

**APPENDIX A:
DETAILED PROPOSED PROJECT ROUTE MAPS**

Sycamore-Peñasquitos 230-kV Transmission Line Project

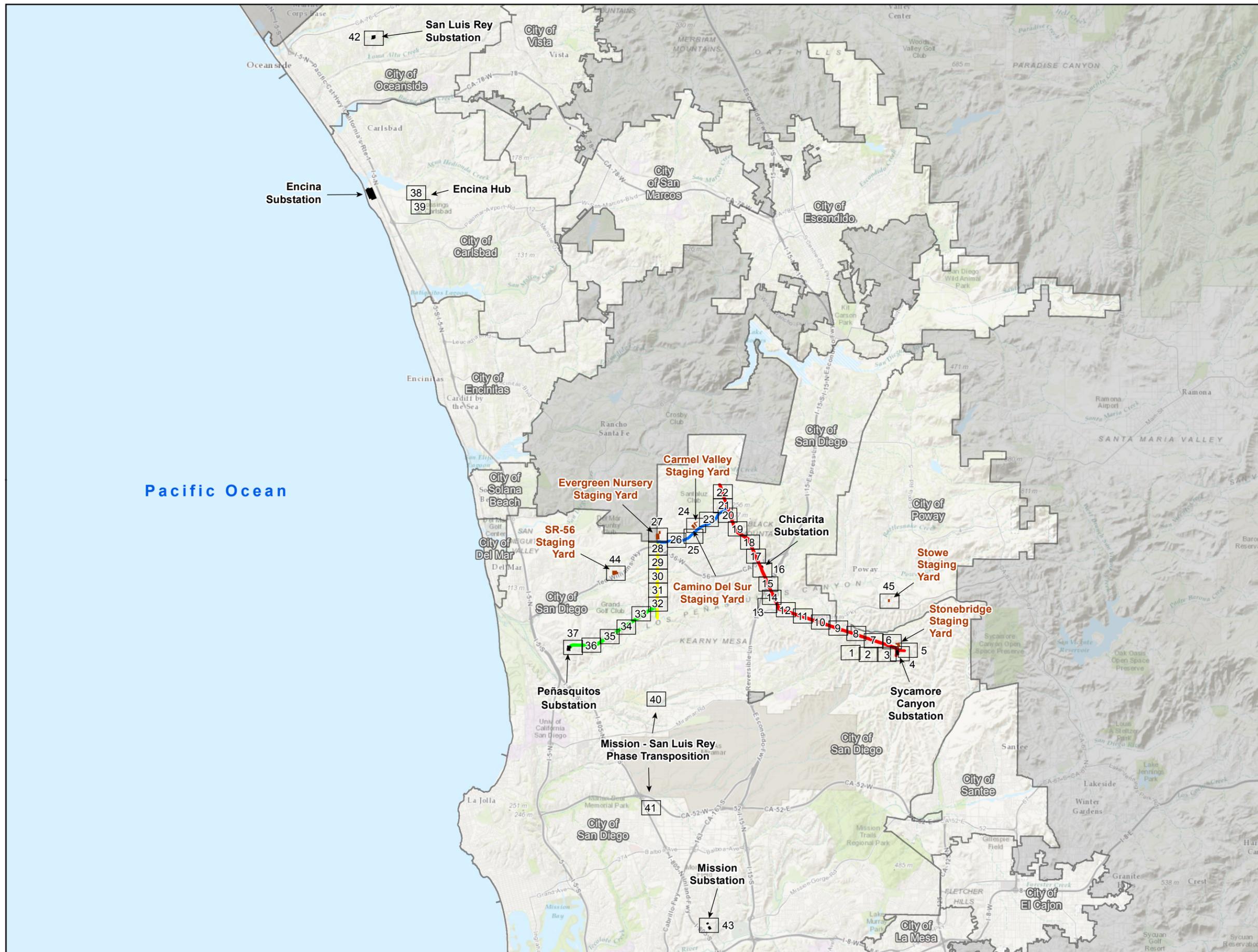
Figure A-1: Proposed Project Detail (Overview Map)

Legend

-  Map Frame
-  Substation
-  Staging Yard
-  City Boundary
-  Unincorporated County Boundary

Proposed Project Alignment

-  Segment A
-  Segment B
-  Segment C
-  Segment D



Pacific Ocean



Scale = 1:200,000



Date Created: 9/3/2015



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Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 1 of 45)

Legend
Work Areas
 Access



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Sycamore-Peñasquitos 230-kV
Transmission Line Project**

Figure A-1: Proposed Project Detail
(Map 2 of 45)

Legend

Work

 Access



Spring Canyon Rd



Scale = 1:3,000
0 100 200 Feet
Aerial Imagery: 5/30/2014
Date Created: 9/3/2015





Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 3 of 45)

- Legend**
- Proposed**
- 230-kV Tubular Steel/Cable Pole (Dead End)
 - ✦ Structure with Preliminary Aviation Lighting
 - Preliminary Aviation Marker
- Existing Structures (To)**
- ✕ 138-kV Wood
- Transmission**
- 230-kV (Proposed)
 - 230-kV (Existing)
- Power**
- 138-kV (Relocated)
 - 69-kV (Existing)
- Work**
- Structure
 - ▨ Structure
 - ▧ Stringing
 - ▩ Access
 - ▭ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 4 of 45)

Legend

Proposed Structures

- 230-kV Tubular Steel/Cable Pole (Dead End)
- 230-kV Tubular Steel Pole (Dead End)
- Structure with Preliminary Aviation Lighting
- Preliminary Aviation Marker Balls
- Retaining Wall

Existing Structures (To)

- 230-kV Steel Lattice Tower (Dead End)
- 230-kV Tubular Steel Pole (Dead End)

Existing Structures (To)

- 69-kV Wood Monopole

Existing Structures (To)

- 138-kV Steel Cable Pole
- 138-kV Wood Monopole

Transmission Lines

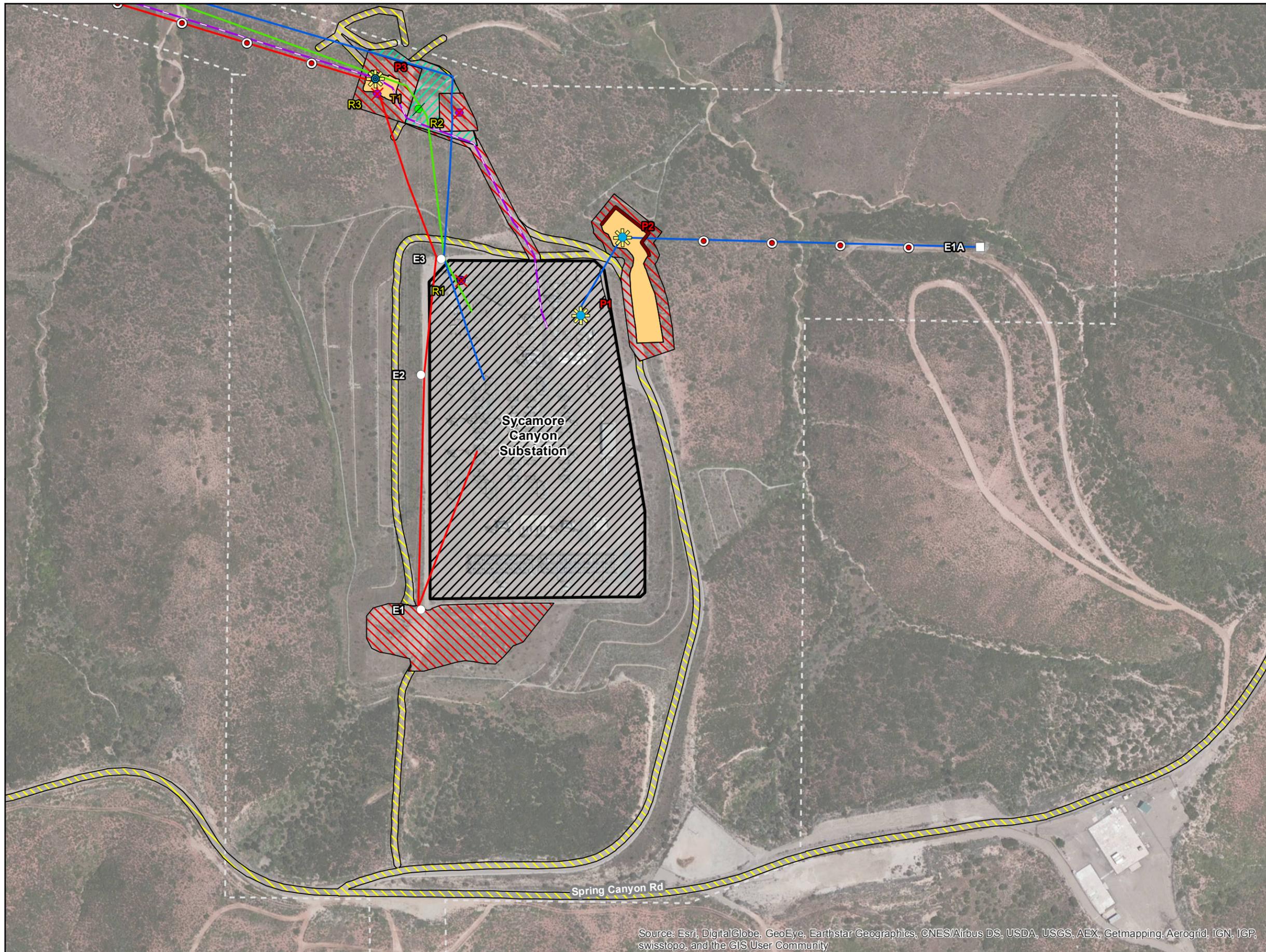
- 230-kV (Proposed Overhead)
- 230-kV (Existing Overhead)

