



**FILED**

06/28/24

04:59 PM

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**ATTACHMENTS 2-A – 3-A  
TO PROPONENT'S ENVIRONMENTAL ASSESSMENT**

**ATTACHMENT 2-A: OUTREACH PACKAGE**



Property Owner	APN	Project Study Area Map Mailed	Project Info Letter Mailed	Access Consent Form Mailed	Open House Letter Mailed
CHANEY JACK H & OLIVIA M TRUSTEES % J OBERTI	027-171-80S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
JAMES STEVEN ANDERSON	038-040-16S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
BRITZ DAVID & MARILYN TRUSTEES BRITZ MARTIN TRUSTEE ETAL	028-090-80S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
BRITZ DAVID & MARILYN TRUSTEES BRITZ MARTIN TRUSTEE ETAL% D BRIT	028-090-21S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
BRITZ DAVID & MARILYN TRUSTEES BRITZ MARTIN TRUSTEE ETAL% D BRIT	028-090-07S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
CHURCH DENVER S II % D KNUDSON	027-180-13	9/12/2023	9/12/2023	9/12/2023	10/16/2023
CROSSLAND JANICE A TRUSTEE CROSSLAND CHRISTOPHER JOHN TRUSTEE	028-090-64S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
COALINGA FEED YARD INC	038-040-02S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
COALINGA FEED YARD INC	038-040-01S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
COALINGA FEED YARD INC	027-171-62S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
COLEMAN JOHN W TRUSTEE COLEMAN KATHERINE J TRUSTEE ETAL	028-090-79S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
COTTONWOOD FARMS INC	027-160-20S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
CROSSLAND JANICE A TRUSTEE CROSSLAND CHRISTOPHER JOHN TRUSTEE	027-180-66S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
CROSSLAND WILLIAM CHAPMAN JR TRUSTEE CROSSLAND JANICE A TRUST	028-090-65S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
CROSSLAND WILLIAM CHAPMAN JR TRUSTEE CROSSLAND JANICE A TRUST	027-180-10S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
CROSSLAND WILLIAM CHAPMAN JR TRUSTEE CROSSLAND JANICE A TRUST	027-180-07S	9/12/2023	9/12/2023	9/12/2023	10/16/2023

DAVID HUFFMAN, DOUGLAS HUFFMAN	038-040-03	10/1/2023	10/1/2023	10/1/2023	10/16/2023
ELGORRIAGA PAUL B & CHRISTINA J TRS ELGORRIAGA LIMITED PARTNERS	038-040-12S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
ETCHARREN PIERRE & DENISE MARIE TRS	028-101-03S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
FITSCHEN TODD E TRUSTEE FITSCHEN CHERIE A TRUSTEE	027-180-50	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GALLAGHER DEETTA L TRUSTEE GIACONE JOHN A TRUSTEE ETAL% J A GIA	028-090-46S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GARGIULO INC	027-180-69	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GIACONE JOHN M	028-090-06	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GIACONE JOHN M	028-090-66S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GRAGNANI D JERRY TRUSTEE LLOYD JEANNE MARIE TRUSTEE	027-171-15S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GRAGNANI D JERRY TRUSTEE LLOYD JEANNE MARIE TRUSTEE	027-171-60S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GRAGNANI D JERRY TRUSTEE LLOYD JEANNE MARIE TRUSTEE	027-171-84S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GRAGNANI D JERRY TRUSTEE LLOYD JEANNE MARIE TRUSTEE	027-171-16S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GRAGNANI D JERRY TRUSTEE LLOYD JEANNE MARIE TRUSTEE	027-171-85S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
GRAGNANI DONALD J & ANA MARIA TRUSTEES	027-171-71S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
GRAGNANI JERRY TRUSTEE	027-171-79S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
HOLT CATHERINE CHRISTINE I & T 2009 ANDERSON AVA ELIZABETH I/T 20	027-171-63S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
LINCOLN GRANTOR FARMS LLC	027-171-81S	9/12/2023	9/12/2023	9/12/2023	10/16/2023

MANNING AVENUE PISTACHIOS	027-171-21S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
MANNING AVENUE PISTACHIOS	027-171-23S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
MAVERICKS RANCH LLC	027-160-24S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
MOUREN RITA KAY TRUSTEE RAVEN SCOTT & CHARLYSE	027-171-03	9/12/2023	9/12/2023	9/12/2023	10/16/2023
PAPPAS FAMILY FARMS II LP	027-171-49S	10/1/2023	10/1/2023	10/1/2023	10/16/2023
PROCACCI JOSEPH M TRUSTEE BANECKER LORETTA G TRUSTEE ETAL	027-180-86S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
PROCACCI JOSEPH M TRUSTEE BANECKER LORETTA G TRUSTEE ETAL	027-180-79S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
PROCACCI JOSEPH M TRUSTEE BANECKER LORETTA G TRUSTEE ETAL	027-180-68	9/12/2023	9/12/2023	9/12/2023	10/16/2023
PROCACCI JOSEPH M TRUSTEE BANECKER LORETTA G TRUSTEE ETAL	027-180-67	9/12/2023	9/12/2023	9/12/2023	10/16/2023
PROCACCI JOSEPH M TRUSTEE BANECKER LORETTA G TRUSTEE ETAL	027-180-70	9/12/2023	9/12/2023	9/12/2023	10/16/2023
PROCACCI JOSEPH M TRUSTEE BANECKER LORETTA G TRUSTEE ETAL	027-180-71S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
RECURRENT ENERGY (OWNED BY CASACA VINEYARDS)	028-101-13	9/12/2023	9/12/2023	9/12/2023	10/16/2023
RECURRENT ENERGY (OWNED BY CASACA VINEYARDS)	028-101-14	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SAGARDIA OLGA JESSIE TRUSTEE WALKER JEANNIE MARIE TRUSTEE	027-110-17S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SAIR Partnership 7, LLC, a Delaware LLC	027-171-82S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SEASHOLTZ LISA V	027-171-01	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SEASHOLTZ LISA V MOLLRING NANCY D TRUSTEE ETAL	027-171-86	9/12/2023	9/12/2023	9/12/2023	10/16/2023

SERRATO ISMAEL M	028-101-16	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SOUZA JOSEPH O JR & ROSEANNE M TRUSTEES	027-171-10S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SOUZA JOSEPH O JR & ROSEANNE M TRUSTEES	027-171-08S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SOUZA JOSEPH O JR & ROSEANNE M TRUSTEES	027-171-20S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SOUZA JOSEPH O JR & ROSEANNE M TRUSTEES	027-171-18S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SOUZA JOSEPH O JR & ROSEANNE M TRUSTEES	027-171-09S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SOUZA WILLIAM R & DONNA G	027-160-08S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SOUZA WILLIAM R & DONNA G	027-171-05S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
STEPHANOPOULOS	028-101-04S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
STEPHANOPOULOS	028-101-83S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SUNNMORE LAND CORPORATION	027-171-24S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
SUNNMORE LAND CORPORATION	027-171-25S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
Swissco Farms Holdings Llc	027-160-07	9/12/2023	9/12/2023	9/12/2023	10/16/2023
THOMSEN KEITH A & CATHERINE S SWEET DANIEL L & CAROLE A ETAL	027-180-72S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
TRAP BRODIE FRIEDENBACH FRIEDENBACH PATRICIA S ETAL	027-180-61	9/12/2023	9/12/2023	9/12/2023	10/16/2023
Westlands Water District	028-090-04S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
Westlands Water District	028-090-75S	9/12/2023	9/12/2023	9/12/2023	10/16/2023

Westlands Water District	028-090-63S	9/12/2023	9/12/2023	9/12/2023	10/16/2023
Westlands Water District	027-180-02S	9/12/2023	9/12/2023	9/12/2023	10/16/2023

October 12, 2023

Name

Address

City, State, Zip

RE: LS Power Grid California, LLC's 230 kV Transmission Line Project  
Invitation to Public Open House

Dear

LS Power Grid California, LLC ("LSPGC") invites you to attend LSPGC's upcoming Public Open House Meeting. The purpose of the meeting is to introduce the Manning 500/230 kV Substation Project ("Project") which is planned to be constructed in Fresno County, California.

The California Independent System Operator ("CAISO") has determined that a public need exists for a new electric transmission line to be constructed from the Tranquility Substation near Manning Avenue and CA-33 to a new substation which will be built approximately 12 miles to the west near Interstate 5. In January 2023, CAISO selected LSPGC to construct, own and operate the new substation and transmission line.

You are receiving this letter because our records indicate that you own property in the Project Study Area as shown on the enclosed map. The Project may impact property that you own depending on the route as approved by the Public Utilities Commission. The meeting will give LSPGC the opportunity to share information with you about the Project and listen to your comments and suggestions.

Because many of the affected landowners do not live near the project area, the Open House will be hosted virtually. To join the meeting, please go to the Project website on the day of the meeting and click on the link. A recording of the meeting will be posted to the Project website.

**Time: 10am**

**Date: Thursday, October 26<sup>th</sup>**

**Website: [www.lspgridcalifornia.com/manning](http://www.lspgridcalifornia.com/manning)**

If you have any questions, please contact us at 866-221-7310 or via email at [manning@lspgridcalifornia.com](mailto:manning@lspgridcalifornia.com)

Sincerely,

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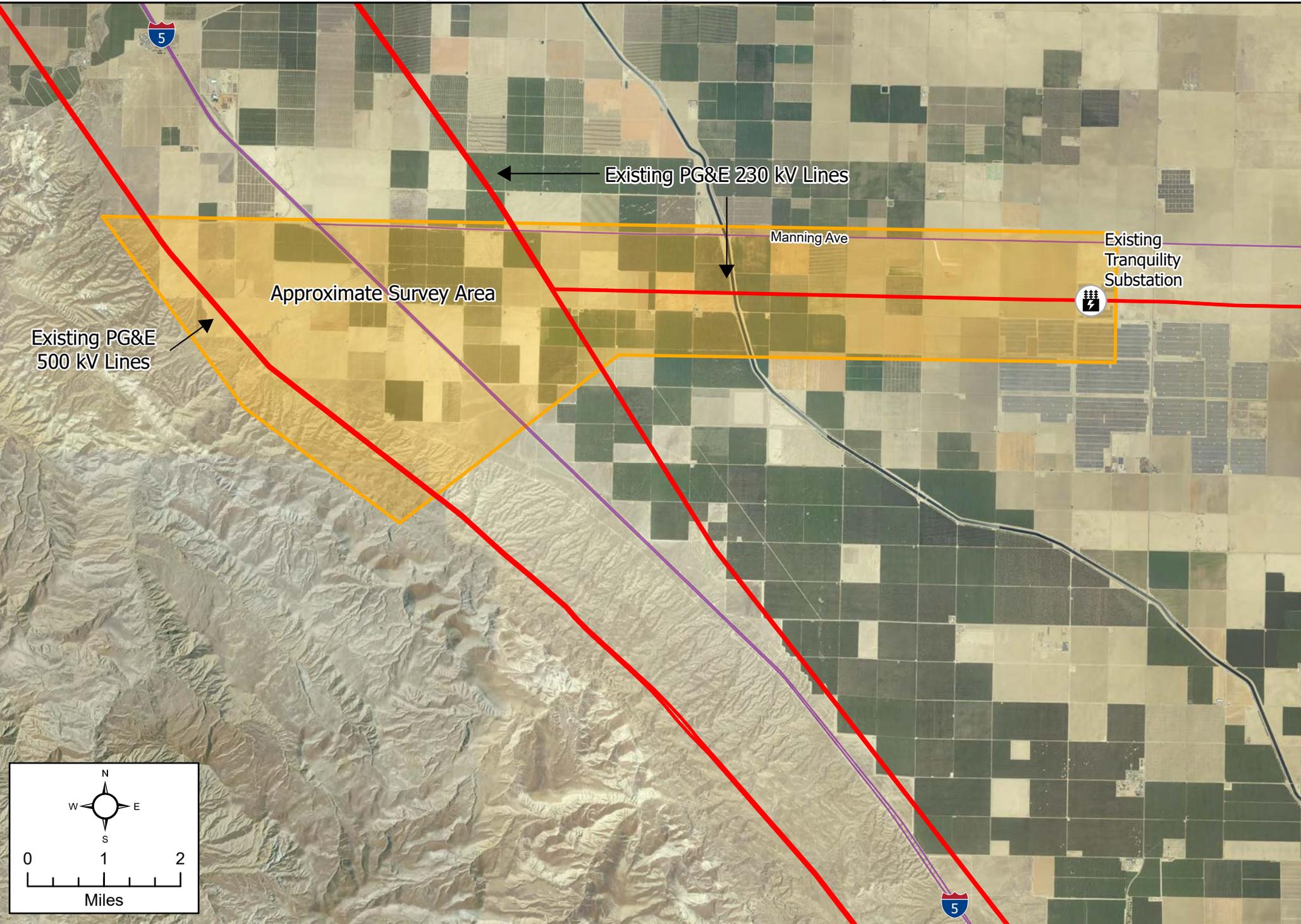
Right of Way Agent for LS Power Grid California, LLC

