

Appendix 1-A – Figures

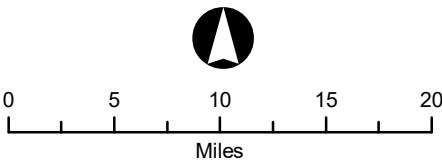
LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 3-1 General Vicinity

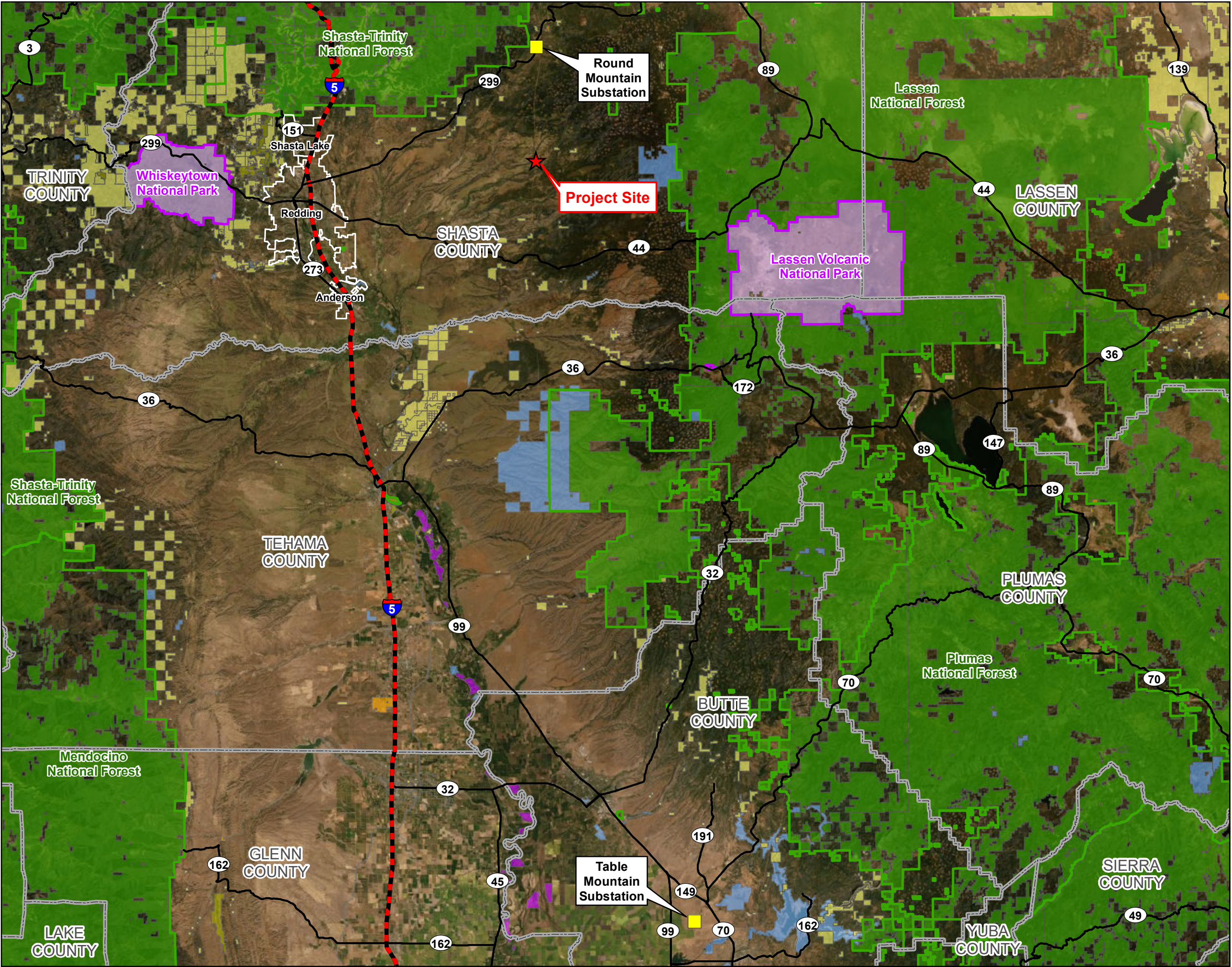
Shasta County, CA

LEGEND

- ★ Project Site
 - Existing Substation
 - Interstate
 - State Highway
 - ▭ County Boundary
 - ▭ Municipal Boundary
 - ▭ National Forest Boundary
 - ▭ National Park Boundary
- Jurisdiction**
- Bureau of Land Management Land
 - Bureau of Reclamation Land
 - National Park Service Land
 - US Fish & Wildlife Service Land
 - US Forest Service Land
 - Indian Reservation
 - California State Land Commission Land



Data Sources: BLM, CA.gov, CalTrans, ESRI, Shasta Co.,
USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Fig 3-1 General Vicinity 071521.mxd
SJW 10-13-2021



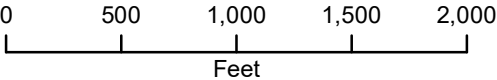
LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 3-2 Project Location

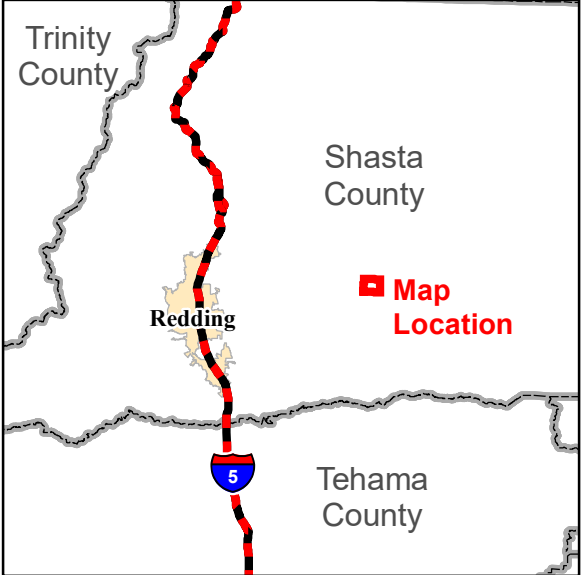
Shasta County, CA

LEGEND

- Project Components**
- Site Boundary - Approx. 7.5 Acres
- General Features**
- Existing 500kV Transmission Line
 - Interstate
 - Road
 - County Boundary
 - River/Stream (USGS National Hydrography Dataset)
 - Waterbody (USGS National Hydrography Dataset)
 - Municipal Boundary



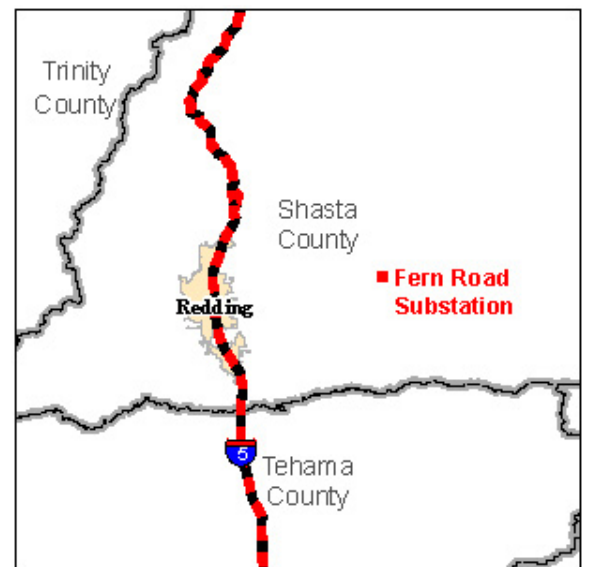
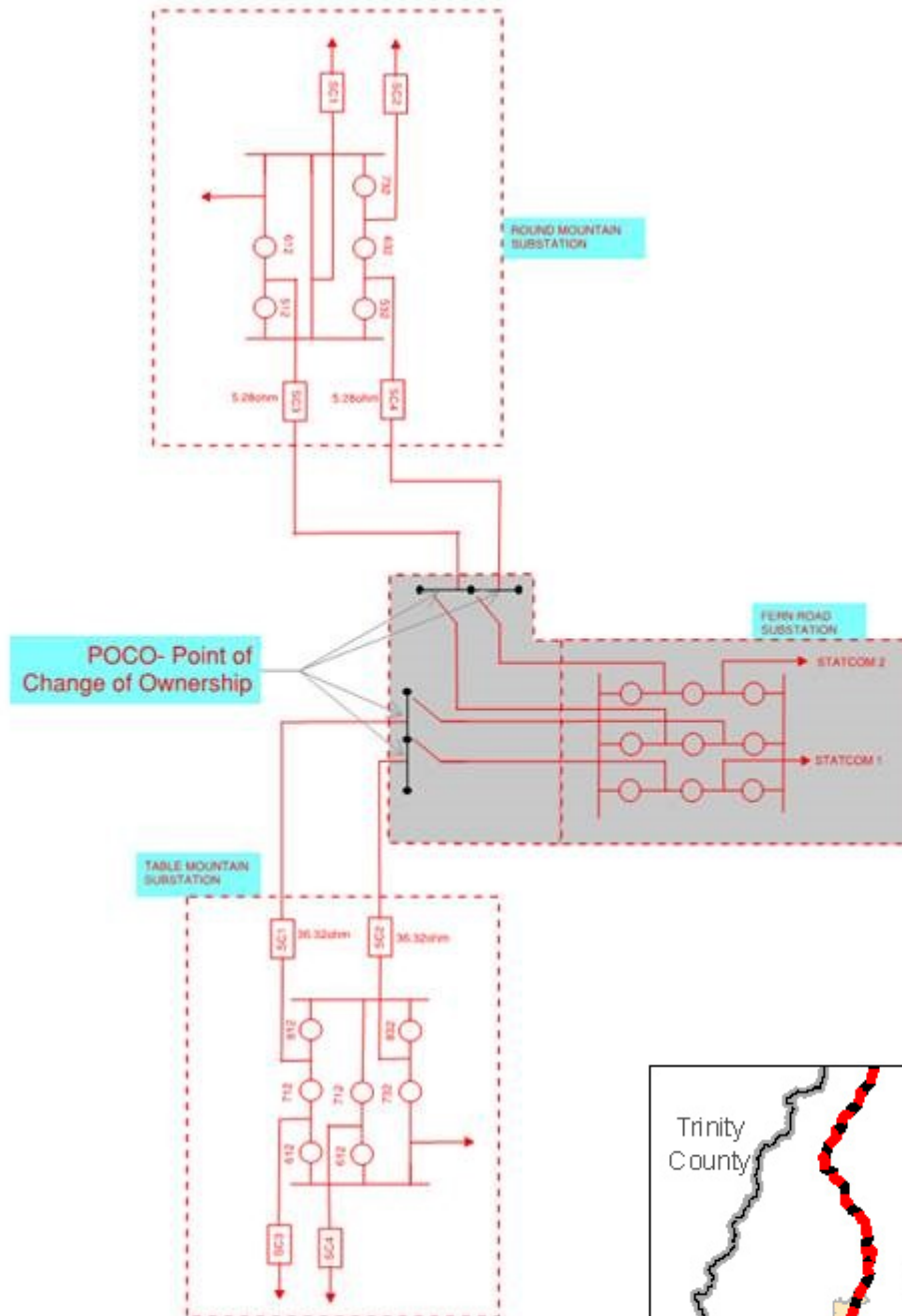
Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...\PEA\Figure 3-2 Project Location 071521.mxd
SJW 10-13-2021



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 3-3
Fern Road
Substation Diagram

Shasta County, CA



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 3-4 Project Overview

Shasta County, CA

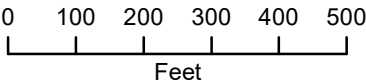
LEGEND

Project Components

- New 3-Pole Dead-End Pole
- Existing Structure to be Removed
- Rebuilt Distribution Pole
- Microwave Tower
- Control Enclosure
- Project Tie Line
- Existing 500kV Transmission Line to be Removed
- Rebuilt Distribution Line
- Fern Road Substation Bay
- Substation Fence
- Transformer
- Reactor
- Converter & Control Enclosure
- Interior Access Road
- Exterior Access Road
- Distribution Overland Travel
- Graded Area
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction

General Features

- Existing Structure
- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\PEA\Figure 3-4 Project Overview 030622.mxd
SJW 4-03-2022

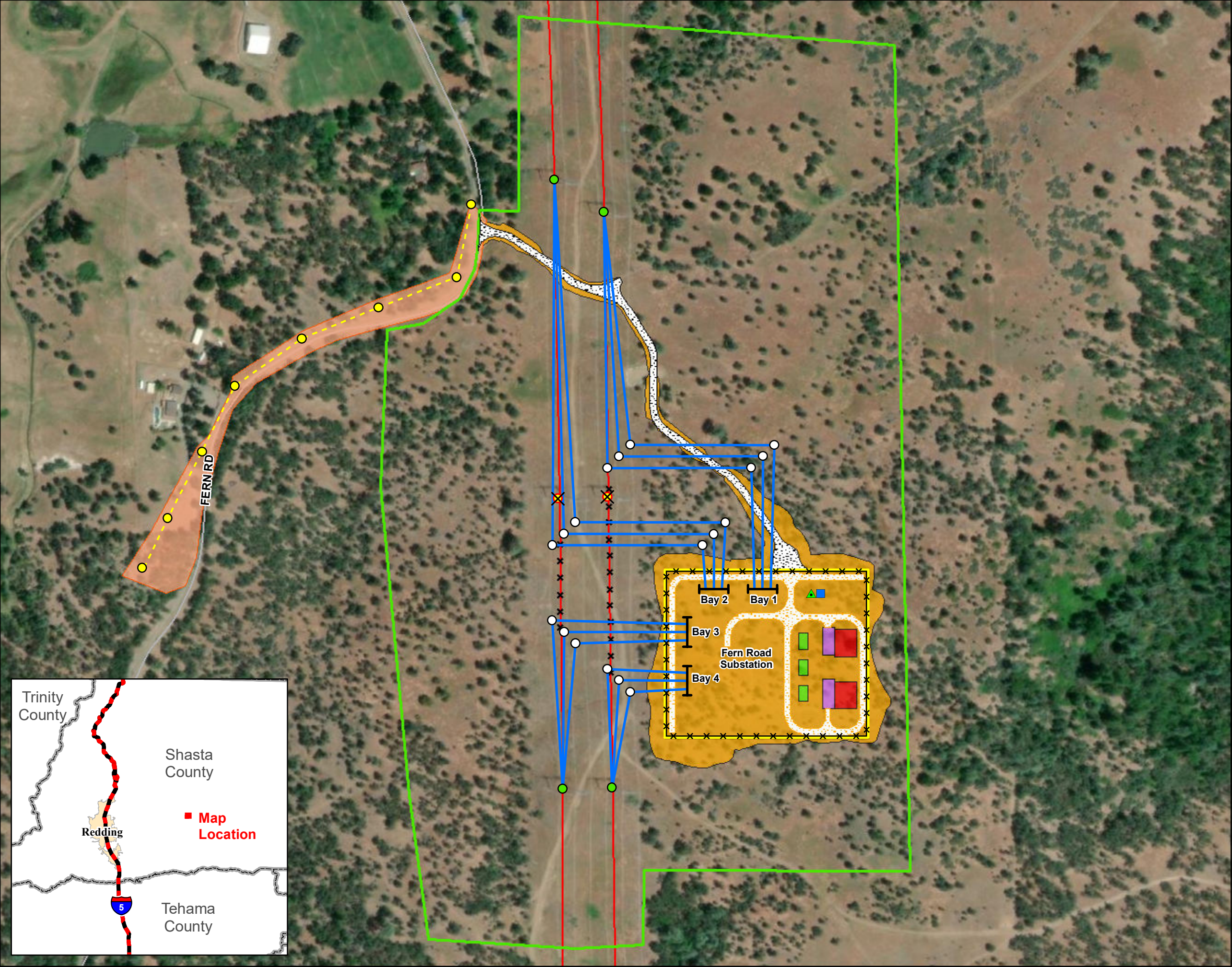


Figure 3-5
Fern Road Substation
General Arrangement

Shasta County, CA

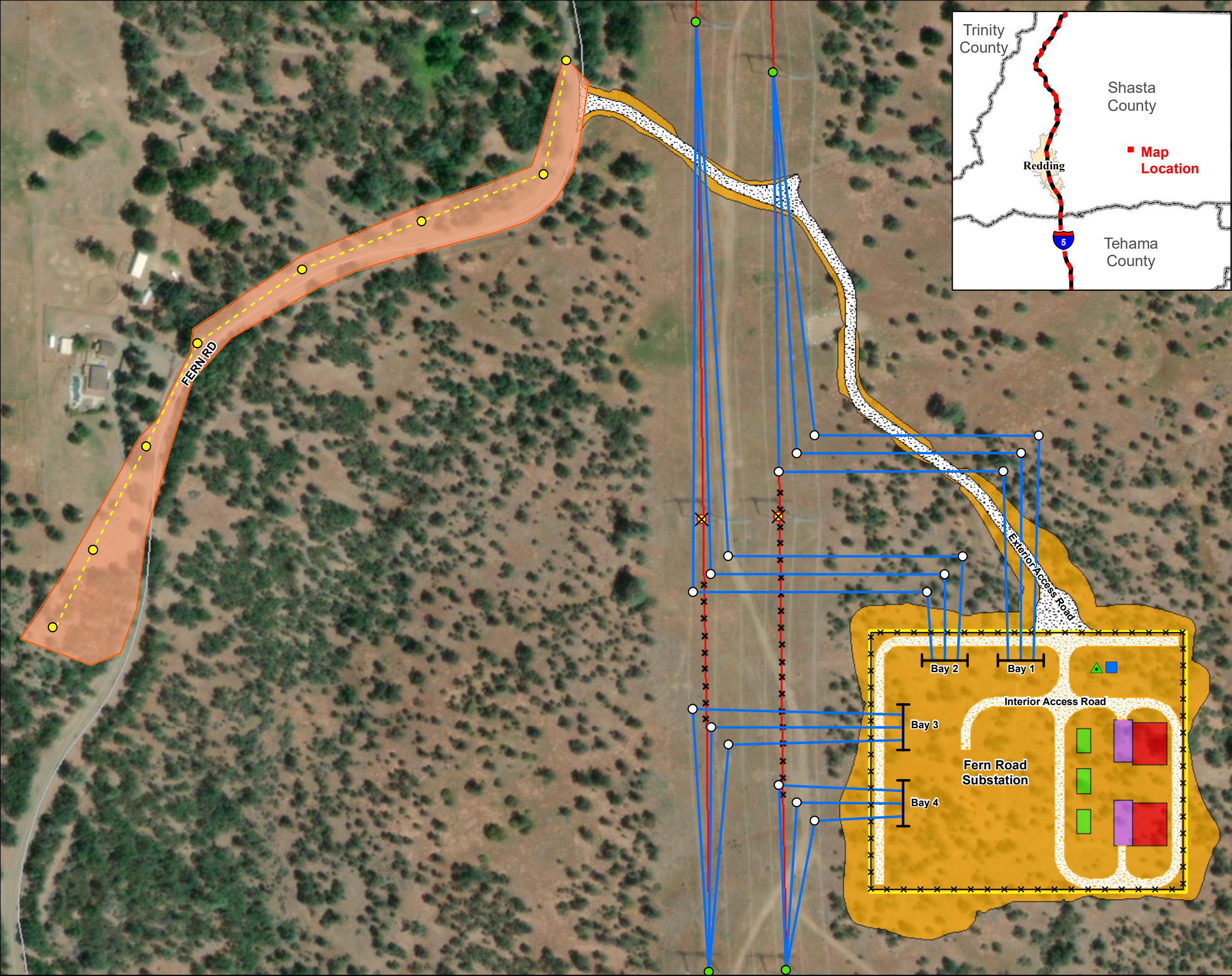
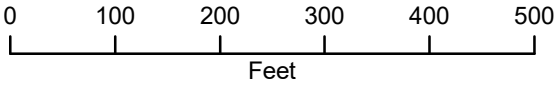
LEGEND

Project Components

- New 3-Pole Dead-End Pole
- ✕ Existing Structure to be Removed
- Rebuilt Distribution Pole
- ▲ Microwave Tower
- Control Enclosure
- Project Tie Line
- ✕✕ Existing 500kV Transmission Line to be Removed
- - - Rebuilt Distribution Line
- ⊥ Fern Road Substation Bay
- ✕✕ Substation Fence
- Transformer
- Reactor
- Converter & Control Enclosure
- Interior Access Road
- Exterior Access Road
- Distribution Overland Travel
- Graded Area
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction

