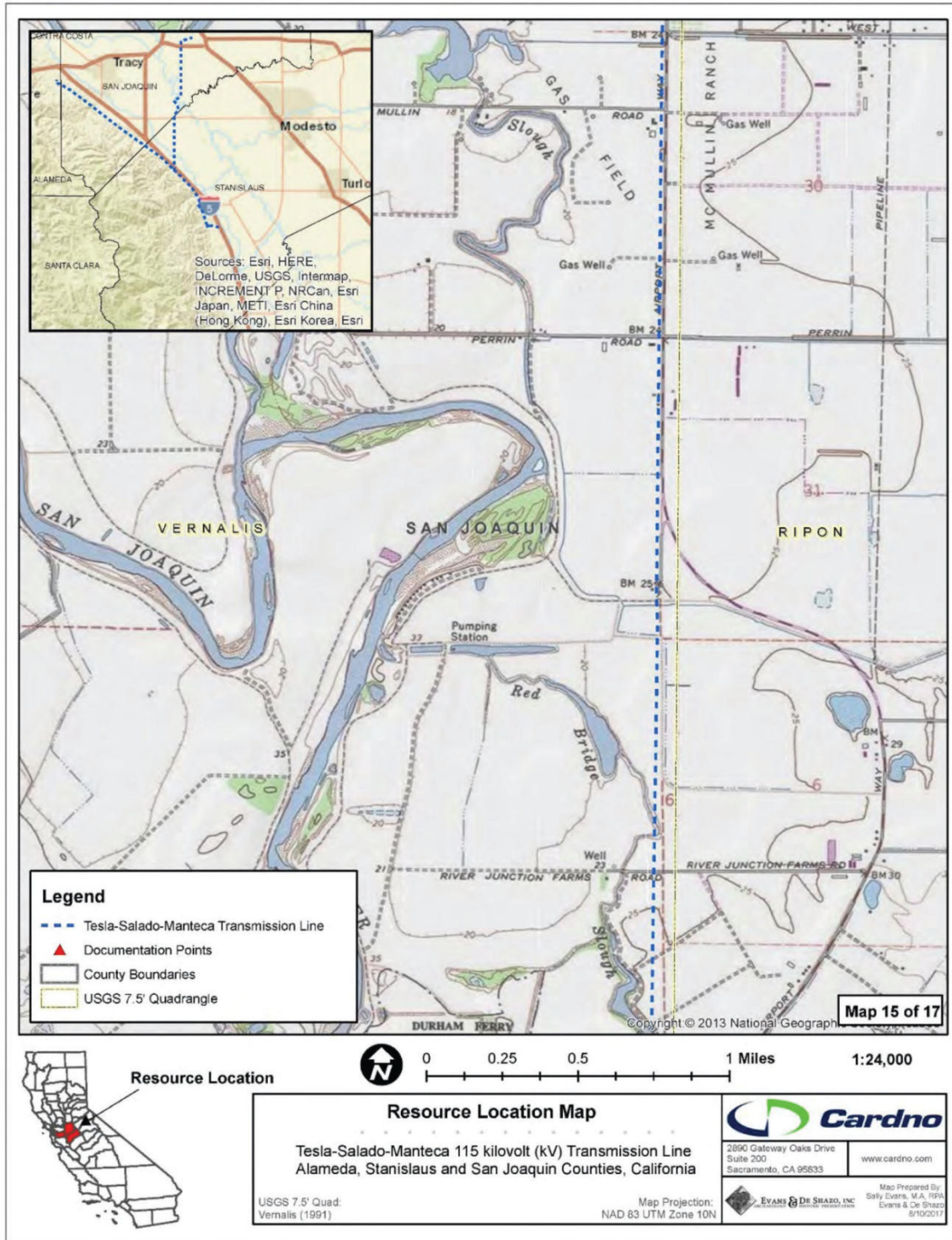
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*Map Name: Vernalis, Calif. *Scale: 1:24,000 *Date of map: 1991