Enclosures: Project Study Area Map

8/30/2023

# Manning Substation Project

## Existing Facilities and Approximate Survey Area



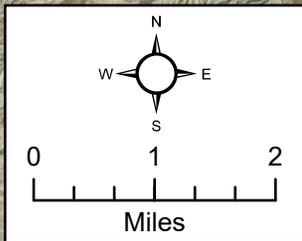
Existing PG&E  
500 kV Lines

Approximate Survey Area

Existing PG&E 230 kV Lines

Manning Ave

Existing  
Tranquility  
Substation





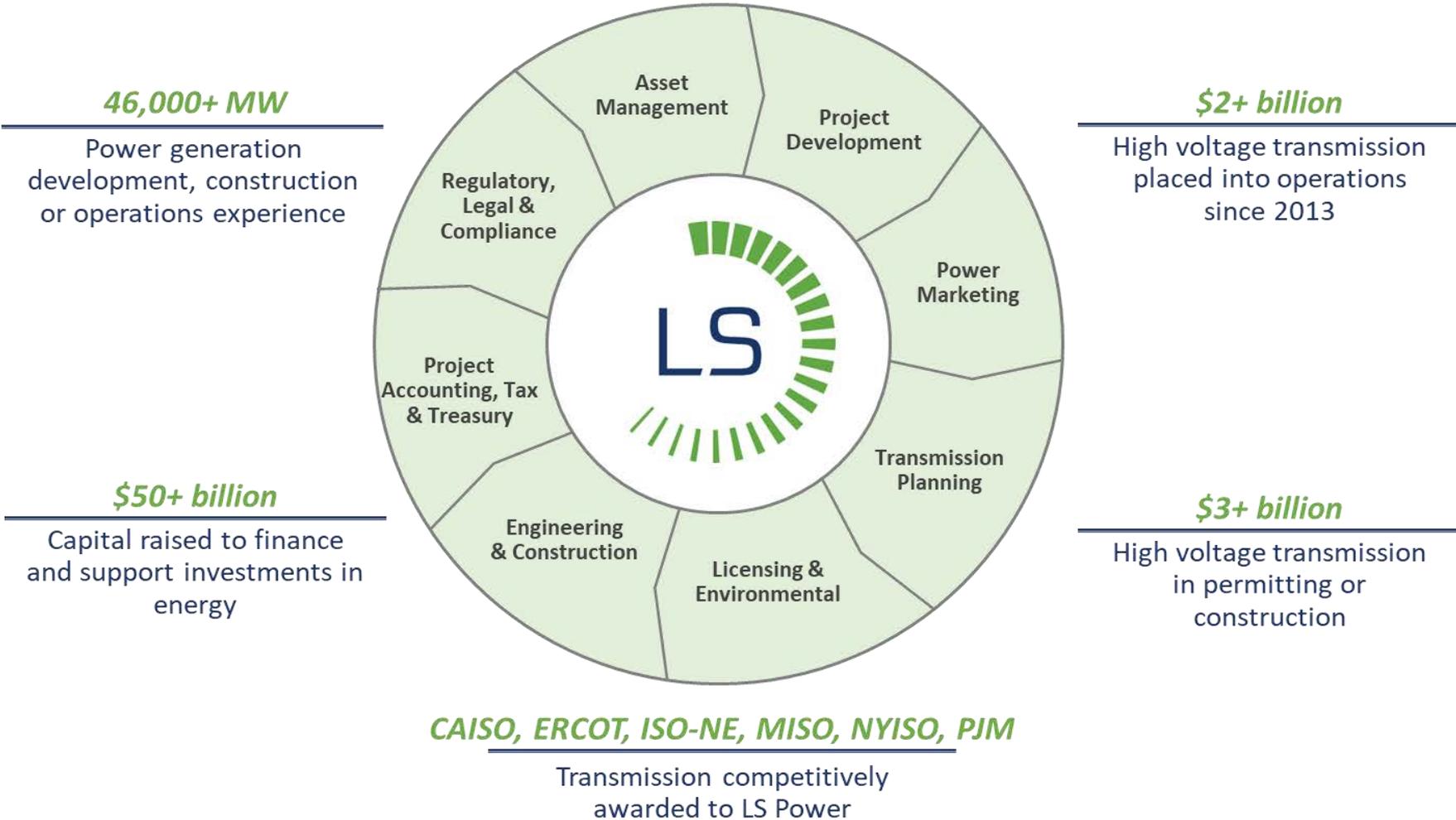
# Manning 500/230 kV Substation Project

Open House – October 26, 2023

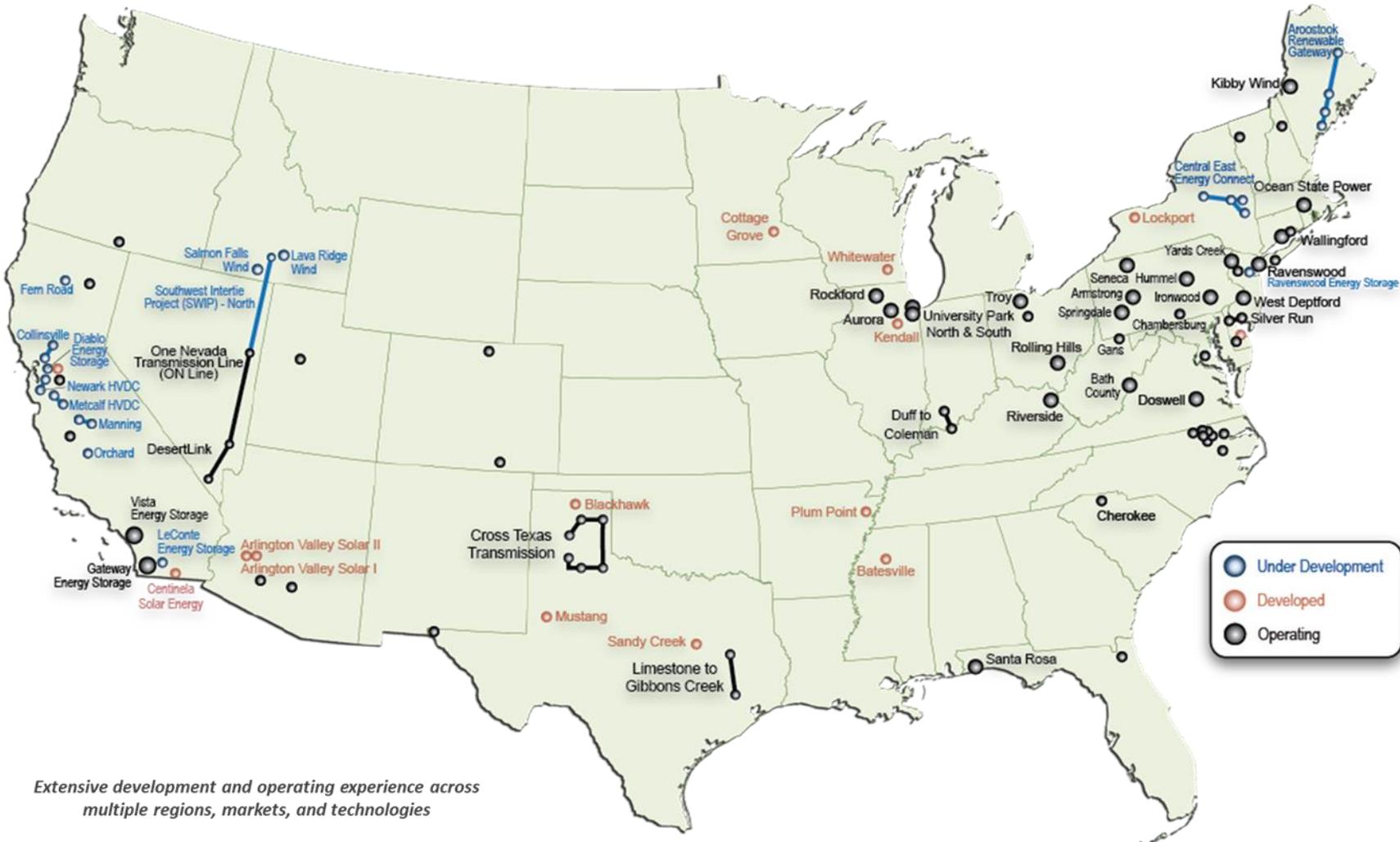


# Introduction to LS Power

Power generation and transmission company formed in 1990

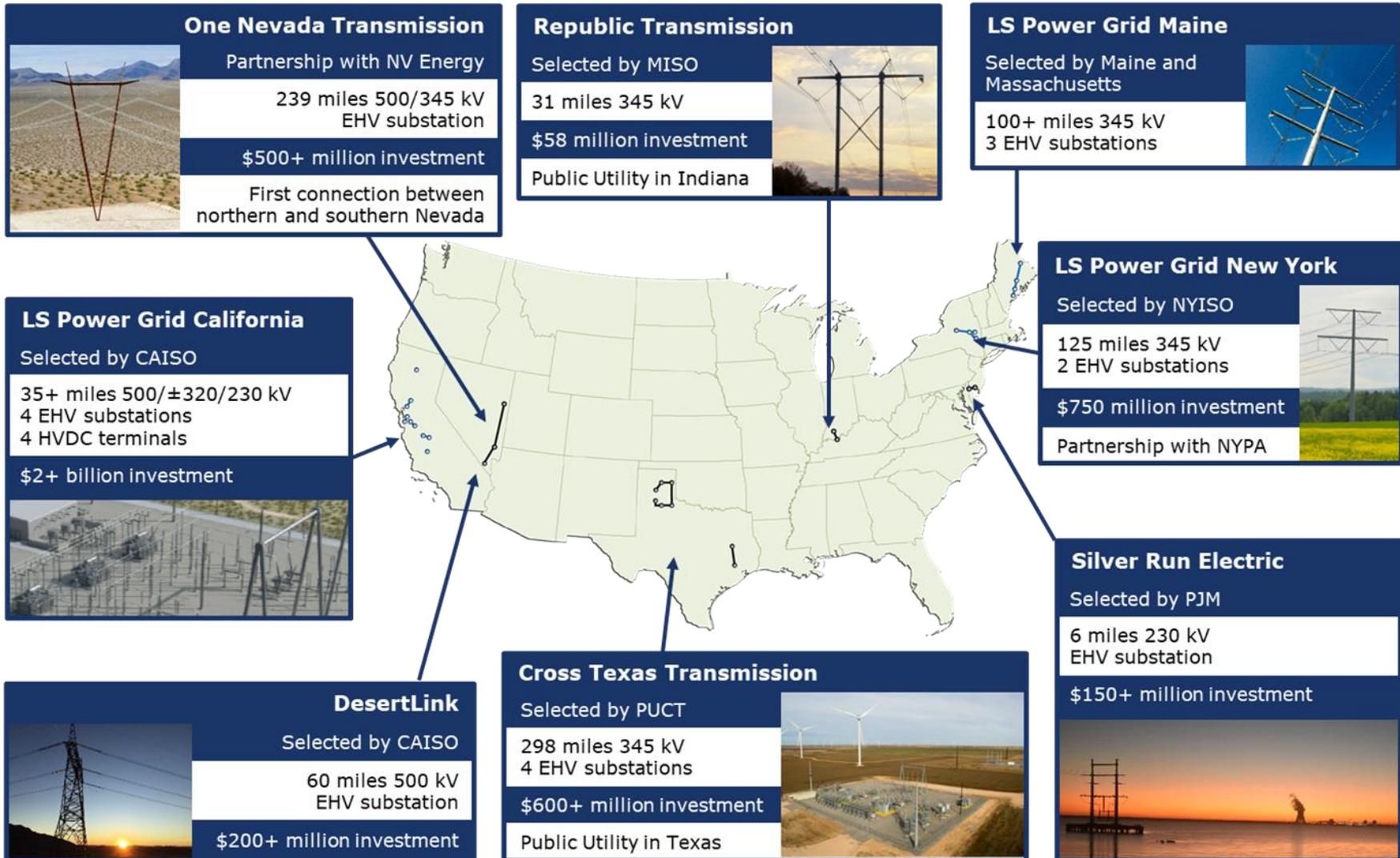


# Introduction to LS Power



*Extensive development and operating experience across multiple regions, markets, and technologies*

# Introduction to LS Power

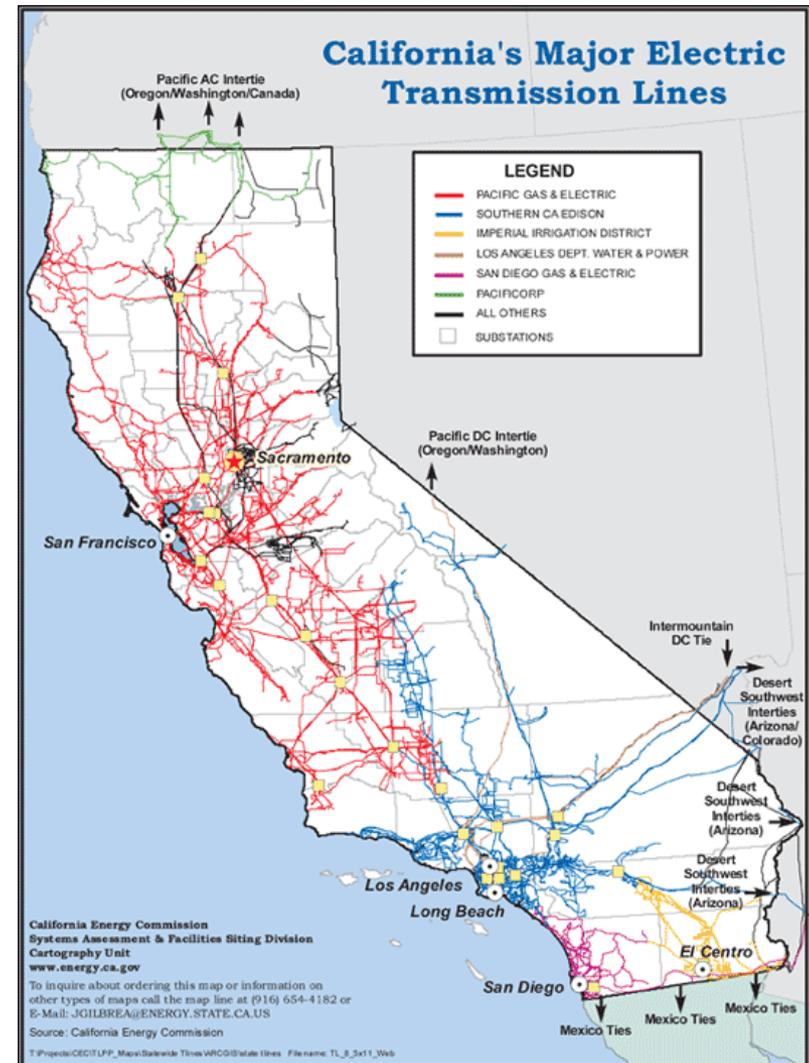


## PROJECT OVERVIEW

# Introduction to LS Power

## LS Power Grid California, LLC

- Recognized as a California Public Utility and is under the jurisdiction of the California Public Utilities Commission
- Currently developing six different projects in California that were awarded by the California Independent System Operator (CAISO).
- CAISO maintains reliability on the California electric grid and determines where new projects are needed to support future electrical demand.



# Manning 500/230 kV Substation Project

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## Purpose and Need

- The California Independent System Operator (CAISO) identified the need for the Manning Substation Project to address overloads on the existing transmission system
- The Project will also support the advancement of renewable energy generation within the Westlands/San Joaquin Valley area
- LS Power was selected by CAISO in January 2023 through a competitive solicitation process to permit, construct, operate, and own the Project



# Manning 500/230 kV Substation Project

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## Community Benefits

- Provides more reliable power for the region
- Increases opportunities to connect additional renewable energy projects to the grid
- Creates job opportunities during construction - prior construction work LS Power has done in the area used over 90% local labor
- Increases spend with local businesses during construction
- Estimated \$1.6 million/year in property taxes directly to Fresno County

# ENGINEERING AND CONSTRUCTION

# Manning 500/230 kV Substation Project

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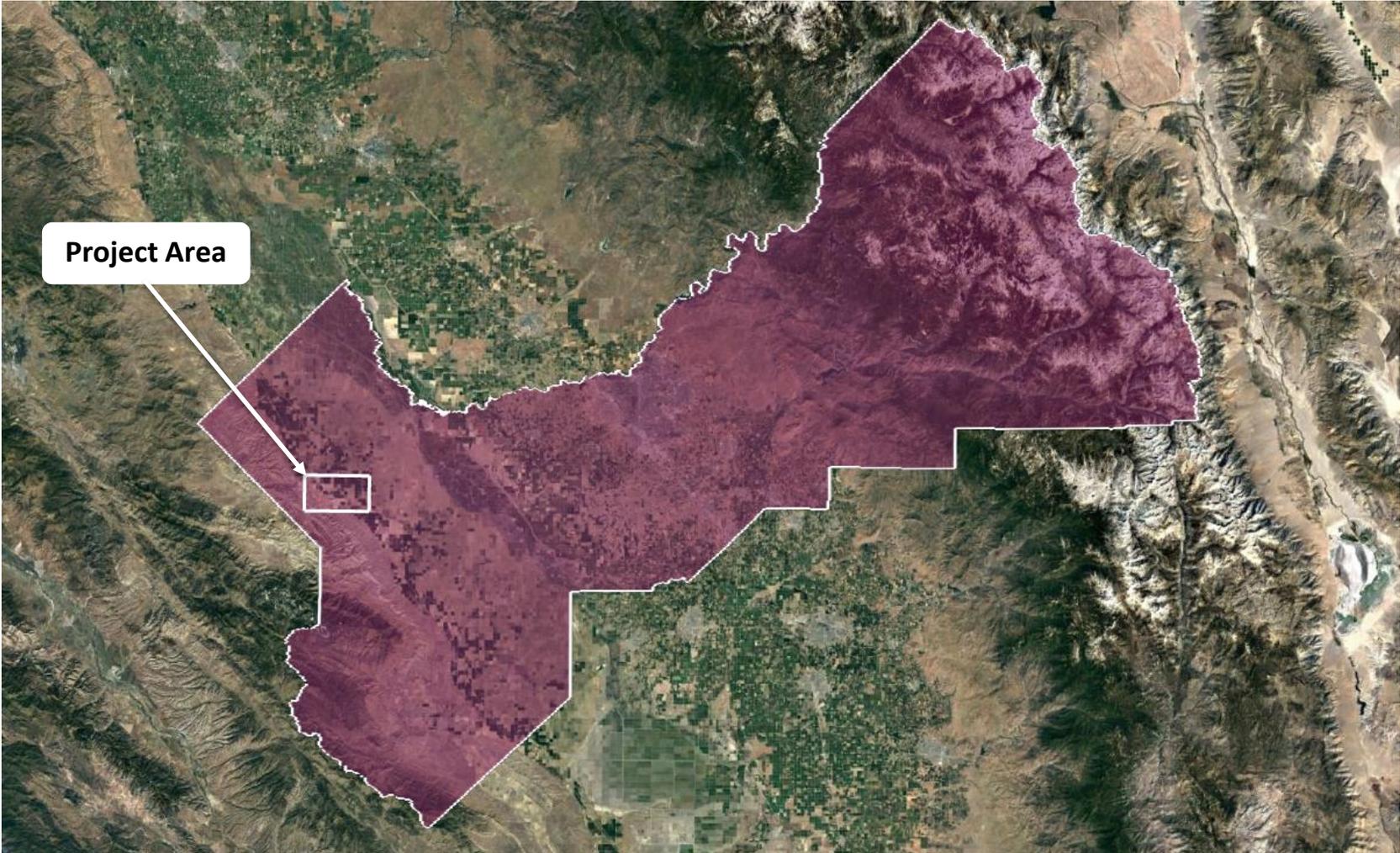
## Project Description

- Scope
  - New 500/230 kilovolt (kV) Manning Substation (approximately 12-acres)
  - New double-circuit 230 kV line from the new Manning Substation to the existing Pacific Gas and Electric Company (PG&E) Tranquility Substation (approximately 12-miles-long)
  - Interconnection of the following lines into the new Manning Substation
    - PG&E's two existing single-circuit 500 kV lines
    - PG&E's double-circuit 230 kV line
- Key Dates
  - Permitting now through mid-2026
  - Construction starting mid-2026
  - Required in service date by June 1, 2028



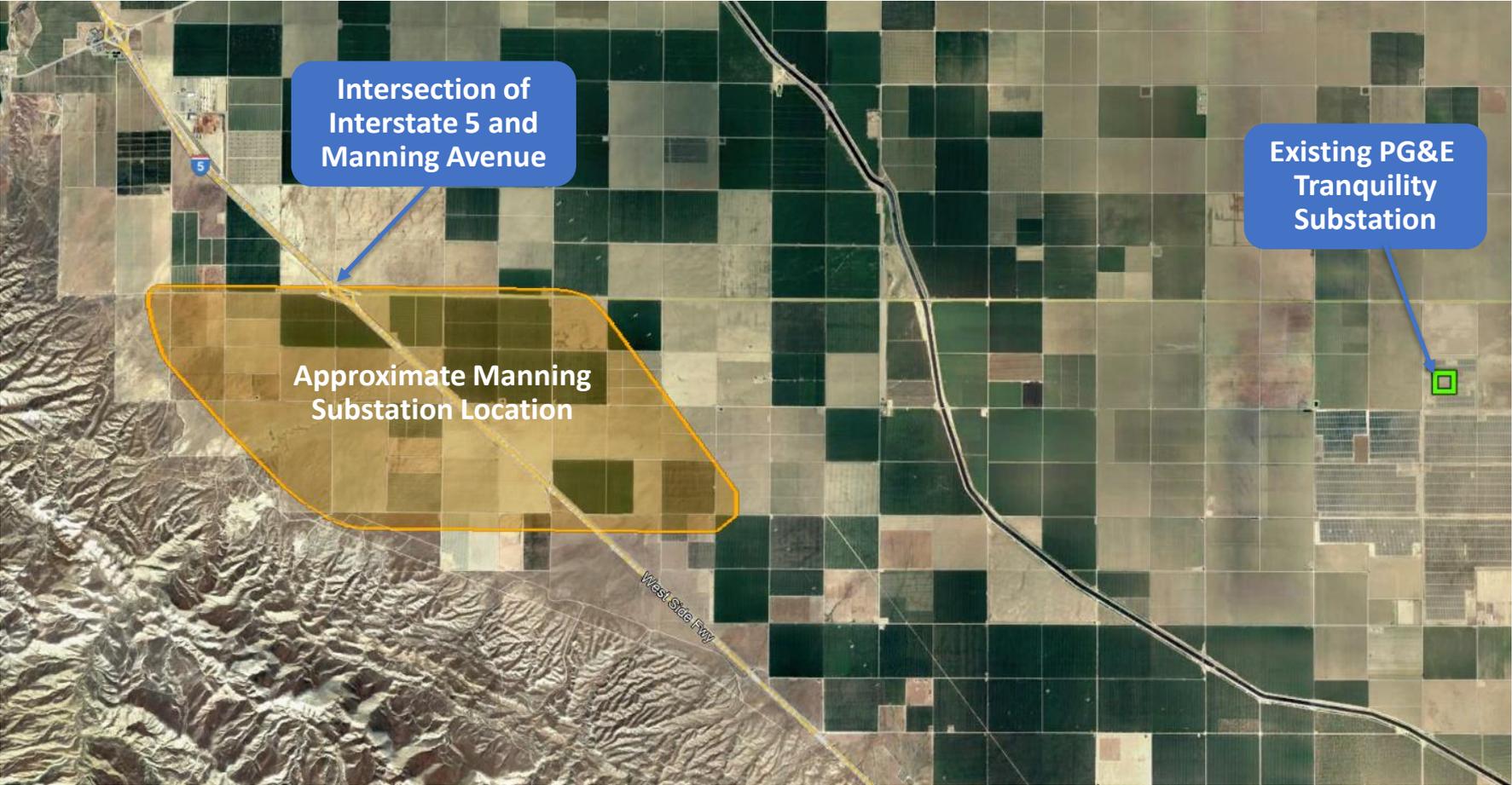
# Manning 500/230 kV Substation Project

The Project is on the west side of Fresno County near I-5 and Manning Avenue



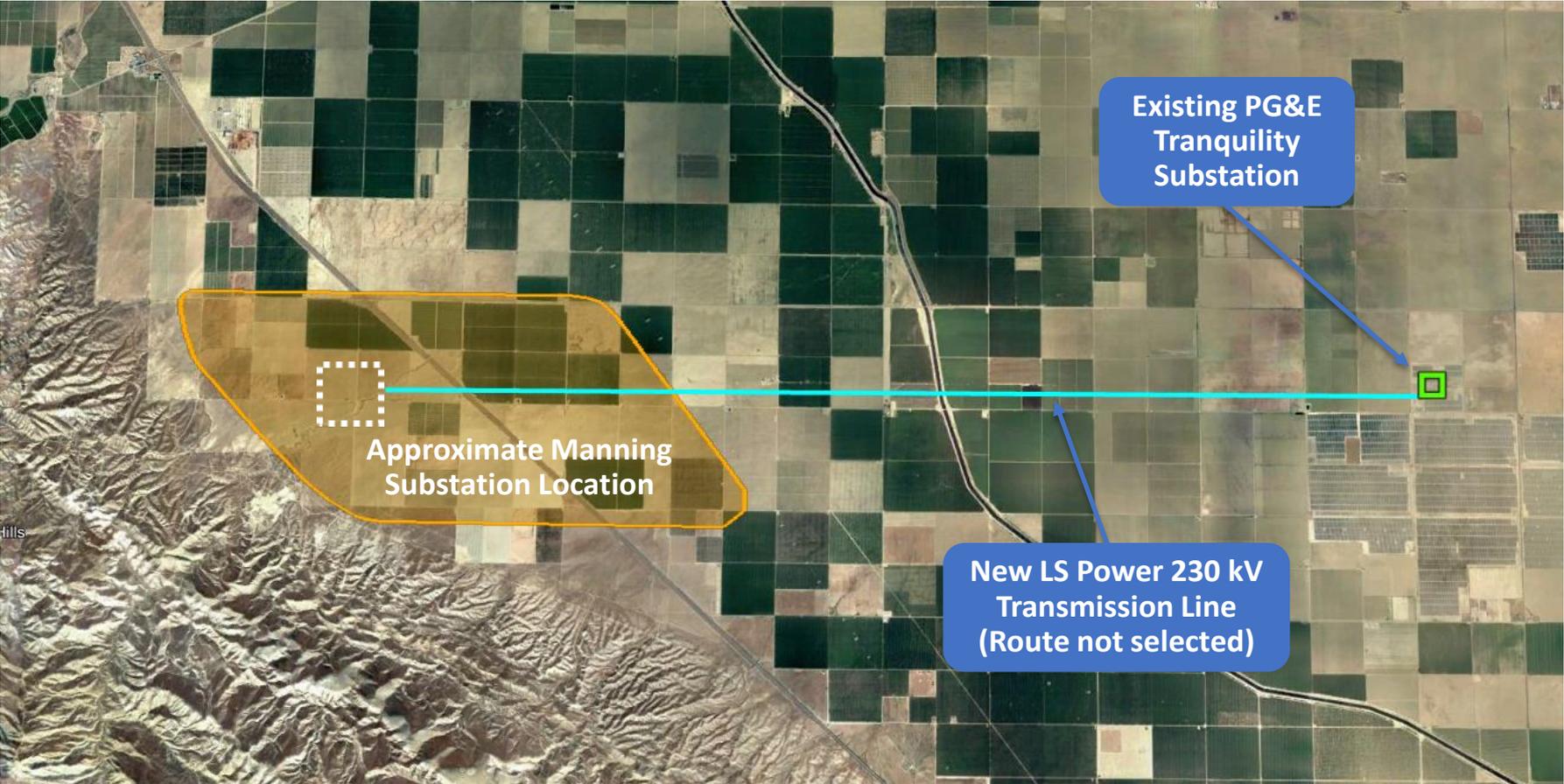
# Manning 500/230 kV Substation Project

New approximately 12-acre 500/230 kV Manning Substation



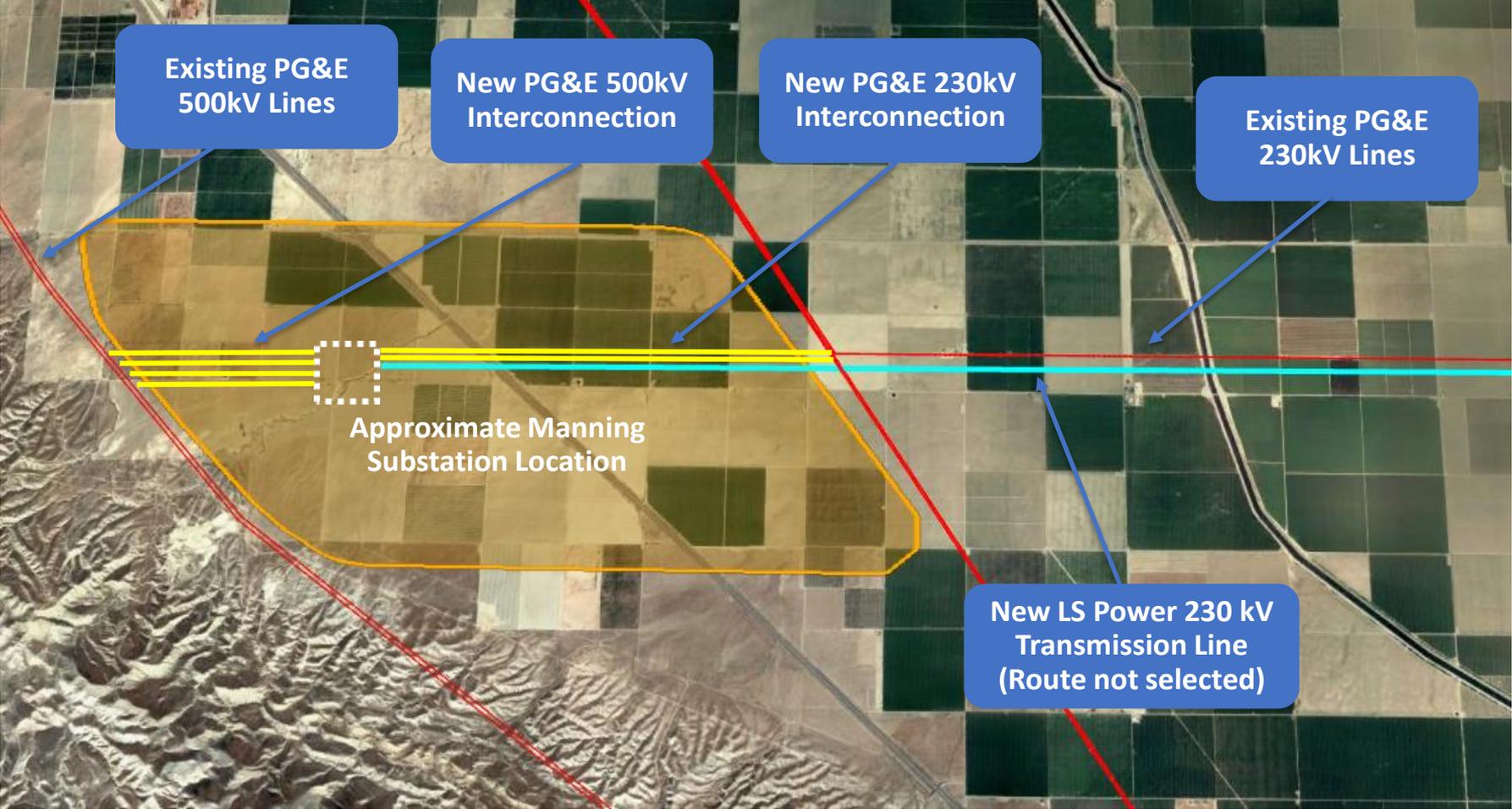
# Manning 500/230 kV Substation Project

New approximately 12-mile-long double-circuit 230 kV line from the new Manning Substation to the existing PG&E Tranquility Substation