General Features

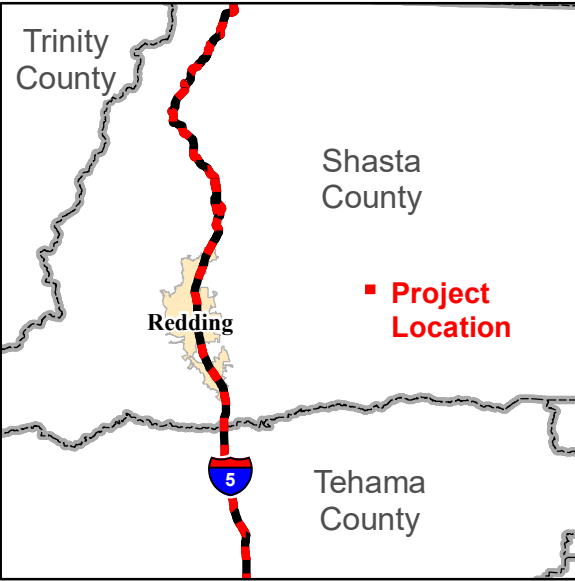
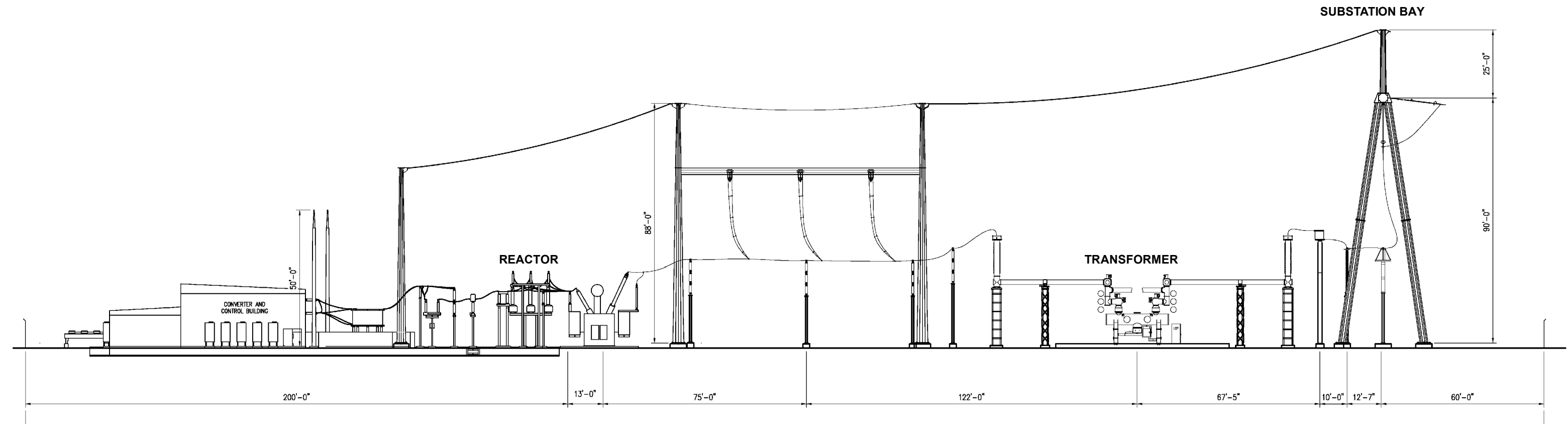
- Existing Structure
- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 3-6
STATCOM Substation Profile

Shasta County, CA



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 3-7 Construction Staging Area

Shasta County, CA

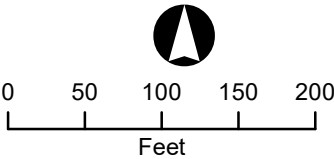
LEGEND

Project Components

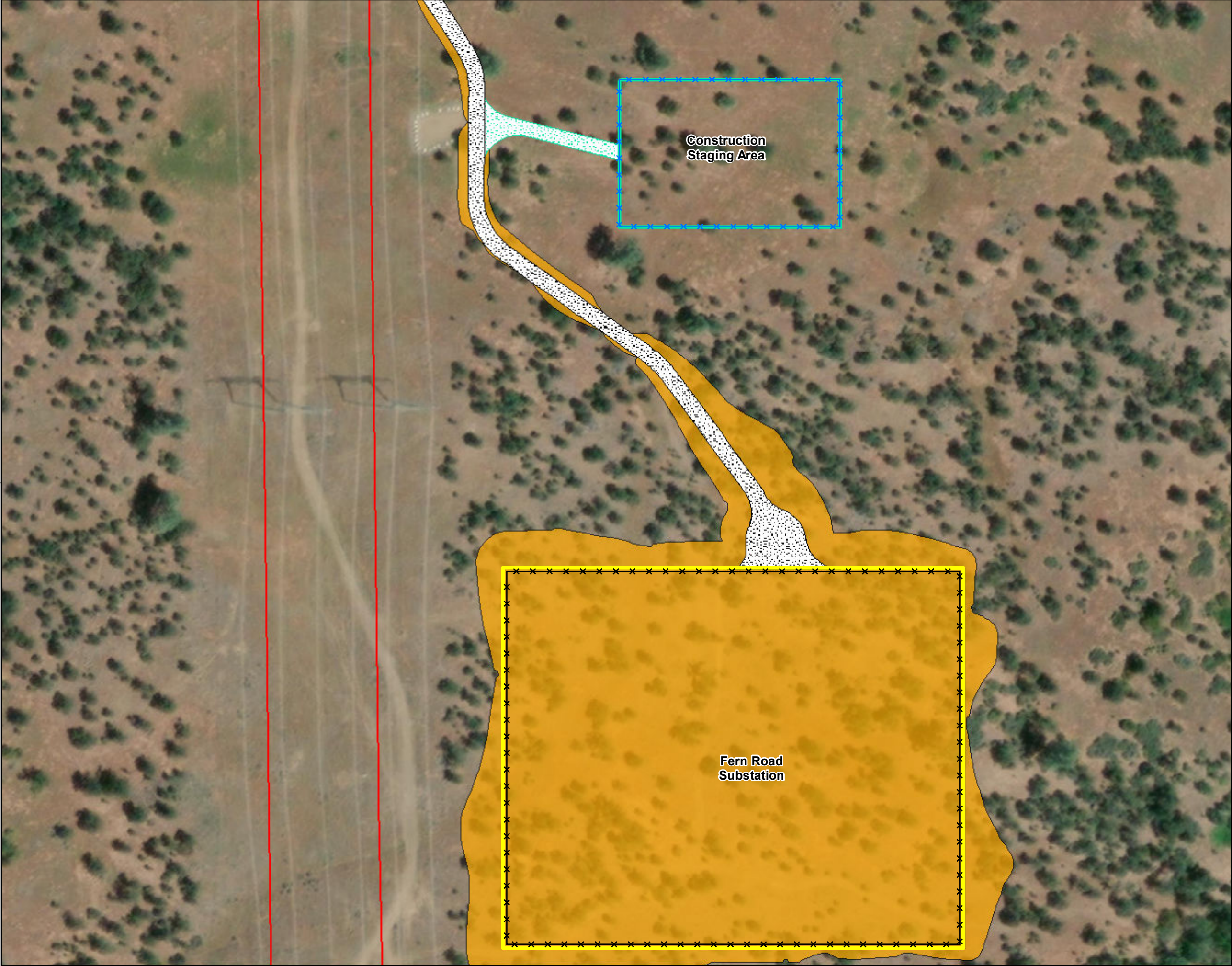
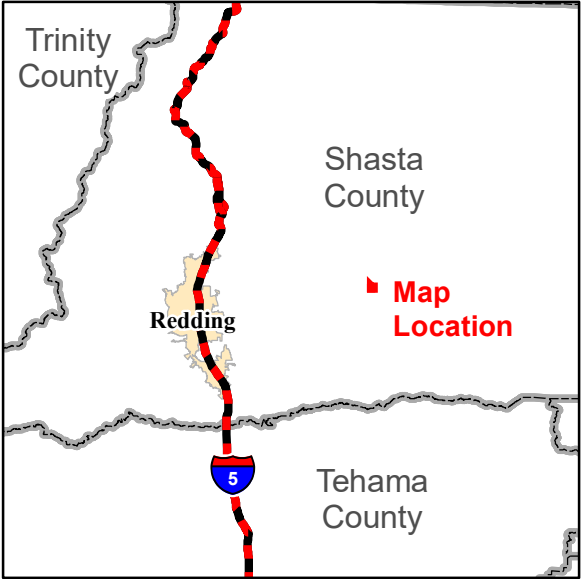
- Substation Fence
- Temporary Staging Area Fence
- Exterior Access Road
- Construction Staging Area Access Road
- Construction Staging Area
- Graded Area
- Site Boundary - Approx. 7.5 Acres

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...\PEA\Figure 3-7 Construction Staging Area 040322.mxd
SJW 4-03-2022



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 3-8 Project Disturbance Areas

Shasta County, CA

LEGEND

Project Components

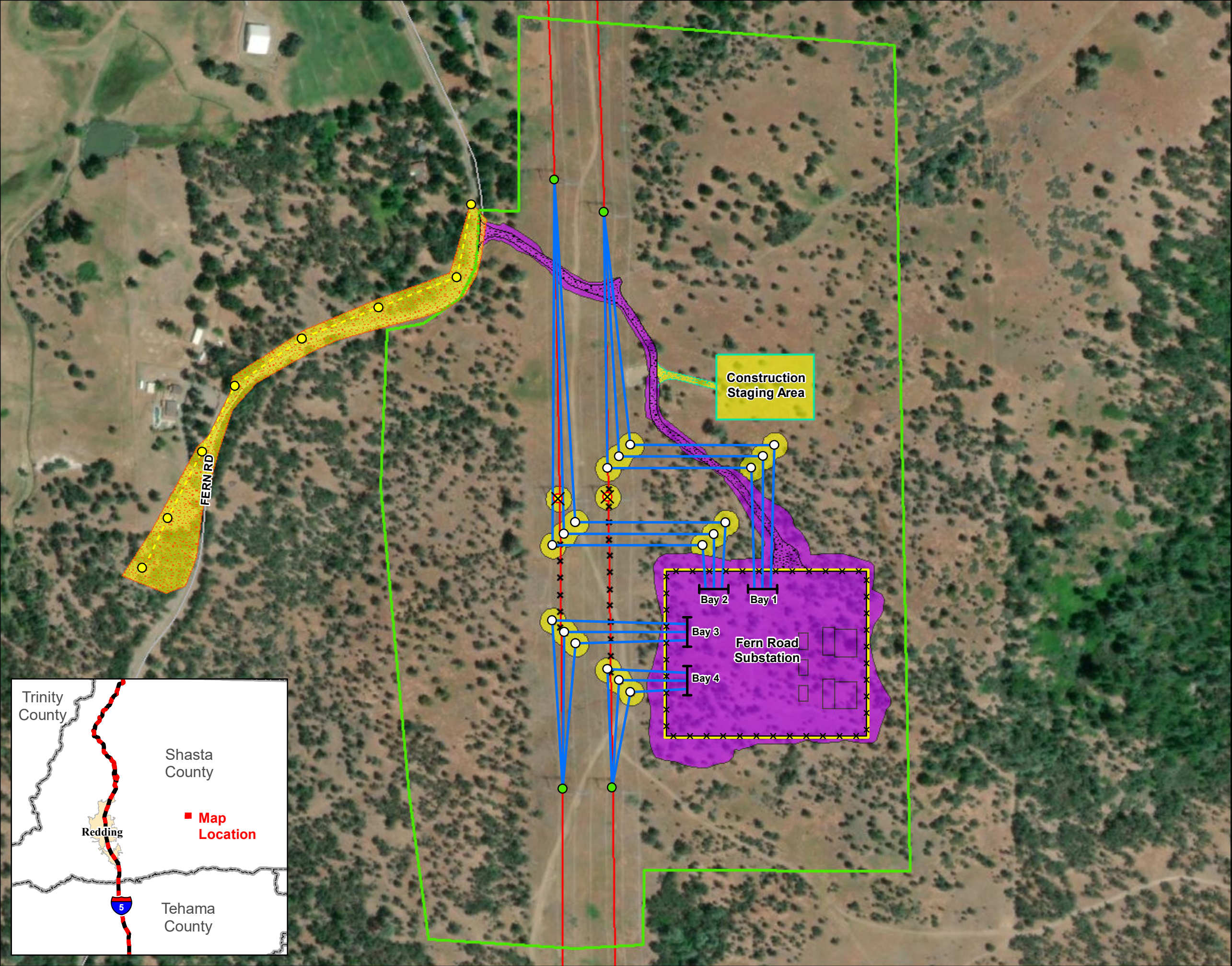
- New 3-Pole Dead-End Pole
- Existing Structure to be Removed
- Rebuilt Distribution Pole
- Project Tie Line
- Existing 500kV Transmission Line to be Removed
- Rebuilt Distribution Line
- Fern Road Substation Bay
- Substation Fence
- Interior Access Road
- Exterior Access Road
- Distribution Overland Travel
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction

Project Disturbance Areas

- Temporary Disturbance Area
- Permanent Disturbance Area

General Features

- Existing Structure
- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.1-1
Scenic Resources

Shasta County, CA

LEGEND

Project Components

★ Project Site

General Features

PG&E Facilities

Interstate

Highway

Railroad

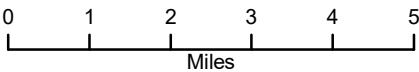
County Boundary

Municipal Boundary

Jurisdiction

Bureau of Land Management Land

State Land



Data Sources: BLM, CA.gov, CalTrans, ESRI, Shasta Co.,
USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...IPEA\Fig 4.1-1 Scenic Resources 032122.mxd
SJW 3-21-2022

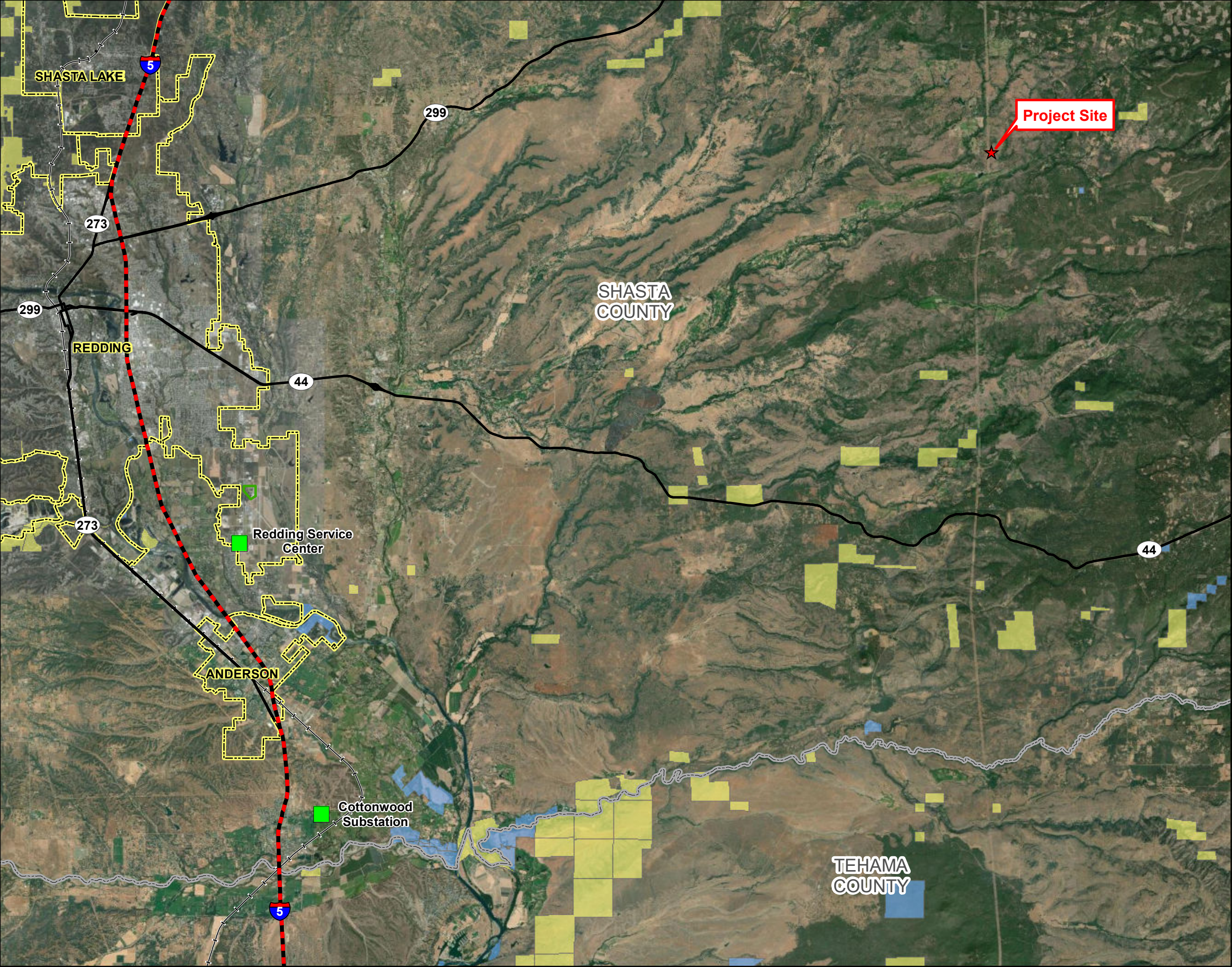







Figure 4.1-2 Fern Road Substation
Representative Viewpoints






Shasta County, CA

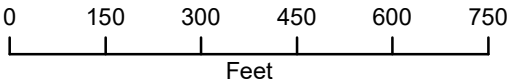
LEGEND

Project Components

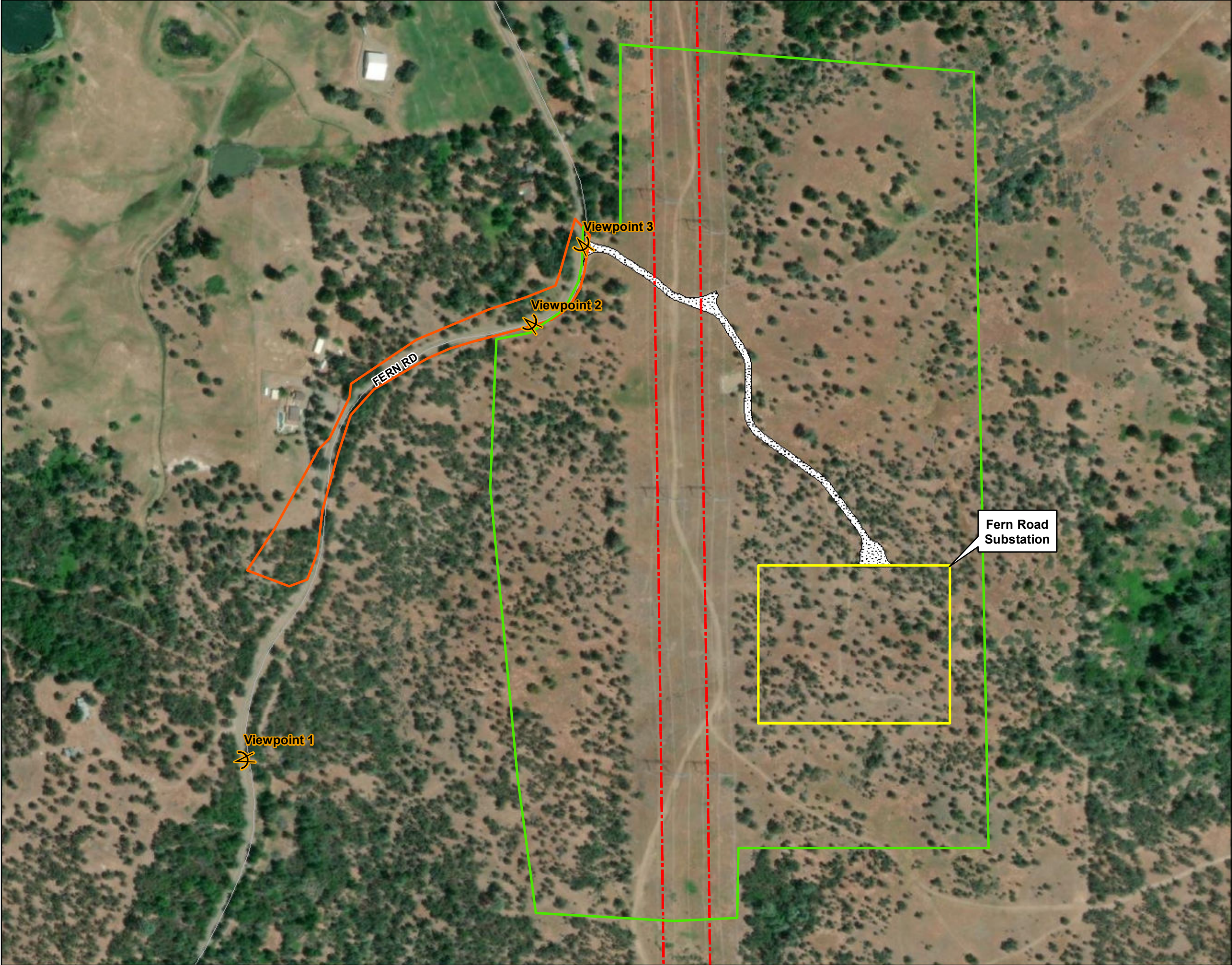
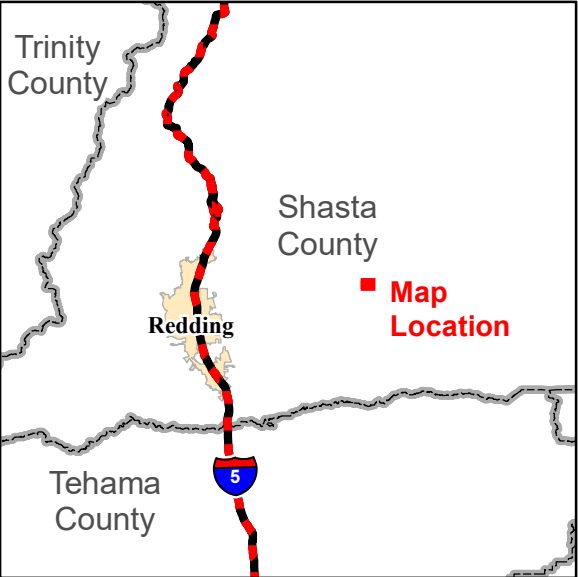
-  Representative Viewpoint Location
-  Site Boundary - Approx. 7.5 Acres
-  Limits of Construction
-  Exterior Access Road
-  Distribution Overland Travel

General Features

-  Existing 500kV Transmission Line
-  Interstate
-  Road
-  County Boundary
-  Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...\\PEA\\Figure 4.1-2 Viewpoints 031722.mxd
SJW 3-27-2022



Existing View



Fern Road Looking East

Refer to Figure 4.1-2 for photograph viewpoint locations.