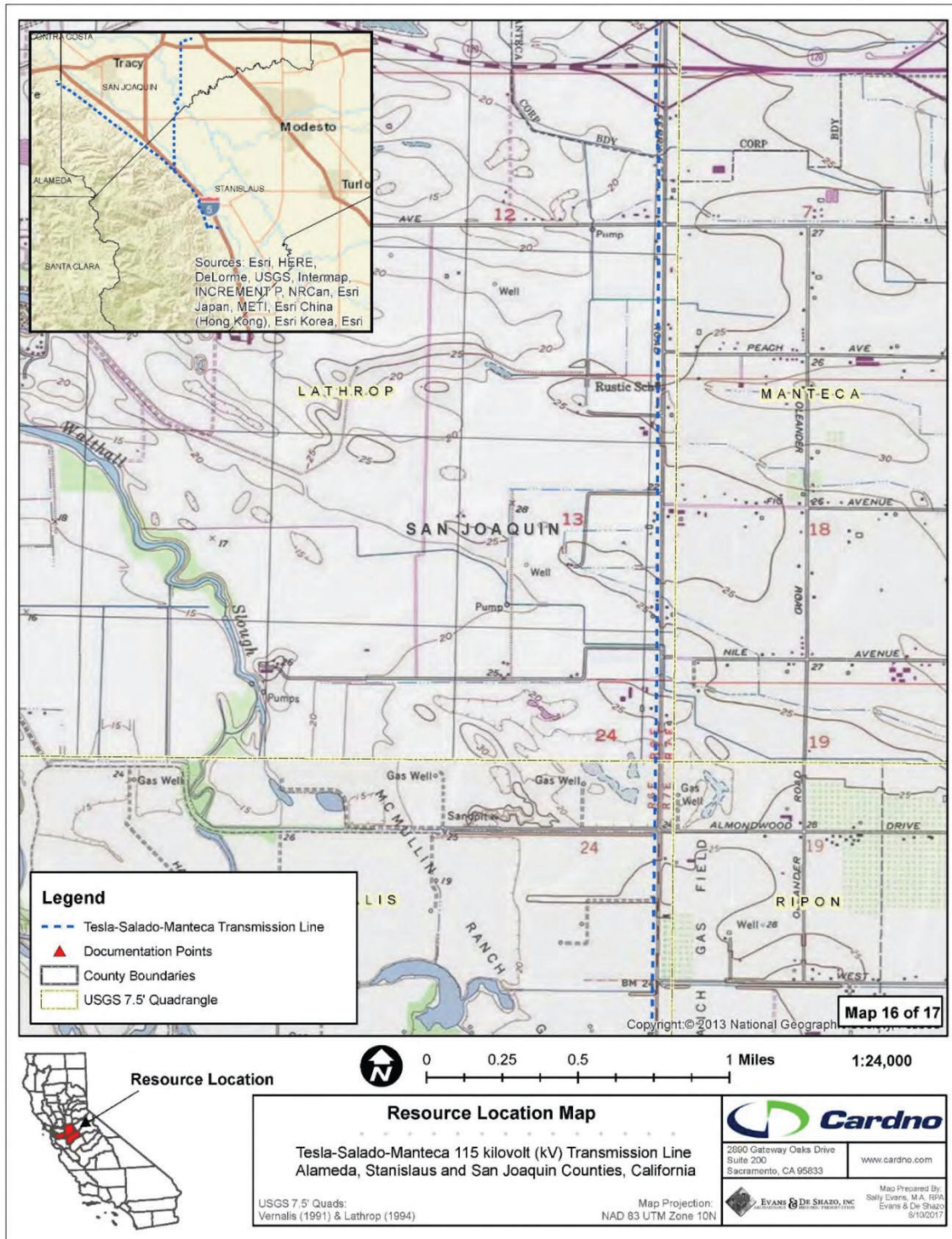
LOCATION MAP

Page 34 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Vernalis, Lathrop, Calif. *Scale: 1:24,000 *Date of map: 1991, 1994