Power Lines

- 138-kV (Relocated Overhead)
- 69-kV (Existing Overhead)

Work Areas

- Structure Pad
- Structure Installation/Removal
- Stringing Site
- Access
- Substation Storage
- Substation
- SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 5 of 45)

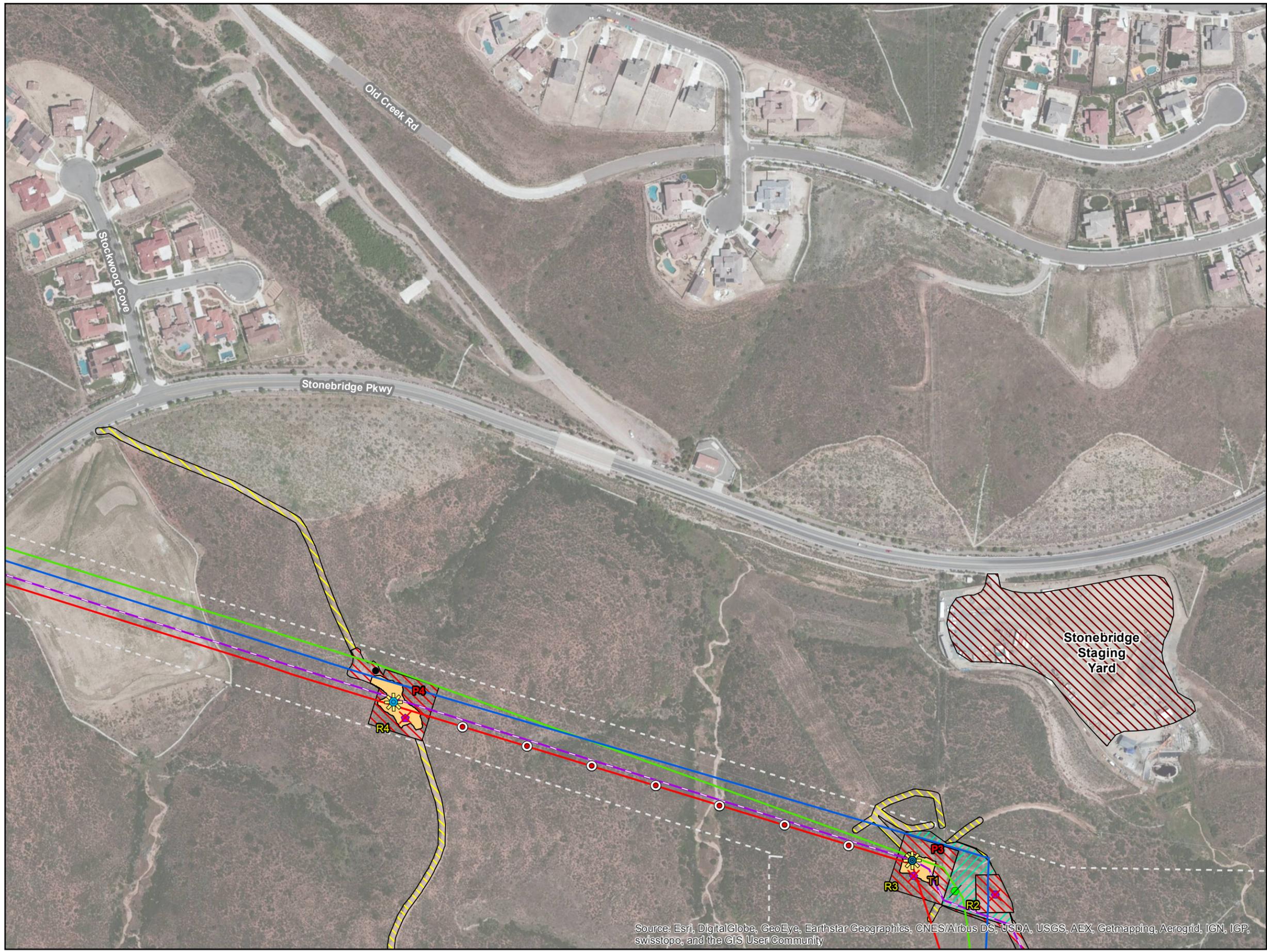
- Legend**
- Proposed Structures**
- 230-kV Tubular Steel Pole (Dead End)
 - ✱ Structure with Preliminary Aviation Lighting
 - Preliminary Aviation Marker Balls
 - Retaining Wall
- Existing Structures (To)**
- 230-kV Steel Lattice Tower (Dead End)
- Transmission Lines**
- 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Access
 - ▨ Staging Yard
 - ▨ Substation Storage
 - Substation
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 6 of 45)

- Legend**
- Proposed Structures**
- 230-kV Tubular Steel/Cable Pole (Dead End)
 - 230-kV Tubular Steel Pole (Tangent)
 - ☀ Structure with Preliminary Aviation Lighting
 - Preliminary Aviation Marker Balls
- Existing Structures (To)**
- (Structure Not Part of Project)
- Existing Structures (To)**
- 🌿 69-kV Wood Monopole
 - ✕ 138-kV Wood H-Frame
 - ✕ 138-kV Wood Monopole
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Access
 - ▨ Staging Yard
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 7 of 45)

Legend

Proposed Structures

- 230-kV Tubular Steel Pole (Tangent)
- Preliminary Aviation Marker Balls
- Retaining Wall

Existing Structures (To

- (Structure Not Part of Project)

Existing Structures (To

- 138-kV Wood H-Frame

Transmission Lines

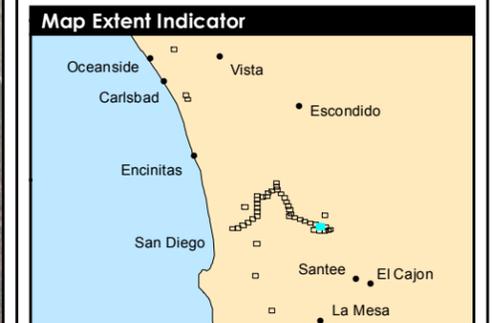
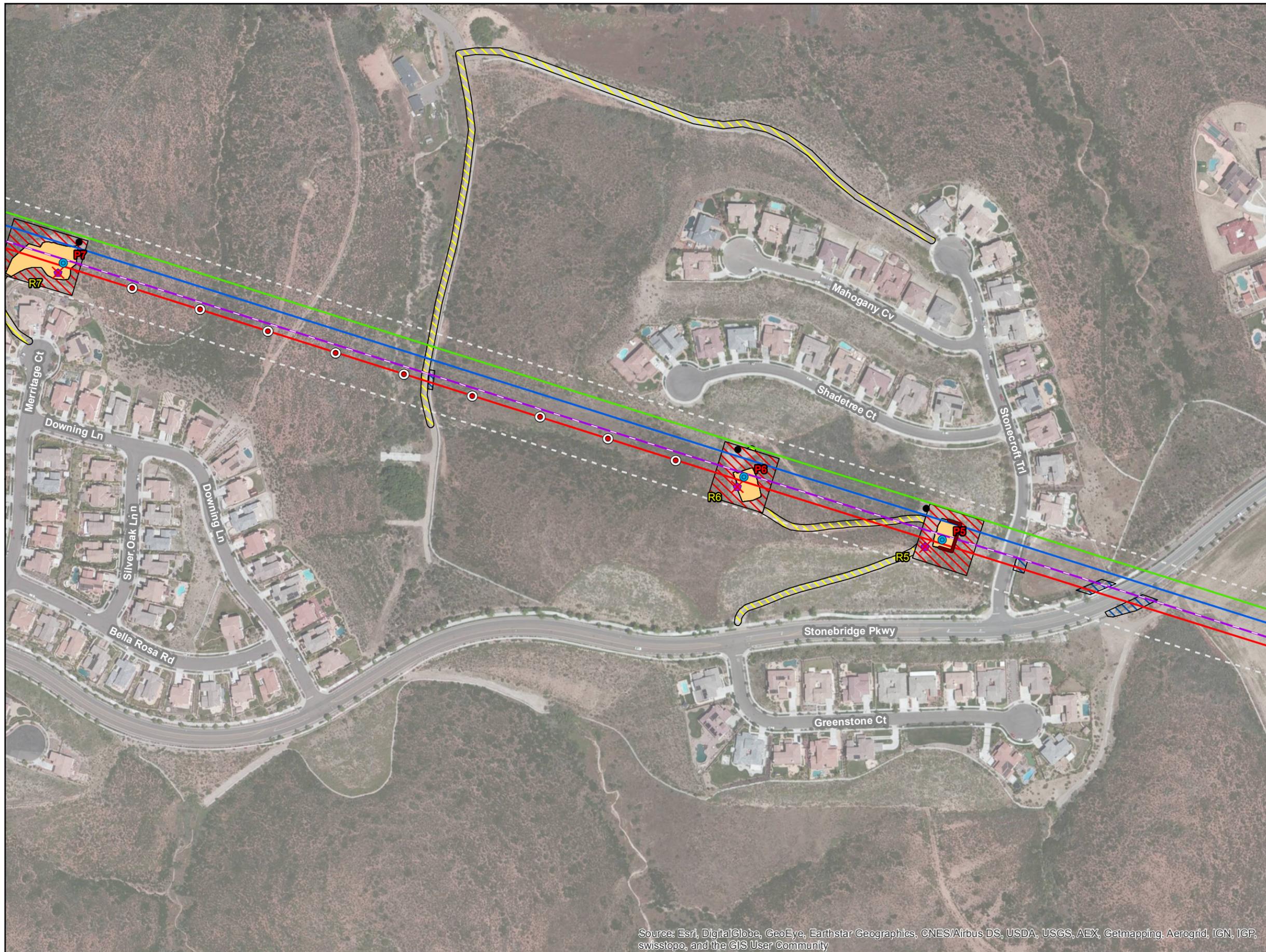
- 230-kV (Proposed Overhead)
- 230-kV (Existing Overhead)