**Figure 4.1-3: Viewpoint 1
Representative Photographs**

Existing View



Fern Road Looking Southeast

Refer to Figure 4.1-2 for photograph viewpoint locations.

**Figure 4.1-4: Viewpoint 2
Representative Photographs**

Round Mountain 500 kV Area Dynamic Reactive Support Project

Existing View



Fern Road Looking Southeast

Refer to Figure 4.1-2 for photograph viewpoint locations.

**Figure 4.1-5: Viewpoint 3
Representative Photographs**

Proposed View



Fern Road Looking East

Refer to Figure 4.1-2 for photograph viewpoint locations.

**Figure 4.1-6: Viewpoint 1
Representative Photographs**

Proposed View



Fern Road Looking Southeast

Refer to Figure 4.1-2 for photograph viewpoint locations.

**Figure 4.1-7: Viewpoint 2
Representative Photographs**

Round Mountain 500 kV Area Dynamic Reactive Support Project

Proposed View



Fern Road Looking Southeast

Refer to Figure 4.1-2 for photograph viewpoint locations.

**Figure 4.1-8: Viewpoint 3
Representative Photographs**

Round Mountain 500 kV Area Dynamic Reactive Support Project

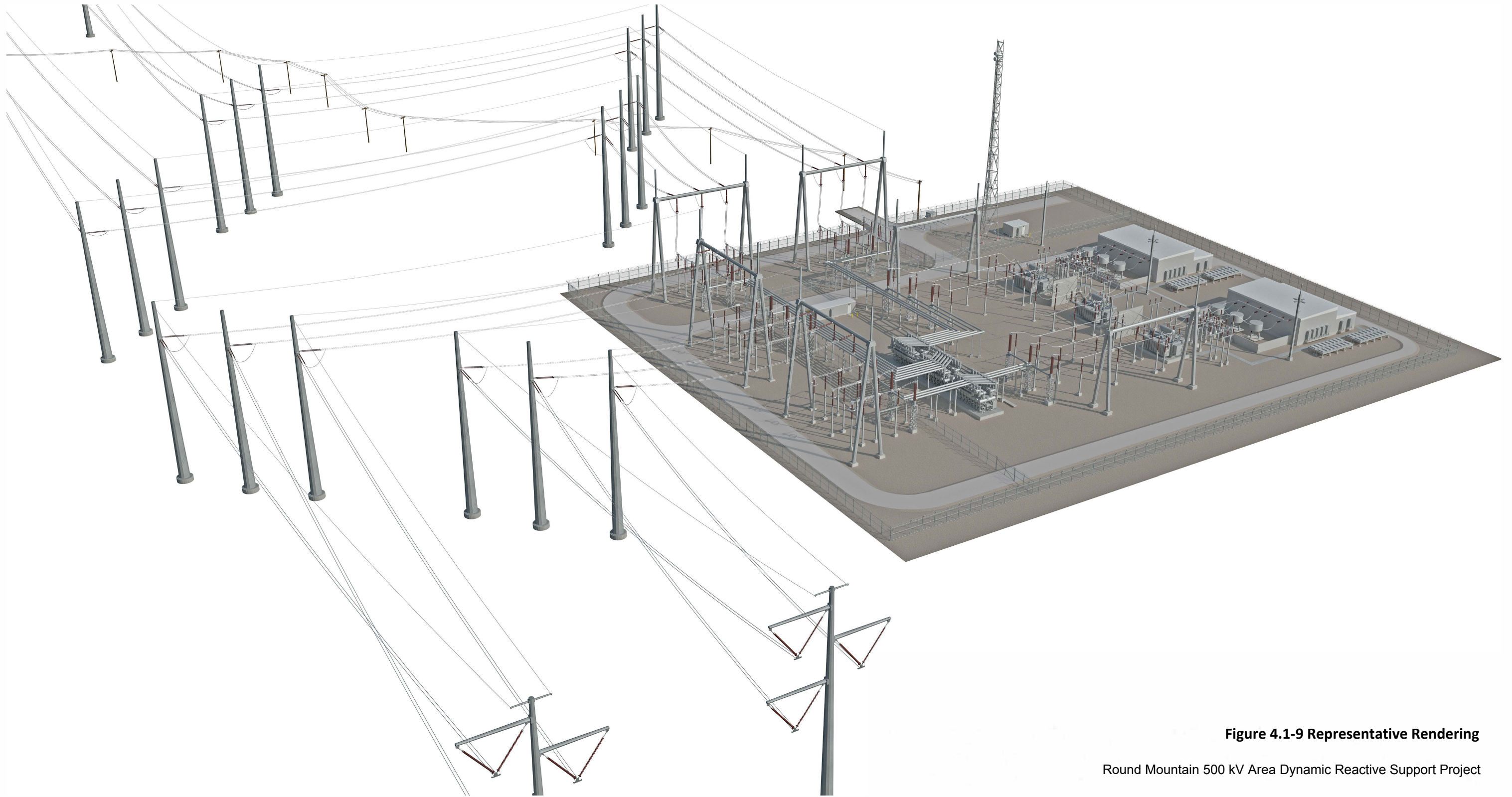


Figure 4.1-9 Representative Rendering








Round Mountain 500 kV Area Dynamic Reactive Support Project

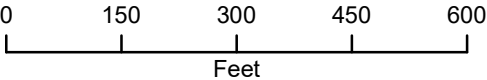
LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.1-10 Cottonwood Substation
Representative Viewpoint

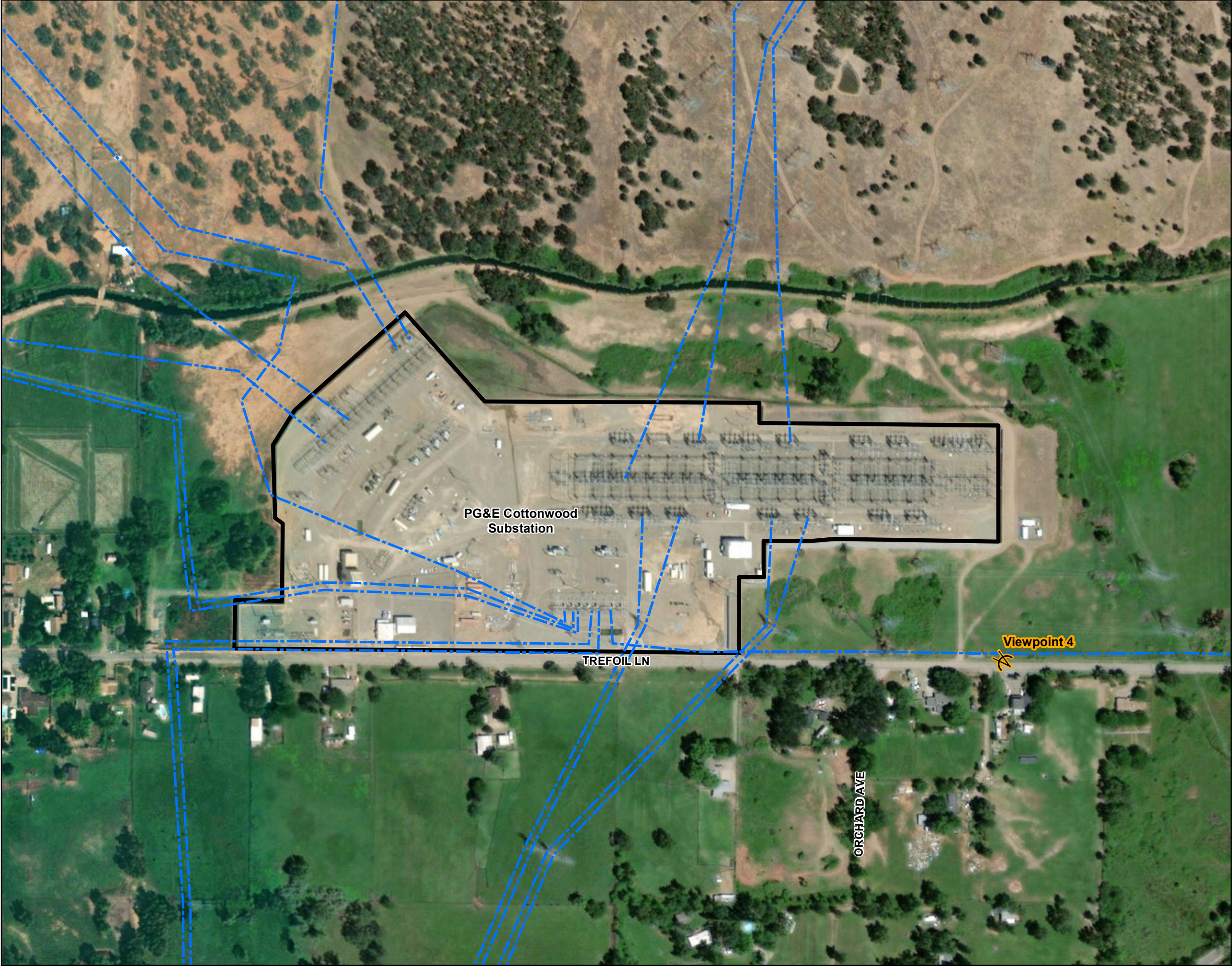
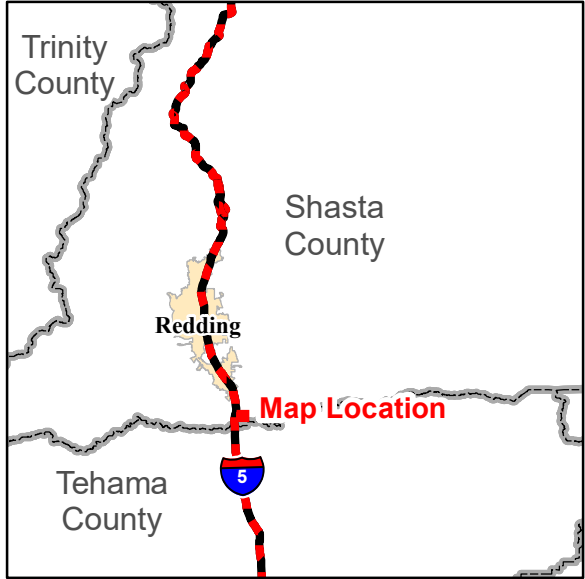
Shasta County, CA

LEGEND

- Project Components**
-  Representative Viewpoint Location
 -  PG&E Cottonwood Substation
- General Features**
-  Existing Transmission Lines
 -  Interstate
 -  Road
 -  County Boundary
 -  Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Figure 4.1-10 Viewpoint 4 032722.mxd
SJW 3-27-2022



Existing View



Trefoil Lane Looking Northwest

Refer to Figure 4.1-10 for photograph viewpoint location.








**Figure 4.1-11: Viewpoint 4
Representative Photographs**
Round Mountain 500 kV Area Dynamic Reactive Support Project

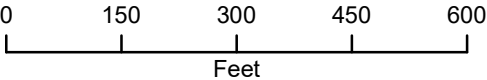
LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.1-12 Redding Service Center
Representative Viewpoint

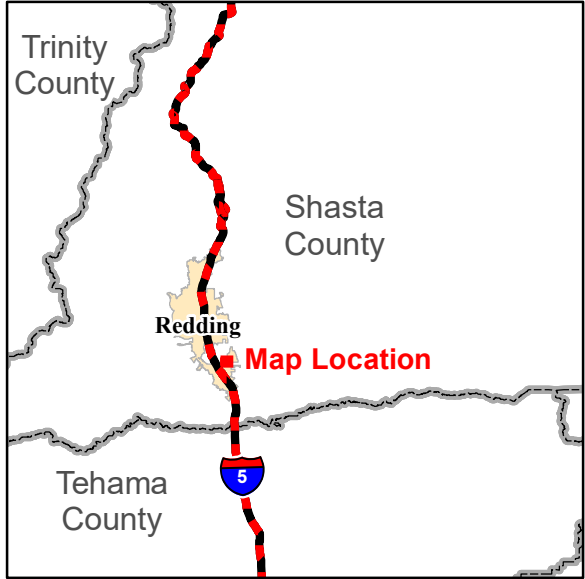
Shasta County, CA

LEGEND

- Project Components**
-  Representative Viewpoint Location
 -  PG&E Redding Service Center
- General Features**
-  Existing Transmission Line
 -  Interstate
 -  Road
 -  County Boundary
 -  Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Figure 4.1-12 Viewpoint 5 032722.mxd
SJW 3-27-2022



Existing View



Lockheed Drive Looking Southwest

Refer to Figure 4.1-12 for photograph viewpoint location.

**Figure 4.1-13: Viewpoint 5
Representative Photographs**
Round Mountain 500 kV Area Dynamic Reactive Support Project

Figure 4.2-1 Agricultural Resources

Shasta County, CA

LEGEND

Project Components

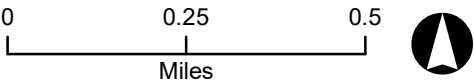
- Site Boundary - Approx. 7.5 Acres
- Exterior Access Road
- Constuction Limits
- Distribution Overland Travel
- 1-Mile Buffer of Construction Limits

Agricultural Resources

- S - Farmland of Statewide Importance
- L - Farmland of Local Importance
- G - Grazing Land
- Williamson Act Land

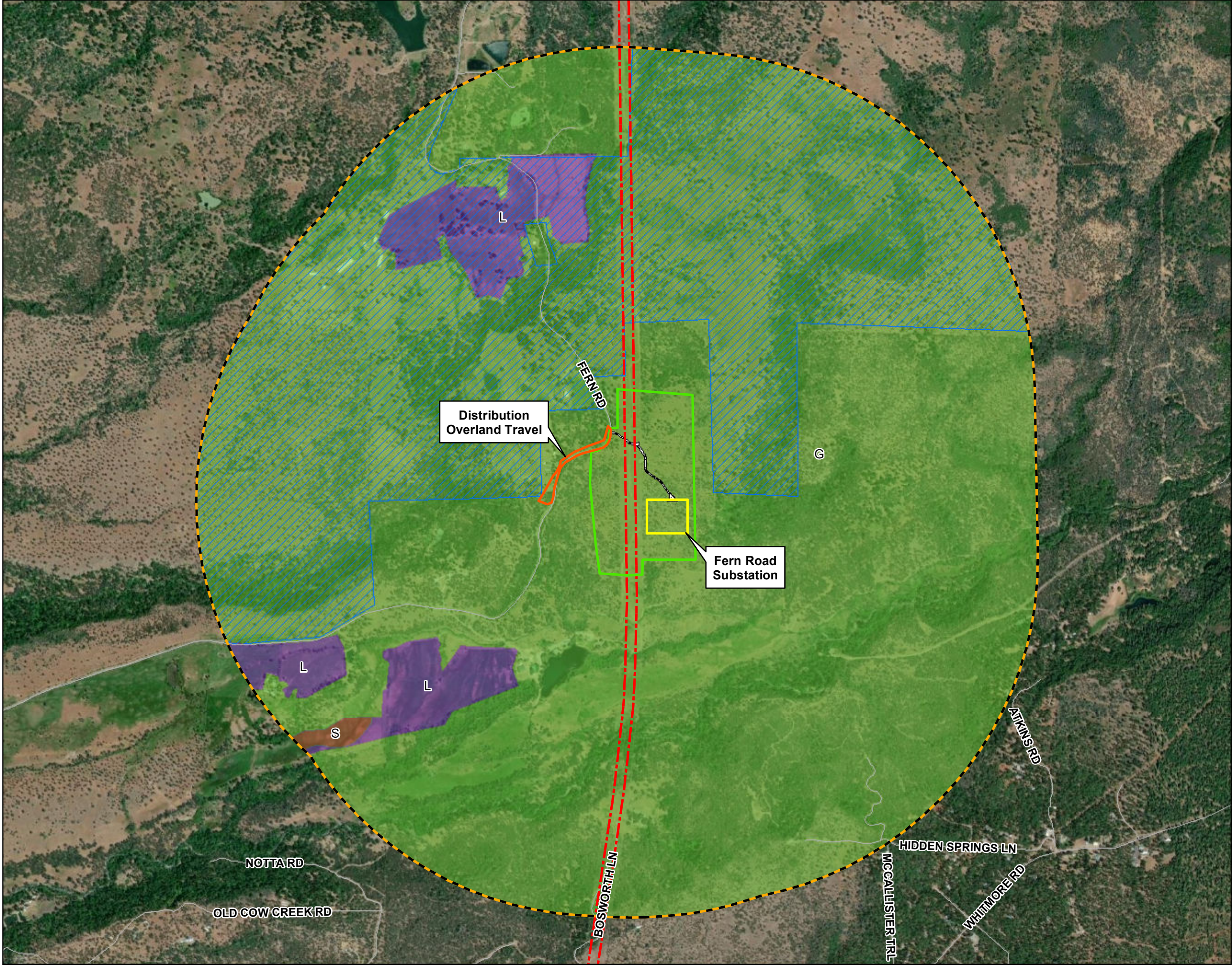
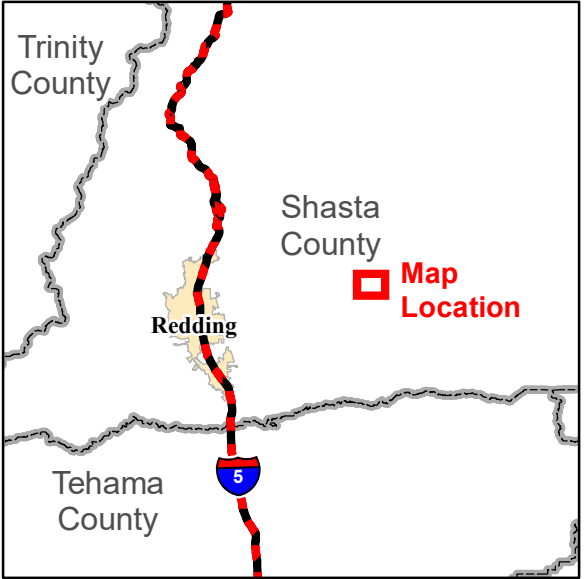
General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: CA DOC, ESRI, Shasta Co., USDA, USGS.