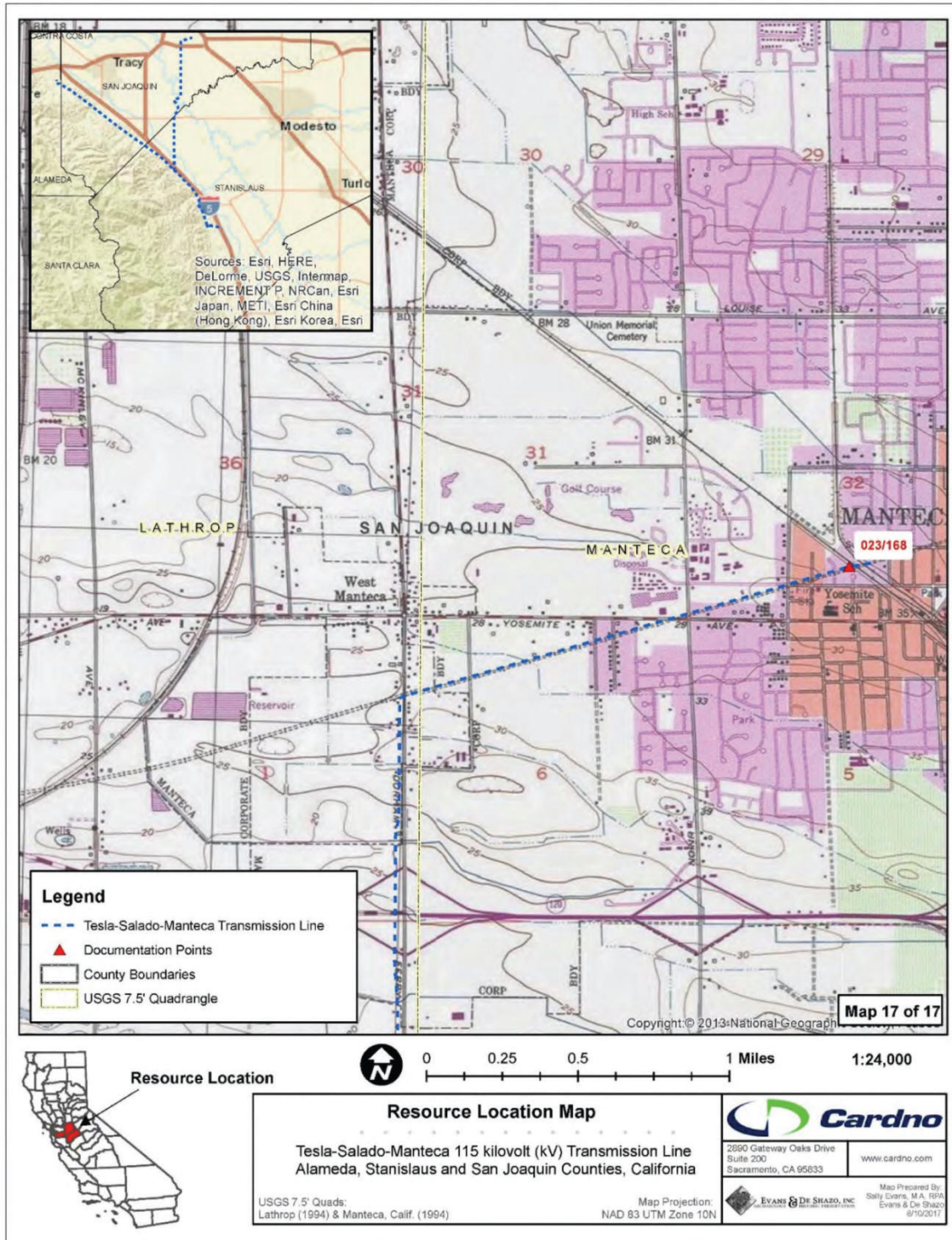
LOCATION MAP

Page 35 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Vernalis, Lathrop, Calif. *Scale: 1:24,000 *Date of map: 1991, 1994



LOCATION MAP

Page 36 of 36 *Resource Name or # (Assigned by recorder) Tesla-Salado-Manteca 115 kV Transmission Line
*Map Name: Lathrop, Manteca, Calif. *Scale: 1:24,000 *Date of map: 1994



Page 1 of 1

***Resource Name or #** (Assigned by recorder) Kelso to Tesla Transmission Line – UPDATE

***Recorded by:** C. Flanegin, MA, Dudek

***Date:** October 2, 2024

☐ Continuation ☒ Update

***P3a. Description:** The Kelso to Tesla Transmission Line documented herein follows a north-to-south alignment in northeastern Alameda County. Within the survey area, the segment of the transmission line extends approximately 0.5-mile. Dudek observed no changes to the towers or line since the last recordation in 2011. A detailed description of the subject property is provided in the attached 2011 DPR form set.