Power Lines

- 138-kV (Relocated Overhead)
- 69-kV (Existing Overhead)

Work Areas

- Structure Pad
- Structure Installation/Removal
- Guard Structure
- Access
- SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 8 of 45)

Legend

Proposed Structures

-  230-kV Tubular Steel Pole (Tangent)
-  Preliminary Aviation Marker Balls

Existing Structures (To Remain)

-  (Structure Not Part of Project)

Existing Structures (To Remove)

-  138-kV Wood H-Frame

Transmission Lines

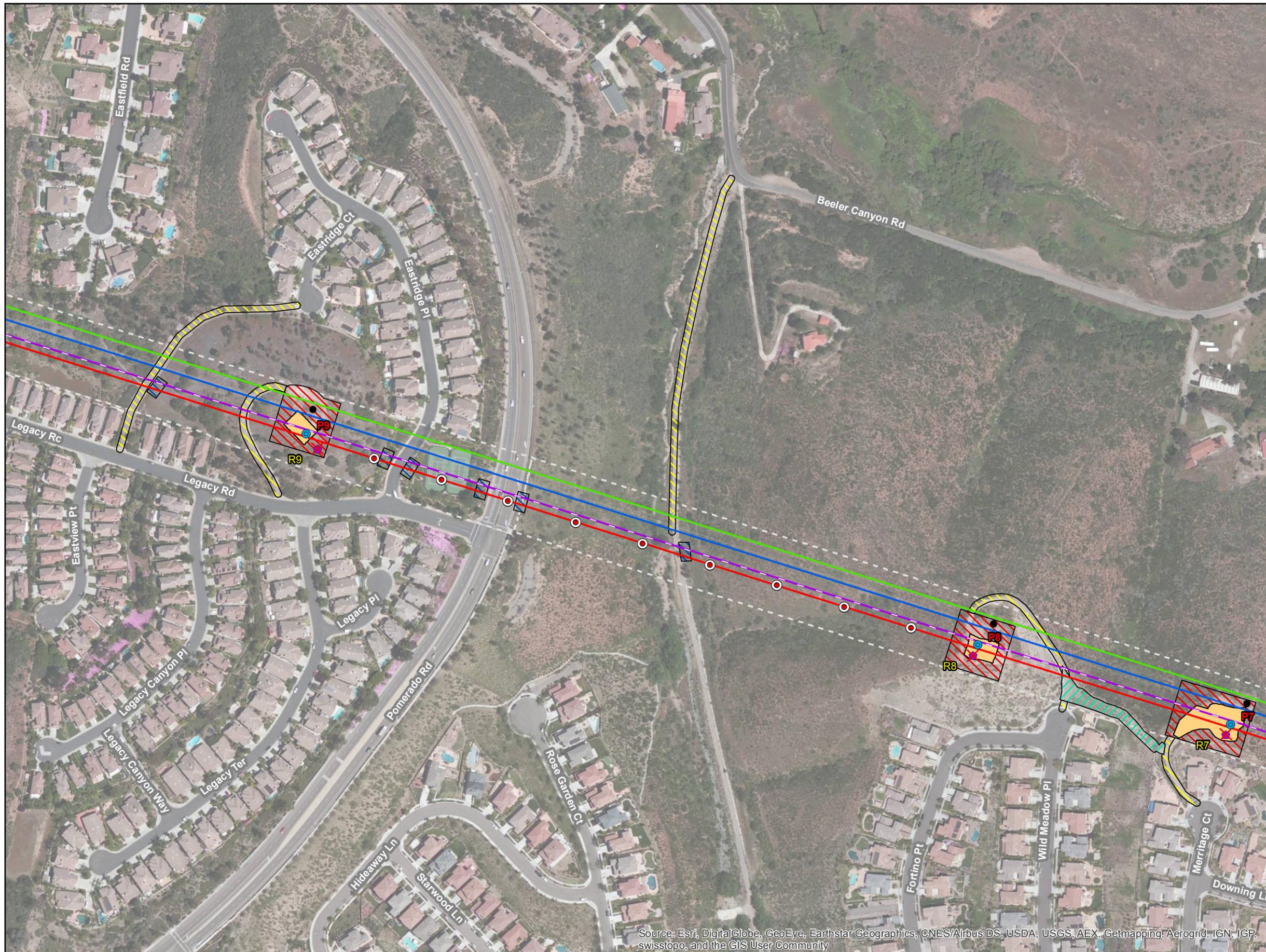
-  230-kV (Proposed Overhead)
-  230-kV (Existing Overhead)

Power Lines

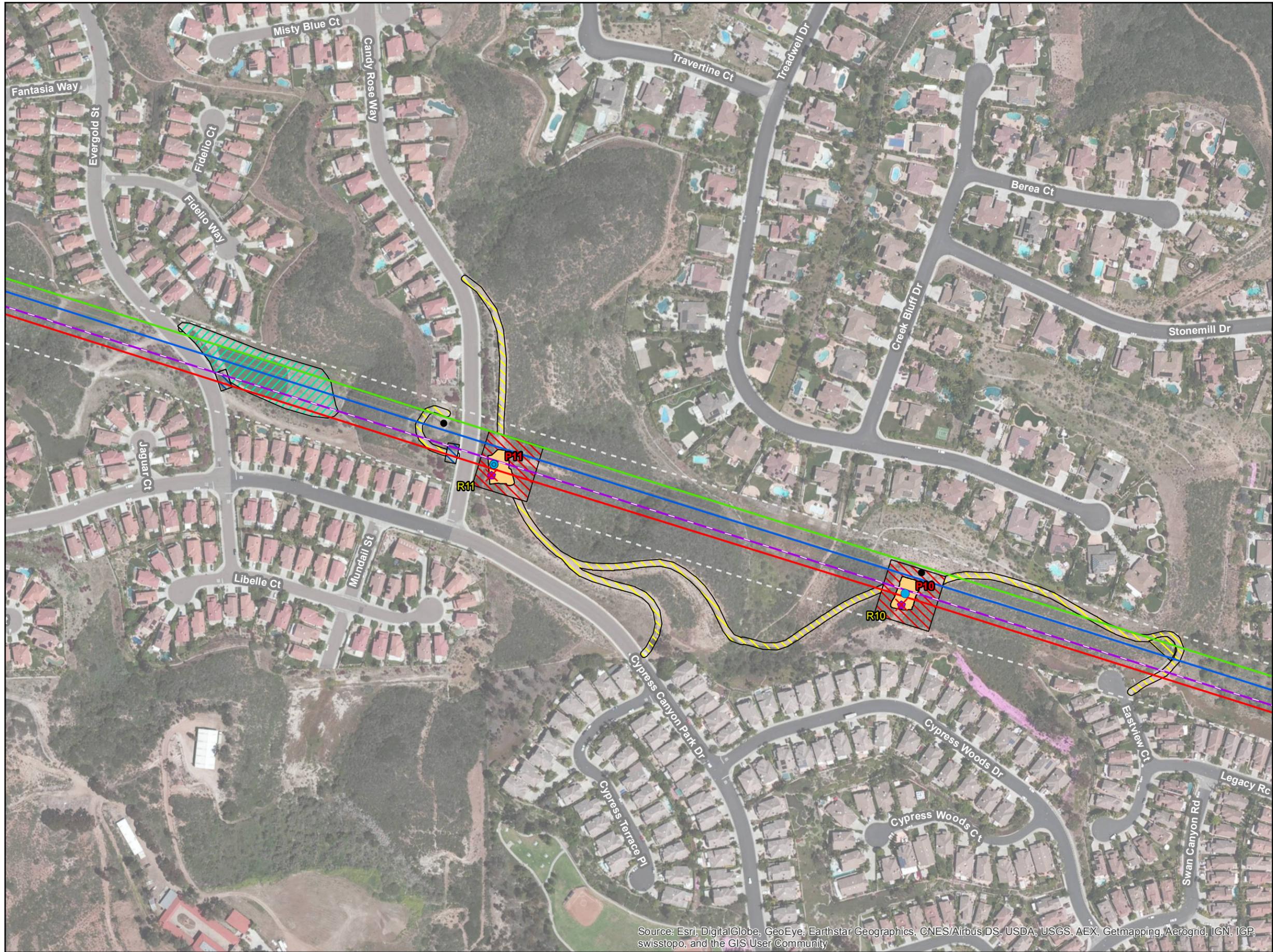
-  138-kV (Relocated Overhead)
-  69-kV (Existing Overhead)