SPCS NAD83 CA Zone I Feet.
F:\...PEA\Figure 4.2-1 Agricultural Resources
031722.mxd SJW 3-21-2022



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.3-1 Construction Site
and Sensitive Receptor Locations

Shasta County, CA

LEGEND

Project Components

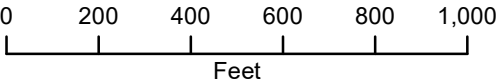
- New 3-Pole Dead-End Pole
- Existing Structure to be Removed
- Rebuilt Distribution Pole
- Microwave Tower
- Control Enclosure
- Project Tie Line
- Rebuilt Distribution Line
- Existing 500kV Transmission Line to be Removed
- Fern Road Substation Bay
- Substation Fence
- Transformer
- Reactor
- Converter & Control Enclosure
- Interior Access Road
- Exterior Access Road
- Distribution Overland Travel
- Graded Area
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction

Sensitive Receptor Locations

- Receiver Location (Single-Family Residence)

General Features

- Existing Structure
- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Fig 4.3-1 Construction Site and Sensitive Receptor
Locations 030622.mxd SJW 4-03-2022

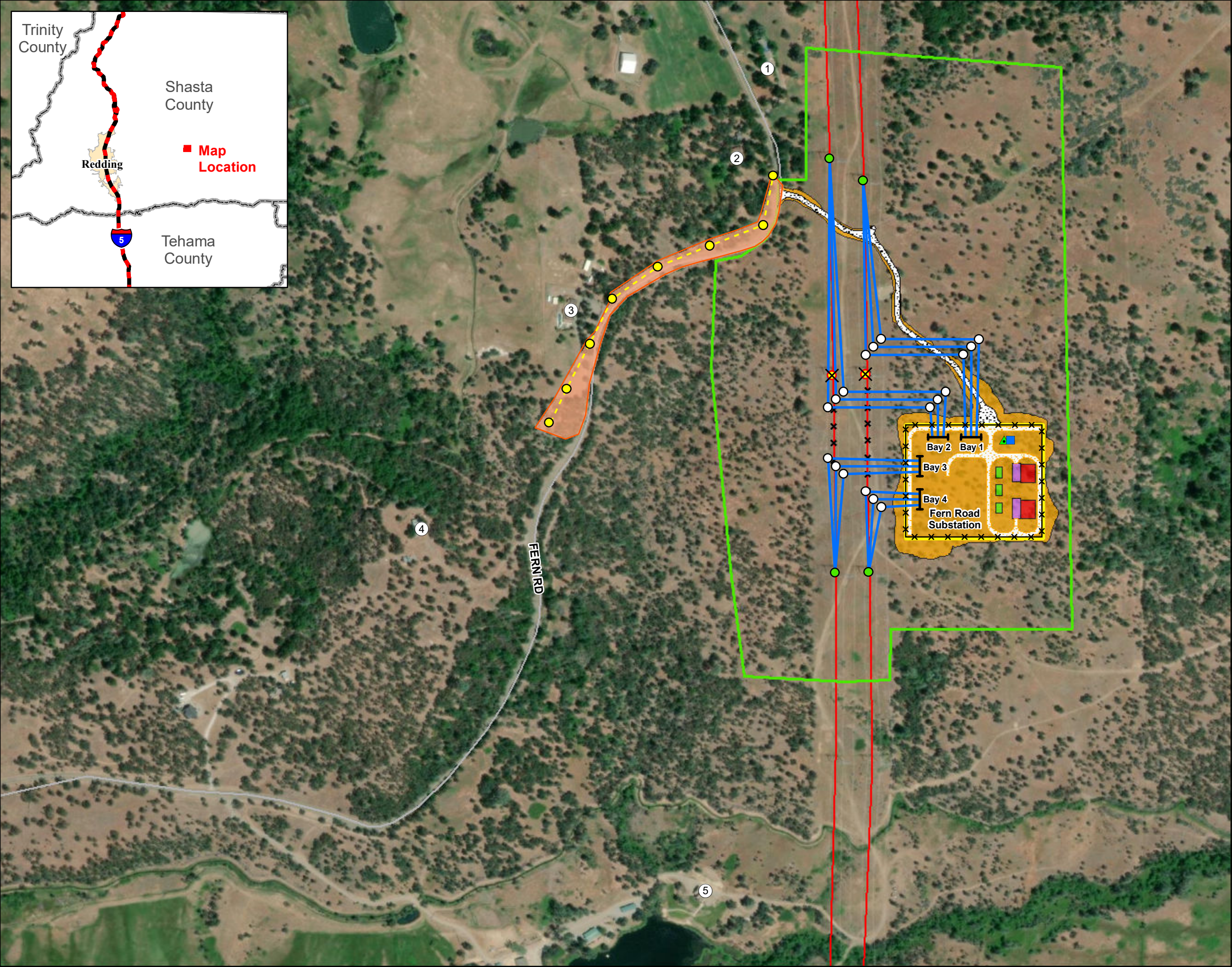


Figure 4.4-1 Proposed Project

Shasta County, CA

LEGEND

Project Components

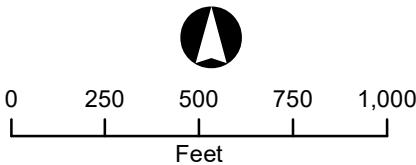
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction
- Distribution Overland Travel
- Exterior Access Road

Biological Resources

- Biological Resource Survey Area

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone 1 Feet.
F:\...PEA\Figure 4.4-1 Proposed Project 031722.mxd
SJW 3-17-2022

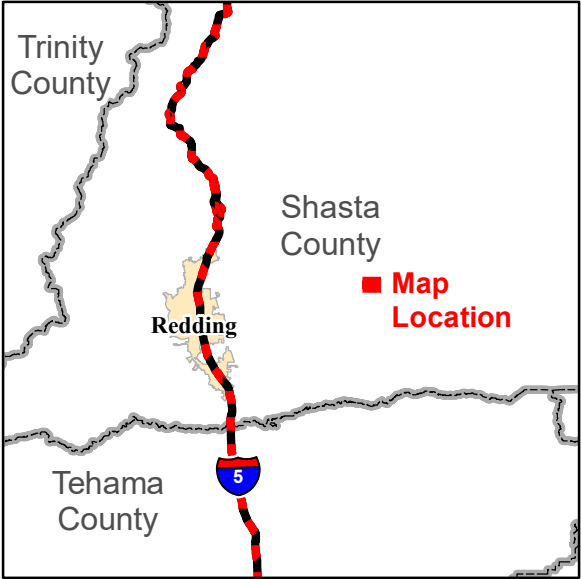


Figure 4.4-2 Vegetation Communities

Shasta County, CA

LEGEND

Project Components

- Site Boundary - Approx. 7.5 Acres
- Limits of Construction
- Distribution Overland Travel
- Exterior Access Road

Biological Resources

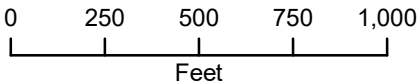
- Biological Resource Survey Area

Vegetation Cover Types

- Annual Grassland
- Disturbed Vegetation
- Oak Woodland
- Seasonal Wetland Incursion

General Features

- Existing 500kV Transmission Line
- Interstate
- Irrigation Canal
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, NRCS, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone 1 Feet.
F:\...PEA\Figure 4.4-2 Vegetation Communities 031822.mxd
SJW 3-18-2022

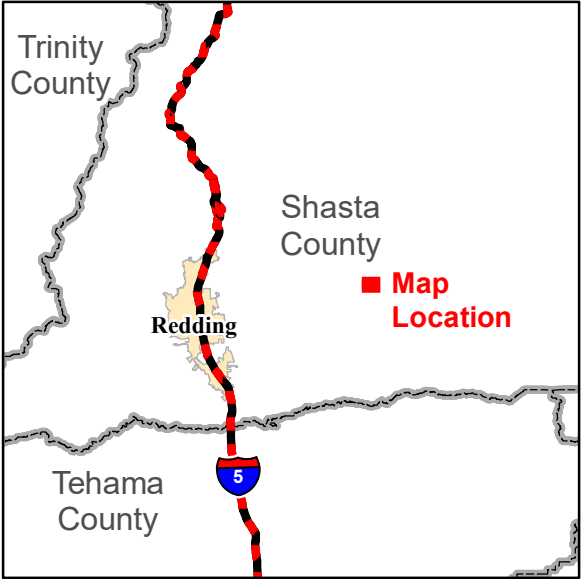


Figure 4.4-3 NWI Wetlands

Shasta County, CA

LEGEND

Project Components

- Site Boundary - Approx. 7.5 Acres
- Limits of Construction
- Distribution Overland Travel
- Exterior Access Road

Biological Resources

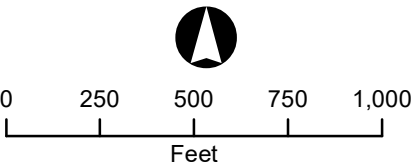
- Biological Resource Survey Area

NWI Wetlands

- Freshwater Emergent Wetland
- Freshwater Forested / Shrub Wetland
- Freshwater Pond
- Riverine

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USFWS, USGS.
SPCS NAD83 CA Zone 1 Feet.
F:\...PEA\Figure 4.4-3 NWI Wetlands 031722.mxd
SJW 3-28-2022

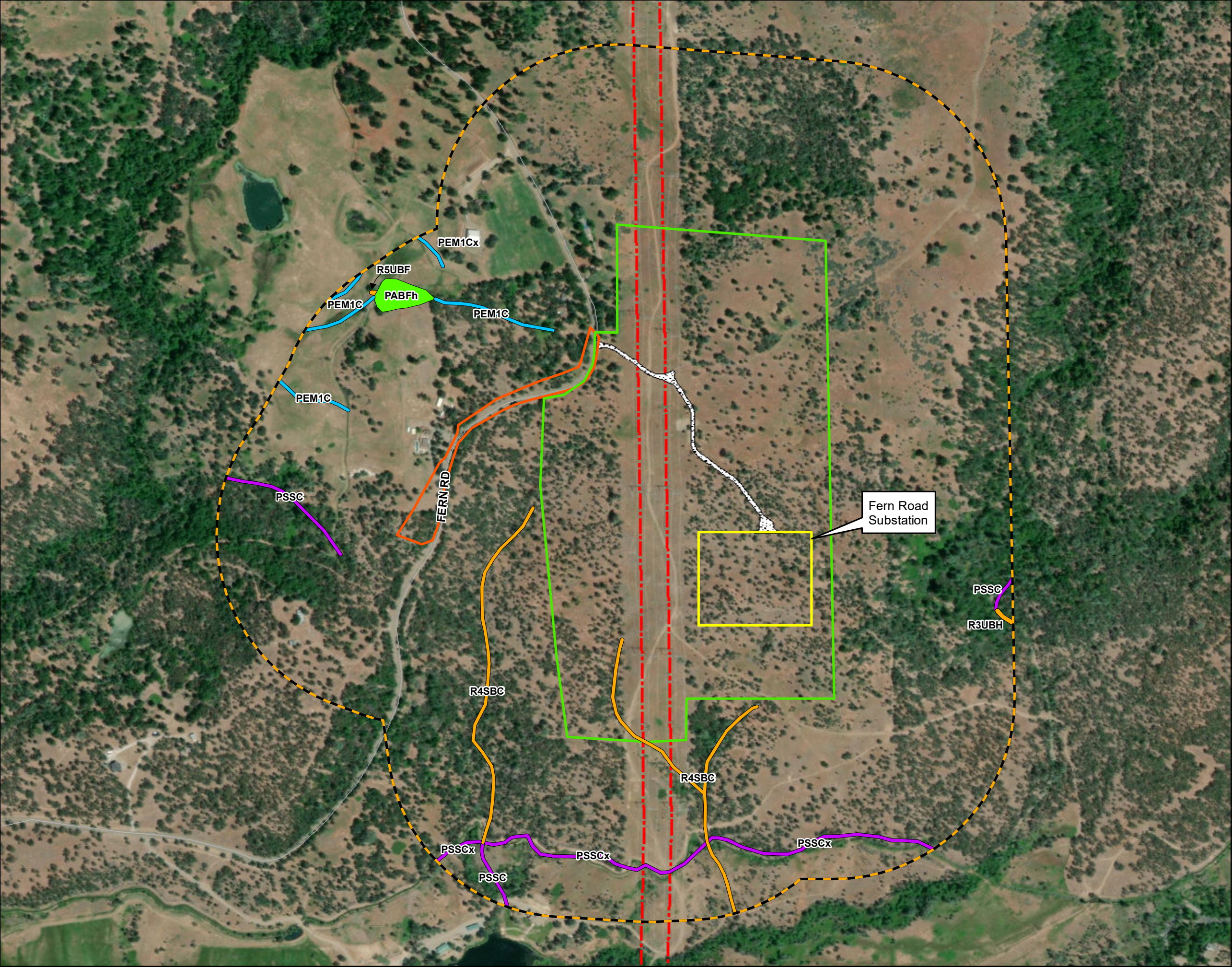
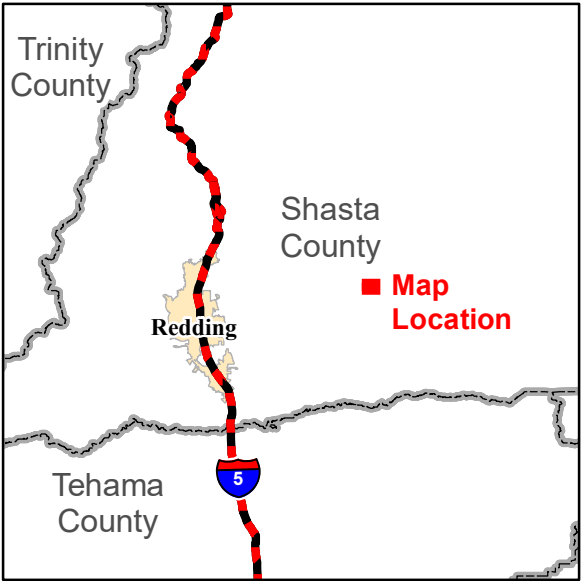


Figure 4.4-4 Aquatic Resources

Shasta County, CA

LEGEND

Project Components

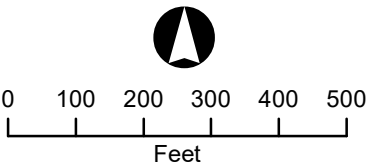
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction
- Distribution Overland Travel
- Exterior Access Road

Aquatic Resources

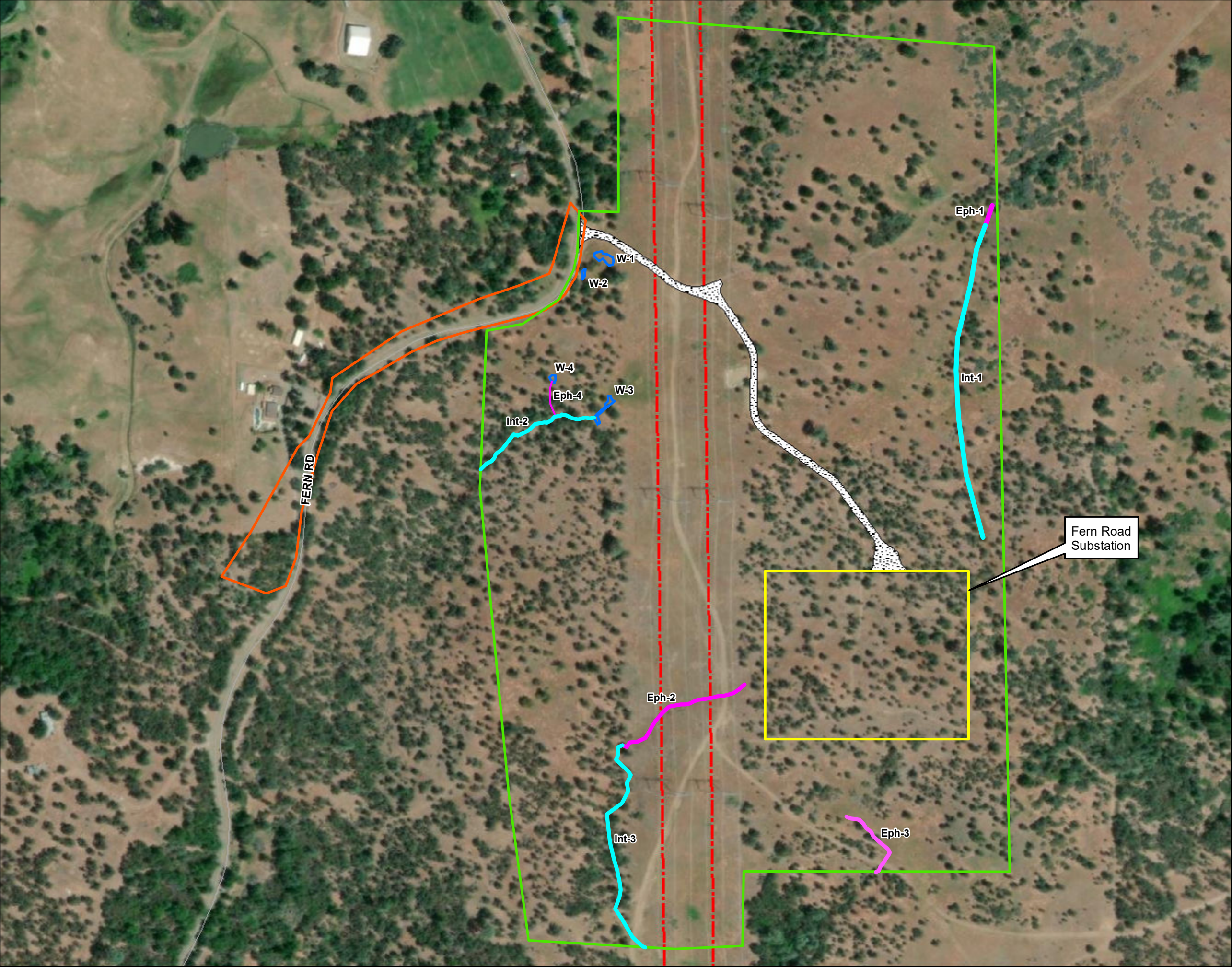
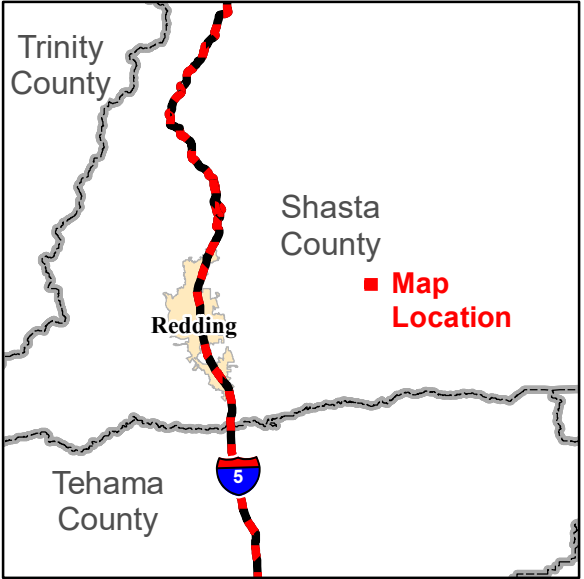
- Eph - Ephemeral Stream
- Int - Imittent Stream
- W - Seasonal Wetland

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone 1 Feet.
F:\...PEA\Figure 4.4-4 Aquatic Resources 031822.mxd
SJW 4-03-2022



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.4-5 CNDDDB

Shasta County, CA

LEGEND

Project Components

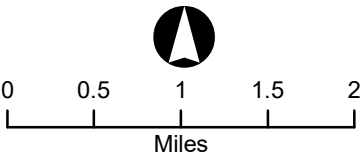
- ★ Project Site
- 5-Mile Buffer of Project

CNDDDB

- Threatened
- CA Endangered
- CA Cand. Endangered
- Species of Concern

General Features

- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: CNDDDB, ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...IPEA\Figure 4.4-5 CNDDDB 101721.mxd
SJW 10-17-2021