P5b. Description of Photo: (View, date, accession #) Camera facing north, Google Earth 2021

***P8. Recorded by:** (Name, affiliation, address)
Claire Flanegin, MA
Dudek
1904 Franklin Street, Suite 600
Oakland, CA 94612

***P9. Date Recorded:**
October 2, 2024

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Dudek. 2024. *Cultural Resources Inventory and Evaluation Report Potentia Viridi BESS Project, Alameda County, California.*

***Attachments:** ☒ Other (List): DPR 523 Form Set prepared by AECOM

***B10. Significance:** The Kelso to Tesla Transmission Line was evaluated in 2011 by AECOM as part of a PG&E reconductoring project. AECOM's evaluation was done to satisfy the requirements of Section 106 of the National Historic Preservation Act and CEQA. The report and DPR form set was never submitted to the California Historical Resources Information System and therefore the resource was not assigned a Primary Number.

AECOM determined that the transmission line was not eligible for the National Register of Historic Places (NRHP) or the California Register of Historical resources (CRHR). Dudek uncovered no new information that necessitated a re-evaluation of this resource and concurs that the Kelso to Tesla Transmission Line is not eligible for the NRHP or the CRHR. For the same reasons why the line does not meet the criteria of the NRHP and the CRHR, Dudek has determined that the criteria of the Alameda County Register, which are nearly identical criteria to those of the NHRP.

***B14. Evaluator:** Danielle Baza, BA, and Patricia Ambacher, MA

***Date of Evaluation:** October 2024

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code _____ 6Z

Other Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 of 4

*Resource Name or # (Assigned by recorder) Kelso to Tesla Transmission Line

P1. Other Identifier: Kelso to Tesla Transmission Line

*P2. Location: ☐ Not for Publication ☒ Unrestricted
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

*a. County San Joaquin and Alameda

*b. USGS 7.5' Quad Midway & Clifton Court Forebay Date 1953 (R 1980) & 1976 T: R: ¼ of Sec Various; B.M.

c. Address _____ City _____ Zip _____

d. UTM: (give more than one for large and/or linear resources) Zone _____; _____ mE/ _____ mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Kelso 230kV transmission line extends from the Kelso Substation to the Tesla Substation and has 45 towers. The alignment travels approximately six miles through the northeastern corner of Alameda County in a general north/south alignment. At a point north of Bethany Reservoir the alignment turns to the east to connect to the Kelso Substation which is approximately .5-miles southeast of the Delta Pumping Plant. The twin sets of three electrical high voltage wires are supported by large steel lattice towers approximately 80 feet in height. All towers in the alignment are similar in overall design and feature diagonal cross bracing and four angled legs set in concrete footings. Three arms with insulators at each end extend from the upper part of the tower to carry the twin 230kV circuits. The cable lines suspend from the insulators. The region the alignment passes through is rural in character and largely supports cattle grazing and numerous electrical wind-generators. The alignment also passes over Highway 580 at the southern end and components of the California Aqueduct at its north end. A second tower alignment (Pittsburg Power to Tesla) parallels the alignment beginning a few hundred feet to the north of Tesla Substation.

*P3b. Resource Attributes: (List attributes and codes) HP39. Other

*P4. Resources Present: ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photograph 1, 7-40, camera facing North, June 22, 2011

*P6. Date Constructed/Age and Sources:
☒ Historic ☐ Prehistoric ☐ Both
1950-1951 / PG&E GM File 106570

*P7. Owner and Address:
PG&E
77 Beale Street
San Francisco, CA

*P8. Recorded by: (Name, affiliation, address)
Mark Bowen
AECOM
2020 L Street, Suite 400
Sacramento, CA 95811

*P9. Date Recorded:
June 22, 2011

*P10. Survey Type: (Describe)
Intensive



*P11. Report Citation: (Cite survey report and other sources, or enter "none.") Cultural Resources Report for the Kelso to Tesla 230kv Reconductoring Project, Alameda, California. Prepared for Pacific Gas & Electric Company. Prepared by AECOM, August 2011.