Work Areas

-  Structure Pad
-  Structure Installation/Removal
-  Stringing Site
-  Guard Structure
-  Access
-  SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 9 of 45)

- Legend**
- Proposed Structures**
 - 230-kV Tubular Steel Pole (Tangent)
 - 230-kV Tubular Steel Pole (Dead End)
 - Existing Structures (To Remain)**
 - (Structure Not Part of Project)
 - Existing Structures (To Remove)**
 - ✘ 138-kV Wood H-Frame
 - Transmission Lines**
 - 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
 - Power Lines**
 - 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
 - Work Areas**
 - Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Guard Structure
 - ▨ Access
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 10 of 45)

Legend

Proposed Structures

-  230-kV Tubular Steel Pole (Tangent)
-  Preliminary Aviation Marker Balls

Existing Structures (To Remain)

-  (Structure Not Part of Project)

Existing Structures (To Remove)

-  138-kV Wood H-Frame

Transmission Lines

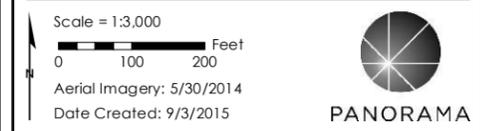
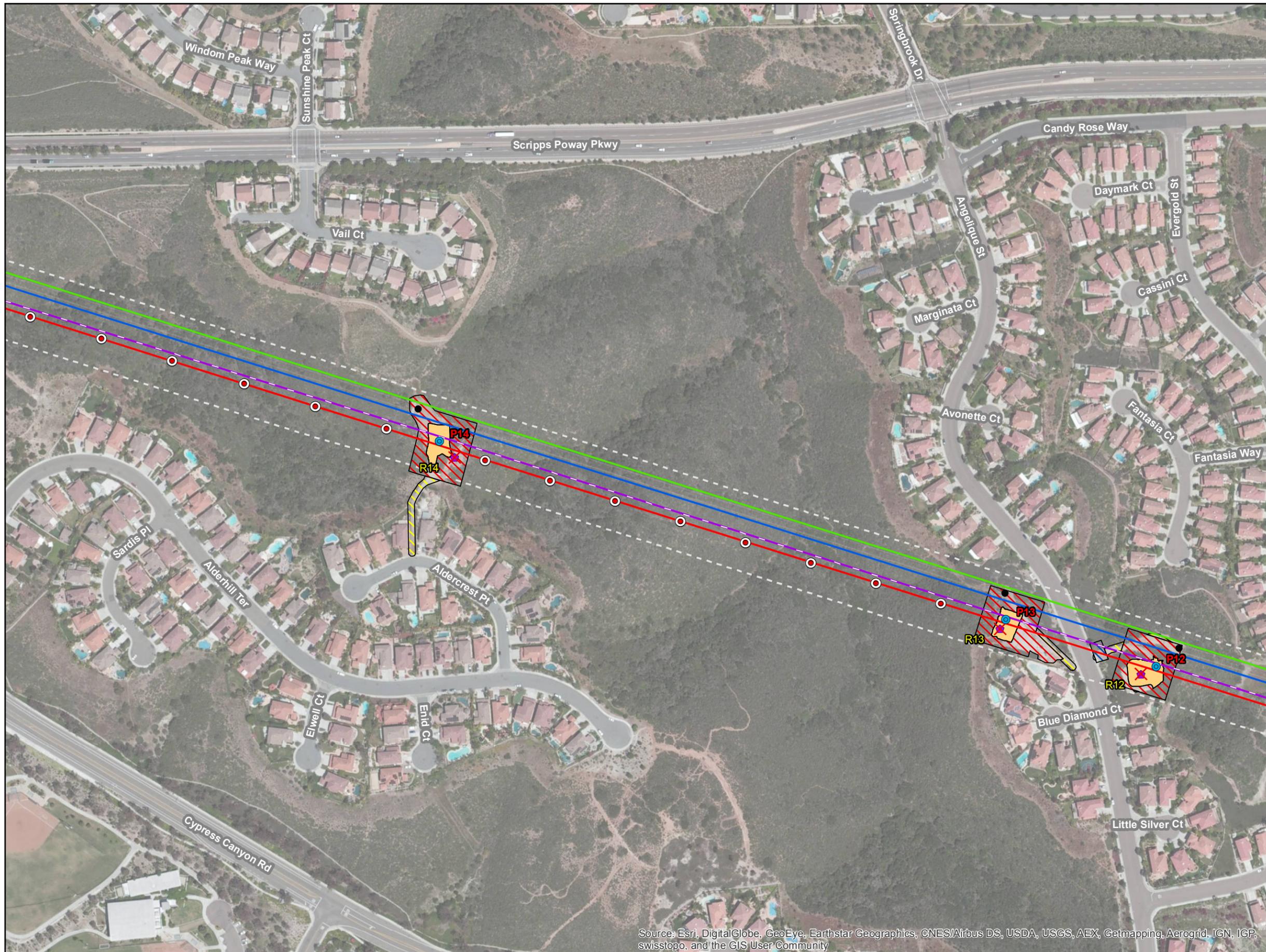
-  230-kV (Proposed Overhead)
-  230-kV (Existing Overhead)

Power Lines

-  138-kV (Relocated Overhead)
-  69-kV (Existing Overhead)

Work Areas

-  Structure Pad
-  Structure Installation/Removal
-  Guard Structure
-  Access
-  SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 11 of 45)

Legend

Proposed Structures

- 230-kV Tubular Steel Pole (Tangent)
- Preliminary Aviation Marker Balls

Existing Structures (To Remain)

- (Structure Not Part of Project)

Existing Structures (To Remove)

- ✖ 138-kV Wood H-Frame

Transmission Lines

- 230-kV (Proposed Overhead)
- 230-kV (Existing Overhead)

Power Lines

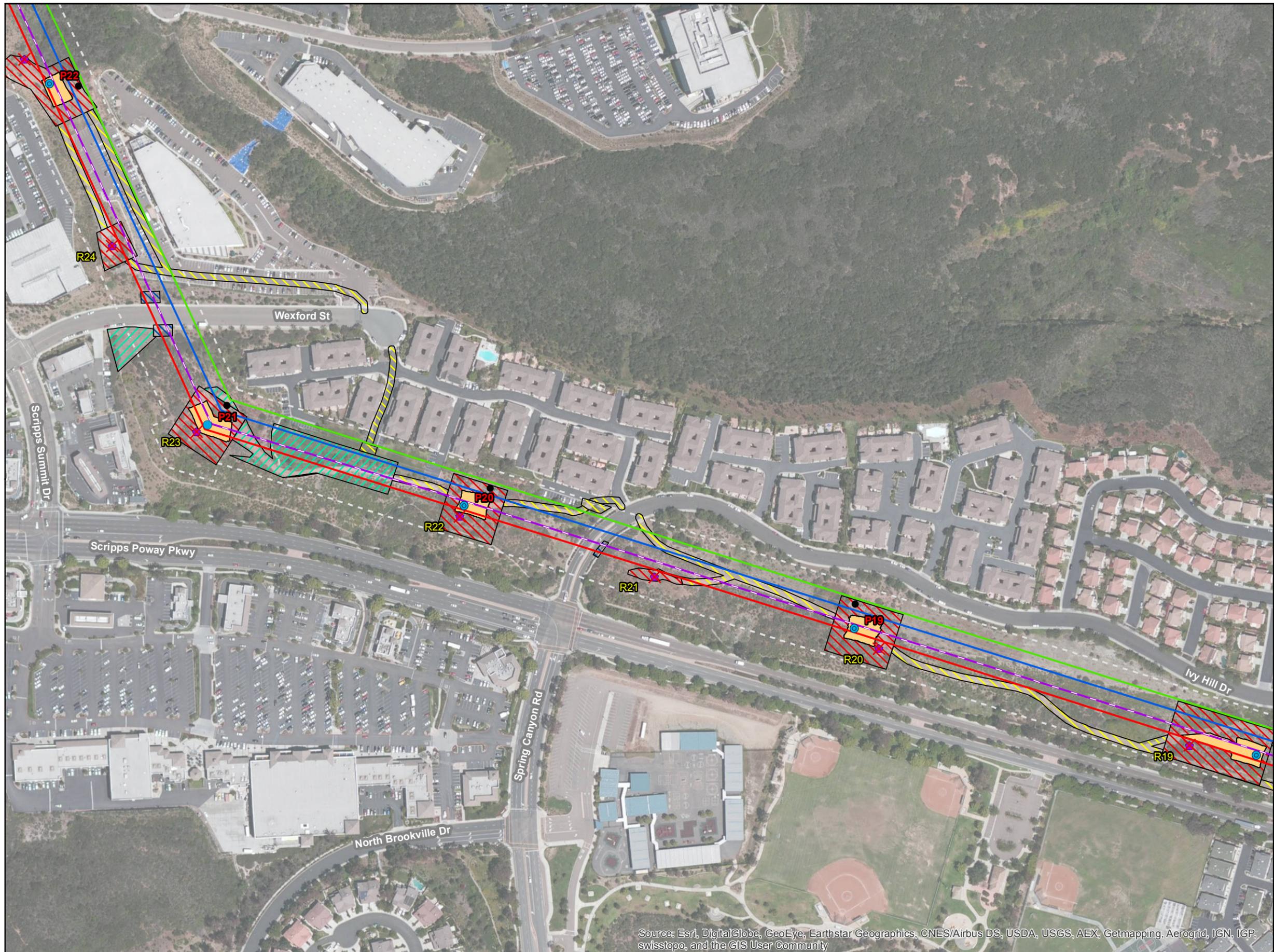
- 138-kV (Relocated Overhead)
- 69-kV (Existing Overhead)