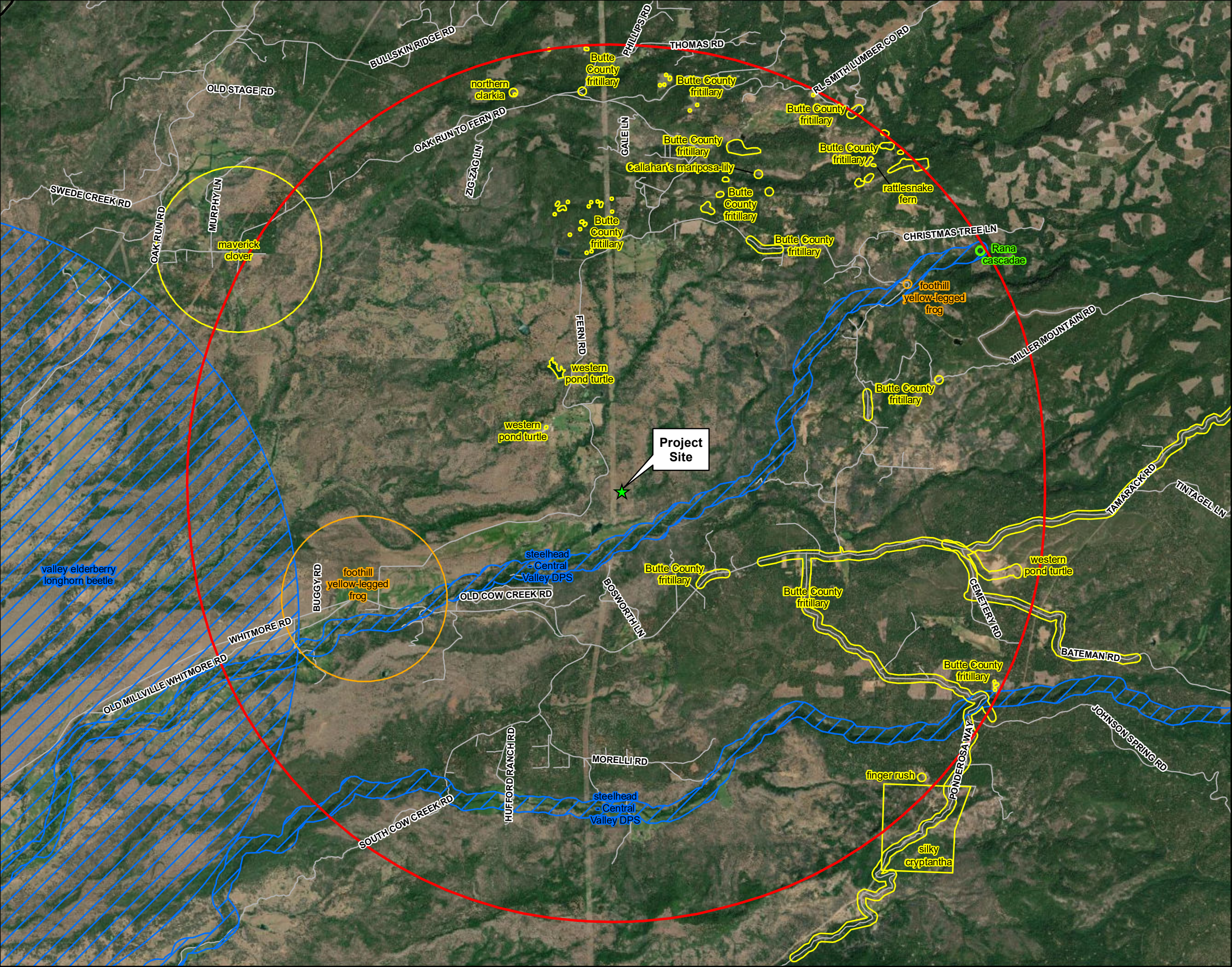
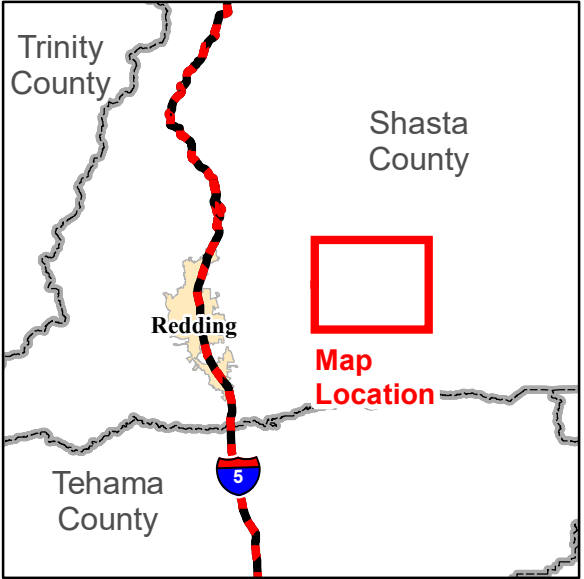


Figure 4.4-6 Soil Types

Shasta County, CA

LEGEND

Project Components

- Site Boundary - Approx. 7.5 Acres
- Limits of Construction
- Distribution Overland Travel
- Exterior Access Road
- 1,000-Ft Buffer of Construction Limits

Soil Types

- CmD - Cohasset stony loam, 0-30% slopes
- KhD - Kilarc sandy clay loam, 15-30% slopes
- KhE - Kilarc sandy clay loam, 30-50% slopes
- KID - Kilarc very stony sandy clay loam, 10-30% slopes
- PcD - Parrish loam, 8-30% slopes
- StD - Supan gravelly loam, 15-30% slopes
- SuD - Supan very stony loam, 0-30% slopes
- SuE - Supan very stony loam, 30-50% slopes
- TeD - Toomes very stony loam, 0-30% slopes

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary

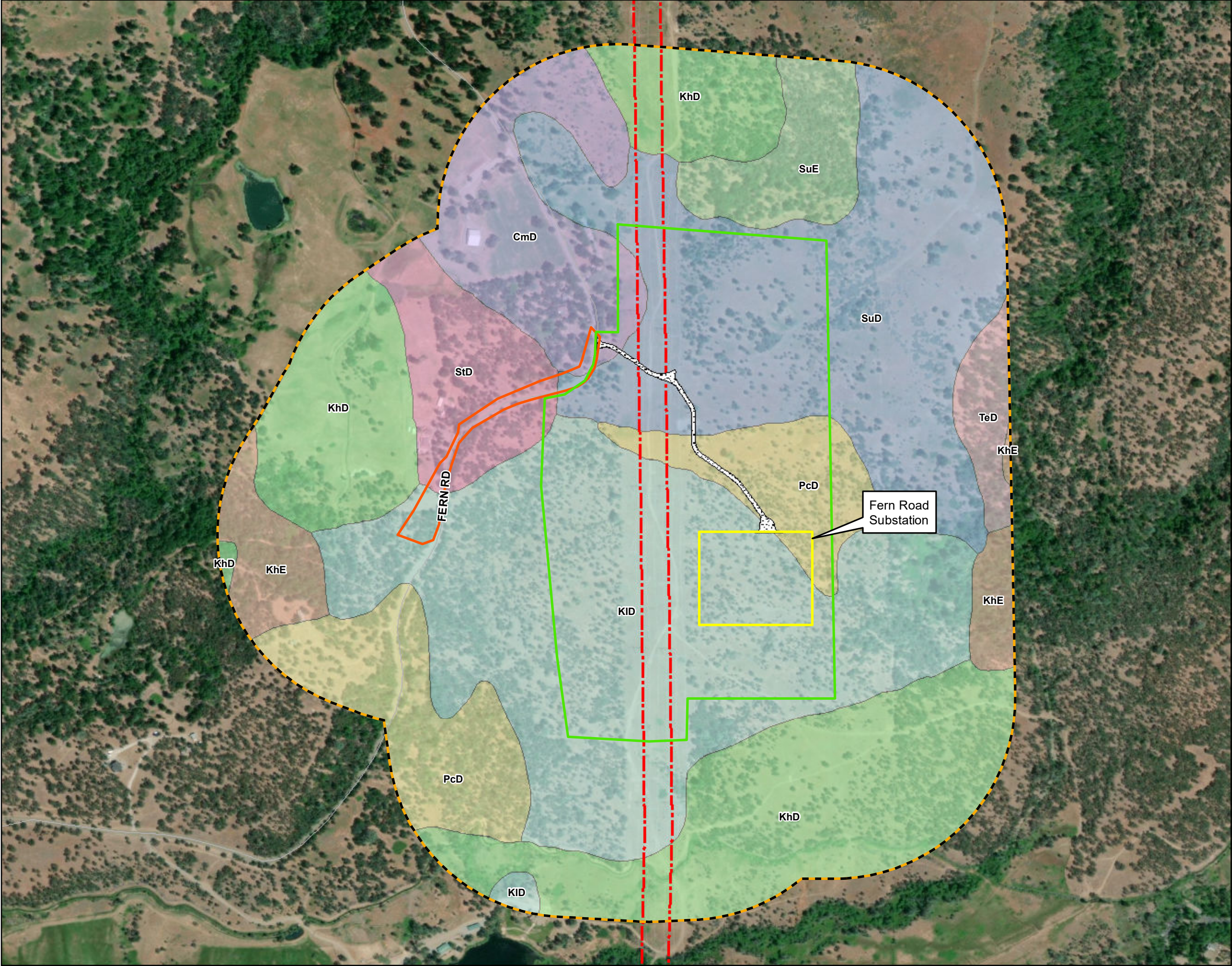
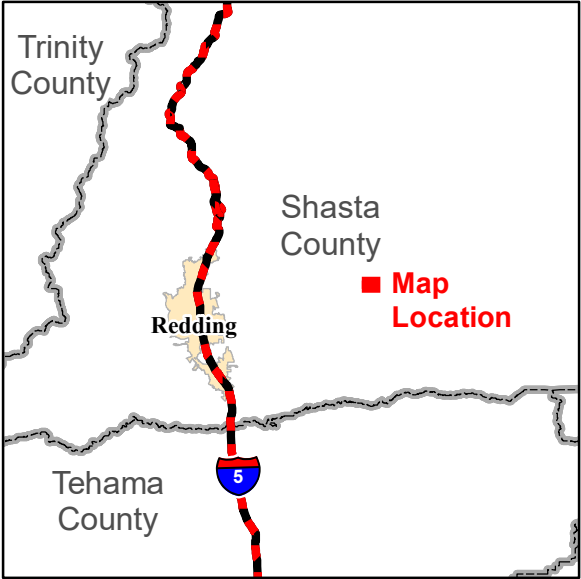
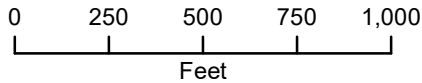


Figure 4.4-7 Botanical Survey Results

Shasta County, CA

LEGEND

Project Components

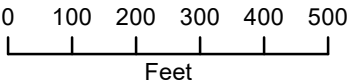
- Site Boundary - Approx. 7.5 Acres
- Botanical Resources Survey Area / Limits of Construction
- Distribution Overland Travel
- Exterior Access Road

Botanical Resources Survey Results

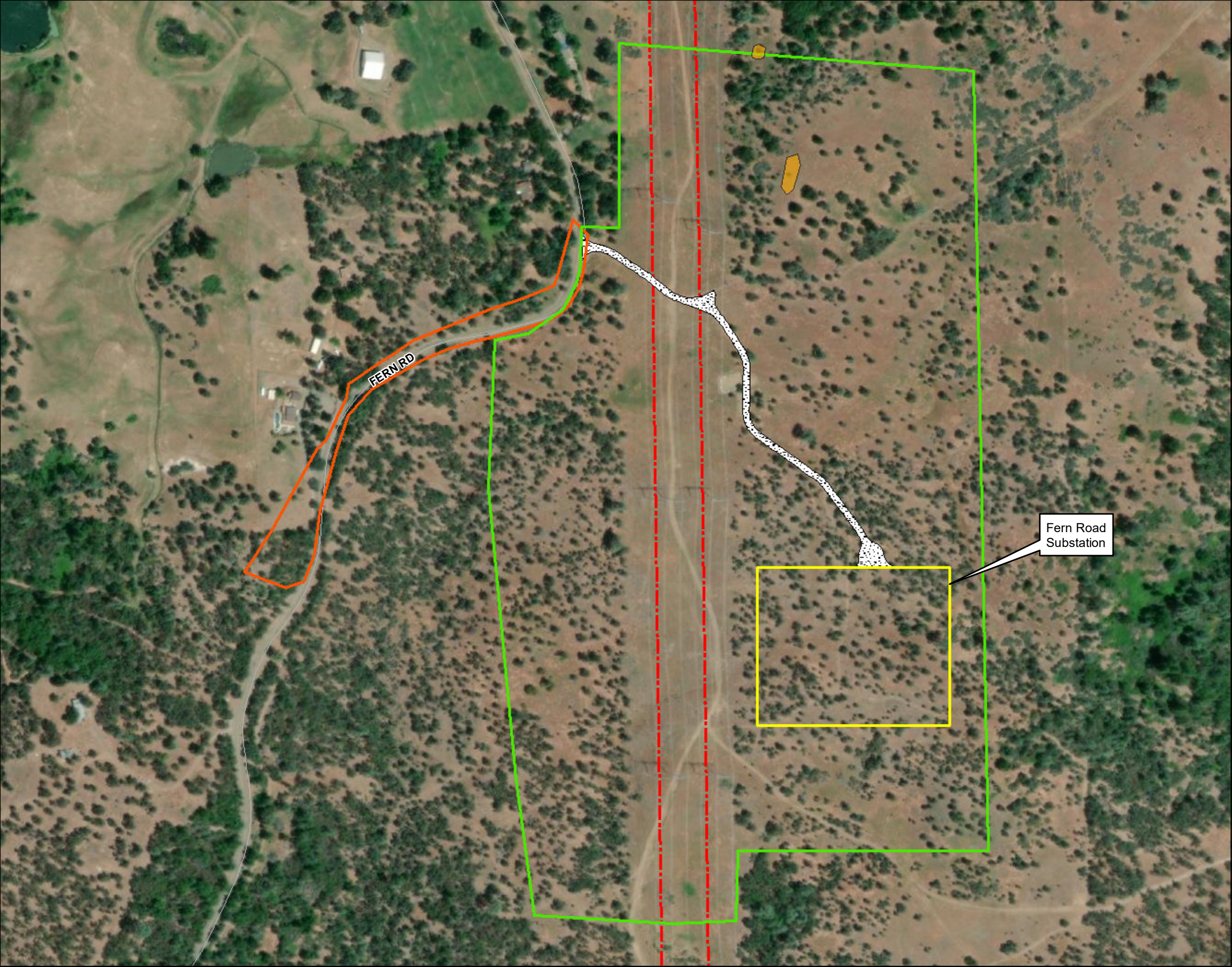
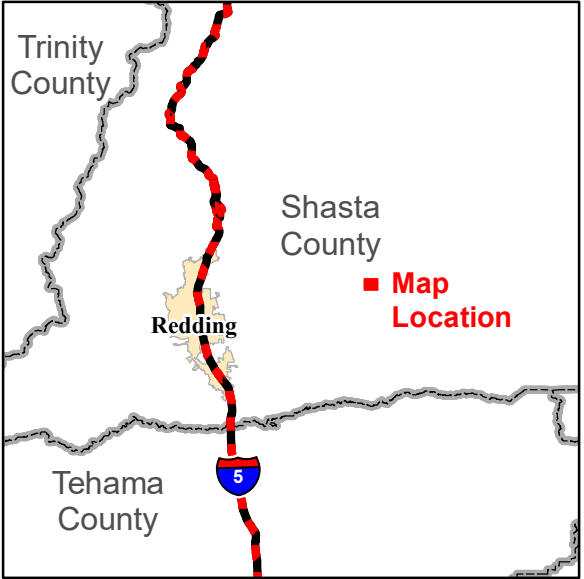
- Thermopsis californica* var. *argentata* Observations

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone 1 Feet.
F:\...PEA\Figure 4.4-7 Botanical Survey Results 031822.mxd
SJW 3-18-2022



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.4-8 Tree Count Survey

Shasta County, CA

LEGEND

Project Components

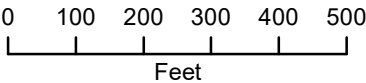
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction
- Distribution Overland Travel
- Exterior Access Road

Tree Species

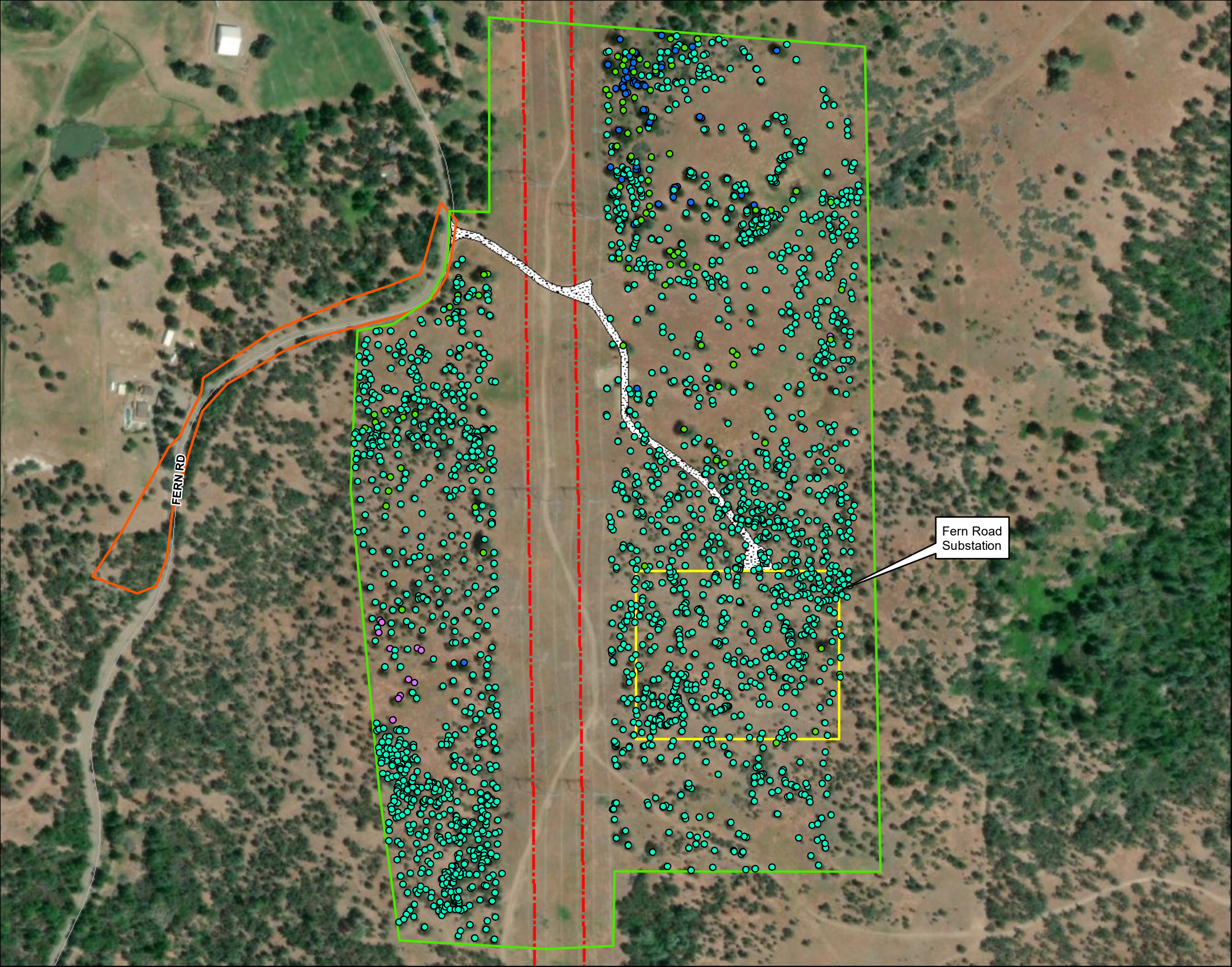
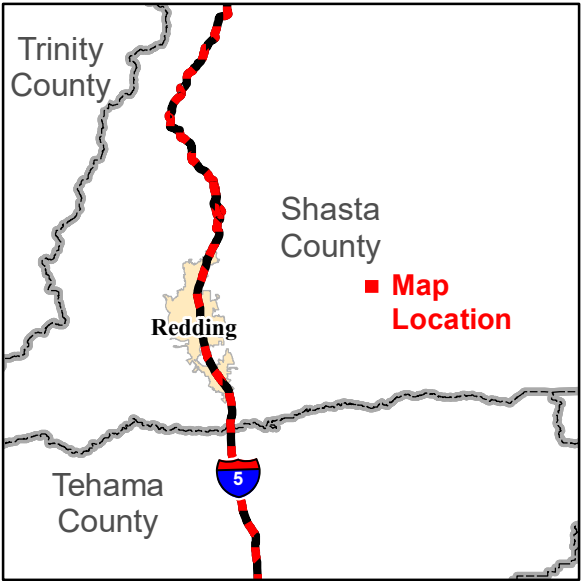
- Blue Oak
- California Black Oak
- California Buckeye
- Gray Pine

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone 1 Feet.
F:\...PEA\Figure 4.4-8 Tree County Survey 032722.mxd
SJW 3-27-2022



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.7-1 Known Active Faults

Shasta County, CA

LEGEND

Project Components

- ★ Project Site
- 10-Mile Buffer of Project Site

Known Active Faults

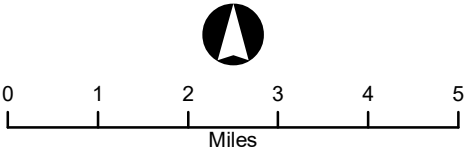
- McCumber Flat fault, well constrained location
- McCumber Flat fault, moderately constrained location
- McCumber Flat fault, Inferred location

Jurisdiction

- Bureau of Land Management Land
- U.S. Forest Service Land
- State Land

General Features

- Highway



Data Sources: CGS, ESRI, Shasta Co., USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Fig 4.7-1 Known Active Faults 110821.mxd
SJW 11-08-2021