# Manning 500/230 kV Substation Project

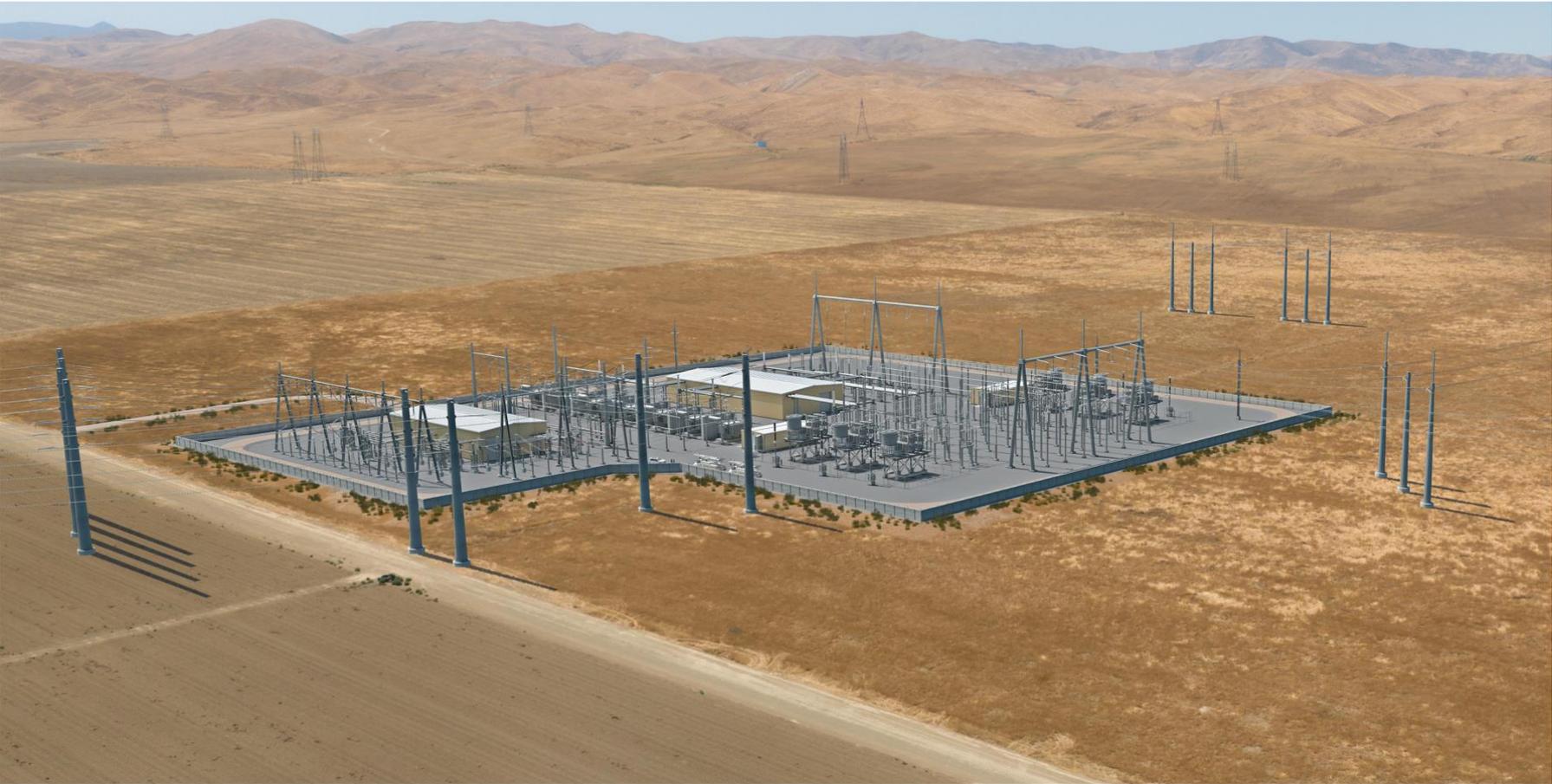
Interconnection of PG&E's two existing single-circuit 500 kV lines and one double circuit 230 kV lines into the Manning Substation (to be completed by PG&E)



# Manning 500/230 kV Substation Project

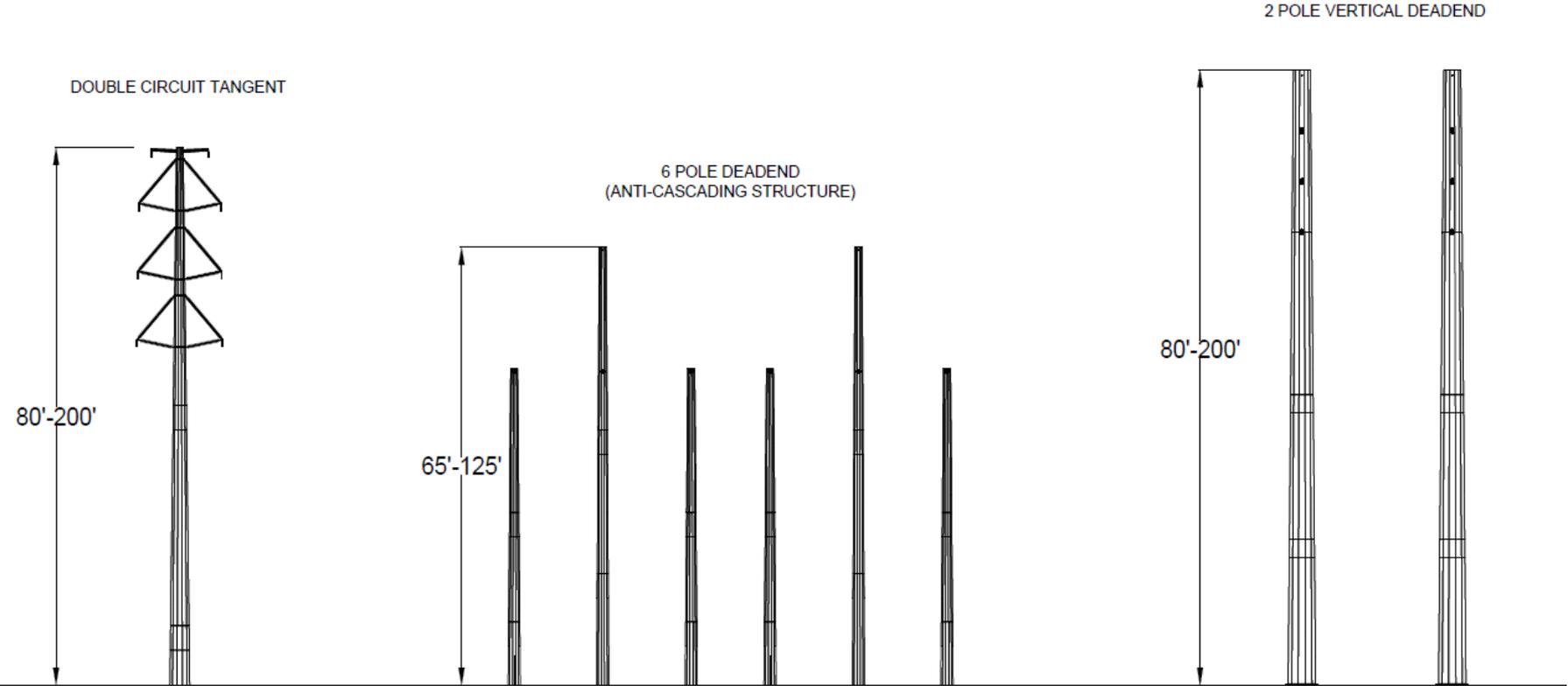
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## Substation Visual Simulation



# Manning 500/230 kV Substation Project

## Typical 230 kV Structure Design



# Manning 500/230 kV Substation Project

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## Transmission Line Construction Methods

- Majority of structures will be supported by direct-embedded foundations
  - The tubular steel poles will be set on gravel at the bottom of the foundation excavation and backfilled with concrete
- Dead-end structures will either have guys for additional support or be placed on large drilled pier foundations
- The conductors will be strung from tower to tower using helicopters



## ENVIRONMENTAL AND PERMITTING

# Manning 500/230 kV Substation Project

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## Certificate of Public Convenience and Necessity

- LS Power will be submitting a Certificate of Public Convenience and Necessity (CPCN) Application and Proponent's Environmental Assessment (PEA) to the California Public Utilities Commission (CPUC) in early spring of 2024
- The Project will be reviewed under the California Environmental Quality Act (CEQA) by the CPUC
- This is an intensive environmental review conducted by the CPUC and includes public feedback/comment periods
  - Anticipate a Draft Environmental Document in early 2025
- Environmental studies are being conducted as part of the PEA



# Manning 500/230 kV Substation Project

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## Environmental Studies

- Phase I Environmental Site Assessment
- ERIS Corridor Study
- Paleontological Resources Records Search
- Preliminary Environmental Justice Assessment
- Land Evaluation and Site Assessment
- Wildfire Modeling
- Biological Resources Technical Report
- Cultural Resources Technical Report
- Air Quality and Greenhouse Gases Technical Report
- Noise Technical Report Technical Report

# Manning 500/230 kV Substation Project

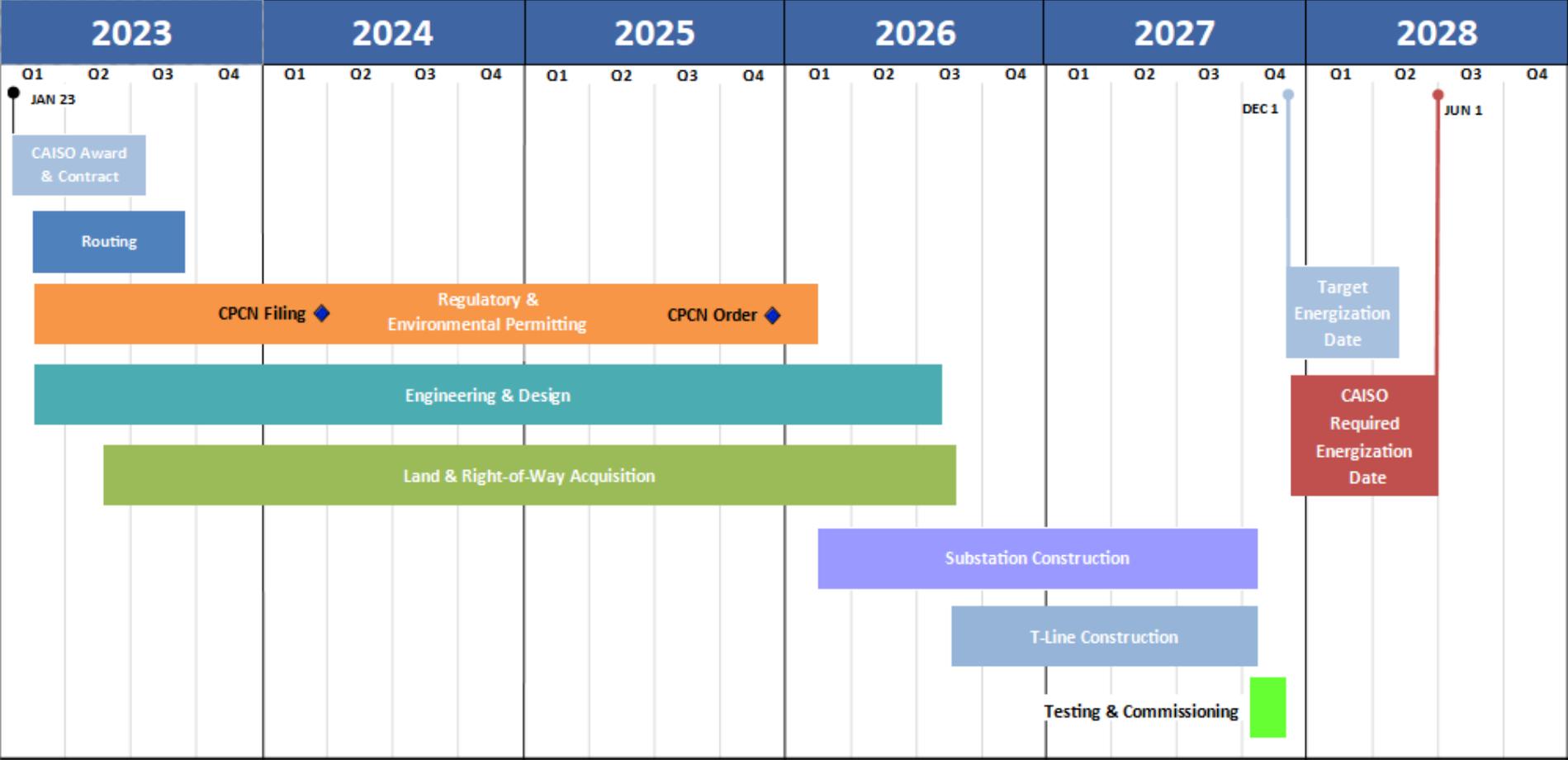
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## CPUC Environmental Process

1. LS Power will file CPCN application with CPUC, including the PEA
2. CPUC will prepare an Environmental Impact Report (EIR) or Mitigated Negative Declaration (MND)
3. CPUC will conduct public meetings
4. Public comments on Draft EIR/MND anticipated early 2025
5. CPUC will prepare Final EIR/MND and proposed decision
6. Public comments on proposed decision
7. CPUC will certify Final EIR/MND and issue decision

Process per Public Resources Code section 21000 et. seq., CEQA and CEQA Guidelines

# Manning 500/230 kV Substation Project



# Manning 500/230 kV Substation Project

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**Visit the Project website:**

*[www.lspgridcalifornia.com/manning](http://www.lspgridcalifornia.com/manning)*

**Project information line:**

*(866) 221-7310*

**Project email:**

*[Manning@lspgridcalifornia.com](mailto:Manning@lspgridcalifornia.com)*

# Manning 500/230 kV Substation Project

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## Q&A

# Manning 500/230 kV Substation Project

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*[www.lspgridcalifornia.com/manning](http://www.lspgridcalifornia.com/manning)*

**Project information line:**

*(866) 221-7310*

**Project email:**

*[Manning@lspgridcalifornia.com](mailto:Manning@lspgridcalifornia.com)*

**LS Power Grid California, LLC’s Manning 500/230 kV Substation Project  
Open House Post-Event Summary**

Date: October 26, 2023

Time: 10:00am-11:00am Pacific Time Zone

**Presentation Overview**

<b>Presentation Portion</b>	<b>Speaker – Association</b>
Presentation Overview	Anne Marie McGraw – Insignia Environmental
Project Endorsement	Will Oliver – Fresno County Economic Development Corporation
Project Overview	Paul Mallmann – LS Power Grid California
Schedule Overview	Paul Mallmann – LS Power Grid California
Environmental Overview	Dustin Joseph – LS Power Grid California
Questions and Answers	Anne Marie McGraw, Paul Mallmann, Dustin Joseph
Final Remarks	Anne Marie McGraw – Insignia Environmental

**Project Team Members Present:**

LS Power	Insignia	Public Relations
Paul Mallman	Anne Marie McGraw	Beth Hill
Dustin Joseph	Robert Curley	Minnie Santillan
David Wilson	Matthew Winter	
Mark Milburn	Lauri Branch	
Clayton Eversen		
James Schuchard		
Julia Bohnert		
Brian Coughlin		

A list of all attendees is compiled as an attachment to this document.

**Text Questions/ Comments from Attendees Regarding:**

- Alternative Routes and locations
- Underground construction
- If there was any public opposition to the project
- Sharing slides and future answers

LSPGC has uploaded a copy of the recorded presentation to the project website, along with other informational documents.