*Attachments: NONE ☒ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record
☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record
☐ Other (list) _____

DPR 523A (1/95)

*Required Information

BUILDING, STRUCTURE, AND OBJECT RECORD

Primary # _____
HRI # _____

Page 2 of 4

*NRHP Status Code 6Z

*Resource Name or # (Assigned by recorder) Kelso to Tesla Transmission Line

B1. Historic Name: Contra Costa Steam-Tesla Transmission Line

B2. Common Name: Kelso to Tesla Transmission Line

B3. Original Use: Electrical Transmission Line B4. Present Use: Electrical Transmission Line

*B5. Architectural Style: Utilitarian

*B6. Construction History: (Construction date, alteration, and date of alterations) 1950-1951; Realigned – 1993

*B7. Moved? ☒ No ☐ Yes ☐ Unknown Date: _____ Original Location: _____

*B8. Related Features: Switching Stations

B9. Architect: PG&E Engineering Department b. Builder: Unknown

*B10. Significance: Theme Public Utilities Area San Joaquin and Alameda Counties

Period of Significance 1950-1951 Property Type Transmission Line Applicable Criteria N/A

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

Planning for the line, historically named the Contra Costa Steam-Tesla Transmission Line, began in September 1949. Records indicate the footings and placement of the towers were to be completed by October 15, 1950, with stringing to follow in November. The line was to be fully operational by March 1, 1951, and was to be 23.7 miles long with 118 towers that would connect the Contra Costa steam power plant with the Tesla Substation. Each tower was a 220 kV double circuit tower designed by PG&E's Engineering Department and made in South San Francisco by Bethlehem Pacific Coast Steel Company. Four different types of towers were used: 3G for tangent structures, 3N for slightly angled or dead-end structures, G94 for heavy angles, and G95 for dead-ends. The 3G, G94 and G95 were a new design for PG&E and the first time the towers were used. For the 3G and 3N towers, foundations 24 inches in diameter were put in place, whereas the other towers required a 3-foot square hole. In 1993, engineers added a 1.5 mile diversion off of the original alignment to connect Tesla Substation to the Kelso Substation which was also constructed during this period (PG&E GM File 10657; PG&E Drawing 231403 and 4004114). This change effectively created the current and shorter Kelso to Tesla transmission line. (See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes)

*B12. References: PG&E GM File 106570, Box 44247, available at the PG&E Records Center; PG&E "126,995 New Customers; Total Hits 2,386,210." PG&E Progress, Vol. XXVII, No. 5, April 1951. PG&E Drawing 231403 and 4004114 on file at PG&E Engineering Records Unit.

B13. Remarks:

*B14. Evaluator: Patricia Ambacher

*Date of Evaluation: August 19, 2011

(This space reserved for official comments.)

(Sketch Map with north arrow required.)

See Location Map

Page 3 of 4

*Recorded by Mark Bowen, AECOM

*Resource Name or # (Assigned by recorder) Kelso to Tesla Transmission Line
*Date June 22, 2011 ☒ Continuation ☐ Update

Significance (cont)

The Kelso to Tesla Transmission line does not appear to meet the criteria for listing in the NRHP or the CRHR. The Kelso to Tesla line, completed in 1950-51, was one of many constructed in the early-1950s as part of PG&E's comprehensive expansion program. California's population exploded in the post World War II period and spread into newly constructed suburbs in the East and South Bay overtaking former agricultural areas. This new growth resulted in the demand for electricity to surge as it had earlier in the 20th century. In 1950 alone, PG&E added more than 125,000 new customers to its system, its largest number on record. During this period, PG&E embarked on an unprecedented building program to meet the growing needs of its customer base (Pacific Gas and Electric Company 1951:2). The Kelso to Tesla line was designed during this expansion period and was needed to allow electric energy from PG&E's Contra Costa steam plant near Pittsburg. As one of many transmission lines dating to the mid-20th century, this particular line does not appear to have made a significant contribution to the history of the region, state, or nation, in general and therefore does not appear to meet NRHP Criterion A or CRHR Criterion 1.

The transmission line is also not known to be associated with individuals who made significant contributions in the areas of engineering or development of high voltage lines and does not appear to meet NRHP/CRHR Criterion B/1. Under NRHP/CRHR Criterion C/3, the transmission line does not embody distinctive characteristics of its type, period, or method of construction. While the transmission line was the first time the 3G, G94 and G95 tower designs were introduced, research does not support that the use of these towers represent significant breakthroughs in the design of transmission towers, but rather represents the expected need to design tower specifications for each individual project. Transmission towers such as these are lattice towers which are built based on angle requirements and designed according to the geographical location where they will be placed. They are standard design thus the line does not appear to meet NRHP/CRHR Criterion C/3. Under NRHP/CRHR Criterion D/4, the transmission line is not likely to yield information important to history and does not appear to meet this criterion. In addition to lacking historical and engineering significance, the transmission line also lacks integrity of location and design because it was re-aligned and originally extended from the Tesla Substation to the Contra Costa Steam Plant. In summary, the Kelso to Tesla transmission line does not appear to meet NRHP or CRHR criteria.