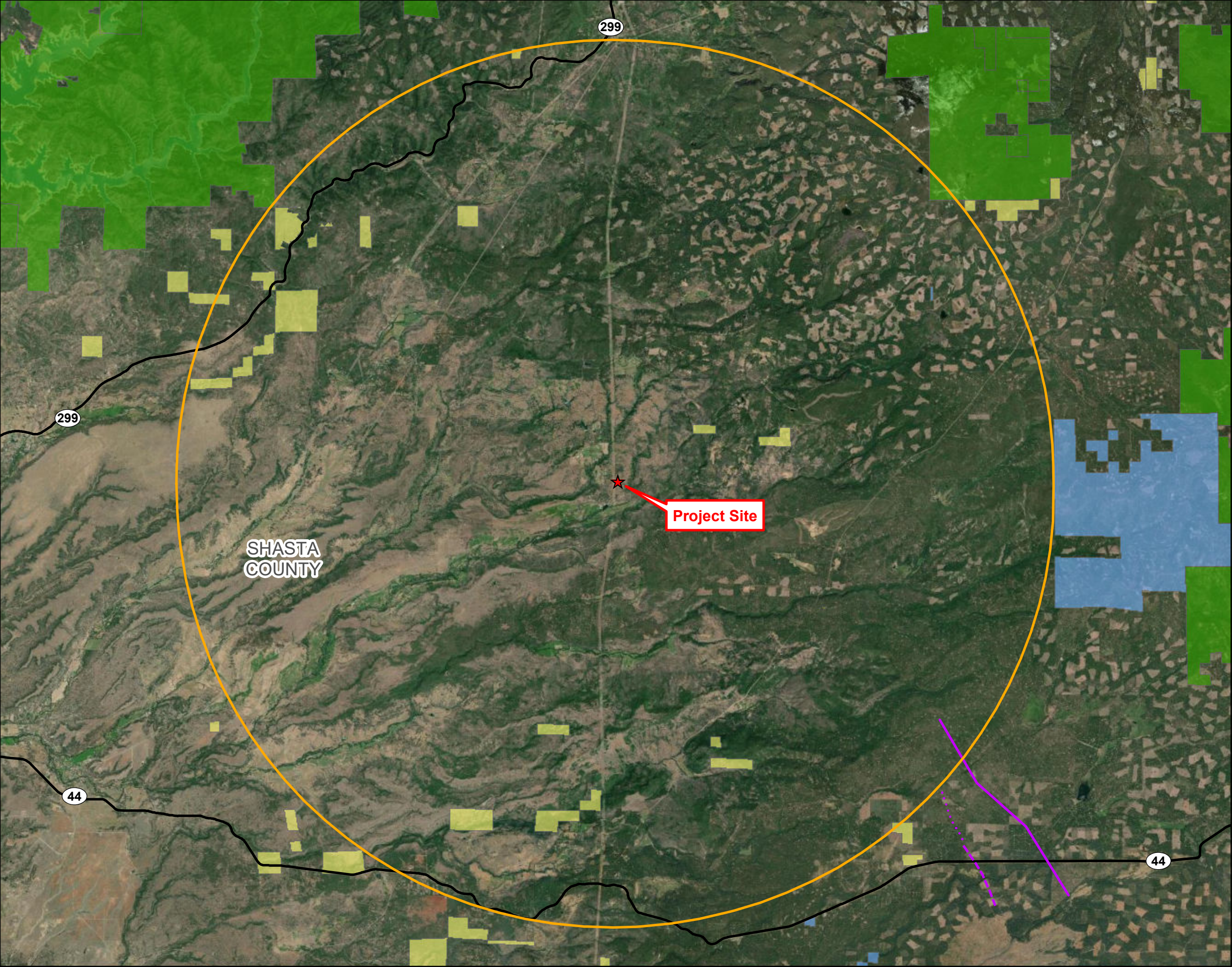


Figure 4.7-2 Geologic Units

Shasta County, CA

LEGEND

Project Components

- Site Boundary - Approx. 7.5 Acres
- Limits of Constuction
- Distribution Overland Travel
- 1-Mile Buffer of Construction Limits
- Exterior Access Road

Geologic Unit

- Ec - Eocene sandstone
- Tvp - Tertiary andesite

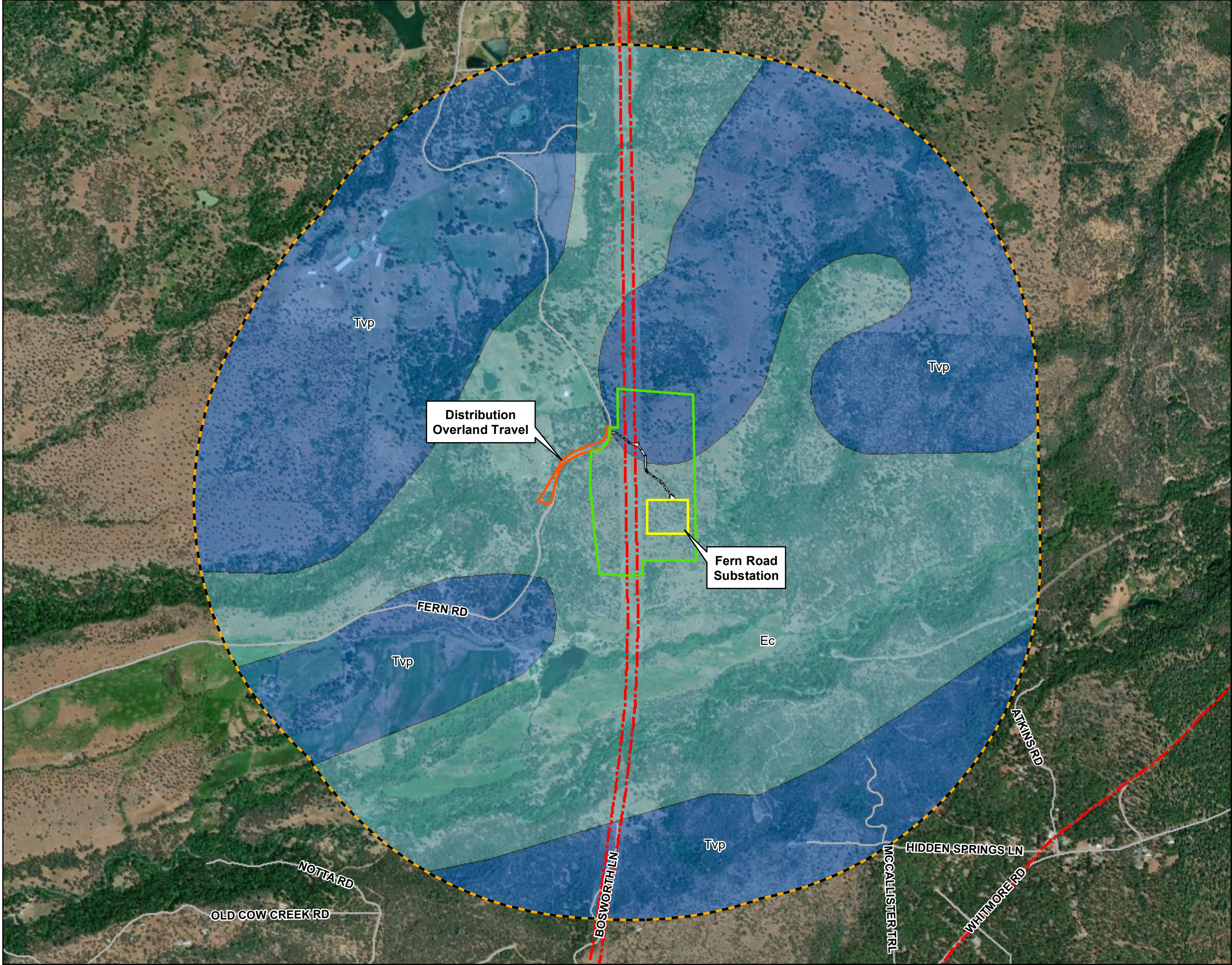
General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



0 0.25 0.5 0.75
Miles

Data Sources: CGS, ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Figure 4.7-2 Geologic Units 031822.mxd
SJW 3-21-2022



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.7-3 Soil Types

Shasta County, CA

LEGEND

Project Components

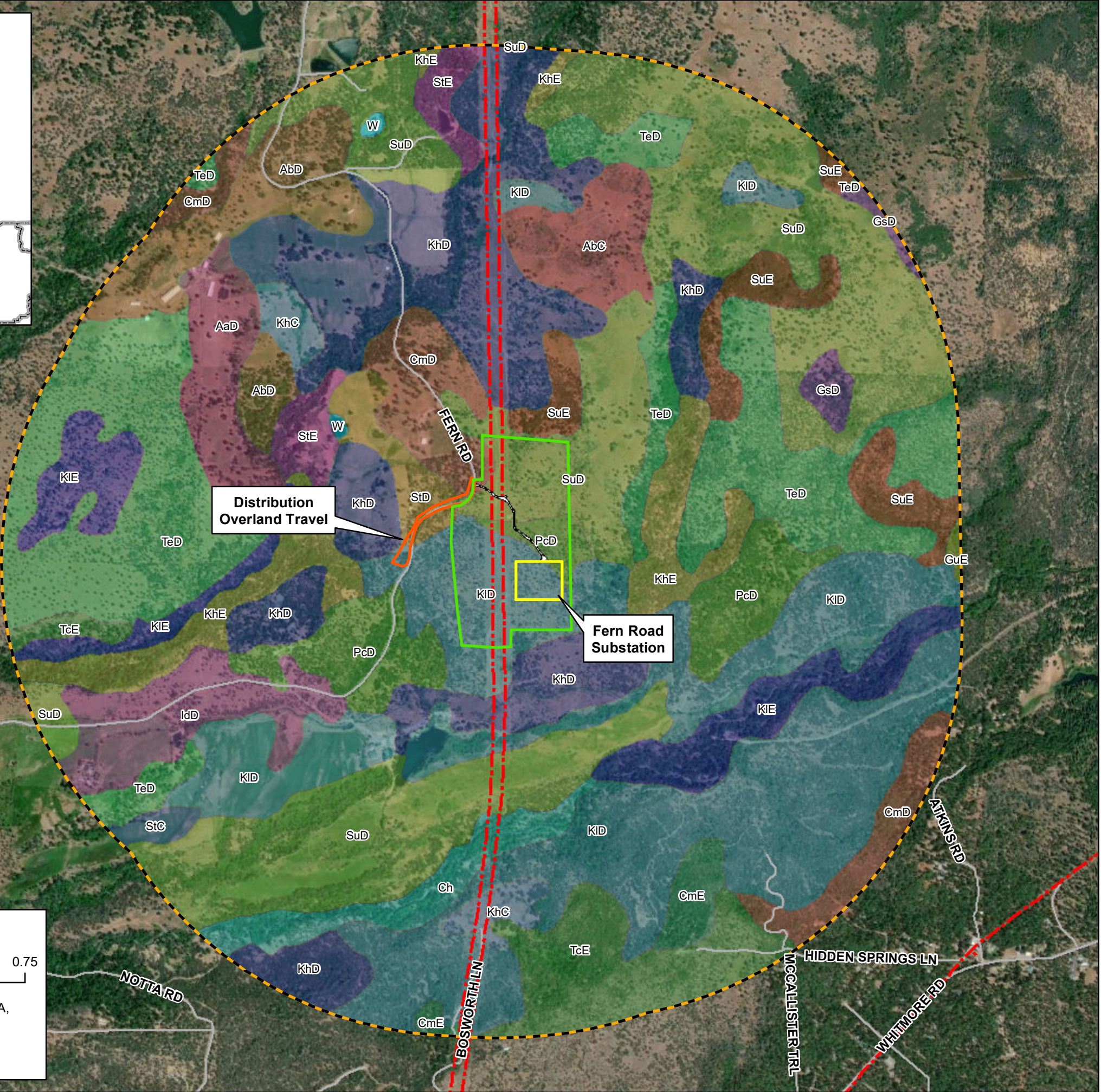
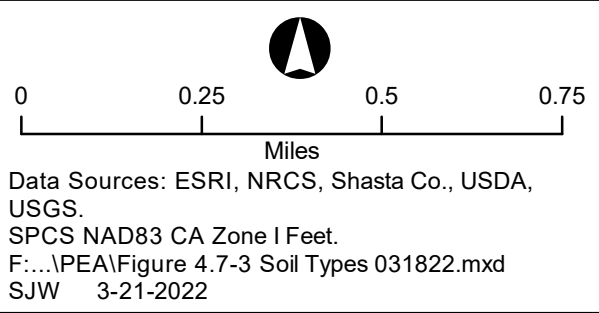
- Site Boundary - Approx. 7.5 Acres
- Limits of Constuction
- 1-Mile Buffer of Construction Limits
- Distribution Overland Travel
- Exterior Access Road

Soil Types

- AaD - Aiken loam, 15-30% slopes, low ffd
- AbC - Aiken stony loam, 8-15% slopes
- AbD - Aiken stony loam, 15-30% slopes
- Ch - Cobbly alluvial land
- CmD - Cohasset stony loam, 0-30% slopes
- CmE - Cohasset stony loam, 10-50% slopes, MLRA 22B
- GsD - Guenoc very stony loam, 0-30% slopes
- GuE - Guenoc very rocky loam, 30-50% slopes
- IdD - Inks very stony loam, 3-30% slopes
- KhC - Kilarc sandy clay loam, 2-15% slopes
- KhD - Kilarc sandy clay loam, 15-30% slopes
- KhE - Kilarc sandy clay loam, 30-50% slopes
- KID - Kilarc very stony sandy clay loam, 10-30% slopes
- KIE - Kilarc very stony sandy clay loam, 30-50% slopes
- PcD - Parrish loam, 8-30% slopes
- StC - Supan gravelly loam, 5-15% slopes
- StD - Supan gravelly loam, 15-30% slopes
- StE - Supan gravelly loam, 30-50% slopes
- SuD - Supan very stony loam, 0-30% slopes
- SuE - Supan very stony loam, 30-50% slopes
- TcE - Toomes very rocky loam, 0-50% slopes
- TeD - Toomes very stony loam, 0-30% slopes
- W - Water

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.11-1 Land Use and Zoning

Shasta County, CA

LEGEND

Project Components

- Site Boundary - Approx. 7.5 Acres
- Exterior Access Road
- Limits of Construction
- Distribution Overland Travel
- 1-Mile Buffer of Construction Limits

Land Use

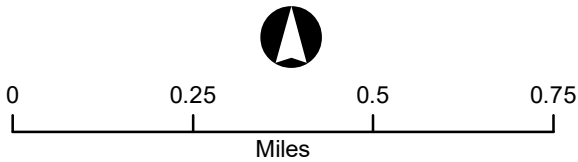
- A-G - Agricultural-Grazing
- N-H-40 - Natural Resources Protection Habitat, 40-acre minimum
- N-H-80 - Natural Resources Protection Habitat, 80-acre minimum
- RB - Rural Residential

Zoning

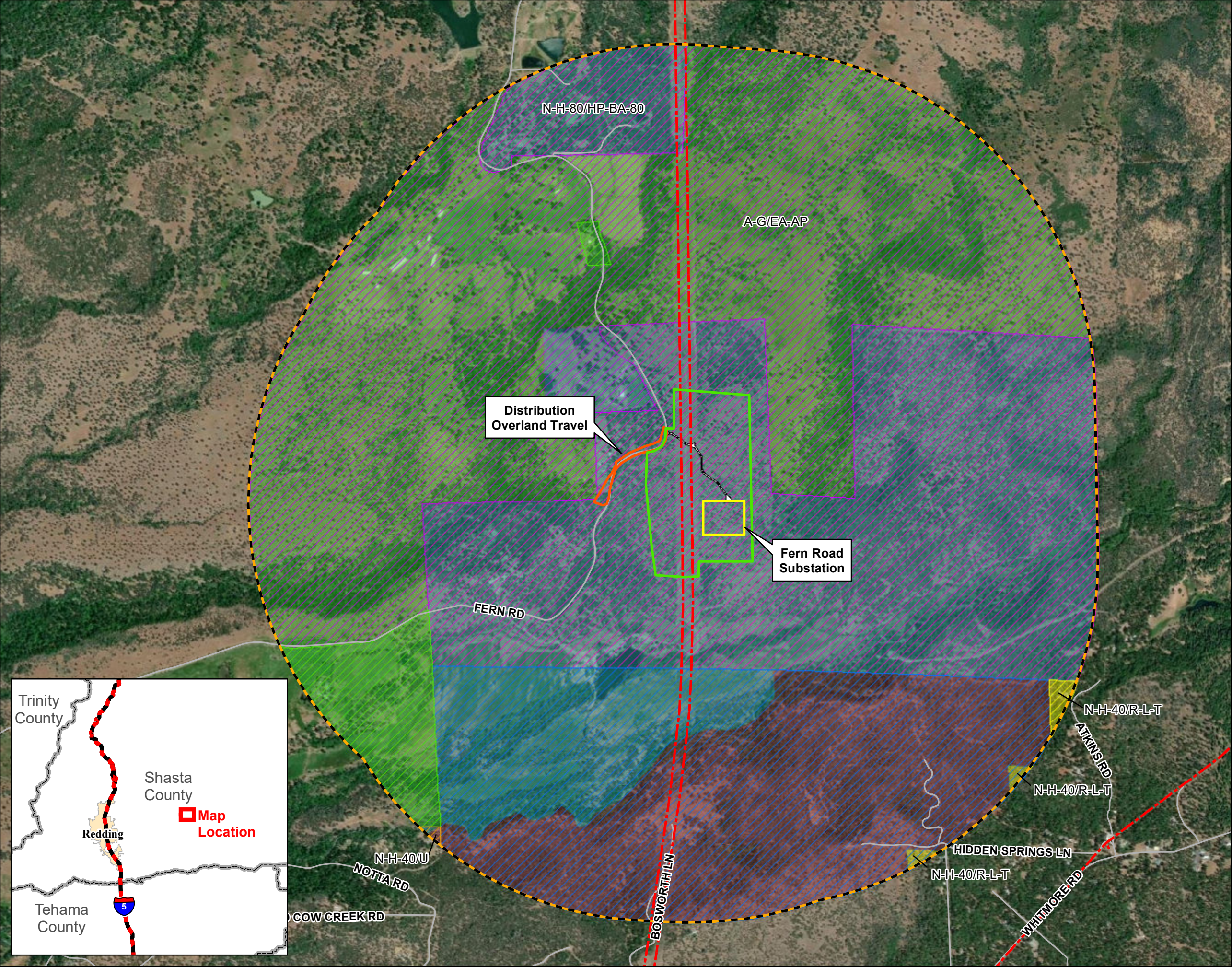
- EA - Exclusive Agriculture
- EA-AP - Exclusive Agriculture-Agricultural Preserve
- HP-BA-40 - Habitat Protection District, 40-acre minimum
- HP-BA-80 - Habitat Protection District, 80-acre minimum
- R-L-T - Limited Residential, Mobile Homes
- U - Unclassified

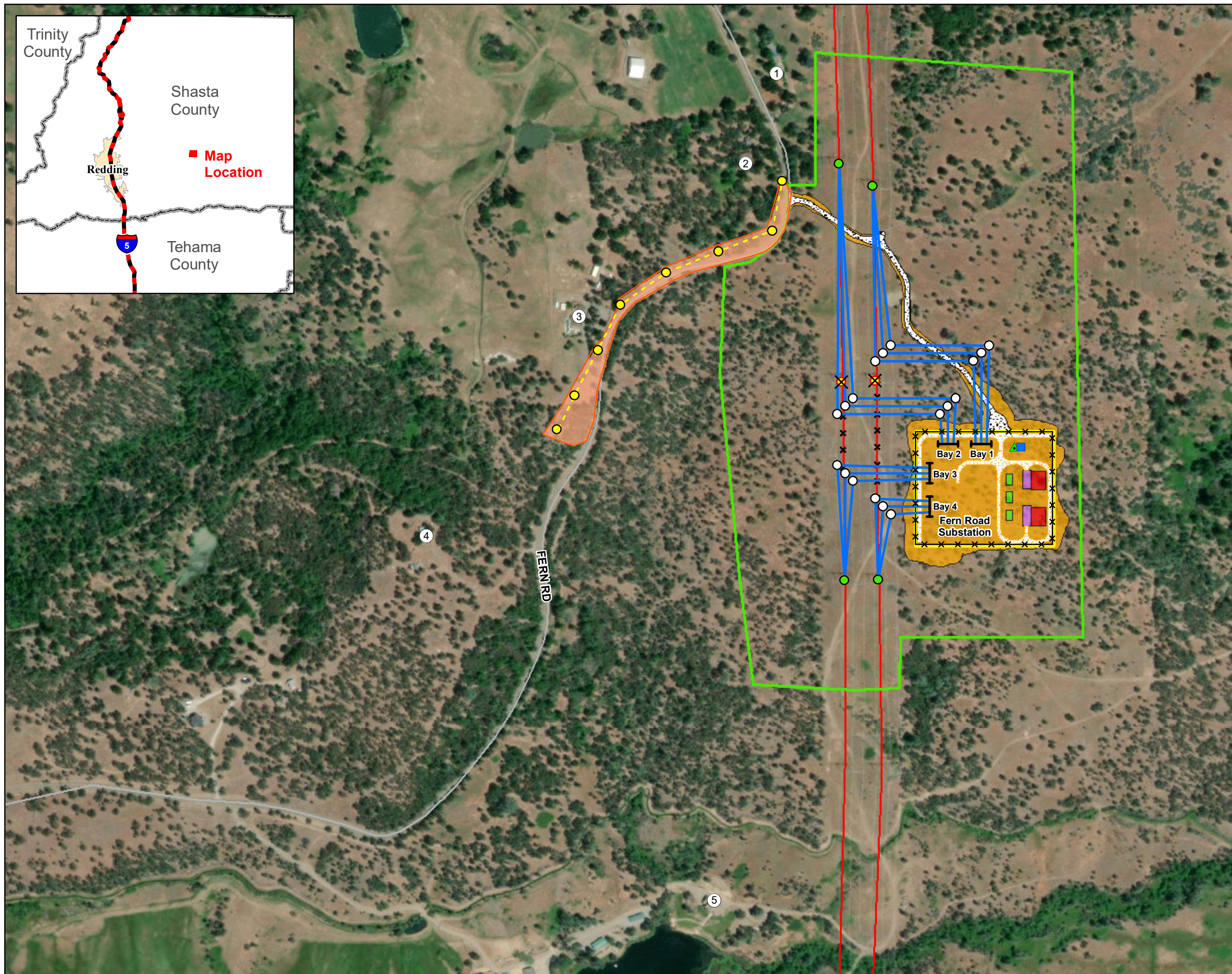
General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...\IPEA\Figure 4.11-1 Land Use Zoning
031822.mxd SJW 3-21-2022





