# Manning 500/230 kV Substation Project - Open House Attendees - 10-26-2023

Name (Original Name) Or Phone Number	User Email
Anne Marie McGraw (Robert Curley)	rcurley@insigniaenv.com
Paul Mallmann	pmallmann@lspower.com
Julia Bohnert	jbohnert@lspower.com
Clayton Eversen (Clayton Everson)	ceversen@lspower.com
Will Oliver	woliver@fresnoedc.com
Rob Curley	robertcurley@insigniaenv.com
tdoyle	tdoyle@gargiulofarms.com
Lauri Branch	lbranch@insigniaenv.com
Dustin Joseph	djoseph@lspower.com
James Schuchard	jschuchard@lspower.com
Dustin Joseph	djoseph@lspower.com
James Schuchard	jschuchard@lspower.com
Rob Curley	robertcurley@insigniaenv.com
Matthew Winter	mwinter@insigniaenv.com
Babeeta Nagra	bkn4@pge.com
Will Oliver	woliver@fresnoedc.com
Paul Balleza	paulballeza@gmail.com
Theresa English	tre2@pge.com
Erin.Wilkinson	erin.wilkinson@recurrentenergy.com
Conor Austin	conor.austin@leewardenergy.com
Minnie Santillan	minnie.santillan@gmail.com
Beth Hill / Continental Field Service	bethhill@cfs-row.com
Dave Meier	david.meier@pge.com
Russ Freeman	rfreeman@wwd.ca.gov
Sean	sean.wazlaw@nee.com
Michael Brughelli	michael@vignerons.wine
JGF	jjfoley2010@gmail.com
Mark Milburn	mmilburn@lspower.com
kenzie.woods	kenzie.woods@recurrentenergy.com
Brian Coughlin	bcoughlin@lspower.com
Scott Leonard	scott.leonard@recurrentenergy.com
Michael Brughelli	michael@vignerons.wine
Mark O	mark.osterholt@leewardenergy.com
Hun Kim	hun.kim@recurrentenergy.com
Julia Bohnert	jbohnert@lspower.com
David Wilson	dwilson@lspower.com
joan.wehring	joan.wehring@recurrentenergy.com
eric.thor	eric.thor@maricopaorchards.com
Cristian	cristian@cityofmendota.com
Judy	judythomasmac@gmail.com
Herschel	herschelcre@gmail.com
15592878773	
Chinedu Oputa	chinedu.oputa@recurrentenergy.com
Creed Young - PGE	tcy2@pge.com
Don Grebe	dgrebe@cfs-row.com



**ATTACHMENT 2-B: CONSTRUCTION MILESTONE RESPONSES**



**LS Power Grid California, LLC**

**Manning 500/230 kV Substation Project (Manning Project) and Collinsville 500/230 kV Substation (Collinsville Project) – Response to CPUC Questions**

- CPUC: Can you provide any additional detail on the anticipated construction schedule for each project? Are there any key milestones or phases we should be aware of?
    - o Manning Project Milestones:
      - Draft PEA Pre-Filing Submission – 3<sup>rd</sup> Quarter, 2023
      - CPCN Filing – 4<sup>th</sup> Quarter, 2023
      - Final CPCN Order – 4<sup>th</sup> Quarter, 2025
      - Construction Start - 1<sup>st</sup> Quarter, 2026
      - CAISO Required Energization – June 1, 2028
    - o Collinsville Project Milestones:
      - Draft PEA Pre-Filing Submission – 4<sup>th</sup> Quarter, 2023
      - CPCN Filing – 1<sup>st</sup> Quarter, 2024
      - Final CPCN Order – 1<sup>st</sup> Quarter, 2026
      - Construction Start – 2<sup>nd</sup> Quarter, 2026
      - CAISO Required Energization – June 1, 2028
  - CPUC: What level of CEQA are you envisioning for each of these projects? Is your team expecting these to be MNDs or EIRs?
    - o Manning Project: We are anticipating that the Manning Project will require an Initial Study/Mitigated Negative Declaration (IS/MND).
    - o Collinsville Project: We are anticipating that the Collinsville Project will require an Environmental Impact Report (EIR).
  - CPUC: Can you provide a list of any other agencies or interested parties that LS Power has already contacted in connection with Manning and/or Collinsville?
    - o Manning Project: During preparation of LS Power’s proposal to the California Independent System Operator (CAISO), and during the initial phases of project development, the following agencies and other interested parties were contacted:
      1. Westlands Water District
      2. Fresno County Planning Department
      3. Department of Interior, Bureau of Reclamation
      4. California Department of Transportation
      5. California Department of Water Resources
      6. Pacific Gas & Electric (PG&E)
      7. Recurrent Energy (proposed solar development)
      8. Clearway (proposed solar development)
-

- o Collinsville Project: During preparation of LS Power’s proposal to the CAISO, and during the initial phases of project development, the following agencies and other interested parties were contacted:

1. City of Pittsburg
2. California State Land Commission (CSLC)
3. California Department of Fish and Wildlife
4. Sacramento Municipal Utility District
5. Regional Water Quality Control Board (RWQCB)
6. California Valley Flood Protection Board (CVFPB)
7. PG&E
8. U.S. Army Corps of Engineers (USACE) - Sacramento and San Francisco Districts
9. National Oceanic and Atmospheric Administration Service (NOAA)
10. National Marine Fisheries Service
11. Environmental Protection Agency

- CPUC: Can you provide a list of anticipated permits associated with each project?

- o Manning Project: The table below provides a summary of potential federal, state, and local permitting requirements that may apply to the project.

<b>Agency/Permit</b>
<i>Fresno County</i>
Williamson Act compliance / exemption
Building and Grading permits, as well as other ministerial permits from Fresno County
<i>State and Regional Agencies</i>
National Pollutant Discharge Elimination System Permit (NPDES) Construction General Permit
San Joaquin Valley Air Pollution Control District (SJVAPCD) – Dust Control Plan
SJVAPCD – Rule 9510, Indirect Source Review
<i>Federal</i>
Federal Aviation Administration (FAA) - Determination of No Hazard

- o Collinsville Project: This table below provides a summary of potential federal, state, and local permitting requirements that may apply to the project.

<b>Agency/Permit</b>
<i>Contra Costa, Solano, and Sacramento County</i>
Williamson Act compliance / exemption
Building and Grading permits, as well as other county ministerial permits
<i>State and Regional Agencies</i>
NPDES Construction General Permit
RWQCB - Section 401 Water Quality Certification
Bay Area and Sacramento Metro Air Quality Management Districts - Permit to Construct
San Francisco Bay Conservation and Development Commission – Major Permit

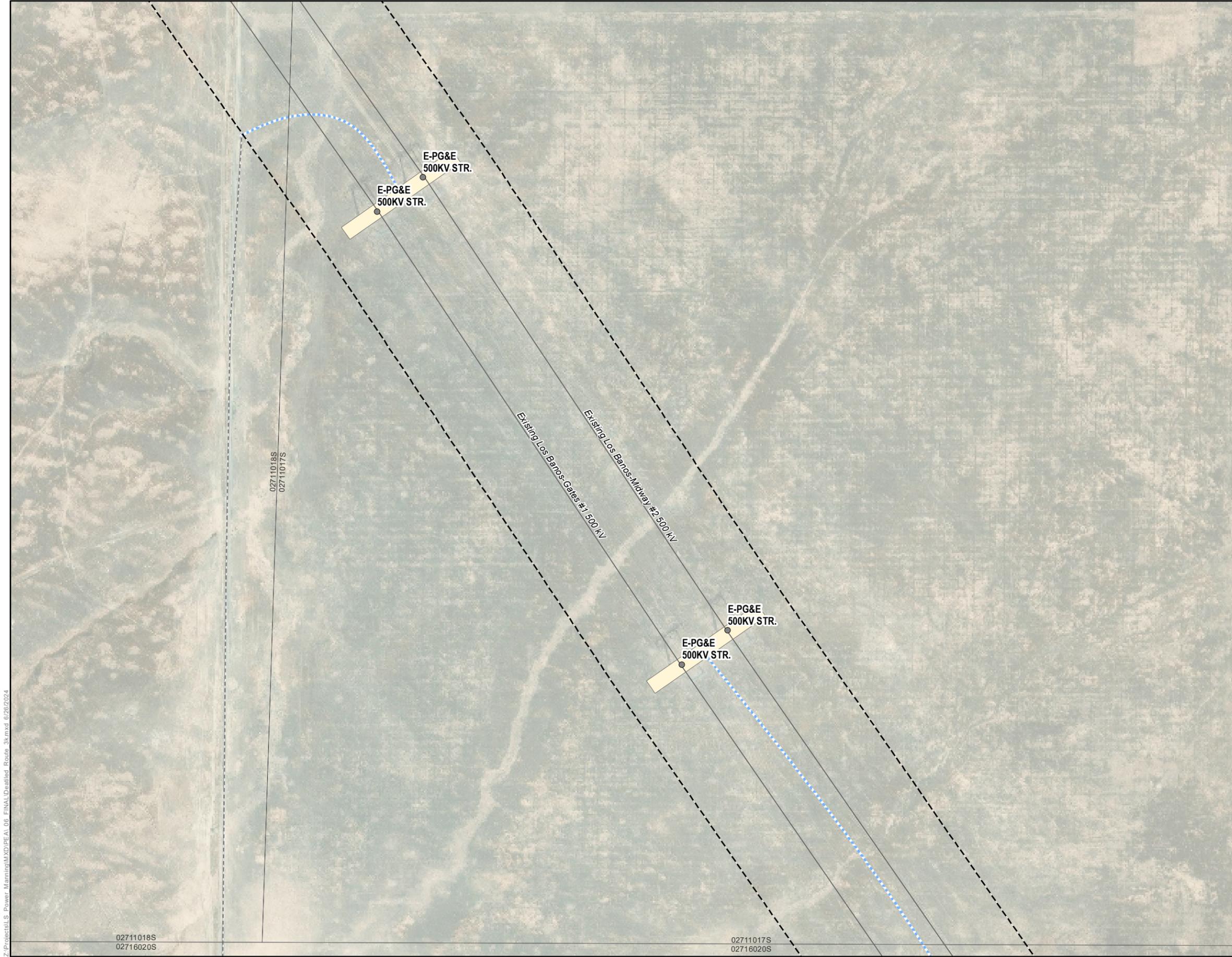
<b>Agency/Permit</b>
CDFW – Lake and Streambed Alteration Agreement and Section 2081 Incidental Take Permit
CVFPB – Encroachment Permit
CSLC - Lease or Permit
<i>Federal</i>
USACE - Section 404/Section 10 Permit
FAA - Determination of No Hazard
National Historic Preservation Act – Section 106 Consultation
NOAA – Section 7 Consultation
U.S. Fish and Wildlife - Section 7 Section Consultation

- CPUC: Has LS Power considered any alternatives?
  - o LS Power completed a preliminary routing feasibility study for each project during the CAISO proposal phase. LS Power is currently reevaluating the findings of the feasibility studies and is working to identify and evaluate several alternative substation sites.

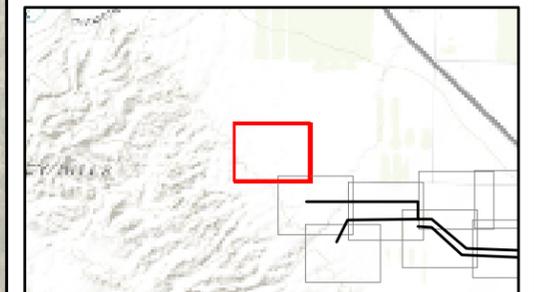
**Attachment 3-A: Detailed Route Map  
Map 1 of 35**

**Manning 500/230 Kilovolt  
Substation Project**

- Existing PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- Temporary Access Road
- Temporary Structure Work Area
- Parcel
- PG&E and LSPGC Rights-of-Way**
- ⌈⌋ Existing PG&E 500 kV ROW



- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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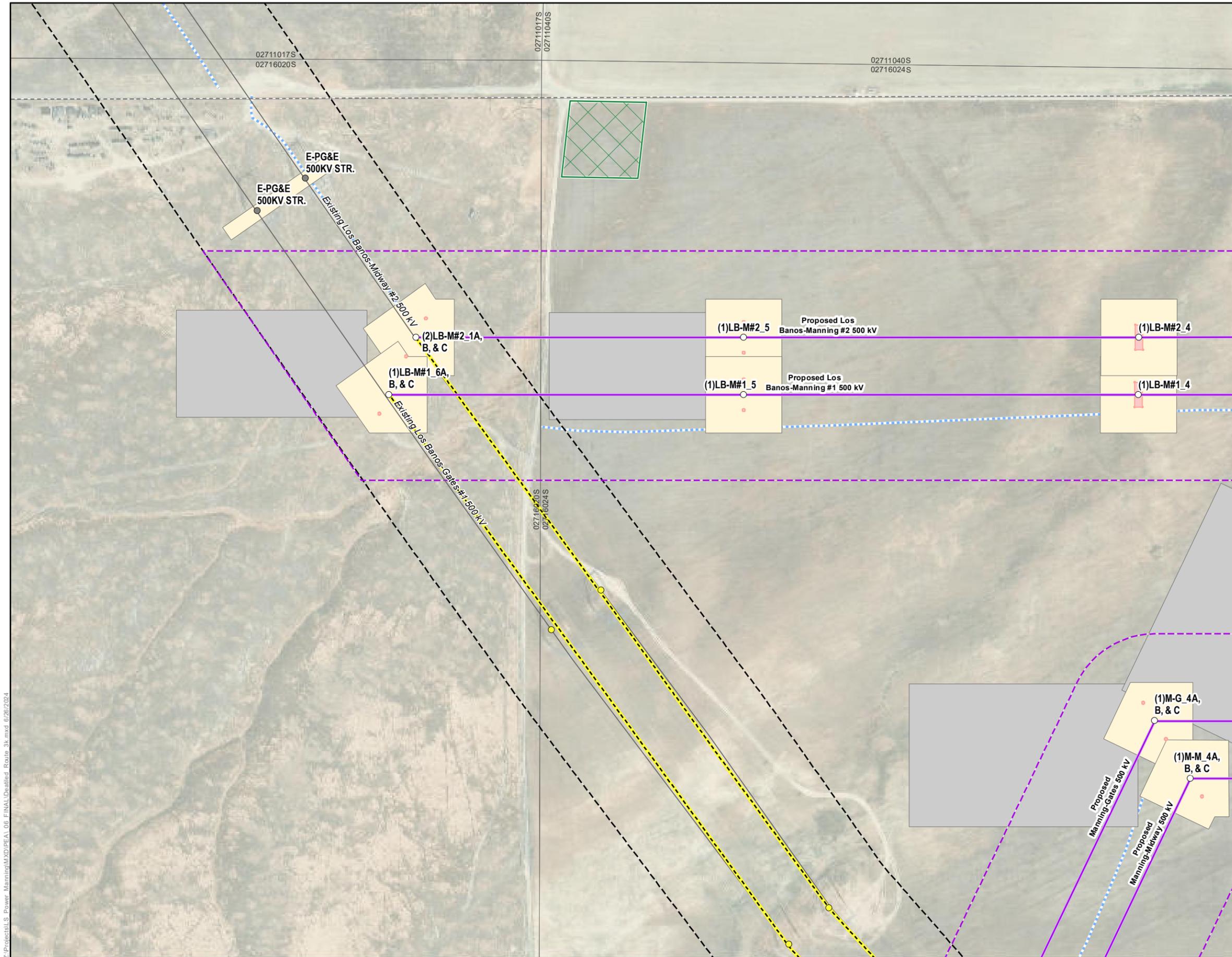
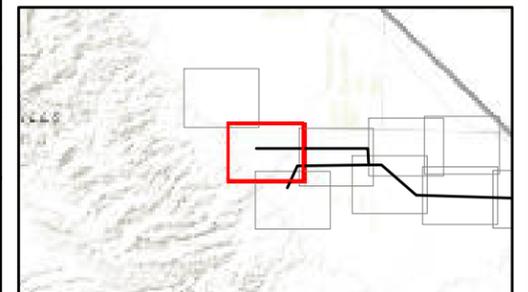


**Attachment 3-A: Detailed Route Map  
Map 2 of 35**

**Manning 500/230 Kilovolt  
Substation Project**

- Existing PG&E Structure
- Existing PG&E Structure to be Removed
- New PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- ⋯ Temporary Access Road
- ▭ Landing Zone
- ▭ Pulling Site
- ▭ Permanent Structure Disturbance
- ▭ Temporary Structure Work Area
- - - Existing PG&E Transmission Line to be Removed
- Proposed PG&E 500 kV Interconnections
- ▭ Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 500 kV ROW
- - - Proposed PG&E 500 kV ROW

- Notes:
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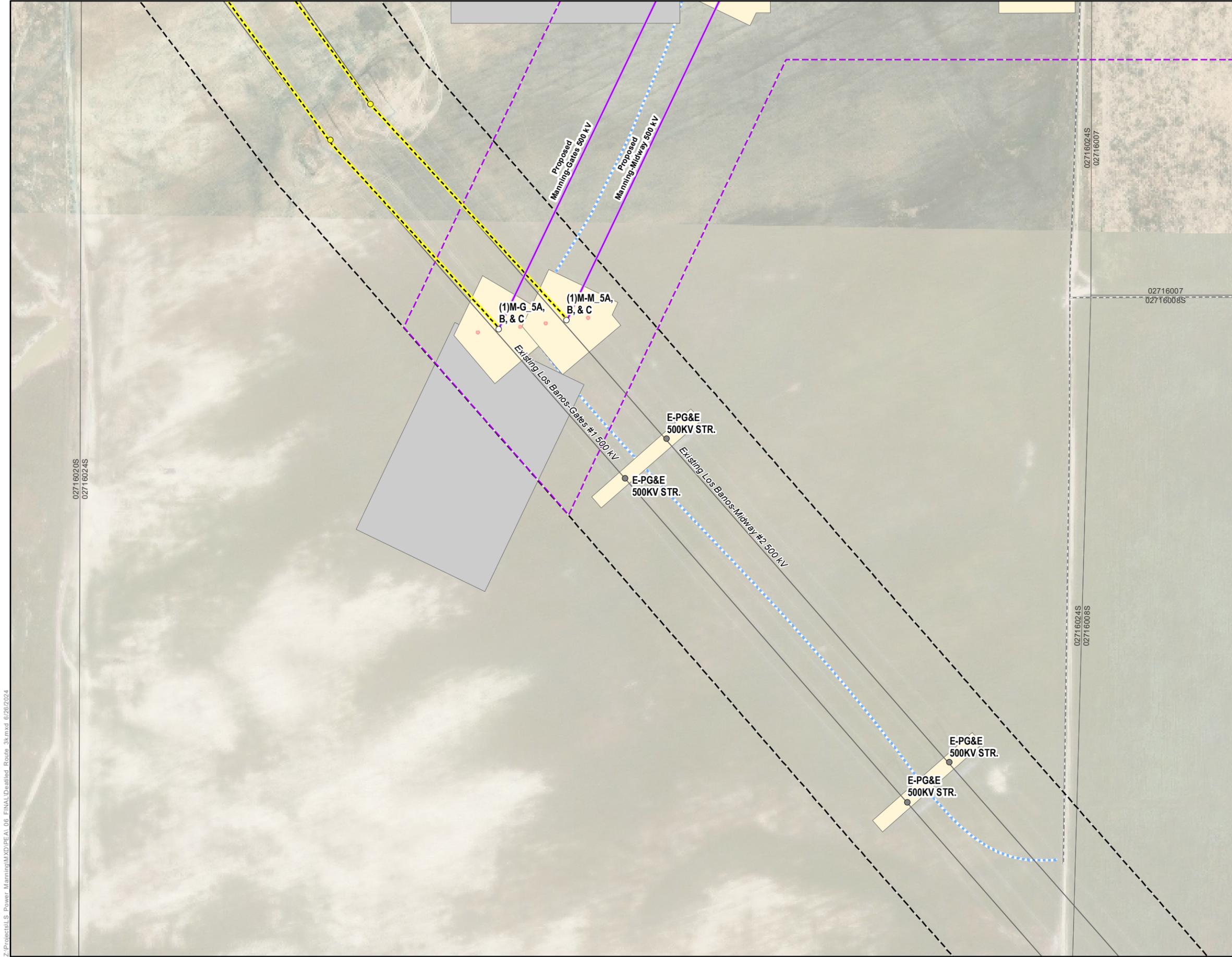
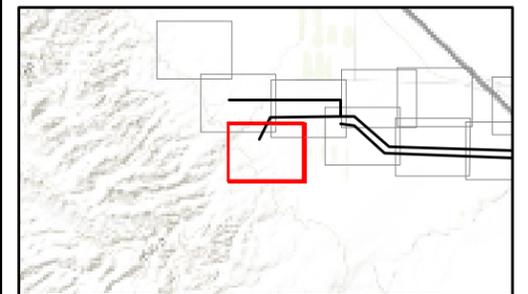
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**Attachment 3-A: Detailed Route Map  
Map 3 of 35**

**Manning 500/230 Kilovolt  
Substation Project**

- Existing PG&E Structure
- Existing PG&E Structure to be Removed
- New PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- Temporary Access Road
- Pulling Site
- Permanent Structure Disturbance
- Temporary Structure Work Area
- - - Existing PG&E Transmission Line to be Removed
- Proposed PG&E 500 kV Interconnections
- Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 500 kV ROW
- - - Proposed PG&E 500 kV ROW

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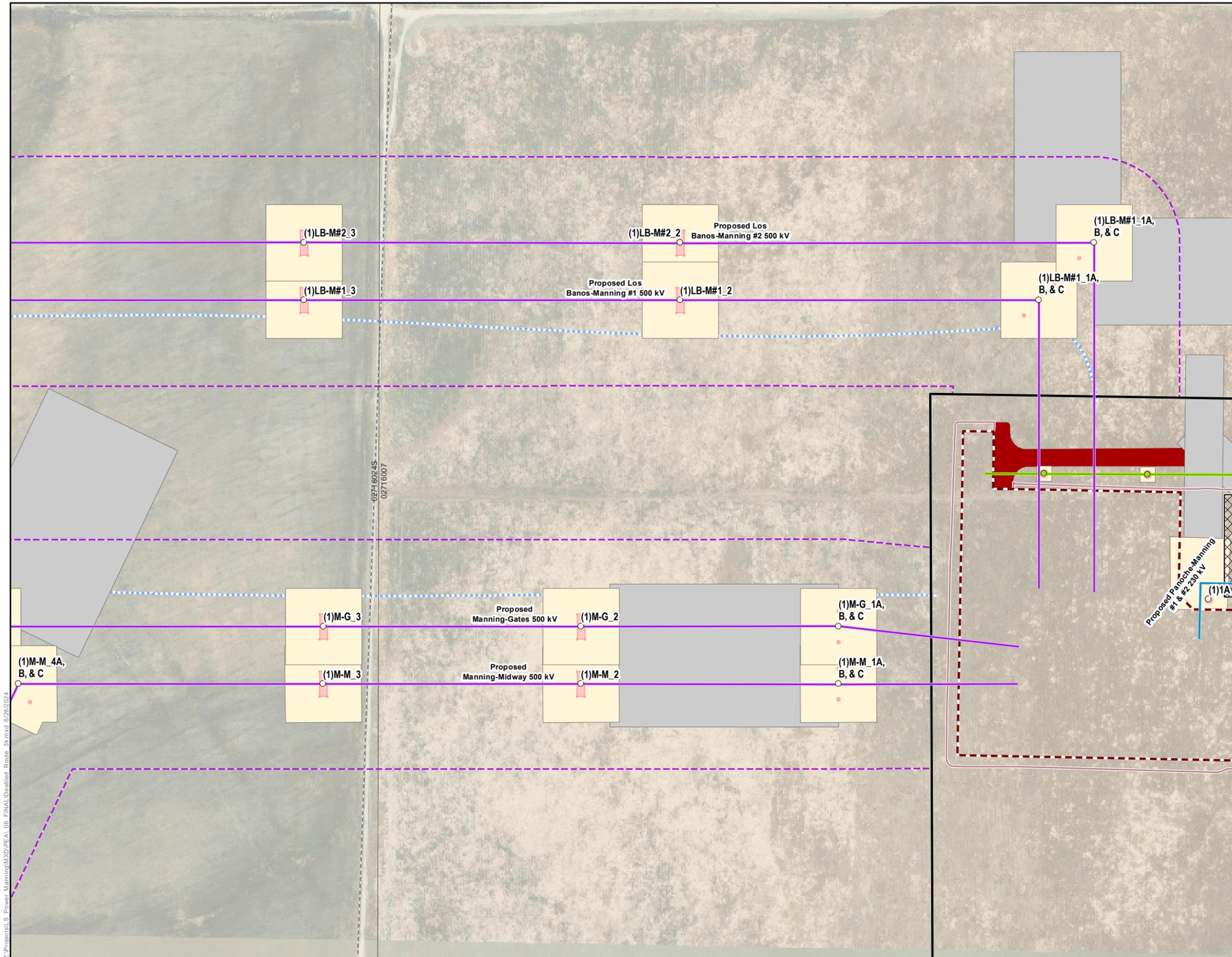
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Attachment 3-A: Detailed Route Map  
Map 4 of 35