Photographs (cont)

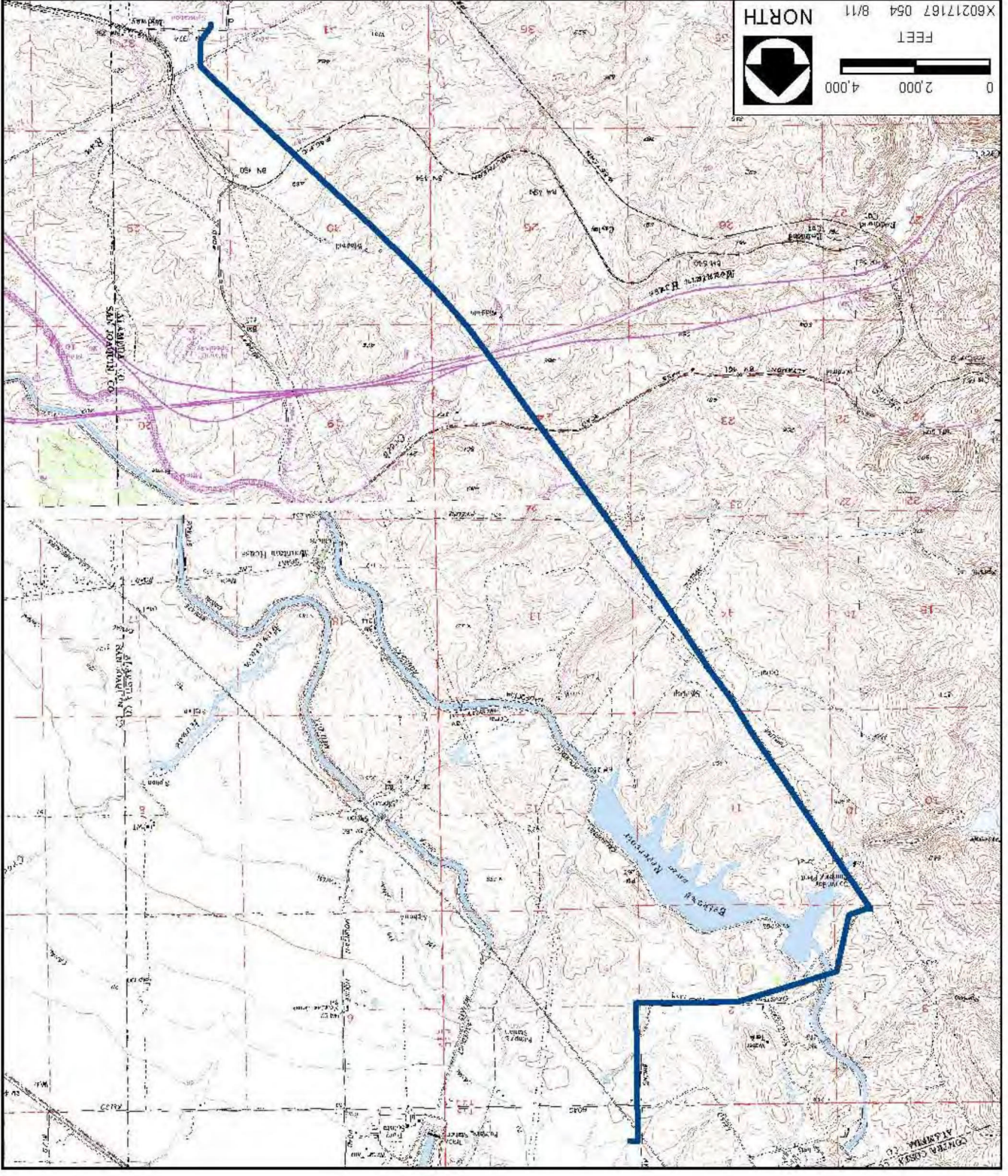


Photograph 2. Tower 14-69, facing east

LOCATION MAP

Trinomial

Primary #
HRI #



State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code

Reviewer

Date

Page 1 of 6

*Resource Name or #: (Assigned by recorder) Mulqueeney Ranch

P1. Other Identifier: N/A

*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Alameda

and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

*b. USGS 7.5' Quad Midway Date 1953, Rev. 1980 T 2S; R 4E; ¼ of ¼ of Sec 32; Mount Diablo B.M.