LSPGC - Round Mountain 500 kV Area Dynamic Reactive Support Project

Figure 4.13-1 Noise Sources

Shasta County, CA

LEGEND







Project Components

- | | |
|--|--|
|  | New 3-Pole Dead-End Pole |
|  | Existing Structure to be Removed |
|  | Rebuilt Distribution Pole |
|  | Microwave Tower |
|  | Control Enclosure |
|  | Project Tie Line |
|  | Existing 500kV Transmission Line to be Removed |
|  | Rebuilt Distribution Line |
|  | Fern Road Substation Bay |
|  | Substation Fence |
|  | Interior Access Road |
|  | Exterior Access Road |
|  | Distribution Overland Travel |
|  | Graded Area |
|  | Site Boundary - Approx. 7.5 Acres |
|  | Limits of Construction |

Noise Sources and Receiver Locations

-

General Features

-
-  Existing Structure
 Existing 500kV Transmission Line
 Interstate
 Road
 County Boundary
 Municipal Boundary

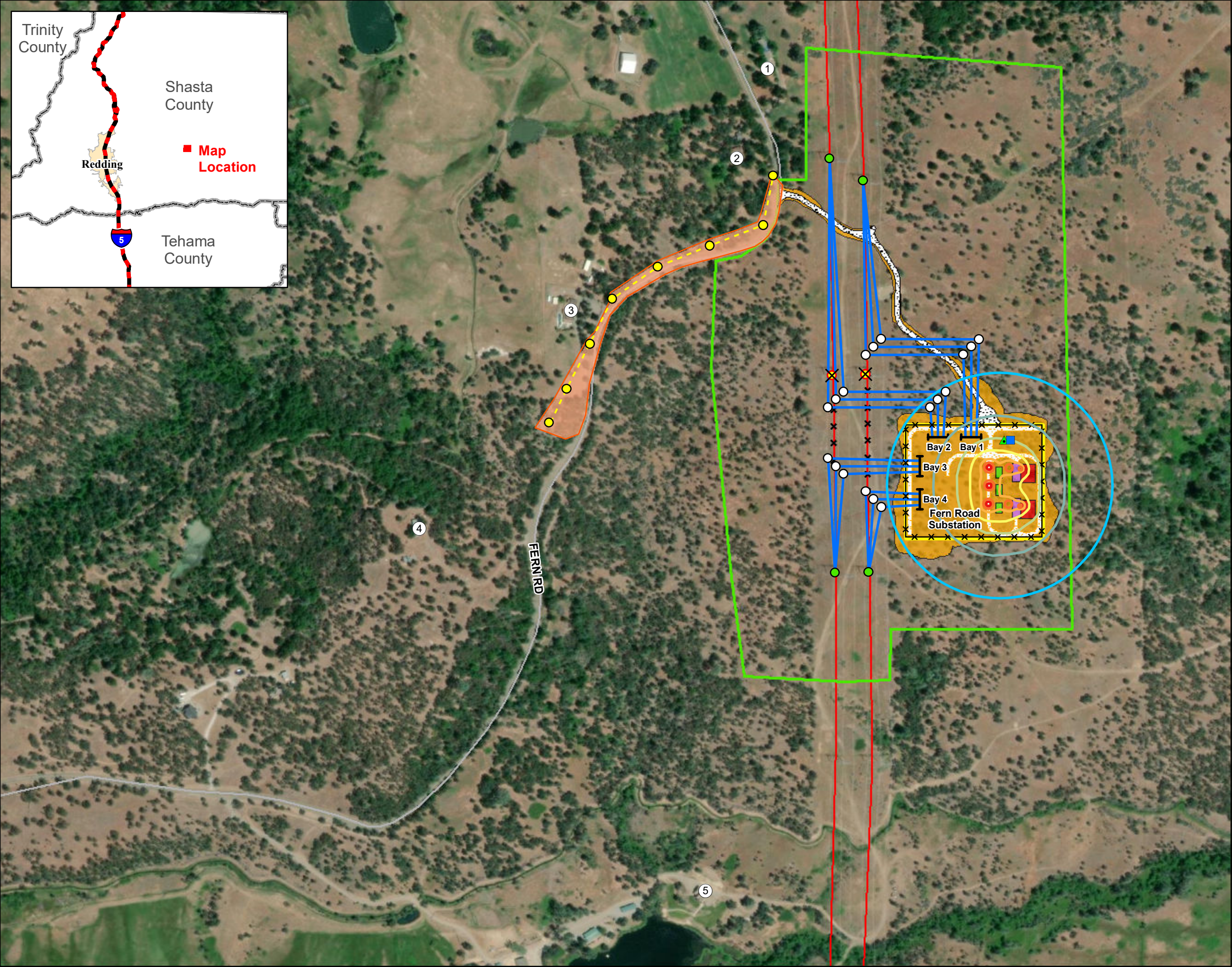


A horizontal number line labeled "Feet" with tick marks at 0, 200, 400, 600, 800, and 1,000.

Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...\\PEA\Figure 4.13-1 Noise Sources 030622.mxd
SJW 4-03-2022

Figure 4.13-2
Operational Noise Level Contours

Shasta County, CA



LEGEND

Project Components

- New 3-Pole Dead-End Pole
- ✗ Existing Structure to be Removed
- Rebuilt Distribution Pole
- ▲ Microwave Tower
- Control Enclosure
- Project Tie Line
- ✗✗ Existing 500kV Transmission Line to be Removed
- - - Rebuilt Distribution Line
- ⊢ Fern Road Substation Bay
- ✗✗ Substation Fence
- ▨ Interior Access Road
- ▤ Exterior Access Road
- Distribution Overland Travel
- Graded Area
- Site Boundary - Approx. 7.5 Acres
- Limits of Construction

Noise Sources and Receiver Locations

- # Receiver Location
- Transformer
- Reactor
- Converter & Control Enclosure

Operational Noise Level Contours (dBA L_{eq})

- | | | |
|----|----|----|
| 40 | 45 | 50 |
| 55 | 60 | 65 |
| 70 | | |

General Features

- Existing Structure
- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary

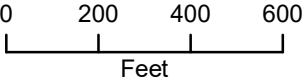


Figure 4.15-1
Public Service Facilities

Shasta County, CA

LEGEND

Project Components

★ Project Site

Public Service Facilities

Fire Station

Police/Sheriff Station

Hospital

School

School District Boundary

Parks or Open Space

General Features

Interstate

Highway

Railroad

County Boundary

National Forest Boundary

Federal Wilderness Area

Municipal Boundary

Jurisdiction

Bureau of Land Management Land

U.S. Forest Service Land

Bureau of Indian Affairs Land

State Land

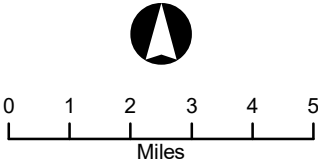
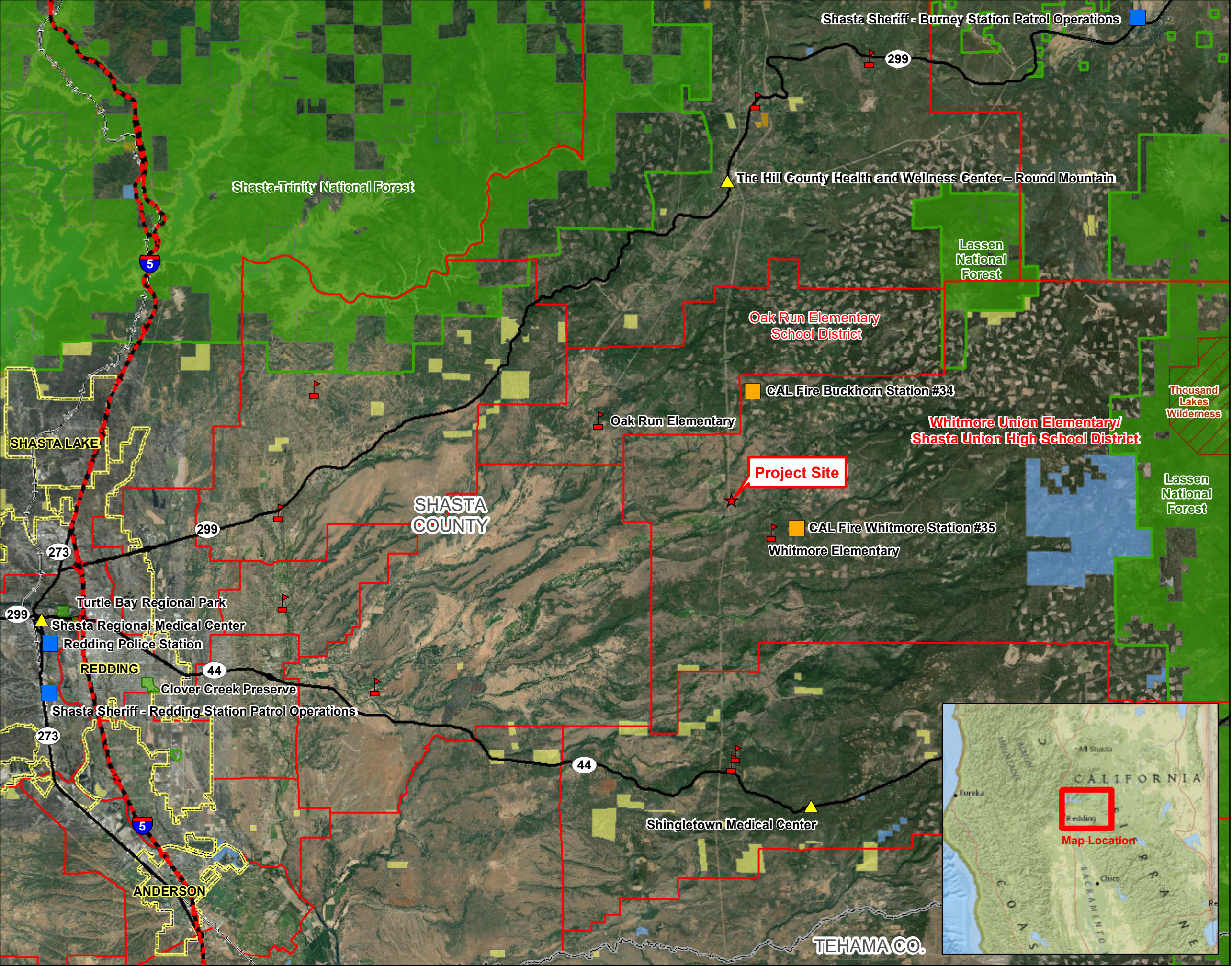


Figure 4.16-1
Recreational Facilities

Shasta County, CA

LEGEND

Project Components

★ Project Site

Recreation

▢ Whitmore Elementary School

★ Kilarc Reservoir

★ South Cow Creek Campground

— Stream

▢ Latour Demonstration State Forest

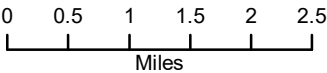
General Features

▢ National Forest Boundary

Jurisdiction

▢ Bureau of Land Management Land

▢ U.S. Forest Service Land



Data Sources: BLM, CA.gov, CalTrans, ESRI, Shasta Co.,
USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...IPEA\Fig 4.16-1 Recreational Facilities 030622.mxd
SJW 3-27-2022

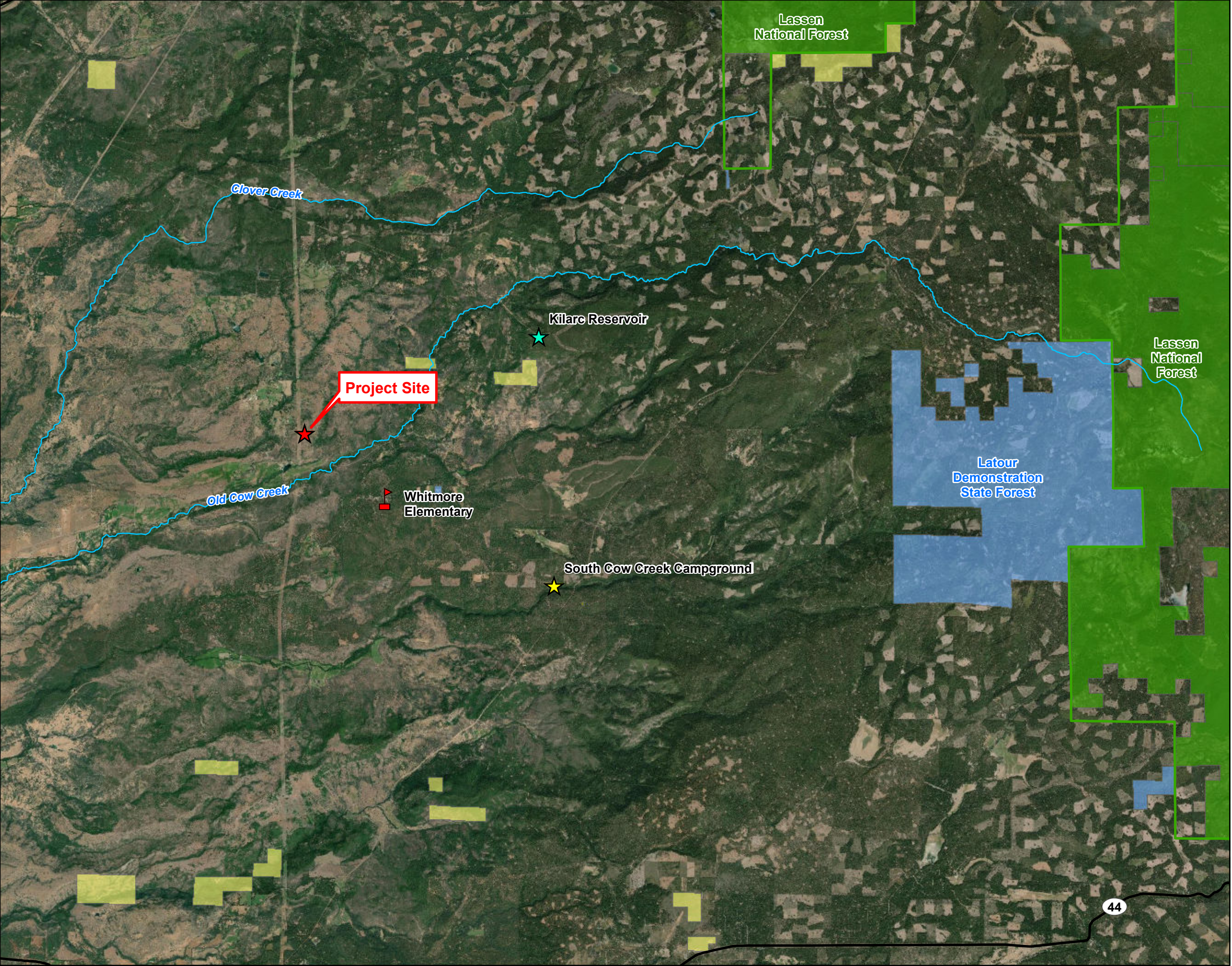


Figure 4.17-1
Regional Transportation-Related
Infrastructure

Shasta County, CA

LEGEND

Project Components

★ Project Site

General Features

— Interstate

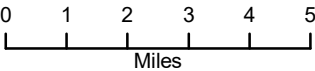
— Highway

— Road

— Railroad

County Boundary

Municipal Boundary



Data Sources: CA.gov, CalTrans, ESRI, Shasta Co.,USDA, USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Fig 4.17-1 Regional Transportation 111021.mxd
SJW 11-10-21

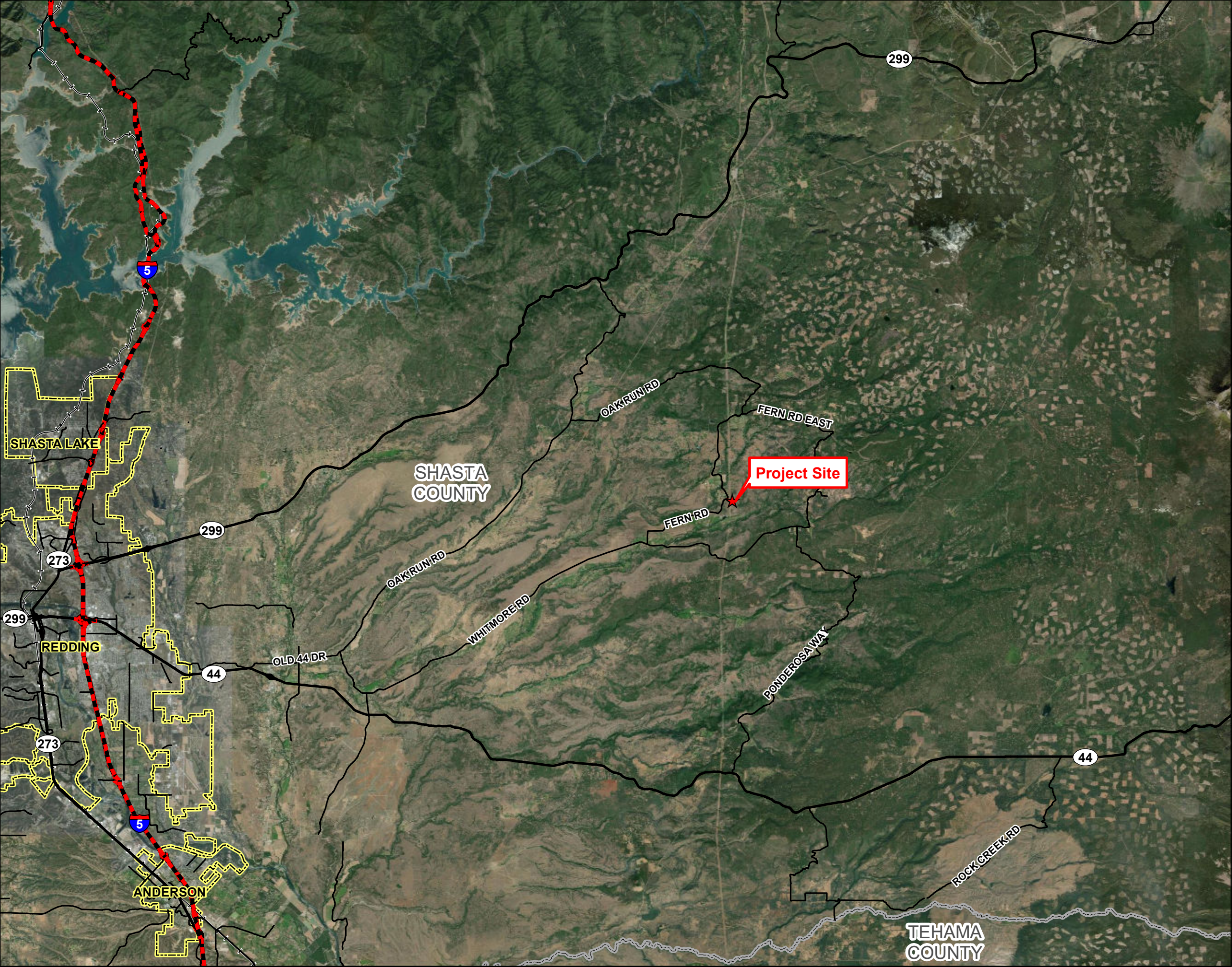


Figure 4.17-2
Local Transportation-Related
Infrastructure

Shasta County, CA

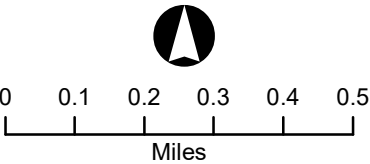
LEGEND

Project Components

- Site Boundary - Approx. 7.5 Acres
- Limits of Construction
- Distribution Overland Travel
- Interior Access Road
- Exterior Access Road

General Features

- Existing 500kV Transmission Line
- Interstate
- Road
- County Boundary
- Municipal Boundary



Data Sources: ESRI, Shasta Co., USDA, USGS.
SPCS NAD83 CA Zone 1 Feet.
F:\...PEA\Figure 4.17-2 Round Mountain Local Transportation
031822.mxd
SJW 3-18-2022