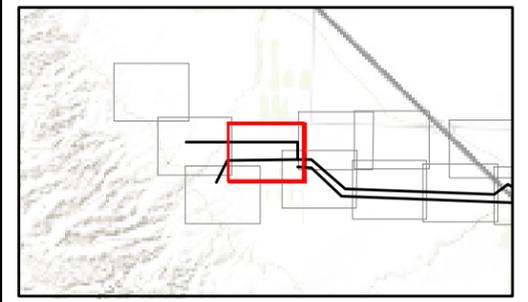
Manning 500/230 Kilovolt  
Substation Project



- New PG&E Structure
- New PG&E Distribution Pole
- - - Existing Access Road
- ⋯ Temporary Access Road
- Extent of Grading
- ▨ Detention Basin
- Pulling Site
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Substation Driveway
- Proposed LSPGC Manning Substation Site
- ▬ Proposed LSPGC Substation Fence Line
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 500 kV Interconnections
- Proposed PG&E 230 kV Interconnections
- Proposed PG&E 12 kV Distribution Line
- Parcel
- PG&E and LSPGC Rights-of-Way**
- ⋯ Proposed PG&E 500 kV ROW

Notes:

1. Existing transmission lines are denoted in italics.
2. Structure numbers shown in parentheses represent mileposts.
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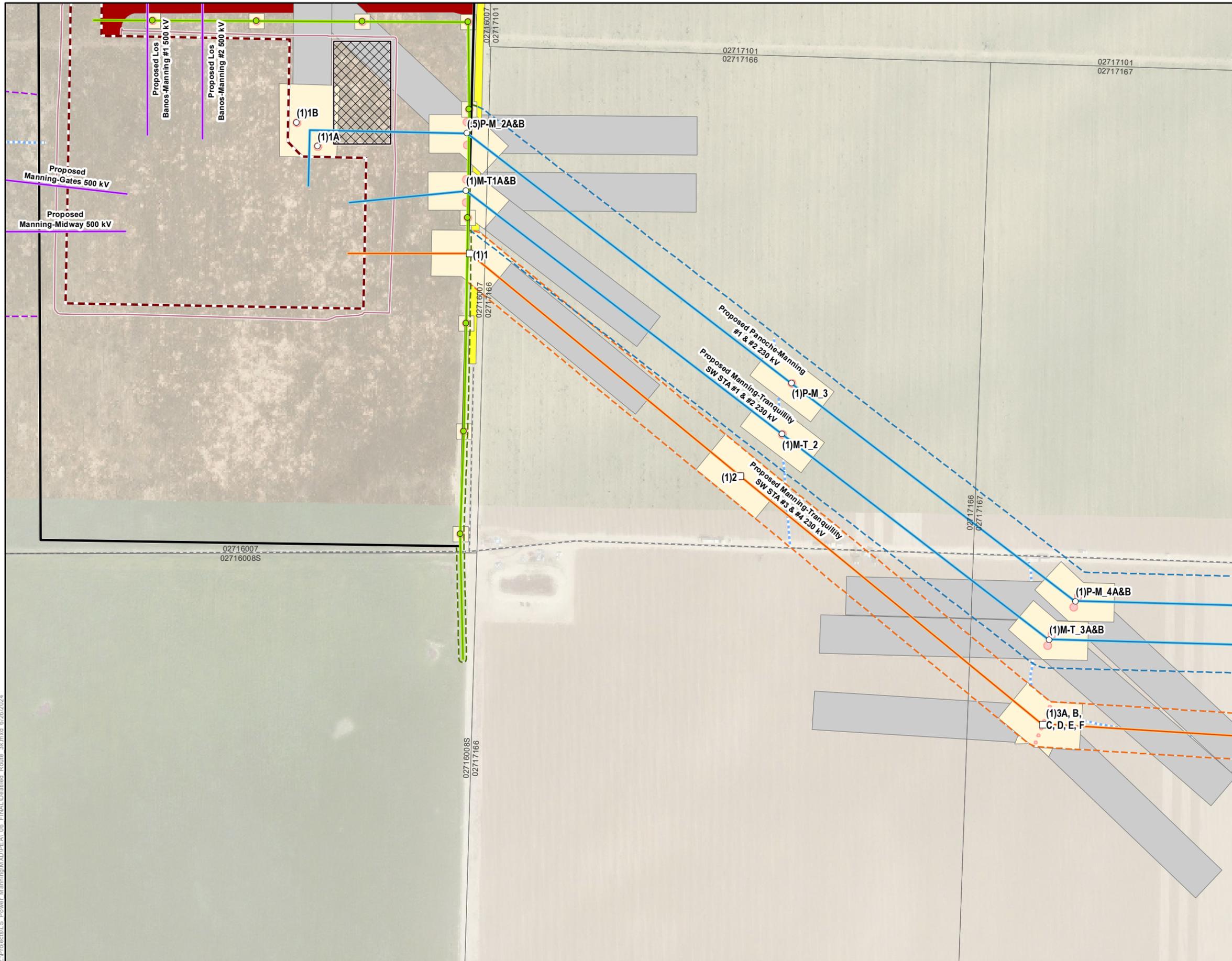
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Attachment 3-A: Detailed Route Map  
Map 5 of 35

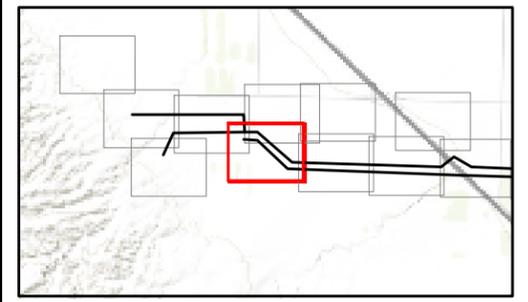
Manning 500/230 Kilovolt  
Substation Project



- New LSPGC Structure
  - New PG&E Structure
  - New PG&E Distribution Pole
  - - - Existing Access Road
  - ⋯ Temporary Access Road
  - ▭ Extent of Grading
  - ▭ Access Road Improvements
  - ▭ Detention Basin
  - ▭ Pulling Site
  - ▭ Permanent Structure Disturbance
  - ▭ Temporary Structure Work Area
  - ▭ Substation Driveway
  - ▭ Proposed LSPGC Manning Substation Site
  - ▭ Proposed LSPGC Substation Fence Line
  - ▭ Proposed LSPGC 230 kV Transmission Line
  - ▭ Proposed PG&E 500 kV Interconnections
  - ▭ Proposed PG&E 230 kV Interconnections
  - ▭ Proposed PG&E 12 kV Distribution Line
  - ▭ Parcel
- PG&E and LSPGC Rights-of-Way**
- ▭ Proposed LSPGC 230 kV ROW
  - ▭ Proposed PG&E 500 kV ROW
  - ▭ Proposed PG&E 230 kV ROW
  - ▭ Proposed PG&E 12 kV ROW

Notes:

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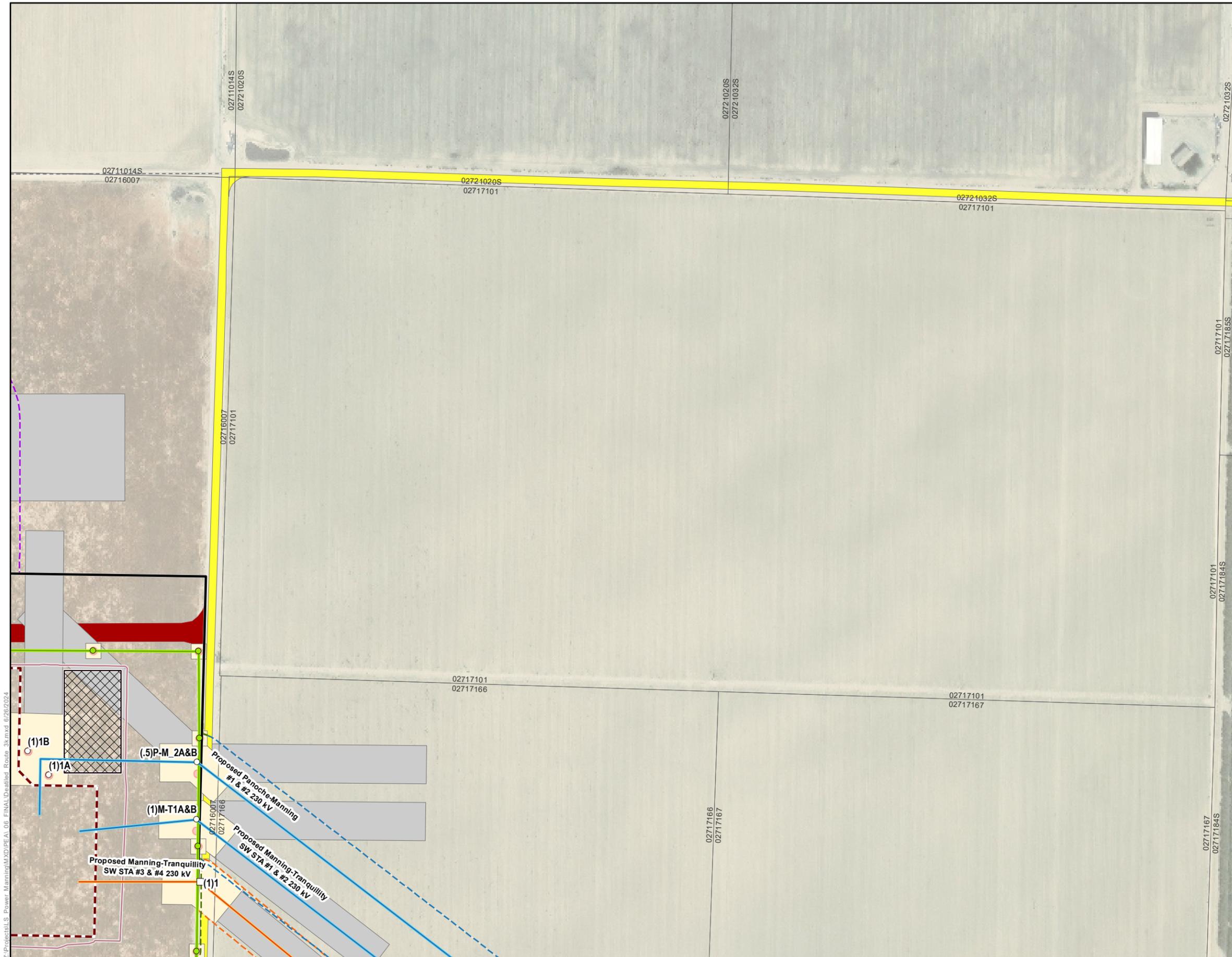
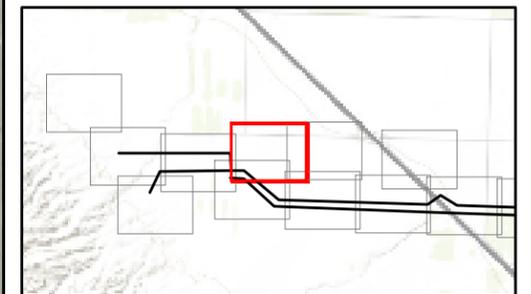
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**Attachment 3-A: Detailed Route Map  
Map 6 of 35**

**Manning 500/230 Kilovolt  
Substation Project**

- New LSPGC Structure
  - New PG&E Structure
  - New PG&E Distribution Pole
  - - - Existing Access Road
  - ▭ Extent of Grading
  - ▭ Access Road Improvements
  - ▨ Detention Basin
  - ▭ Pulling Site
  - ▭ Permanent Structure Disturbance
  - ▭ Temporary Structure Work Area
  - ▭ Substation Driveway
  - ▭ Proposed LSPGC Manning Substation Site
  - ▭ Proposed LSPGC Substation Fence Line
  - Proposed LSPGC 230 kV Transmission Line
  - Proposed PG&E 230 kV Interconnections
  - Proposed PG&E 12 kV Distribution Line
  - ▭ Parcel
- PG&E and LSPGC Rights-of-Way**
- ▭ Proposed LSPGC 230 kV ROW
  - ▭ Proposed PG&E 500 kV ROW
  - ▭ Proposed PG&E 230 kV ROW
  - ▭ Proposed PG&E 12 kV ROW

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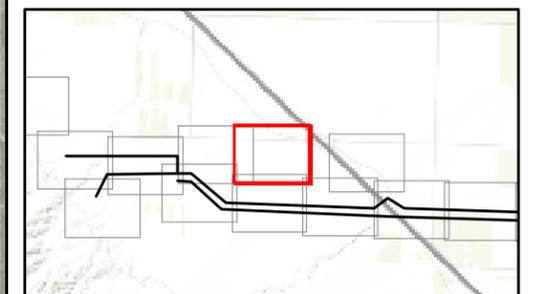
Attachment 3-A: Detailed Route Map  
Map 7 of 35

Manning 500/230 Kilovolt  
Substation Project

-  Access Road Improvements
-  Staging Area
-  Parcel



- Notes:
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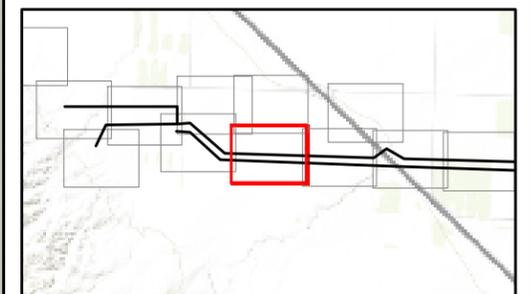
Attachment 3-A: Detailed Route Map  
Map 8 of 35

Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- New PG&E Structure
- - - Existing Access Road
- ⋯ Temporary Access Road
- Pulling Site
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Interconnections
- Parcel
- PG&E and LSPGC Rights-of-Way**
- ⋯ Proposed LSPGC 230 kV ROW
- ⋯ Proposed PG&E 230 kV ROW

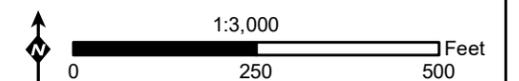


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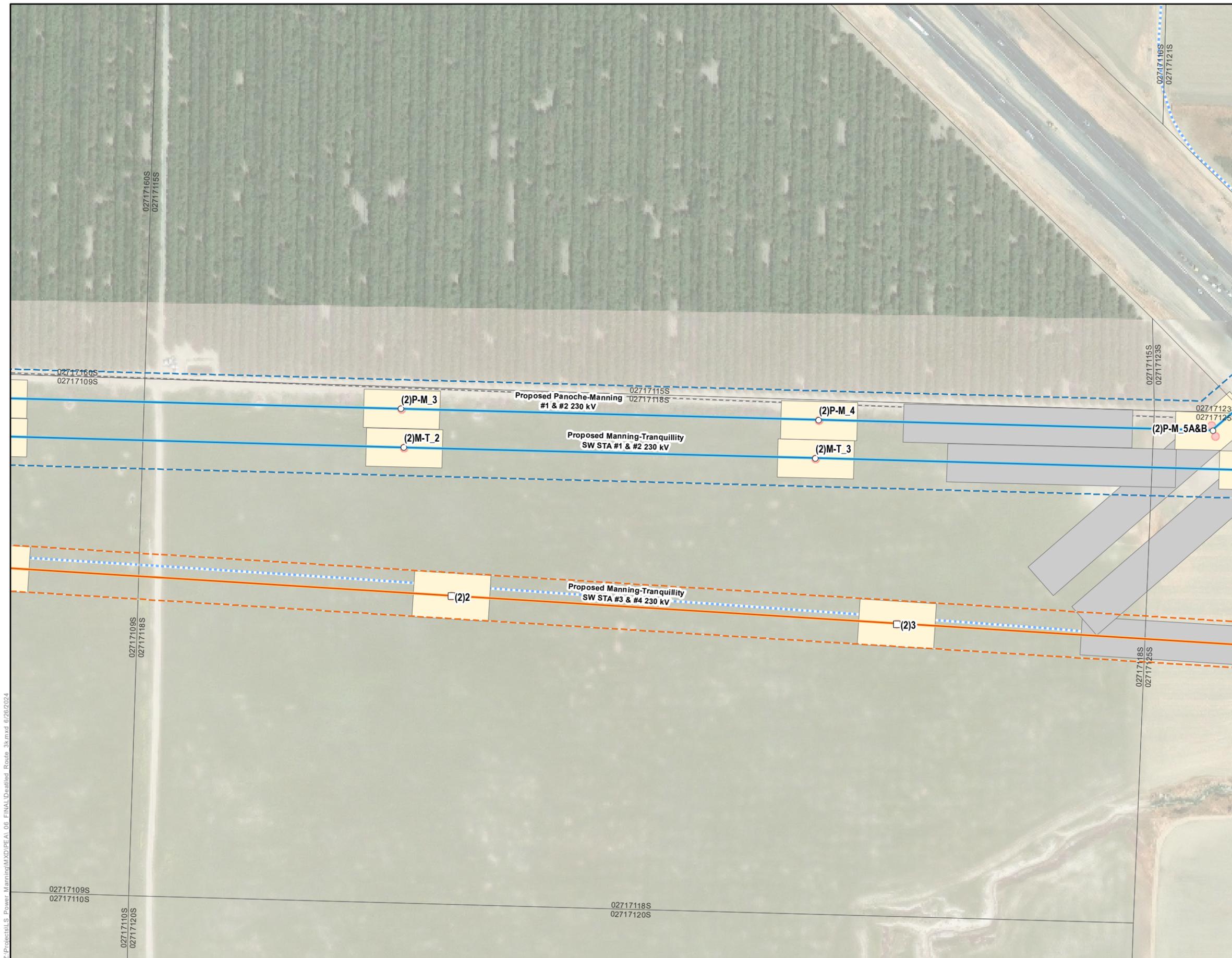
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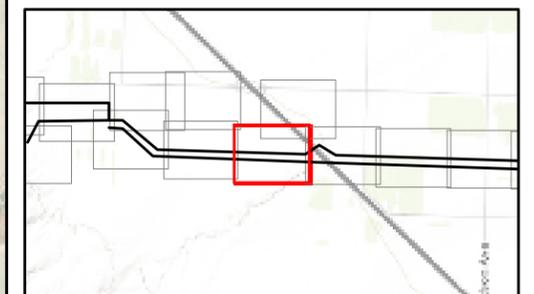
Attachment 3-A: Detailed Route Map  
Map 9 of 35

Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- New PG&E Structure
- Existing Access Road
- Temporary Access Road
- Pulling Site
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Interconnections
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Proposed LSPGC 230 kV ROW
- Proposed PG&E 230 kV ROW



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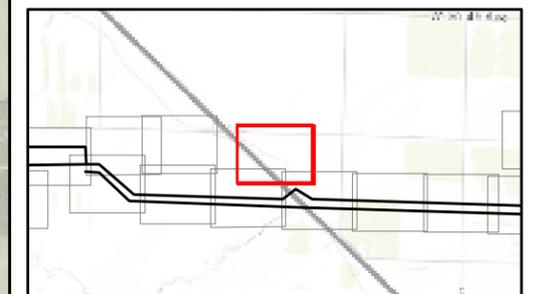