c. Address City Zip

d. UTM: (Give more than one for large and/or linear resources) Zone, mE/ mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)

APN 99B-7925-2-1

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The Mulqueeney Ranch and former Midway Public School (P-01-012147) are located within the same parcel, but only the ranch will be discussed. The ranch consists of a residence and several outbuildings (Photos 1-3). View of the residence is partially obscured by vegetation but appears to have a rectangular footprint and a composition roof, with walls clad in stucco. Fenestration includes horizontal sliding vinyl windows. To the west of the residence is a wood shed with corrugated metal roof. Located southwest of the residence are several outbuildings and structures; one wood garage and one wood shed, each with a corrugated metal roof. East of the wood framed shed is a corrugated metal loafing shed. South of the residence are two other sheds—one of corrugated metal and one wood-framed with corrugated metal roof.

*P3b. Resource Attributes: (List attributes and codes) HP33. Farm/ Ranch

*P4. Resources Present: ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #) Photo 1, residence and outbuildings, camera facing northwest October 2, 2024

*P6. Date Constructed/Age and Sources:

☒ Historic ☐ Prehistoric ☐ Both
c. 1955 / Topo Maps

*P7. Owner and Address: Unknown

*P8. Recorded by: (Name, affiliation, address)
Claire Flanagin, MA
Dudek
1904 Franklin Street, Suite 600
Oakland, CA 94612

*P9. Date Recorded: October 2, 2024

*P10. Survey Type: (Describe)
Intensive



*P11. Report Citation: (Cite survey report and other sources, or enter "none.") Dudek. 2024. *Cultural Resources Inventory and Evaluation Report Potentia Viridi BESS Project, Alameda County, California.*

*Attachments: ☐ NONE ☒ Location Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record
☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record
☐ Artifact Record ☐ Photograph Record ☐ Sketch Map ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

Page 2 of 6

*NRHP Status Code 6Z

*Resource Name or # (Assigned by recorder) Mulqueeney Ranch

- B1. Historic Name: Mulqueeney Ranch
B2. Common Name: Mulqueeney Ranch
B3. Original Use: Ranch
B4. Present Use: Unknown

*B5. **Architectural Style:** None

*B6. **Construction History:** (Construction date, alterations, and date of alterations) c. 1955

*B7. **Moved?** ☒ No ☐ Yes ☐ Unknown **Date:** **Original Location:**

*B8. **Related Features:** Former Midway School (P-01-012147)

B9a. Architect: Unknown

b. Builder: Unknown

*B10. **Significance: Theme** N/A

Area: N/A

Period of Significance N/A **Property Type** N/A **Applicable Criteria** N/A

(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

This property does not meet the criteria for the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR) or Alameda County Register. The property was evaluated in accordance with Section 15064.5 (a)(2)-(3) of the CEQA Guidelines using the criteria outlined in Section 5024.1 of the California Public Resources Code. The property is not considered a historical resource under CEQA. As such, this evaluation assigns a 6Z California Historical Resources Status Code to the property. See Continuation Sheet.

B11. Additional Resource Attributes: (List attributes and codes)