Work Areas

- Structure Pad
- ▨ Structure Installation/Removal
- ▨ Stringing Site
- ▨ Guard Structure
- ▨ Access
- ▨ Laydown
- ▨ SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 12 of 45)

- Legend**
- Proposed Structures**
- 230-kV Tubular Steel Pole (Tangent)
 - 230-kV Tubular Steel Pole (Dead End)
- Existing Structures (To)**
- (Structure Not Part of Project)
 - 138-kV Wood H-Frame
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - Structure Installation/Removal
 - Stringing Site
 - Guard Structure
 - Access
 - SDG&E Right-of-Way



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 13 of 45)

- Legend**
- Proposed**
- 230-kV Tubular Steel Pole (Tangent)
 - Preliminary Aviation Marker Balls
- Existing Structures (To)**
- (Structure Not Part of Project)
- Existing Structures (To)**
- ✕ 138-kV Wood H-Frame
- Transmission**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ✕ Structure Installation/Removal
 - ▭ Guard Structure
 - ▨ Access
 - ▭ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 14 of 45)

- Legend**
- Proposed**
- 230-kV Tubular Steel Pole (Tangent)
 - 230-kV Tubular Steel Pole (Dead End)
 - Preliminary Aviation Marker Balls
 - Retaining Wall
- Existing Structures (To)**
- (Structure Not Part of Project)
- Existing Structures (To)**
- ✕ 138-kV Wood H-Frame
- Transmission**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Guard Structure
 - ▨ Access
 - ▨ Laydown
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 15 of 45)

- Legend**
- Proposed**
- 230-kV Tubular Steel Pole (Tangent)
 - Preliminary Aviation Marker Balls
 - Retaining Wall
- Existing Structures (To (Structure Not Part of Project))**
- ✕ 138-kV Wood H-Frame
- Existing Structures (To Transmission)**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Guard Structure
 - ▨ Access
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 16 of 45)

- Legend**
- Proposed Structures**
- 230-kV Tubular Steel Pole (Tangent)
 - 230-kV Tubular Steel Pole (Dead End)
 - 138-kV Tubular Steel Pole (Dead End)
- Existing Structures (To)**
- (Structure Not Part of Project)
 - ✕ 138-kV Tubular Steel Pole
 - ✕ 138-kV Wood H-Frame
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Guard Structure
 - ▨ Access
 - Substation
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 17 of 45)

- Legend**
- Proposed Structures**
- 230-kV Tubular Steel Pole (Tangent)
 - 230-kV Tubular Steel Pole (Dead End)
- Existing Structures (To)**
- (Structure Not Part of Project)
 - ✘ 138-kV Wood H-Frame
- Existing Structures (To)**
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ✘ Structure Installation/Removal
 - ▭ Guard Structure
 - ▭ Access
 - ▭ SDG&E Right-of-Way

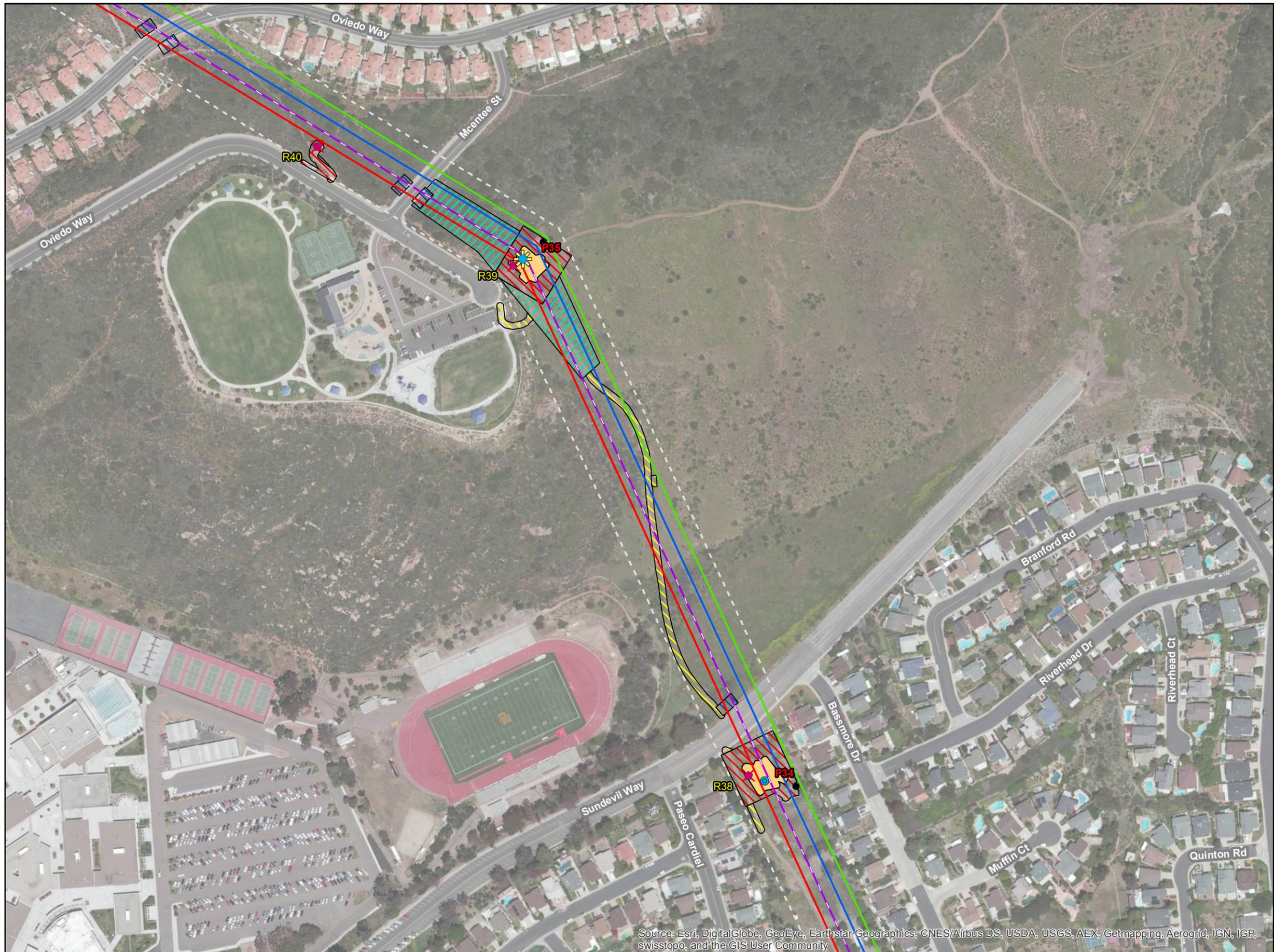


Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 18 of 45)

- Legend**
- Proposed Structures**
- 230-kV Tubular Steel Pole (Tangent)
 - 230-kV Tubular Steel Pole (Dead End)
 - ✦ Structure with Preliminary Aviation Lighting
- Existing Structures (To)**
- (Structure Not Part of Project)
 - ✦ 138-kV Wood H-Frame
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Guard Structure
 - ▨ Access
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 19 of 45)

Legend

Proposed Structures

- 230-kV Tubular Steel Pole (Tangent)
- 230-kV Tubular Steel Pole (Dead End)
- Structure with Preliminary Aviation Lighting
- Preliminary Aviation Marker Balls

Existing Structures (To

- (Structure Not Part of Project)