Manning 500/230 Kilovolt  
Substation Project

- Temporary Access Road
- Pulling Site
- Parcel



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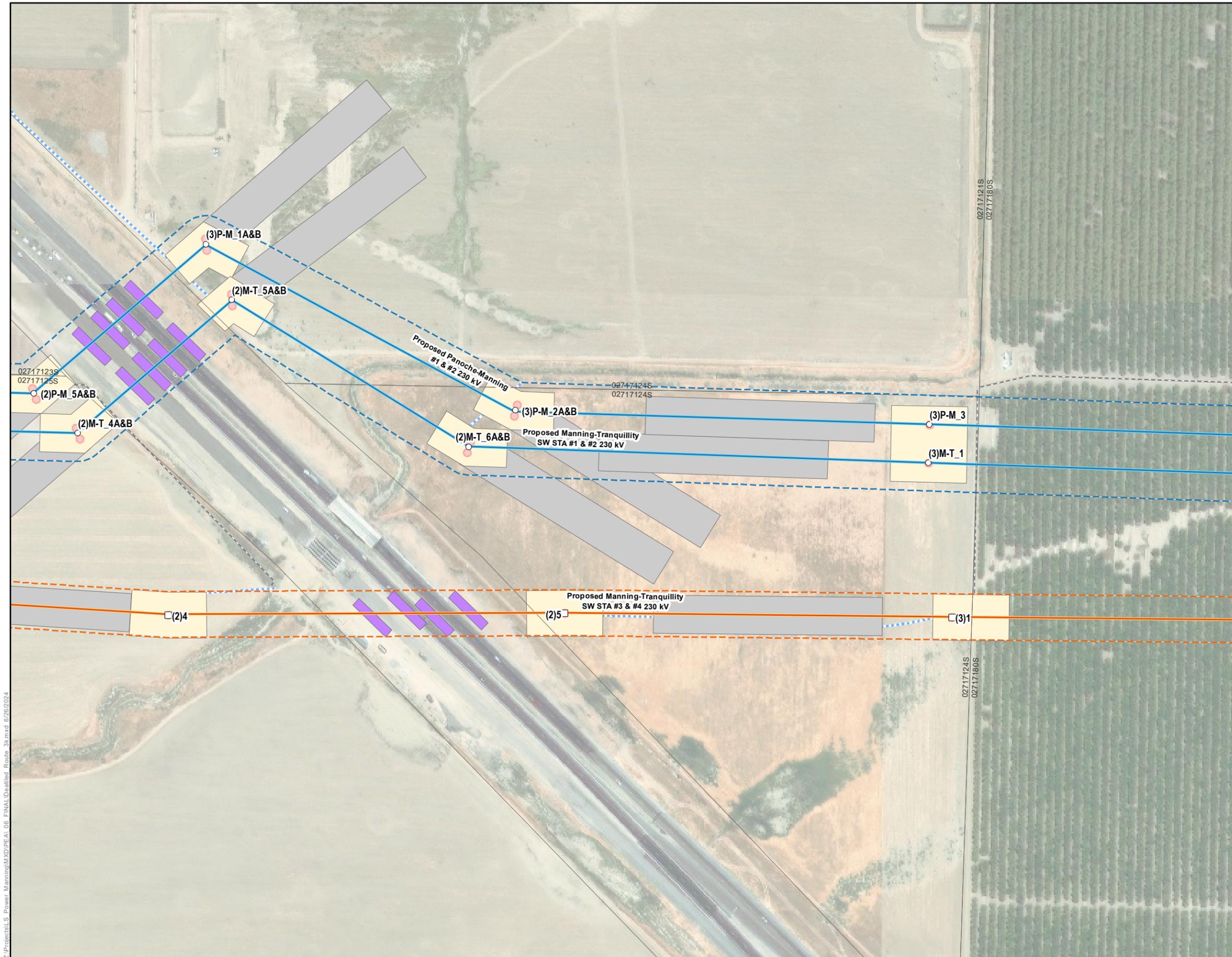
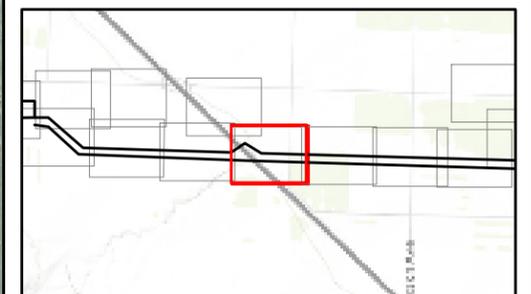
LSPower GRID CALIFORNIA INSIGNIA ENVIRONMENTAL



Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
  - New PG&E Structure
  - - - Existing Access Road
  - ⋯ Temporary Access Road
  - █ Guard Structure
  - █ Pulling Site
  - █ Permanent Structure Disturbance
  - █ Temporary Structure Work Area
  - Proposed LSPGC 230 kV Transmission Line
  - Proposed PG&E 230 kV Interconnections
  - ▭ Parcel
- PG&E and LSPGC Rights-of-Way**
- ▭ Proposed LSPGC 230 kV ROW
  - ▭ Proposed PG&E 230 kV ROW

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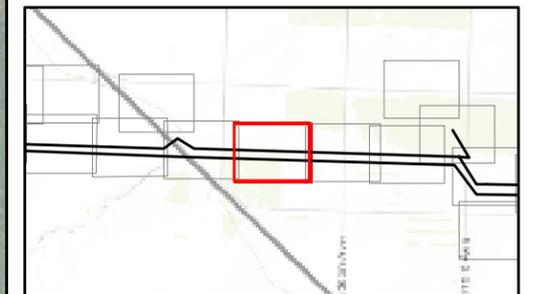
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Manning 500/230 Kilovolt  
Substation Project

-  New LSPGC Structure
-  New PG&E Structure
-  Existing Access Road
-  Permanent Access Road
-  Permanent Structure Disturbance
-  Temporary Structure Work Area
-  Proposed LSPGC 230 kV Transmission Line
-  Proposed PG&E 230 kV Interconnections
-  Parcel
- PG&E and LSPGC Rights-of-Way**
-  Proposed LSPGC 230 kV ROW
-  Proposed PG&E 230 kV ROW



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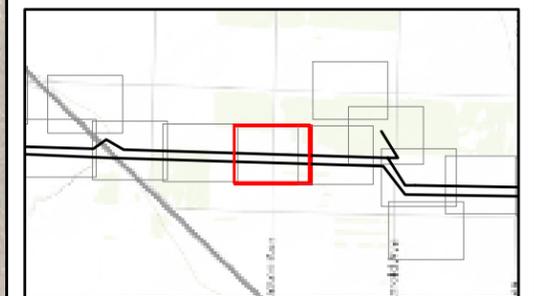


Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- New PG&E Structure
- - - Existing Access Road
- - - Permanent Access Road
- · · · · Temporary Access Road
- Permanent Structure Disturbance
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- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Interconnections
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Proposed LSPGC 230 kV ROW
- Proposed PG&E 230 kV ROW



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  3. All new ROWs (rights-of-way) would require land acquisition.
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  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



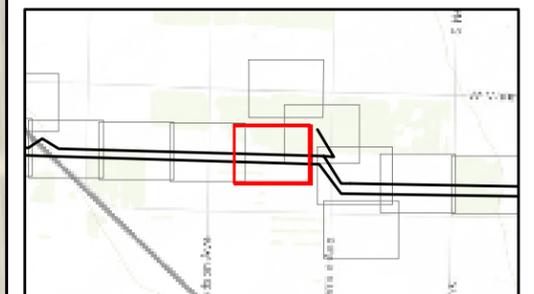
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Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- New PG&E Structure
- Existing Access Road
- .... Temporary Access Road
- Pulling Site
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Interconnections
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW
- Proposed LSPGC 230 kV ROW
- Proposed PG&E 230 kV ROW



- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



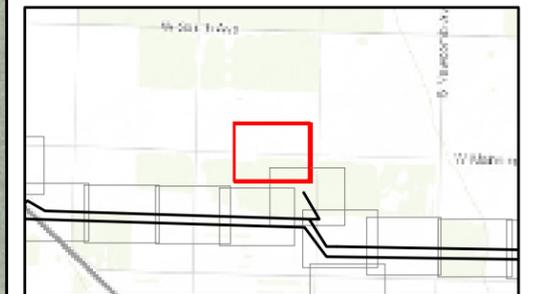
**Attachment 3-A: Detailed Route Map  
Map 15 of 35**

**Manning 500/230 Kilovolt  
Substation Project**

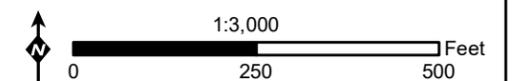
- Existing PG&E Structure
- Existing PG&E Transmission Line
- Temporary Access Road
- Temporary Structure Work Area
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW



- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



**LSPower GRID CALIFORNIA**     **INSIGNIA ENVIRONMENTAL**

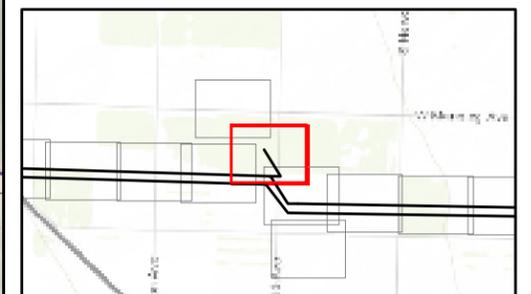


Manning 500/230 Kilovolt  
Substation Project

- Existing Structure to be Replaced
- ◆ New Replacement Structure
- Existing PG&E Structure
- New LSPGC Structure
- New PG&E Structure
- Existing PG&E Transmission Line
- Existing Access Road
- Temporary Access Road
- Pulling Site
- Staging Area
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Existing PG&E Transmission Line to be Removed
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Interconnections
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW
- Proposed LSPGC 230 kV ROW
- Proposed PG&E 230 kV ROW

Notes:

1. Existing transmission lines are denoted in italics.
2. Structure numbers shown in parentheses represent mileposts.
3. All new ROWs (rights-of-way) would require land acquisition.
4. All areas identified as workspace would require vegetation removal.
5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



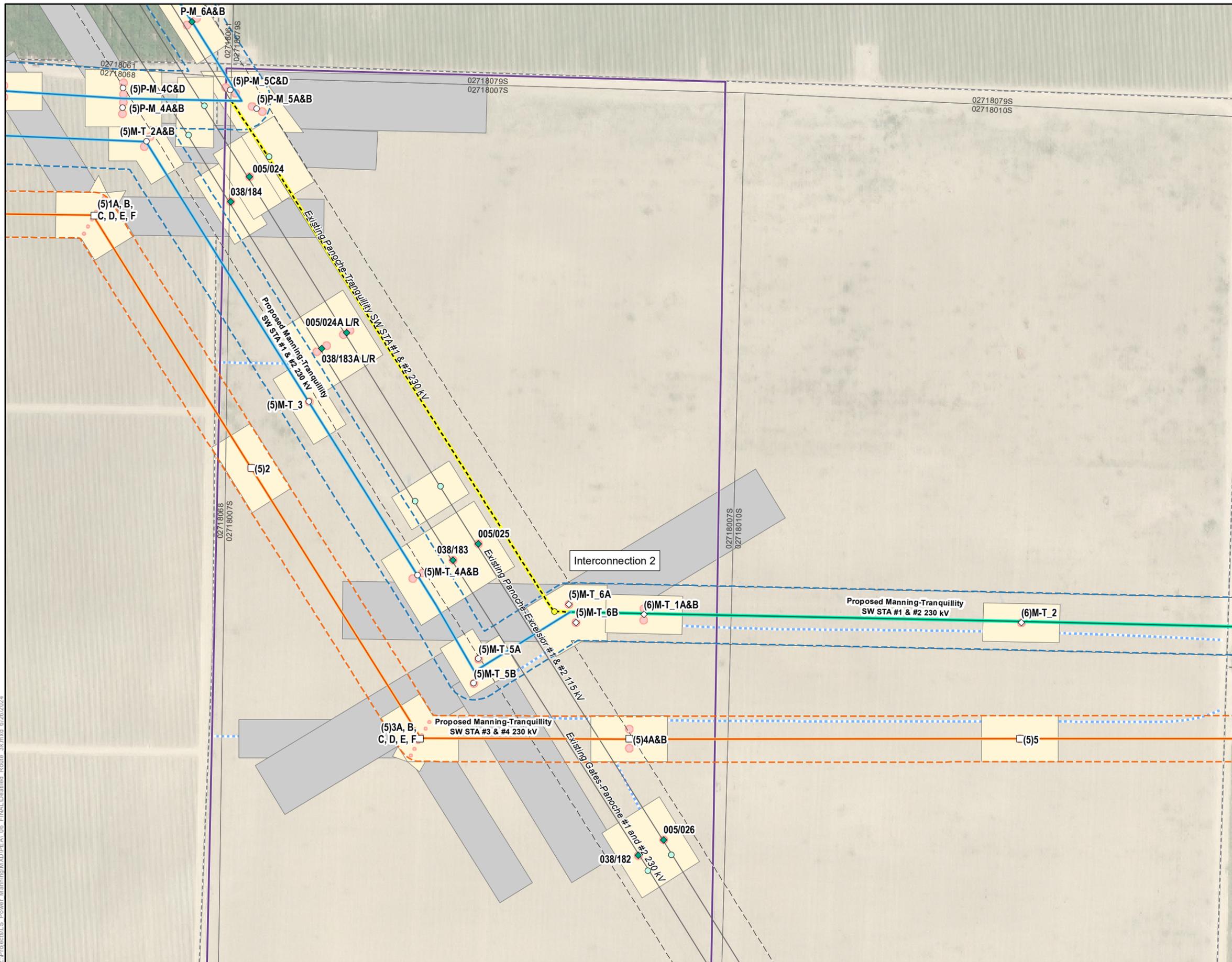
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LSPower GRID CALIFORNIA INSIGNIA ENVIRONMENTAL



Attachment 3-A: Detailed Route Map  
Map 17 of 35

Manning 500/230 Kilovolt  
Substation Project



- Existing Structure to be Replaced
- ◆ New Replacement Structure
- Existing PG&E Structure to be Removed
- New LSPGC Structure
- New PG&E Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- ⋯ Temporary Access Road
- Pulling Site
- Staging Area
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Existing PG&E Transmission Line to be Removed
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Interconnections
- Proposed PG&E 230 kV Reconductoring
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW
- Proposed LSPGC 230 kV ROW
- Proposed PG&E 230 kV ROW

Notes:

- Existing transmission lines are denoted in italics.
- Structure numbers shown in parentheses represent mileposts.
- All new ROWs (rights-of-way) would require land acquisition.
- All areas identified as workspace would require vegetation removal.
- The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



LSPower GRID CALIFORNIA    INSIGNIA ENVIRONMENTAL

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0 250 500 Feet

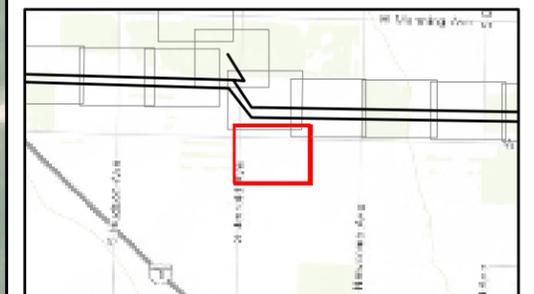
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Attachment 3-A: Detailed Route Map  
Map 18 of 35

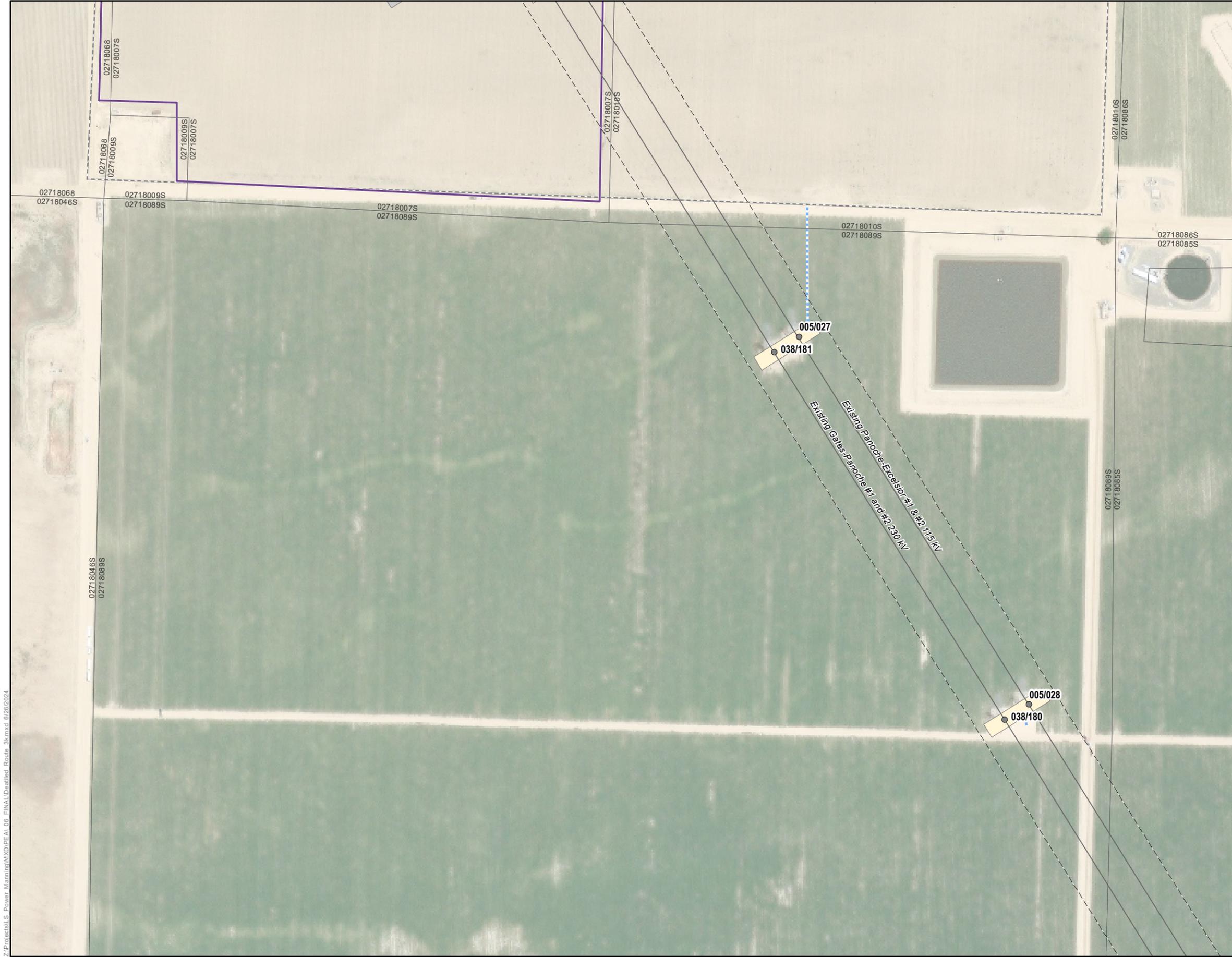
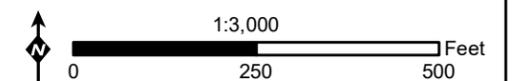
Manning 500/230 Kilovolt  
Substation Project

- Existing PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- Temporary Access Road
- Pulling Site
- ▭ Staging Area
- ▭ Temporary Structure Work Area
- ▭ Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 230 KV ROW