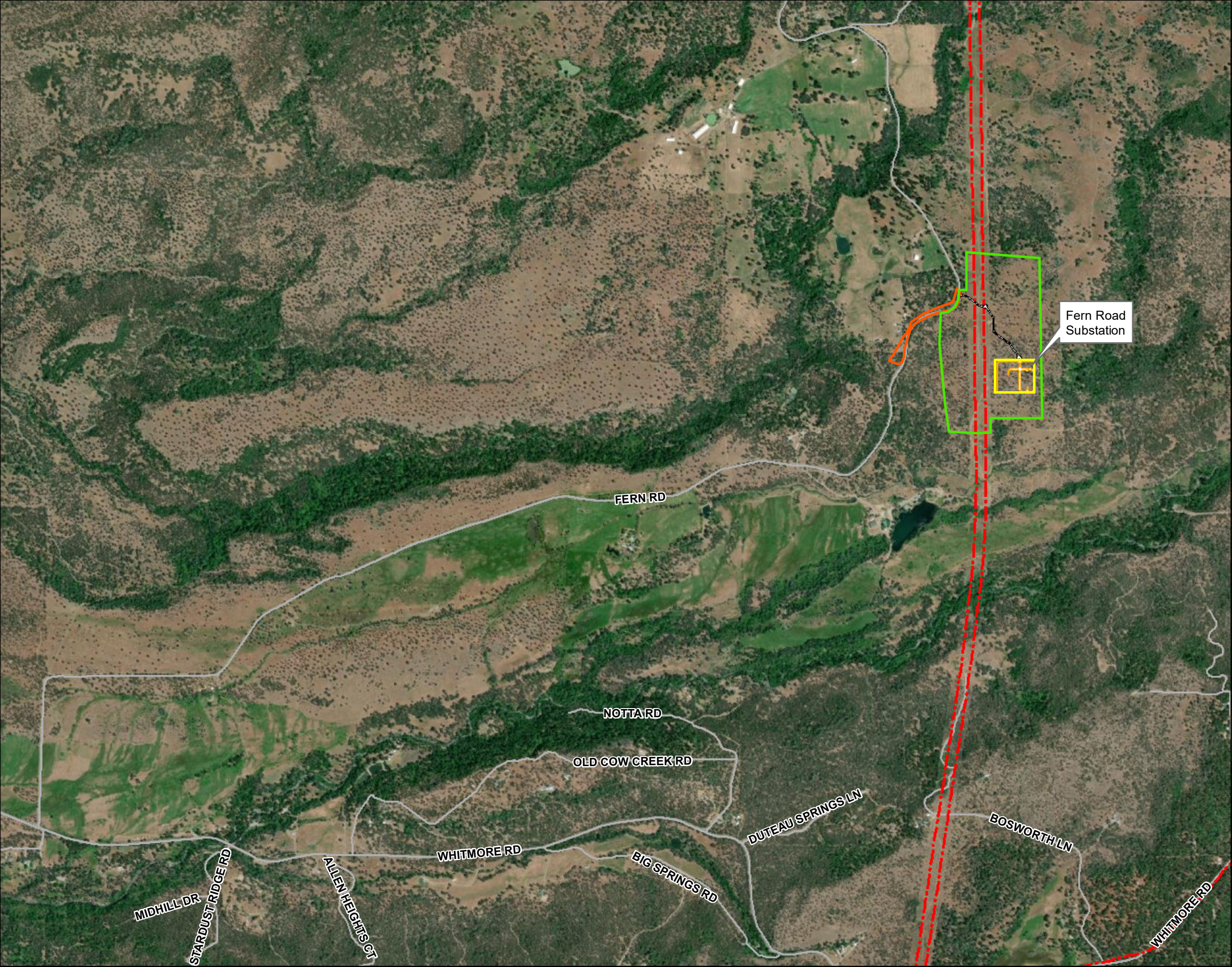
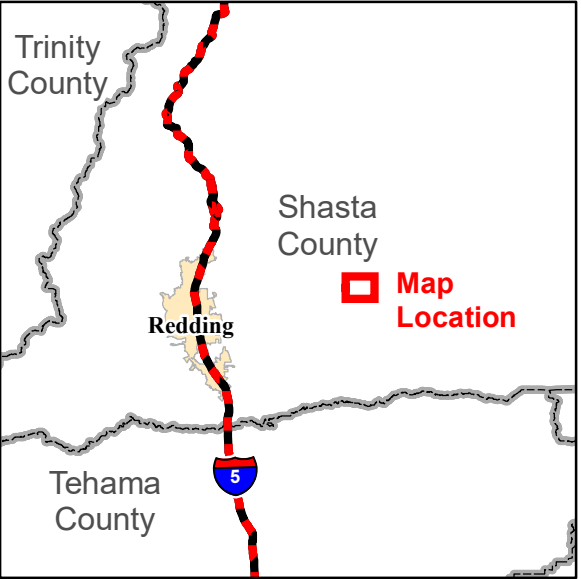


Figure 4.20-1
Fire Hazard Severity Zones

Shasta County, CA

LEGEND

Project Components

★ Project Site

Fire Hazard Severity Zones (SRA)

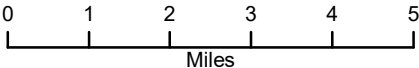
Moderate

High

Very High

General Features

Highway



Data Sources: CalFire, ESRI, Shasta Co., USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Fig 4.20-1 Fire Hazard Severity Zones 111021.mxd
SJW 11-10-2021

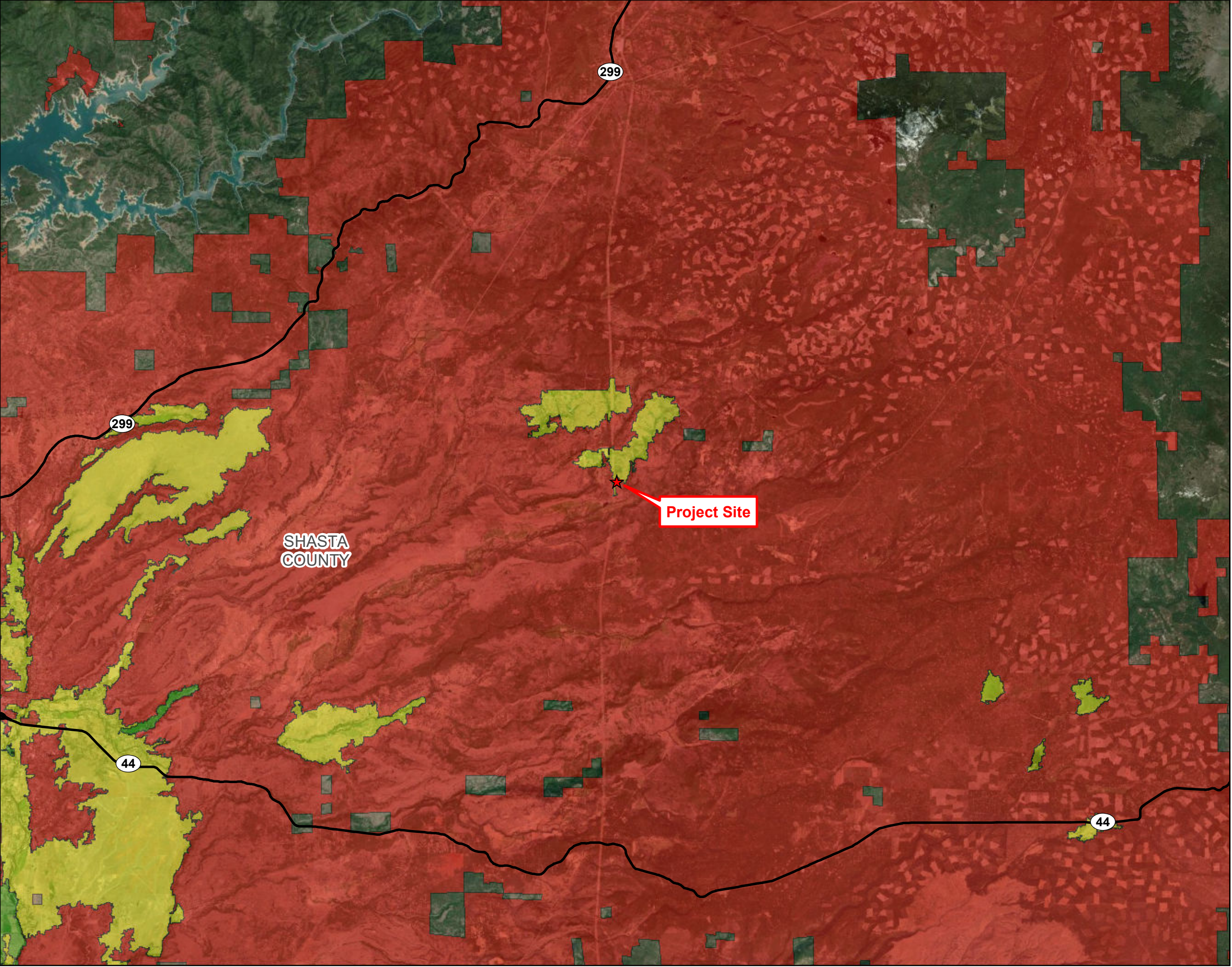


Figure 4.20-2
CPUC Fire Threat Districts

Shasta County, CA

LEGEND

Project Components

★ Project Site

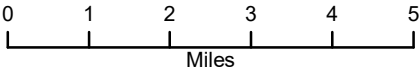
CPUC Fire Threat Districts

Tier 2

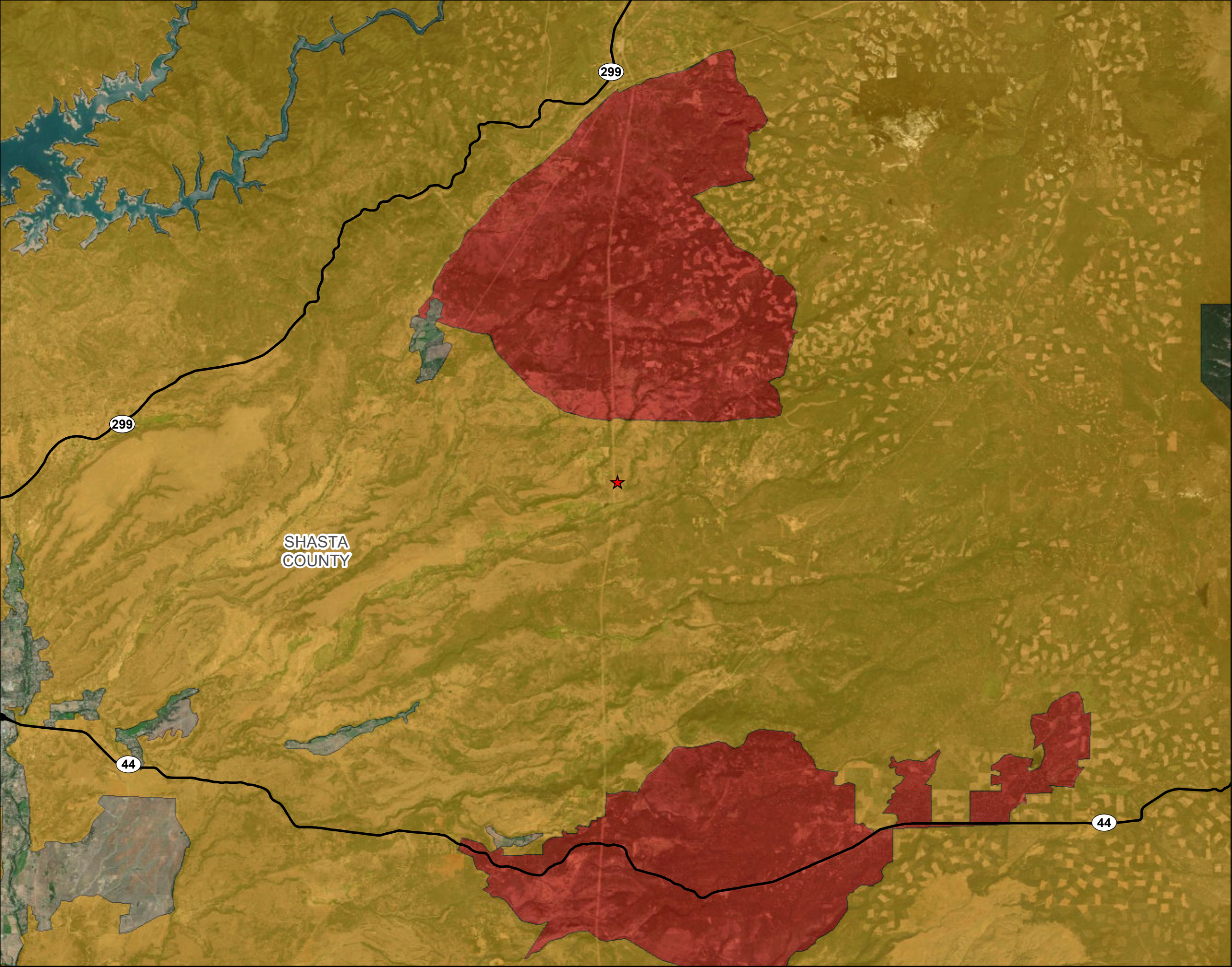
Tier 3

General Features

— Highway



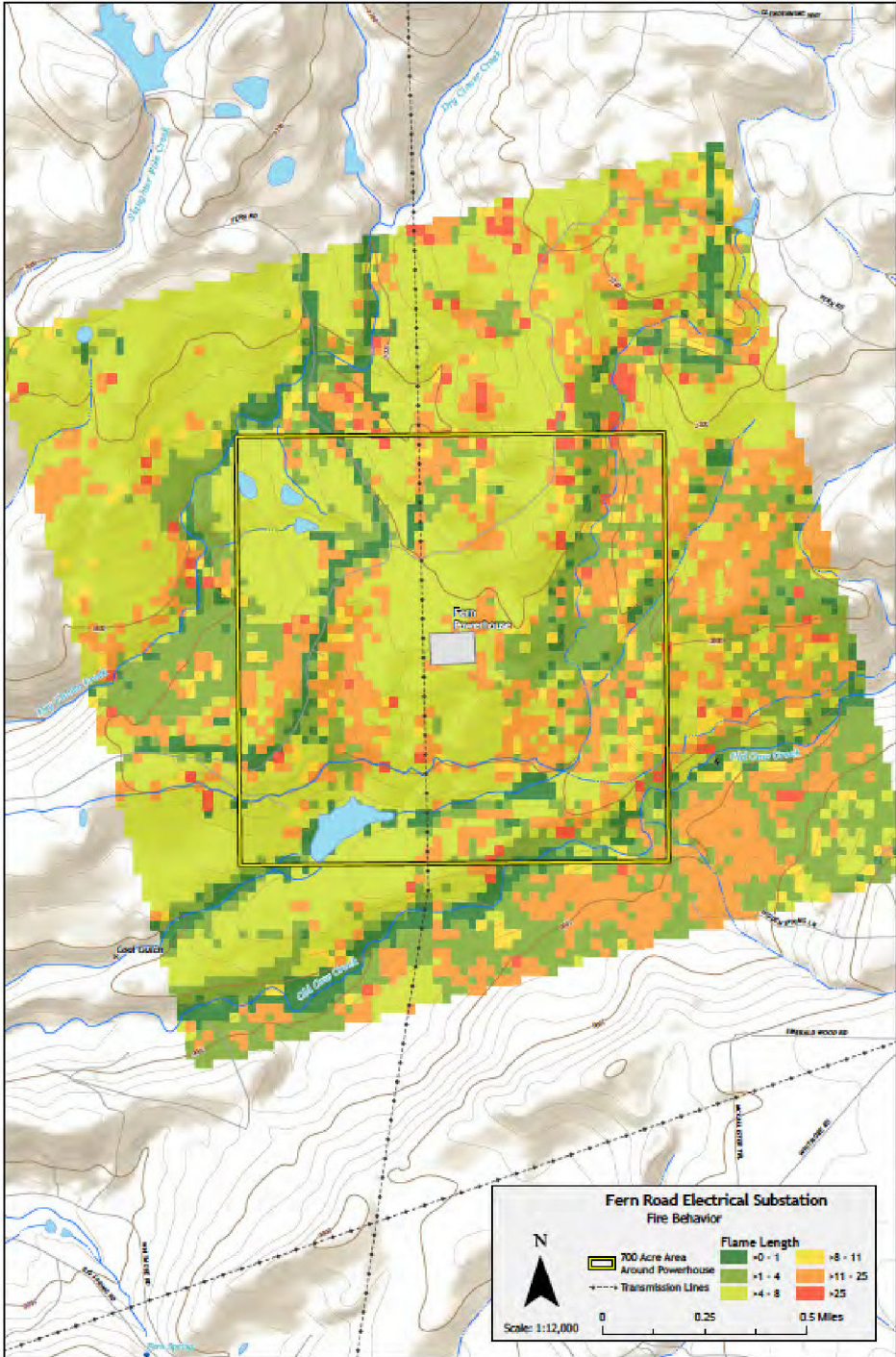
Data Sources: CPUC, ESRI, Shasta Co., USGS.
SPCS NAD83 CA Zone I Feet.
F:\...PEA\Fig 4.20-2 CPUC Fire Threat Districts 111021.mxd
SJW 11-10-2021



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.20-3
Flame Length

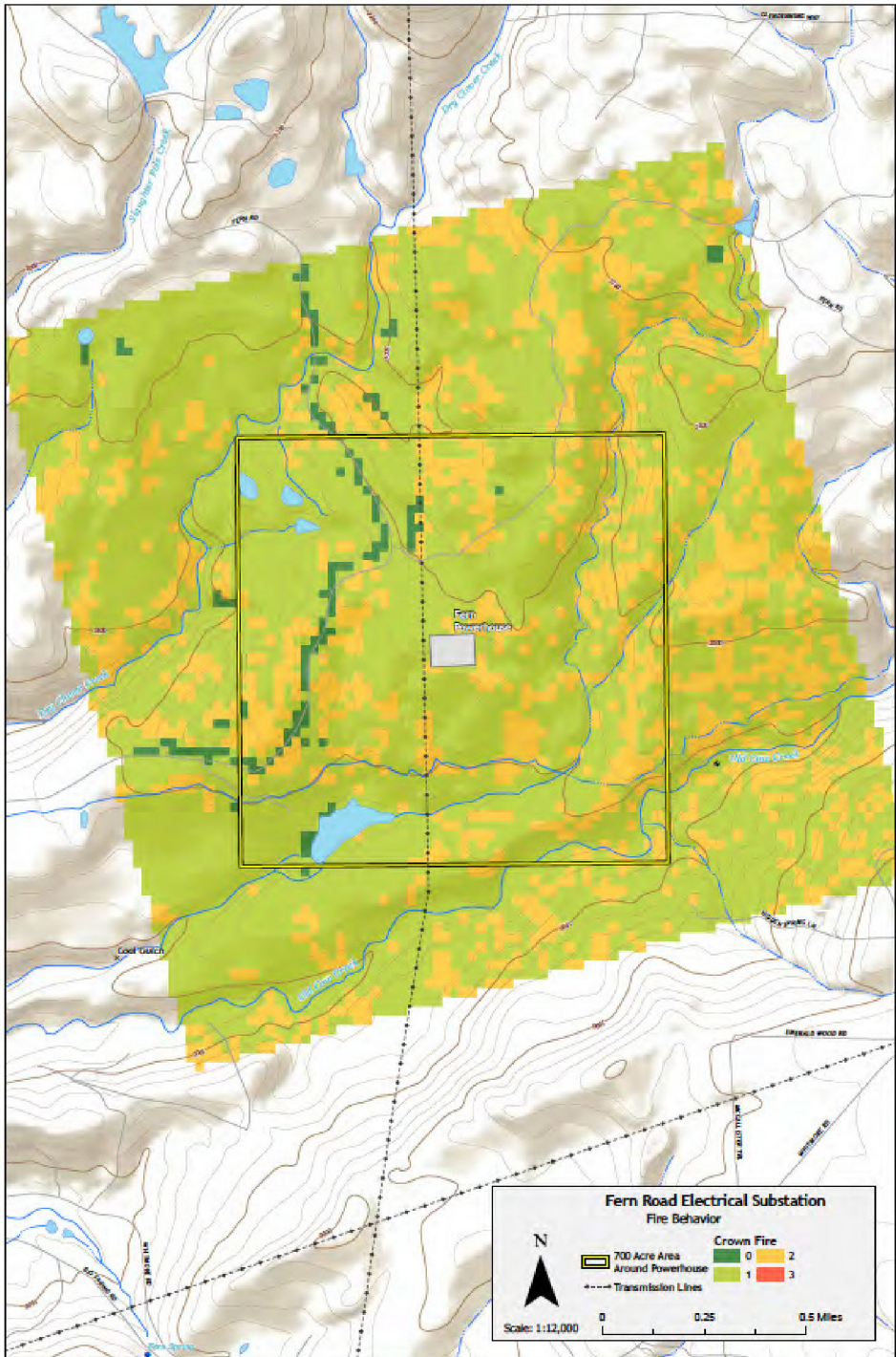
Shasta County, CA



LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project

Figure 4.20-4
Crown Fire

Shasta County, CA



**LSPGC - Round Mountain 500 kV Area
Dynamic Reactive Support Project**

**Figure 4.20-5
Rate of Spread**

Shasta County, CA