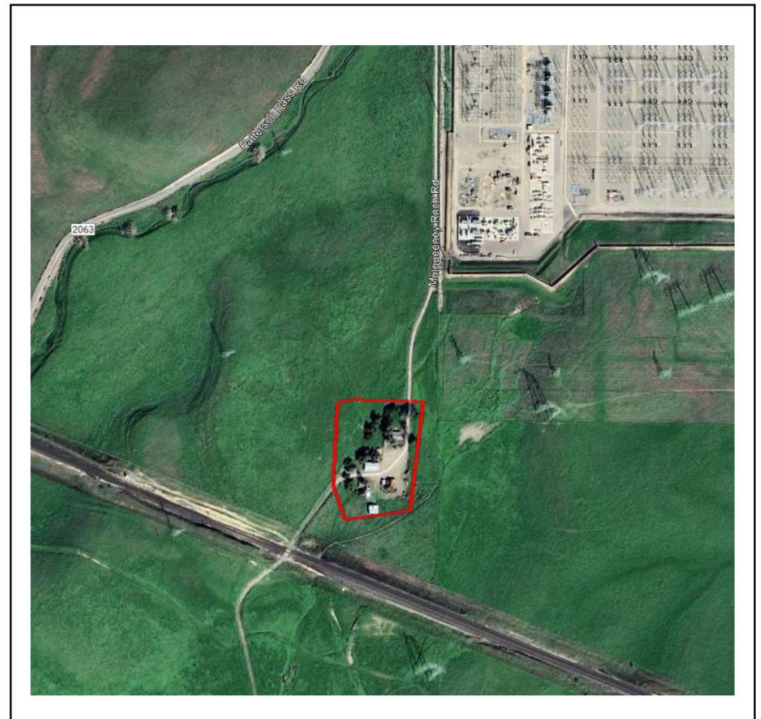
*B12. **References:** See technical report

B13. Remarks:

*B14. **Evaluator:** Danielle Baza, BA/Patricia Ambacher, MA

***Date of Evaluation:** October 2024

(This space reserved for official comments.)





Page 4 of 6

*Resource Name or # (Assigned by recorder) Mulqueeney Ranch

*Recorded by: C. Flanegin, MA, Dudek

*Date: October 2, 2024 ☒ Continuation ☐ Update

Significance (cont.)

Under NRHP/CRHR/Alameda County Register Criterion A/1/A, Mulqueeney Ranch has no specific important associations with significant historic events or patterns of development. The property was originally an approximately 5,000 acres sheep ranch. Sheep ranching was an important industry in the region, but the land is no longer operated as a sheep ranch. Additionally, the present-day acreage does not comprise the original 5,000 acres due to the construction of the Tesla Substation. The earliest available aerial, dated 1949, does not show the present-day extant buildings and therefore cannot reflect its association as a former sheep ranch. Research does not support that this property played an important role in the development of the ranching industry or the development of the larger region. Therefore, it does not meet NRHP/CRHR/Alameda County Register Criterion A/1/A. Michael Mulqueeney is significant as an early settler in Midway, and while the property remains in the Mulqueeney family, Michael passed away before the construction of the extant buildings and outbuildings. Under NRHP/CRHR/Alameda County Register Criterion B/2/B, the property has no demonstrable association with the lives of persons important to history. The ranch is not significant under NRHP/CRHR Criterion C/3 and Alameda County Register Criterion C/D/E because the buildings are not important examples of their type, period, or method of construction. Rather they are common examples and lack a discernible architectural style. The buildings do not represent the work of a master, and do not possess high artistic value. Under NRHP/CRHR/Alameda County Register Criterion D/4/F, this property is not significant as a source (or likely source) of important information regarding history, and it does not appear to have any likelihood of yielding important information about historic construction materials or technologies.

Integrity is the ability of a property to convey its significance. The assessment of a property's integrity can only proceed after its significance has been fully established. The assessment of integrity requires consideration under the seven aspects or qualities. To retain integrity, a property will always possess several, and generally most, aspects of integrity. Determining which aspects are most important requires an understanding of why, where, and when the property is significant. Because the subject property does not meet any of the criteria for listing in the NRHP, CRHR, or Alameda County Register, an integrity analysis is considered immaterial for the subject resource.

Page 5 of 6

*Recorded by: C. Flanegin, MA, Dudek

*Resource Name or # (Assigned by recorder) Mulqueeny Ranch

*Date: October 2, 2024 ☒ Continuation ☐ Update

Photographs (cont.)

Photo 2. Mulqueeny Ranch residence (right), outbuildings (left), looking northwest.



Source: Dudek, 2024.

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*Resource Name or # (Assigned by recorder) Mulqueeney Ranch

*Recorded by: C. Flanegin, MA, Dudek

*Date: October 2, 2024 ☒ Continuation ☐ Update

Photo 3. Outbuildings on Mulqueeney Ranch, looking south.



Source: Dudek, 2024.