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



LSPower GRID CALIFORNIA INSIGNIA ENVIRONMENTAL

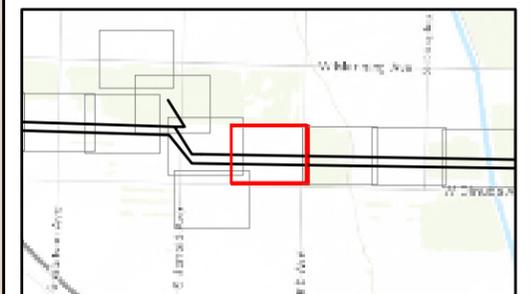


**Attachment 3-A: Detailed Route Map  
Map 19 of 35**

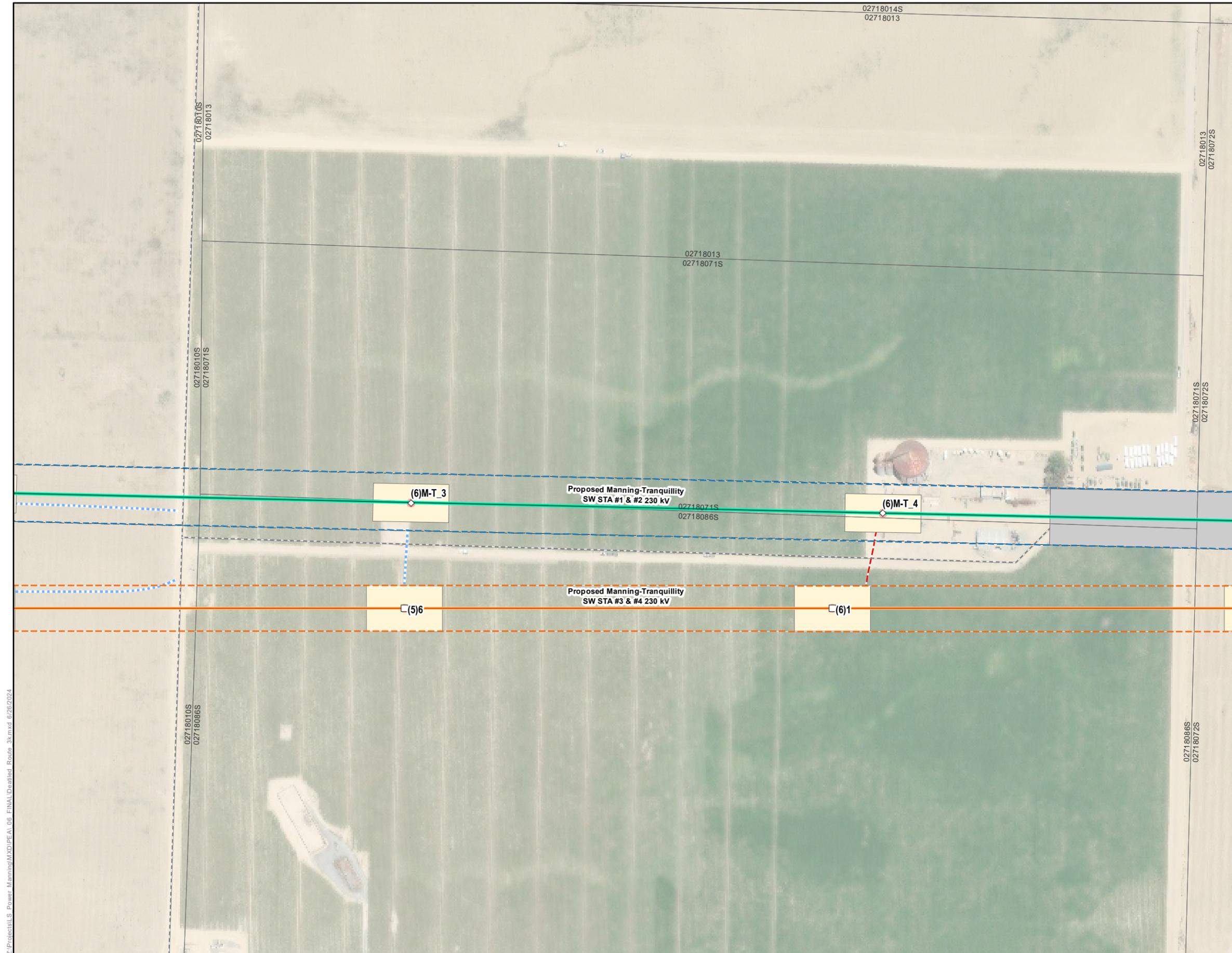
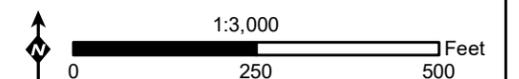
**Manning 500/230 Kilovolt  
Substation Project**

- New LSPGC Structure
  - ◇ Replace PG&E Structure
  - Existing PG&E Transmission Line
  - - - Existing Access Road
  - - - Permanent Access Road
  - Temporary Access Road
  - Pulling Site
  - Permanent Structure Disturbance
  - Temporary Structure Work Area
  - Proposed LSPGC 230 kV Transmission Line
  - Proposed PG&E 230 kV Reconductoring
  - Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 230 kV ROW
  - - - Proposed LSPGC 230 kV ROW
  - - - Proposed PG&E 230 kV ROW

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
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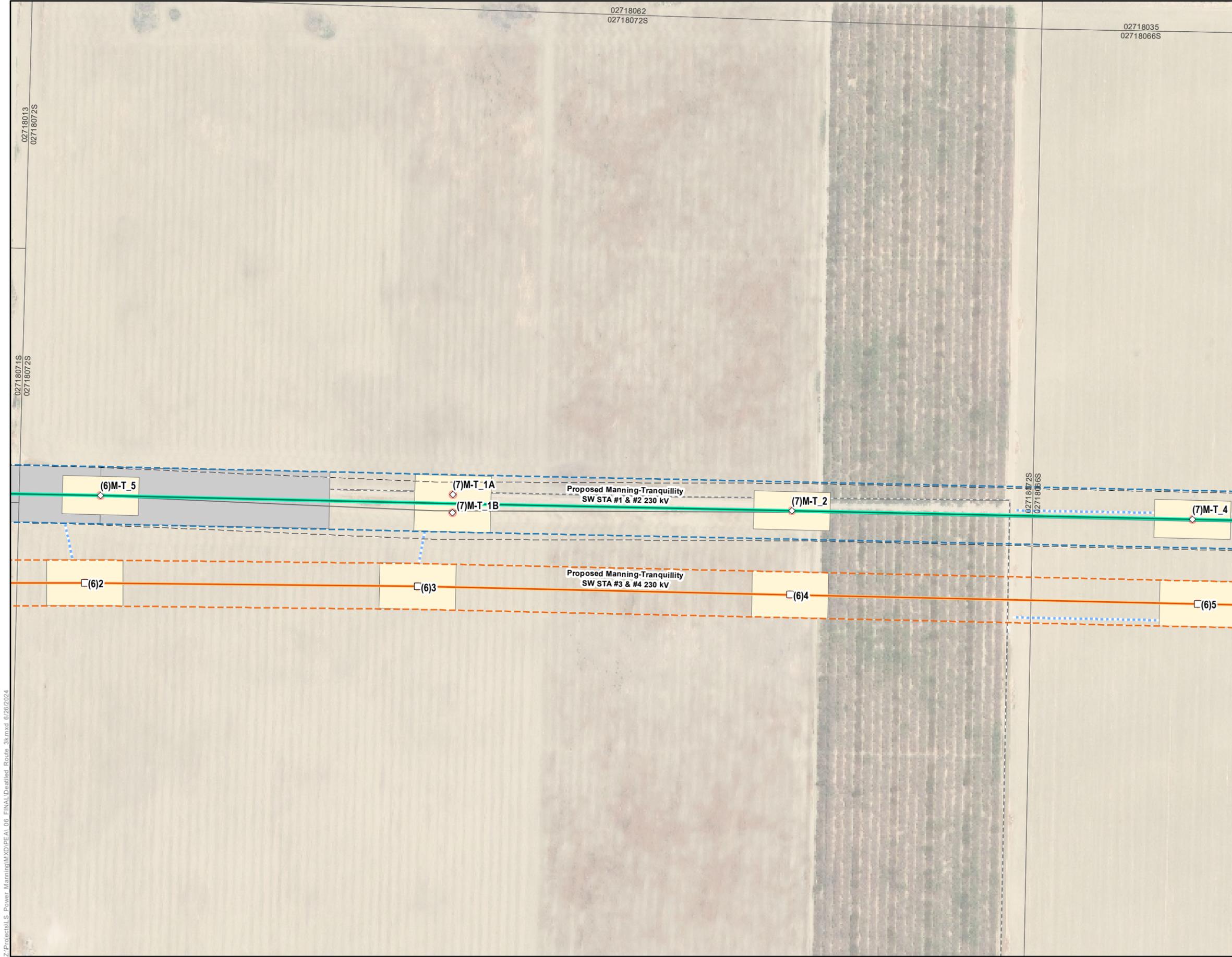
**LSPower GRID CALIFORNIA** **INSIGNIA ENVIRONMENTAL**



**Attachment 3-A: Detailed Route Map  
Map 20 of 35**

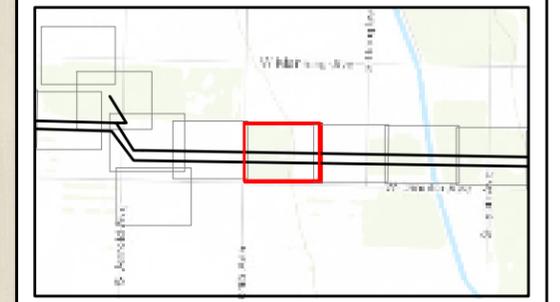
**Manning 500/230 Kilovolt  
Substation Project**

- New LSPGC Structure
  - ◇ Replace PG&E Structure
  - Existing PG&E Transmission Line
  - - - Existing Access Road
  - · · · · Temporary Access Road
  - Pulling Site
  - Permanent Structure Disturbance
  - Temporary Structure Work Area
  - Proposed LSPGC 230 kV Transmission Line
  - Proposed PG&E 230 kV Reconductoring
  - Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW
  - Proposed LSPGC 230 kV ROW
  - Proposed PG&E 230 kV ROW



Notes:

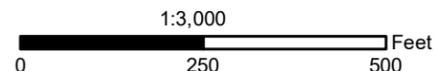
1. Existing transmission lines are denoted in italics.
2. Structure numbers shown in parentheses represent mileposts.
3. All new ROWs (rights-of-way) would require land acquisition.
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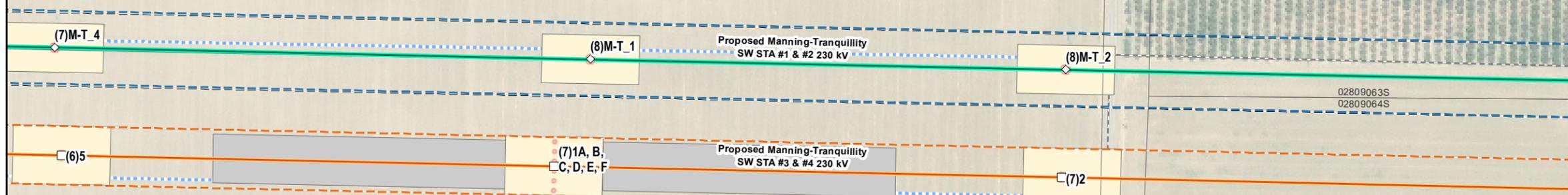


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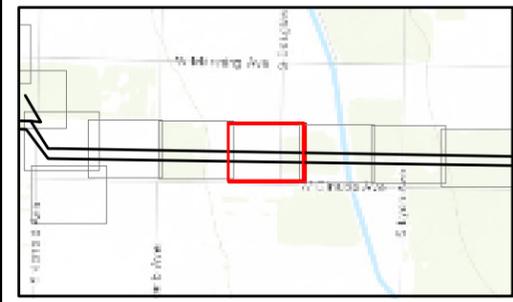
### Attachment 3-A: Detailed Route Map Map 21 of 35

### Manning 500/230 Kilovolt Substation Project

- New LSPGC Structure
  - ◇ Replace PG&E Structure
  - Existing PG&E Transmission Line
  - - - Existing Access Road
  - · · · · Temporary Access Road
  - Pulling Site
  - Permanent Structure Disturbance
  - Temporary Structure Work Area
  - Proposed LSPGC 230 kV Transmission Line
  - Proposed PG&E 230 kV Reconductoring
  - Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 230 kV ROW
  - - - Proposed LSPGC 230 kV ROW
  - - - Proposed PG&E 230 kV ROW



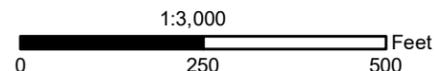
- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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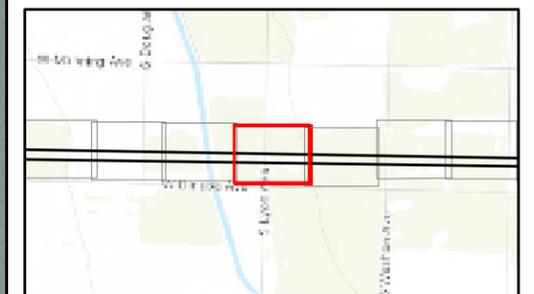


Attachment 3-A: Detailed Route Map  
Map 23 of 35

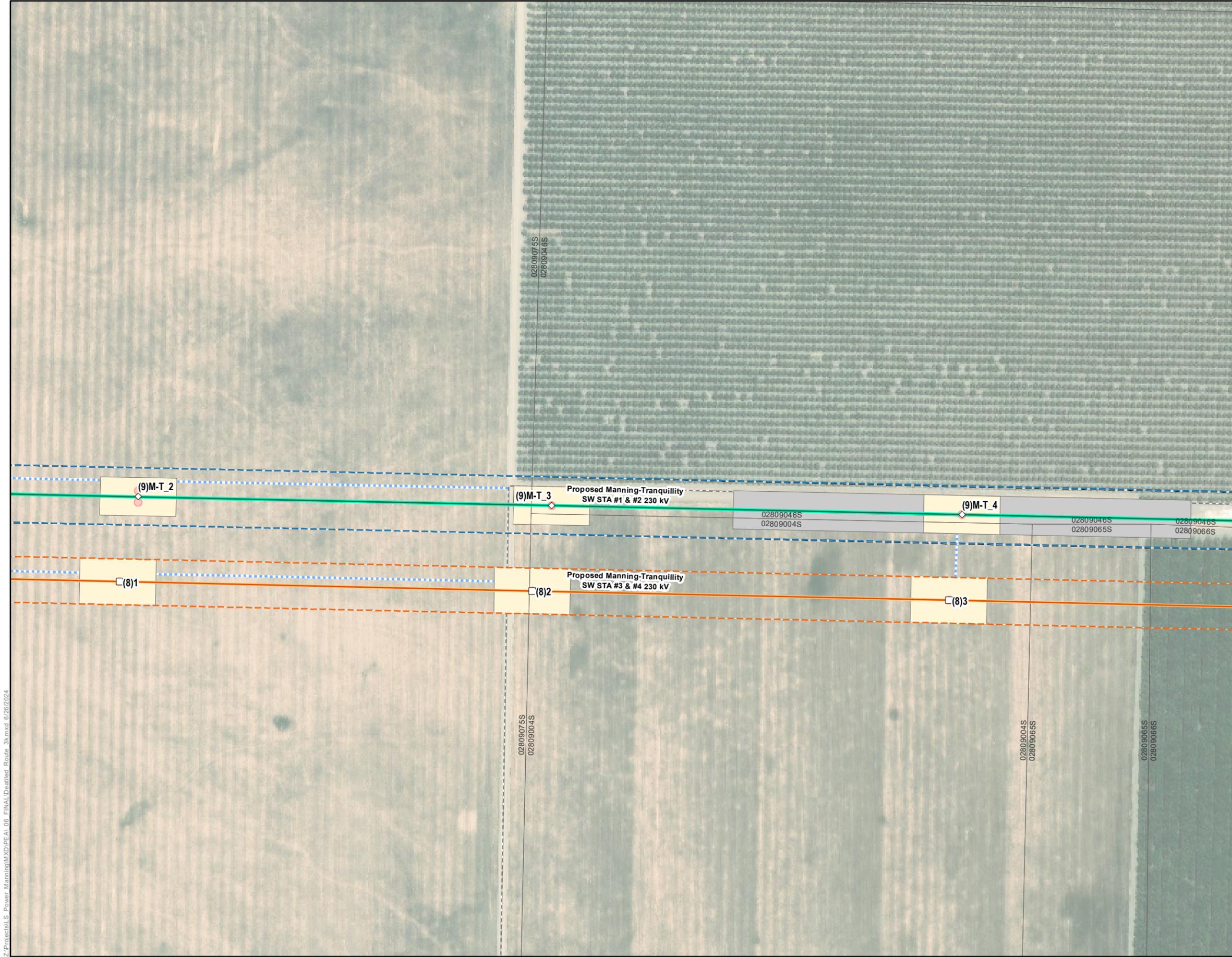
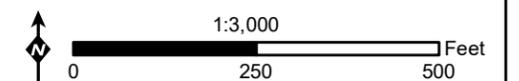
Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- · · · · Temporary Access Road
- Pulling Site
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 230 kV ROW
- - - Proposed LSPGC 230 kV ROW
- - - Proposed PG&E 230 kV ROW

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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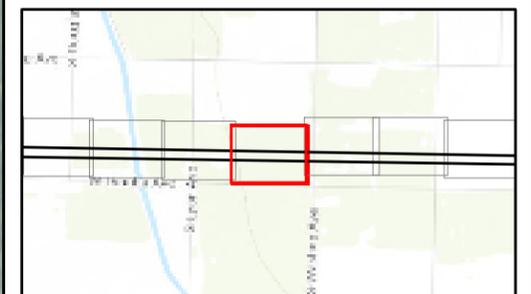
Attachment 3-A: Detailed Route Map  
Map 24 of 35

Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- - - Permanent Access Road
- Temporary Access Road
- Pulling Site
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 230 kV ROW
- - - Proposed LSPGC 230 kV ROW
- - - Proposed PG&E 230 kV ROW



- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.

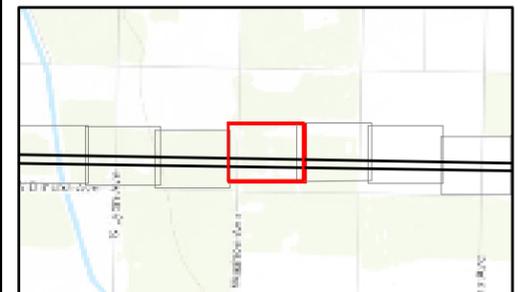


Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- ⋯ Temporary Access Road
- Pulling Site
- ▭ Staging Area
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- ▭ Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 230 kV ROW
- - - Proposed LSPGC 230 kV ROW
- - - Proposed PG&E 230 kV ROW

Notes:

1. Existing transmission lines are denoted in italics.
2. Structure numbers shown in parentheses represent mileposts.
3. All new ROWs (rights-of-way) would require land acquisition.
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LSPower GRID CALIFORNIA    INSIGNIA ENVIRONMENTAL

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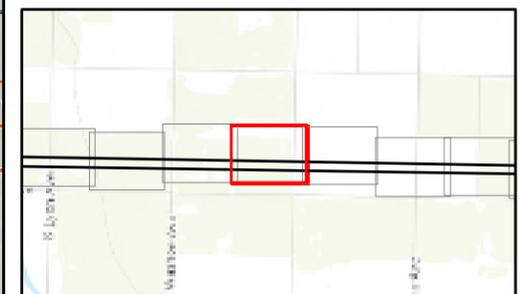
0      250      500 Feet

Attachment 3-A: Detailed Route Map  
Map 26 of 35

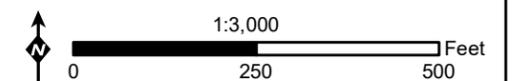
Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- ⋯ Temporary Access Road
- ▨ Landing Zone
- ▭ Staging Area
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- Parcel
- PG&E and LSPGC Rights-of-Way**
- ▭ Existing PG&E 230 kV ROW
- ▭ Proposed LSPGC 230 kV ROW
- ▭ Proposed PG&E 230 kV ROW

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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02809077S  
02809021S

02810160  
02810103S

Proposed Manning-Tranquillity  
SW STA #1 & #2 230 kV

Proposed Manning-Tranquillity  
SW STA #3 & #4 230 kV

(11)M-T\_2

(11)M-T\_3

(11)M-T\_4

(9)5

(10)1

(10)2

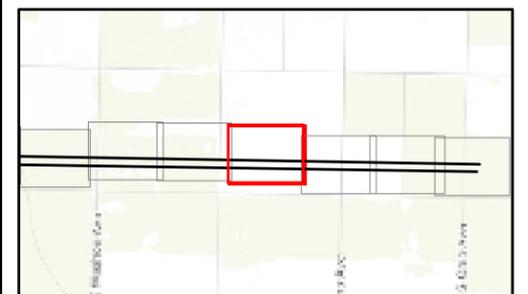
**Attachment 3-A: Detailed Route Map  
Map 27 of 35**

**Manning 500/230 Kilovolt  
Substation Project**

- New LSPGC Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- ⋯ Temporary Access Road
- ▭ Landing Zone
- ▭ Pulling Site
- ▭ Staging Area
- ▭ Permanent Structure Disturbance
- ▭ Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- ▭ Parcel
- PG&E and LSPGC Rights-of-Way**
- ▭ Existing PG&E 230 kV ROW
- ▭ Proposed LSPGC 230 kV ROW
- ▭ Proposed PG&E 230 kV ROW

Notes:

1. Existing transmission lines are denoted in italics.
2. Structure numbers shown in parentheses represent mileposts.
3. All new ROWs (rights-of-way) would require land acquisition.
4. All areas identified as workspace would require vegetation removal.
5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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LSPower GRID CALIFORNIA    INSIGNIA ENVIRONMENTAL

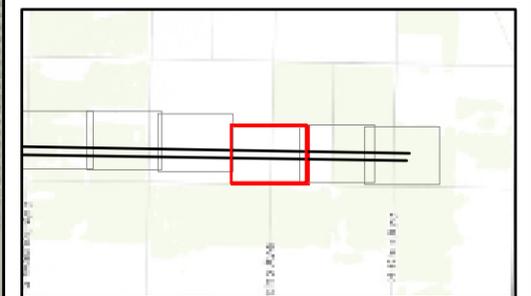
North Arrow    1:3,000    0    250    500 Feet

Manning 500/230 Kilovolt  
Substation Project

- New LSPGC Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- · · · · Temporary Access Road
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- Parcel
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 230 kV ROW
- - - Proposed LSPGC 230 kV ROW
- - - Proposed PG&E 230 kV ROW



- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.