Existing Structures (To

- 138-kV Wood H-Frame

Existing Structures (To

- 138-kV Wood H-Frame

Transmission Lines

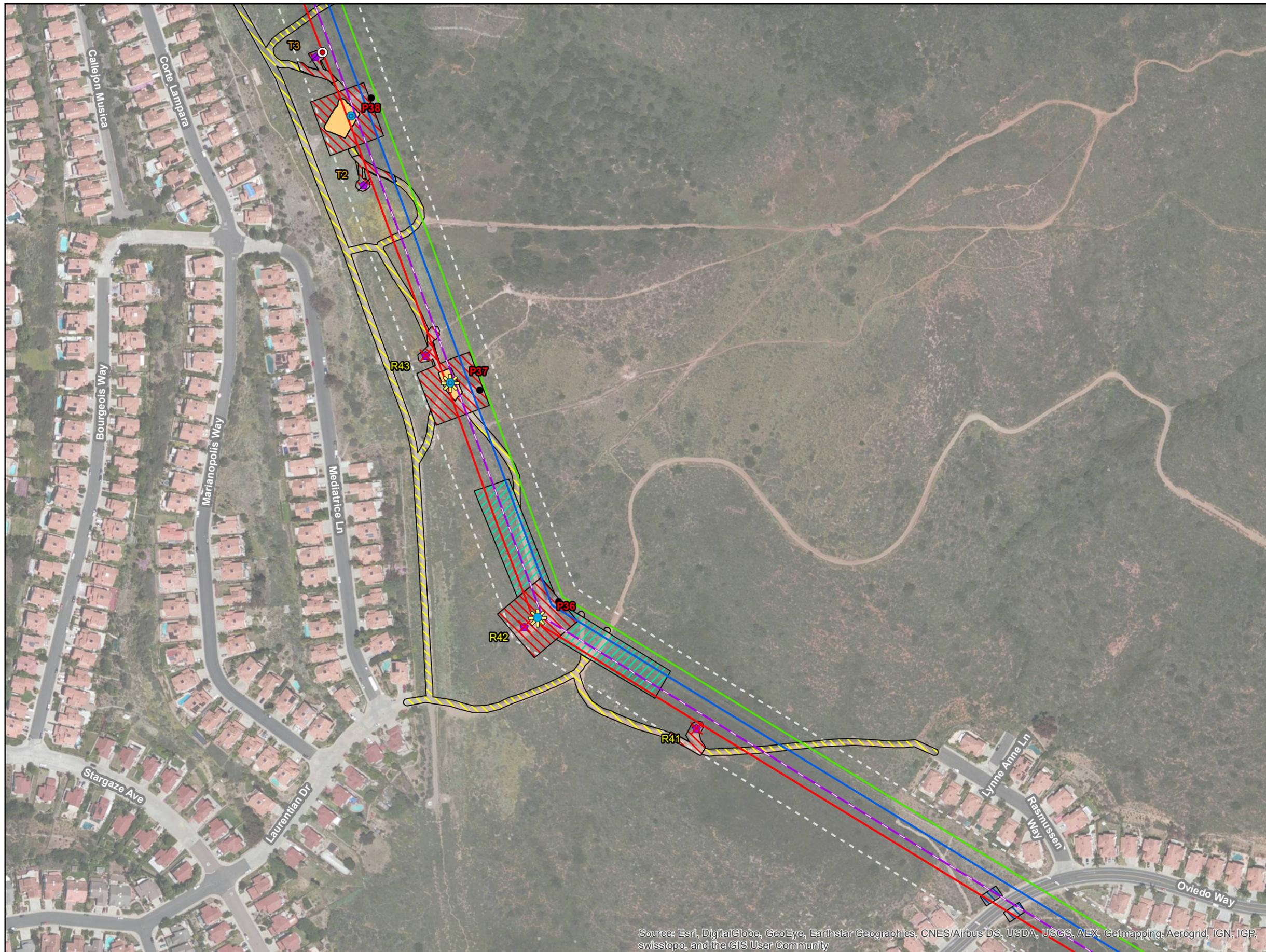
- 230-kV (Proposed Overhead)
- 230-kV (Existing Overhead)

Power Lines

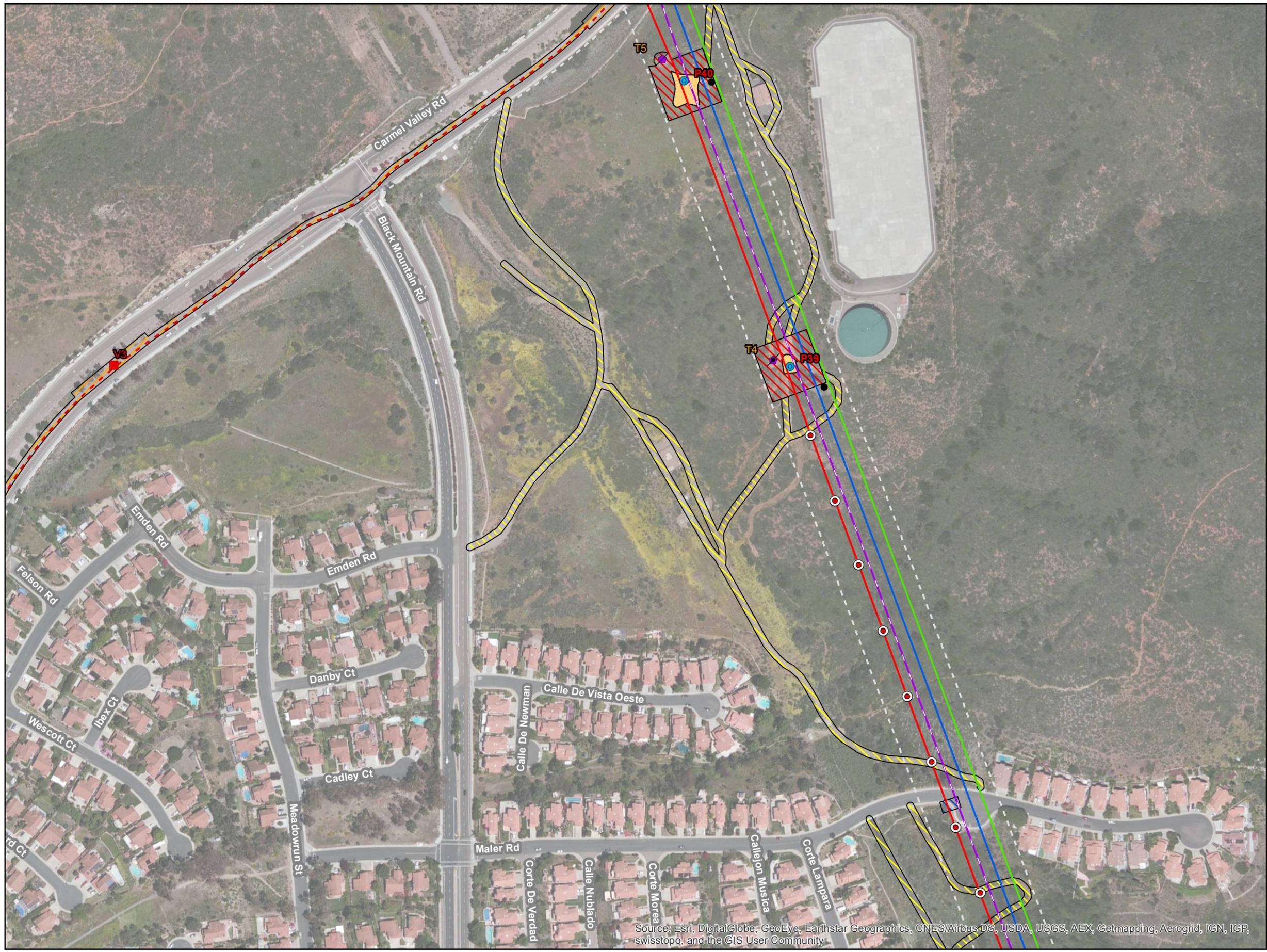
- 138-kV (Relocated Overhead)
- 69-kV (Existing Overhead)

Work Areas

- Structure Pad
- Structure Installation/Removal
- Stringing Site
- Guard Structure
- Access
- SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 20 of 45)