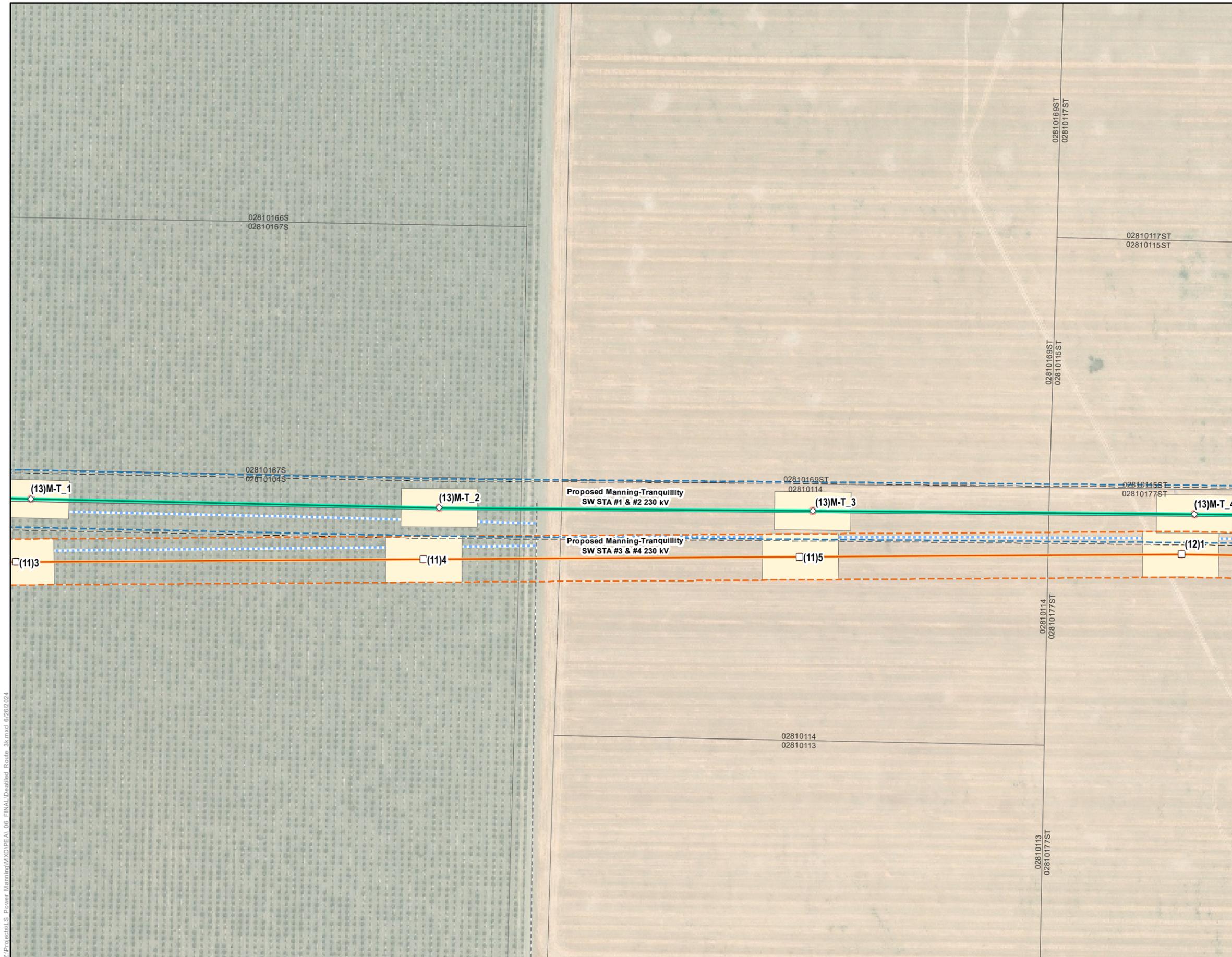
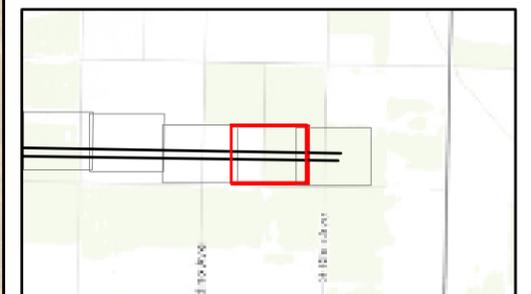


Attachment 3-A: Detailed Route Map  
Map 29 of 35

Manning 500/230 Kilovolt  
Substation Project

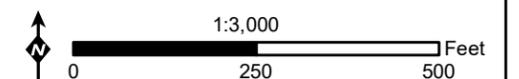
- New LSPGC Structure
- ◇ Replace PG&E Structure
- Existing PG&E Transmission Line
- - - Existing Access Road
- · · · · Temporary Access Road
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW
- - - Proposed LSPGC 230 kV ROW
- - - Proposed PG&E 230 kV ROW

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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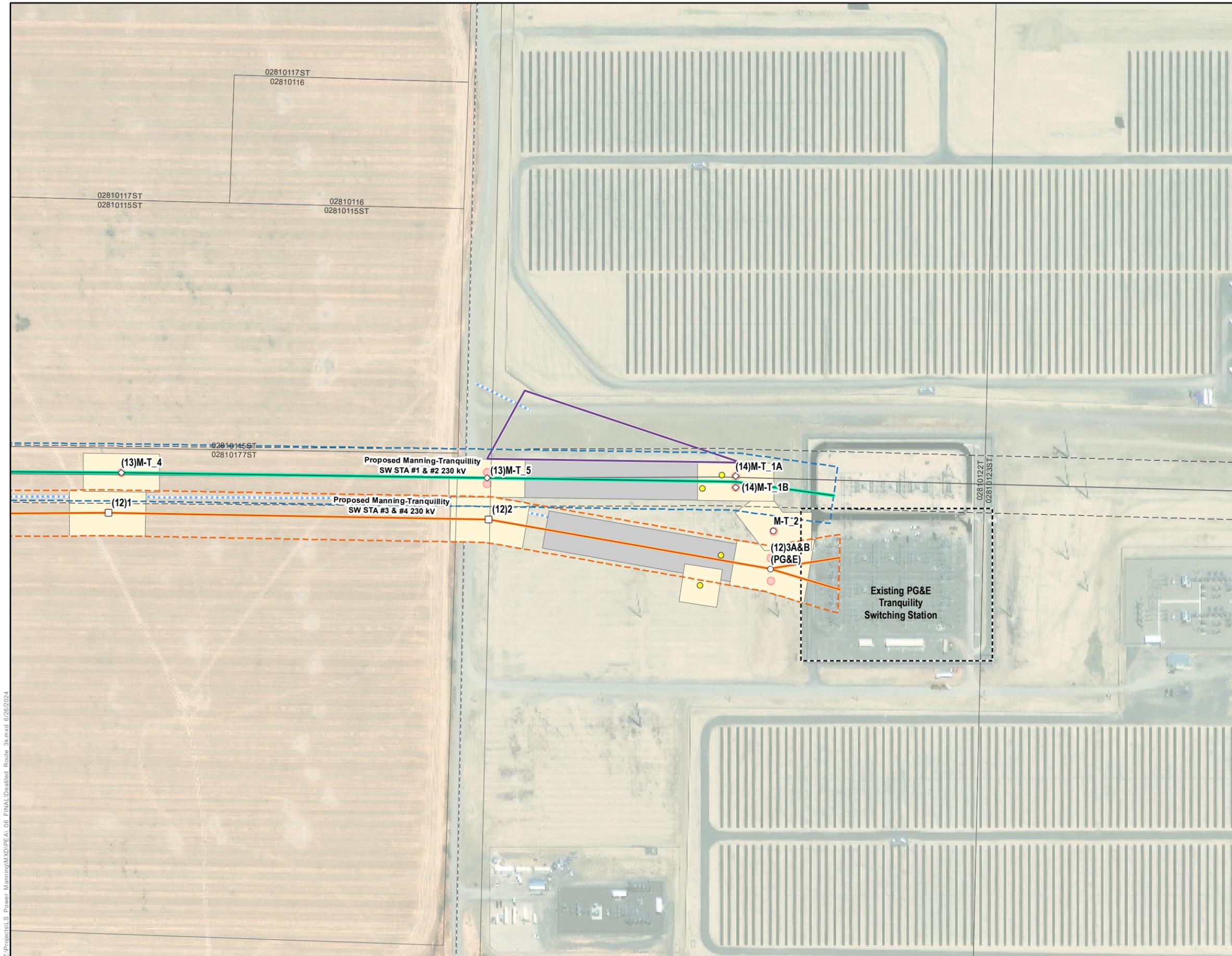
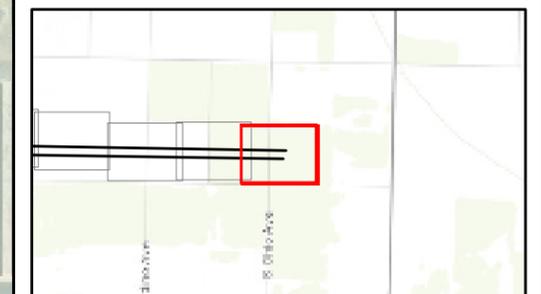


**Attachment 3-A: Detailed Route Map**  
**Map 30 of 35**

**Manning 500/230 Kilovolt**  
**Substation Project**

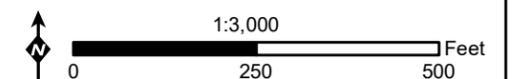
- Existing PG&E Structure to be Removed
- New LSPGC Structure
- New PG&E Structure
- Replace PG&E Structure
- Existing PG&E Transmission Line
- Existing PG&E Tranquillity Switching Station
- Existing Access Road
- Temporary Access Road
- Pulling Site
- Staging Area
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Proposed LSPGC 230 kV Transmission Line
- Proposed PG&E 230 kV Reconductoring
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW
- Proposed LSPGC 230 kV ROW
- Proposed PG&E 230 kV ROW

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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**Attachment 3-A: Detailed Route Map  
Map 31 of 35**

**Manning 500/230 Kilovolt  
Substation Project**

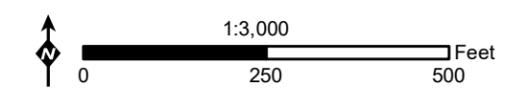
- Temporary Structure
- Existing PG&E Structure to be Removed
- New PG&E Structure
- Existing PG&E Transmission Line
- Existing PG&E Panoche Substation
- Temporary Access Road
- Permanent Structure Disturbance
- Temporary Structure Work Area
- Parcel
- PG&E and LSPGC Rights-of-Way**
- Existing PG&E 230 kV ROW

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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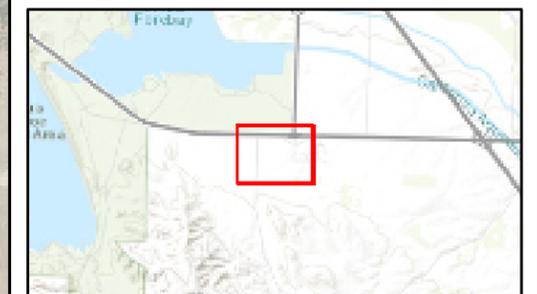
Manning 500/230 Kilovolt  
Substation Project

- Existing PG&E Transmission Line
- - - Existing PG&E Los Banos Substation
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 500 kV ROW

Existing PG&E  
Los Banos Substation

Existing Los Banos-Gates #1 500 kV  
Existing Los Banos-Midway #2 500 kV

- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



Manning 500/230 Kilovolt  
Substation Project

- Existing PG&E Transmission Line
- - - Existing PG&E Las Aguilas Switching Station



Existing PG&E  
Las Aguilas  
Switching Station

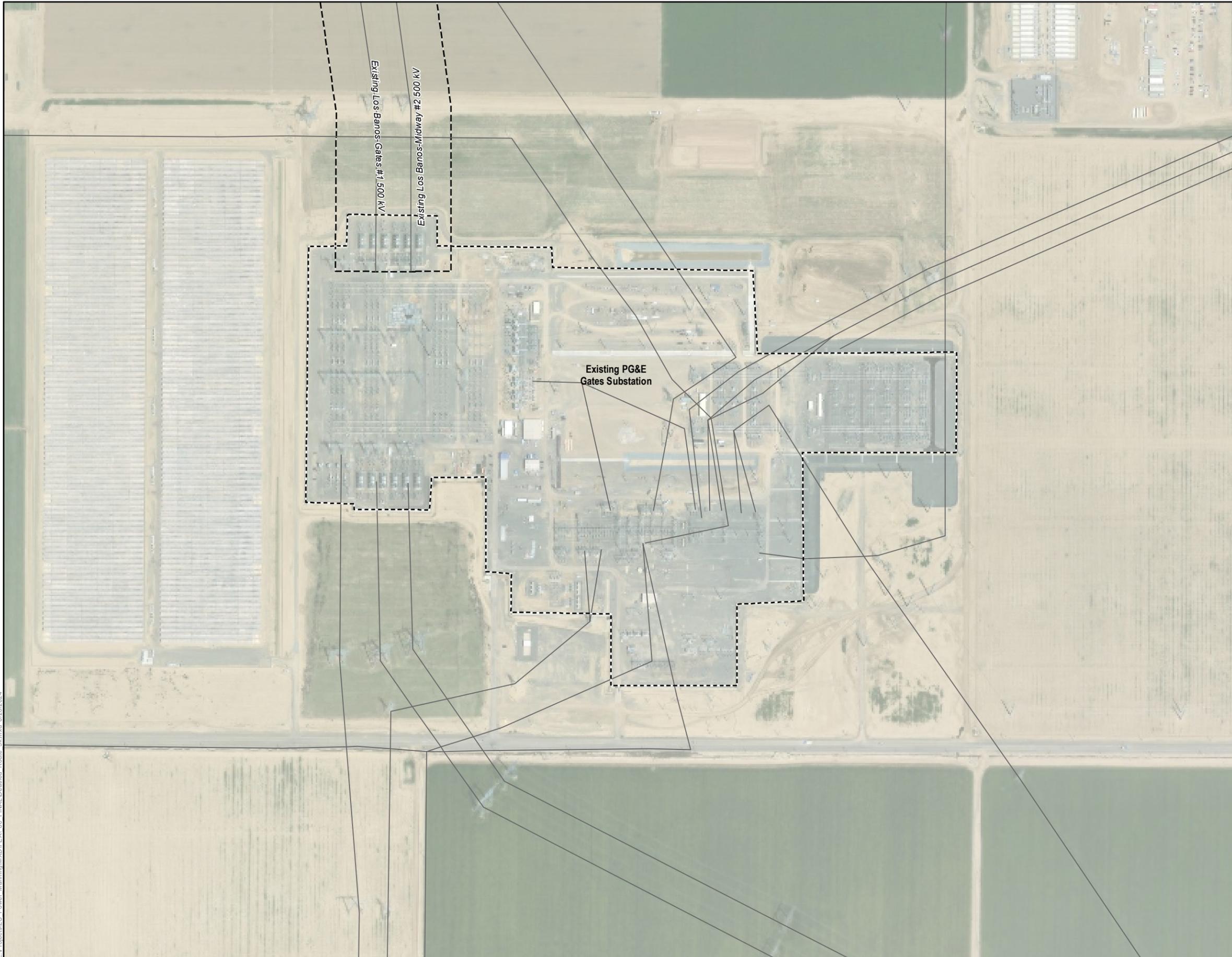
- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



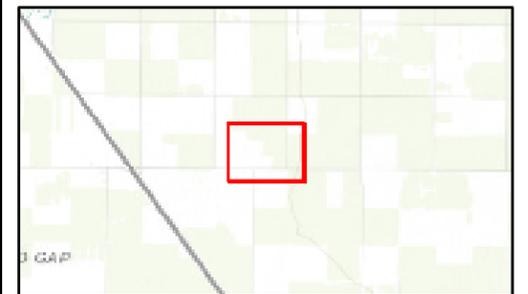
Attachment 3-A: Detailed Route Map  
Map 34 of 35

Manning 500/230 Kilovolt  
Substation Project

- Existing PG&E Transmission Line
- - - Existing PG&E Gates Substation
- PG&E and LSPGC Rights-of-Way**
- - - Existing PG&E 500 kV ROW



- Notes:
1. Existing transmission lines are denoted in italics.
  2. Structure numbers shown in parentheses represent mileposts.
  3. All new ROWs (rights-of-way) would require land acquisition.
  4. All areas identified as workspace would require vegetation removal.
  5. The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.

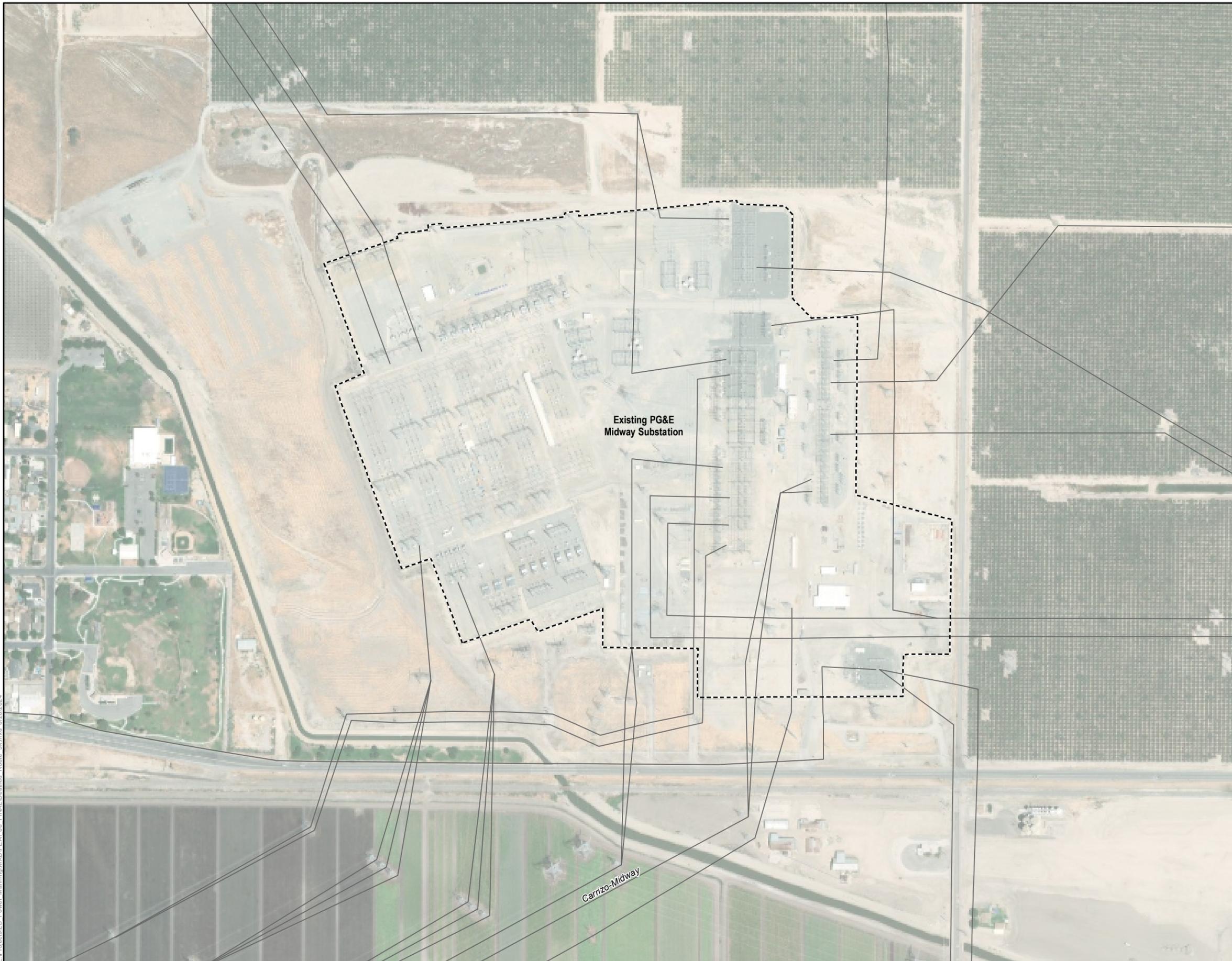


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Manning 500/230 Kilovolt  
Substation Project

- Existing PG&E Transmission Line
- Existing PG&E Midway Substation



- Notes:
- Existing transmission lines are denoted in italics.
  - Structure numbers shown in parentheses represent mileposts.
  - All new ROWs (rights-of-way) would require land acquisition.
  - All areas identified as workspace would require vegetation removal.
  - The new and replacement structures on the map are represented by polygons that are a similar in size to the anticipated permanent disturbances associated with the structures at this scale. As a result, permanent disturbances areas may be obscured by the points representing these structures. In addition, the polygons and polylines that represent the Proposed Project components have been simplified (i.e., some multi-pole structures are represented as a single point and overhead lines are represented using the centerline of the alignment) for clarity.



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