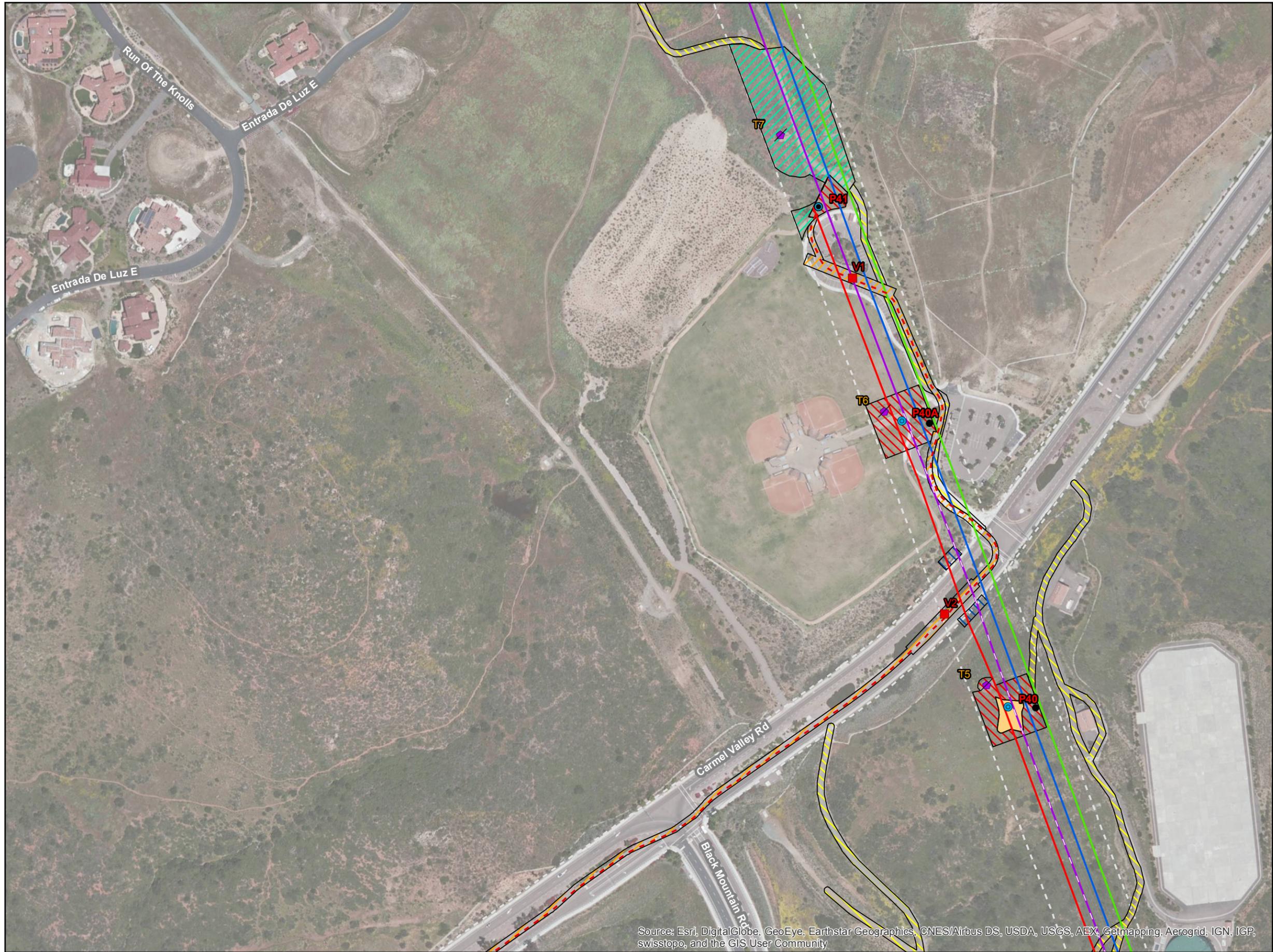
- Legend**
- Proposed Structures**
- 230-kV Tubular Steel Pole (Tangent)
 - Preliminary Aviation Marker Balls
 - Splice Vault
- Existing Structures (To)**
- (Structure Not Part of Project)
- Existing Structures (To)**
- 138-kV Steel H-Frame
 - 138-kV Wood H-Frame
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - - 230-kV (Proposed Underground)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - Structure Installation/Removal
 - Guard Structure
 - Underground Construction
 - Access
 - SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 21 of 45)

- Legend**
- Proposed Structures**
- 230-kV Steel Cable Pole (Dead End)
 - 230-kV Tubular Steel Pole (Tangent)
 - Splice Vault
- Existing Structures (To)**
- (Structure Not Part of Project)
- Existing Structures (To)**
- 138-kV Wood H-Frame
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - - 230-kV (Proposed Underground)
 - 230-kV (Existing Overhead)
- Power Lines**
- 138-kV (Existing Overhead)
 - 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - Structure Installation/Removal
 - Stringing Site
 - Guard Structure
 - Underground Construction
 - Access
 - SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 22 of 45)

Legend

Proposed

138-kV Steel H-Frame (Dead End)

Existing Structures (To)

138-kV Steel H-Frame

Transmission

230-kV (Existing Overhead)

Power Lines

138-kV (Existing Overhead)

69-kV (Existing Overhead)

Work Areas

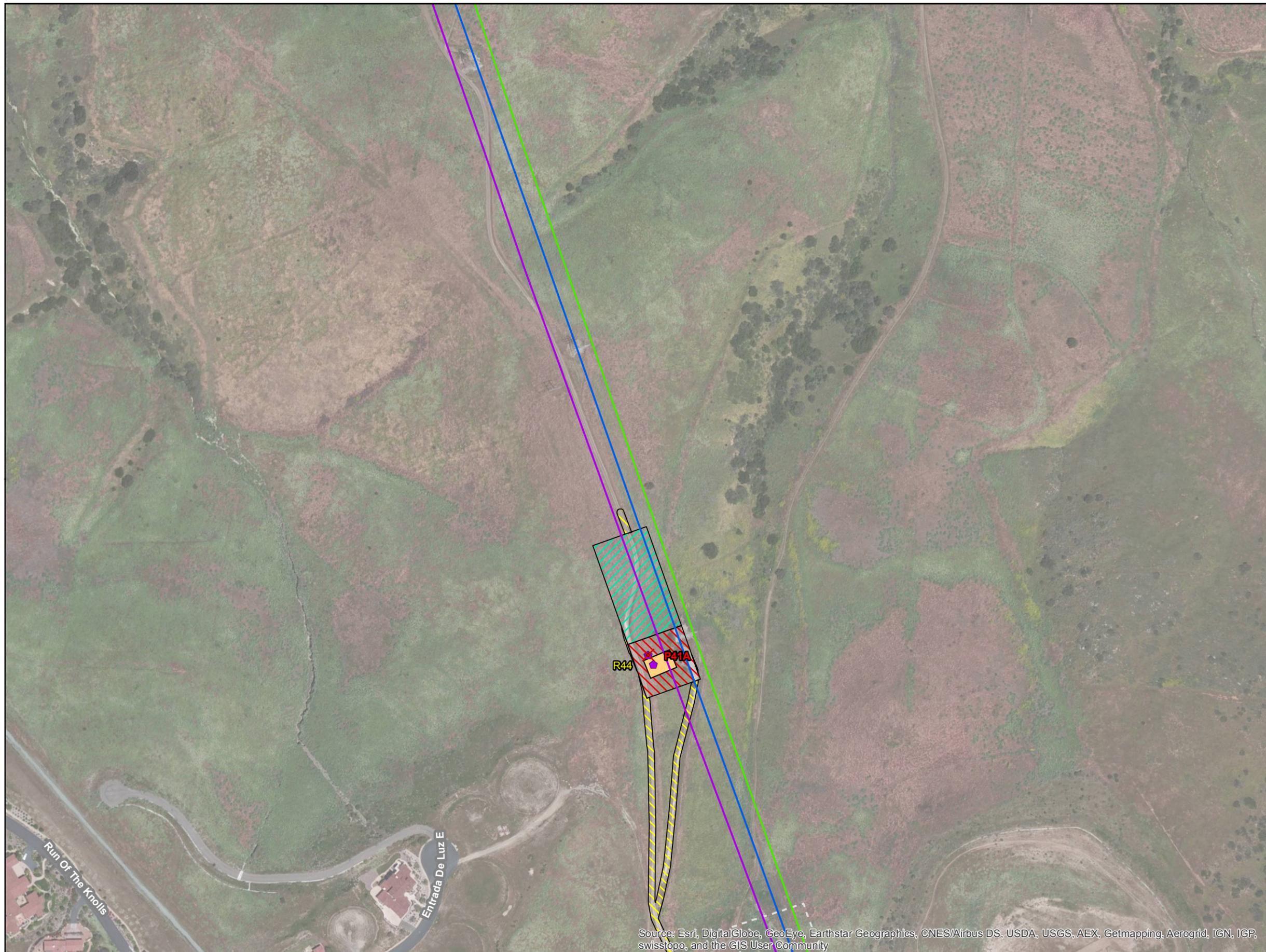
Structure Pad

Structure Installation/Removal

Stringing Site

Access

SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 23 of 45)

Legend

- Splice Vault
- Transmission**
- - 230-kV (Proposed Underground)
- Work**
- Underground Construction
- SDG&E Right-of-Way



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 24 of 45)

Legend

- Splice Vault
- Transmission**
- - 230-kV (Proposed Underground)
- Work Areas**
- Underground Construction
- Staging Yard
- SDG&E Right-of-Way

Note: Only a 2.3 acre portion of the Camino Del Sur site would be used as a staging yard.



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 25 of 45)

- Legend**
- Splice Vault
 - Transmission**
 - - 230-kV (Proposed Underground)
 - Work Areas**
 - Underground Construction
 - SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 26 of 45)

Legend

- Splice Vault
- Transmission Lines**
- - 230-kV (Proposed Underground)
- Work Areas**
- Underground Construction
- SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
Date Created: 9/3/2015

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail (Map 27 of 45)

Legend

Proposed Structures

-  230-kV Steel Cable Pole (Dead End)
-  Splice Vault

Existing Structures (To

-  230-kV Steel Lattice Tower

Transmission Lines

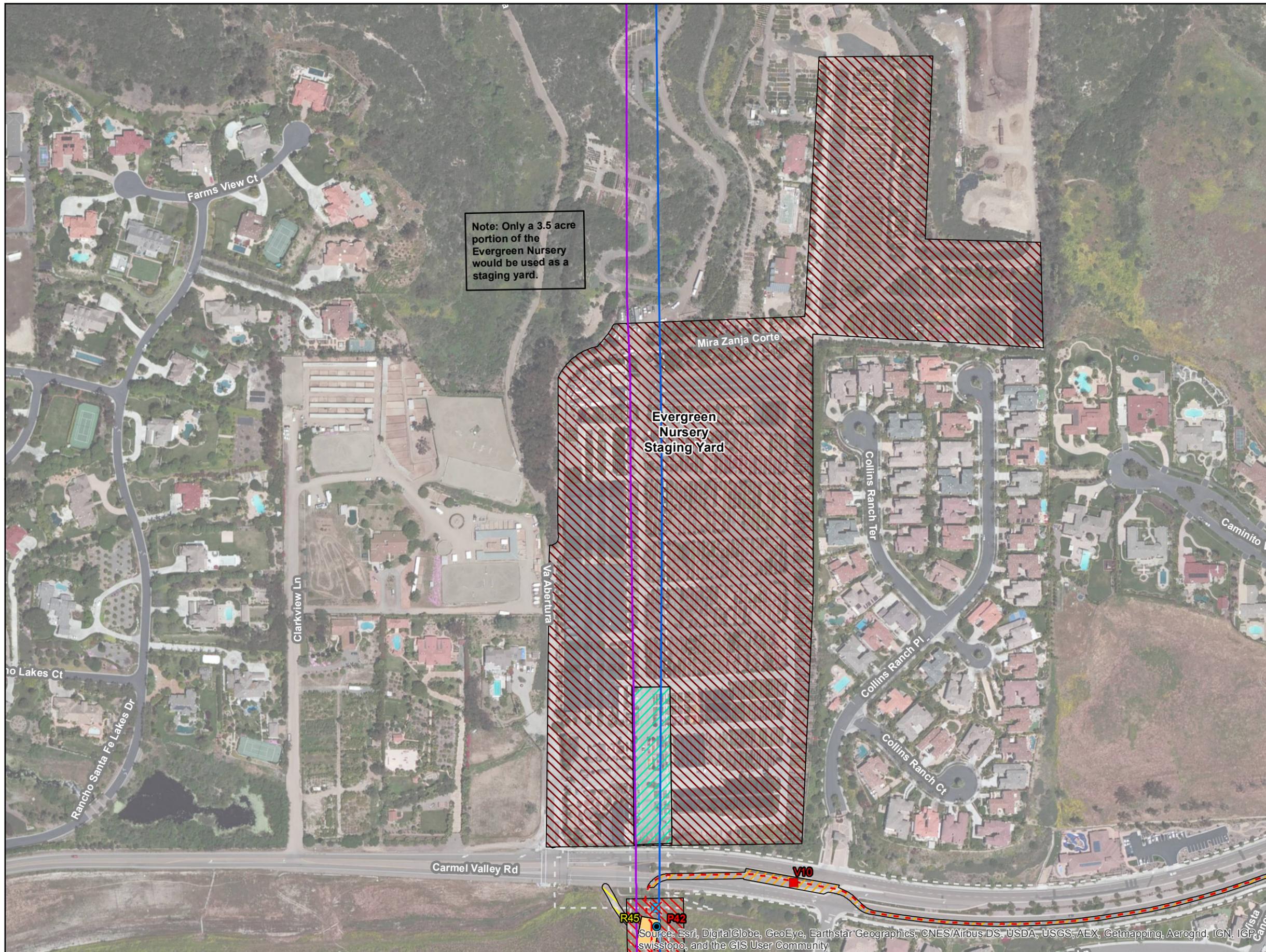
-  230-kV (Proposed Overhead)
-  230-kV (Proposed Underground)
-  230-kV (Existing Overhead)
-  230-kV (Relocated Overhead)

Power Lines

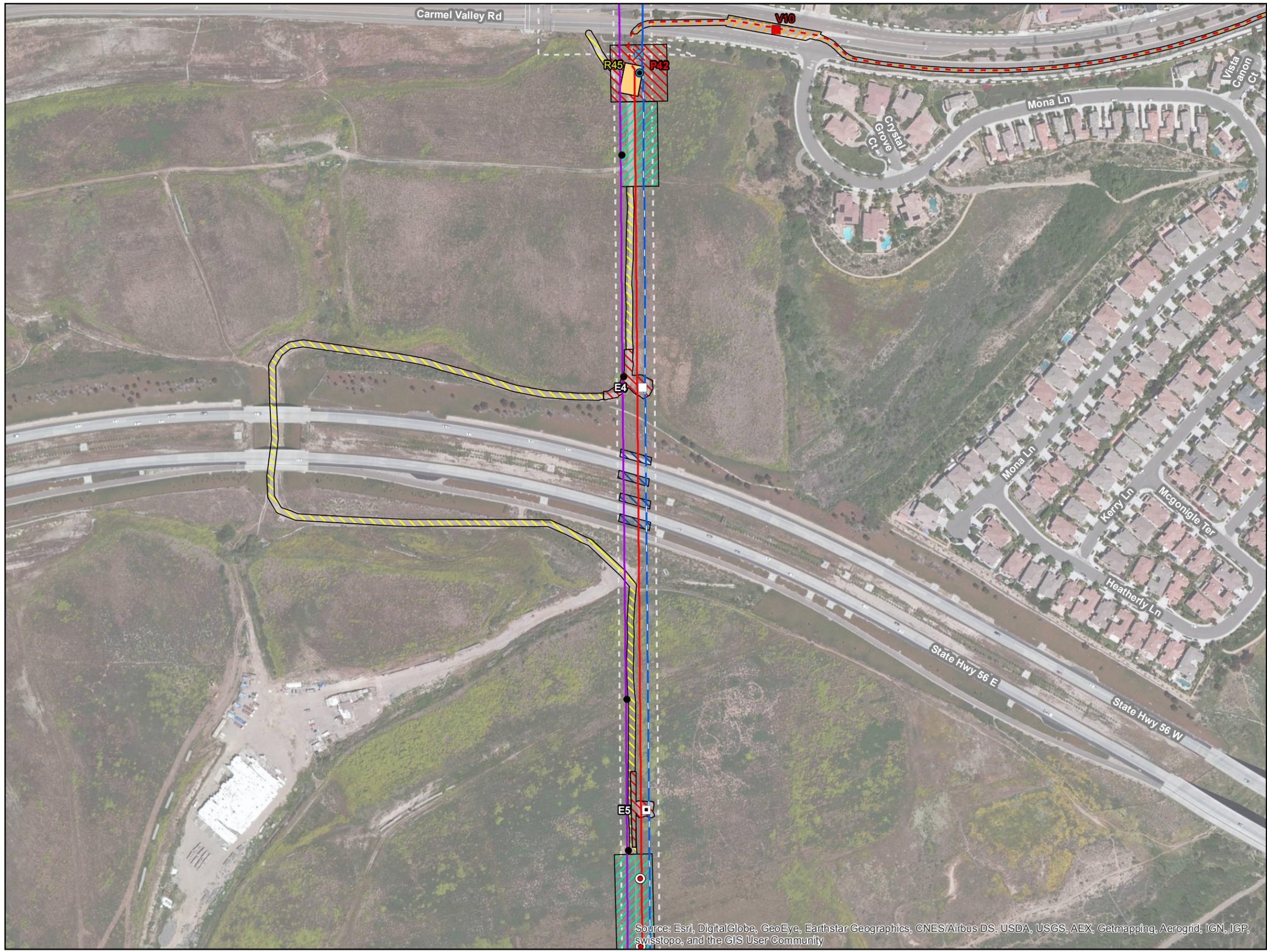
-  138-kV (Existing Overhead)

Work Areas

-  Structure Pad
-  Structure Installation/Removal
-  Stringing Site
-  Underground Construction
-  Access
-  Staging Yard
-  SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail (Map 28 of 45)

- Legend**
- Proposed Structures**
- 230-kV Steel Cable Pole (Dead End)
 - Preliminary Aviation Marker Balls
 - Splice Vault
- Existing Structures (To)**
- 230-kV Steel Lattice Tower (Tangent)
 - 230-kV Steel Lattice Tower (Dead End)
 - (Structure Not Part of Project)
- Existing Structures (To)**
- ⊗ 230-kV Steel Lattice Tower
- Transmission Lines**
- 230-kV (Proposed Overhead)
 - - 230-kV (Proposed Underground)
 - 230-kV (Existing Overhead)
 - 230-kV (Relocated Overhead)
- Power Lines**
- 138-kV (Existing Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Guard Structure
 - ▨ Underground Construction
 - ▨ Access
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

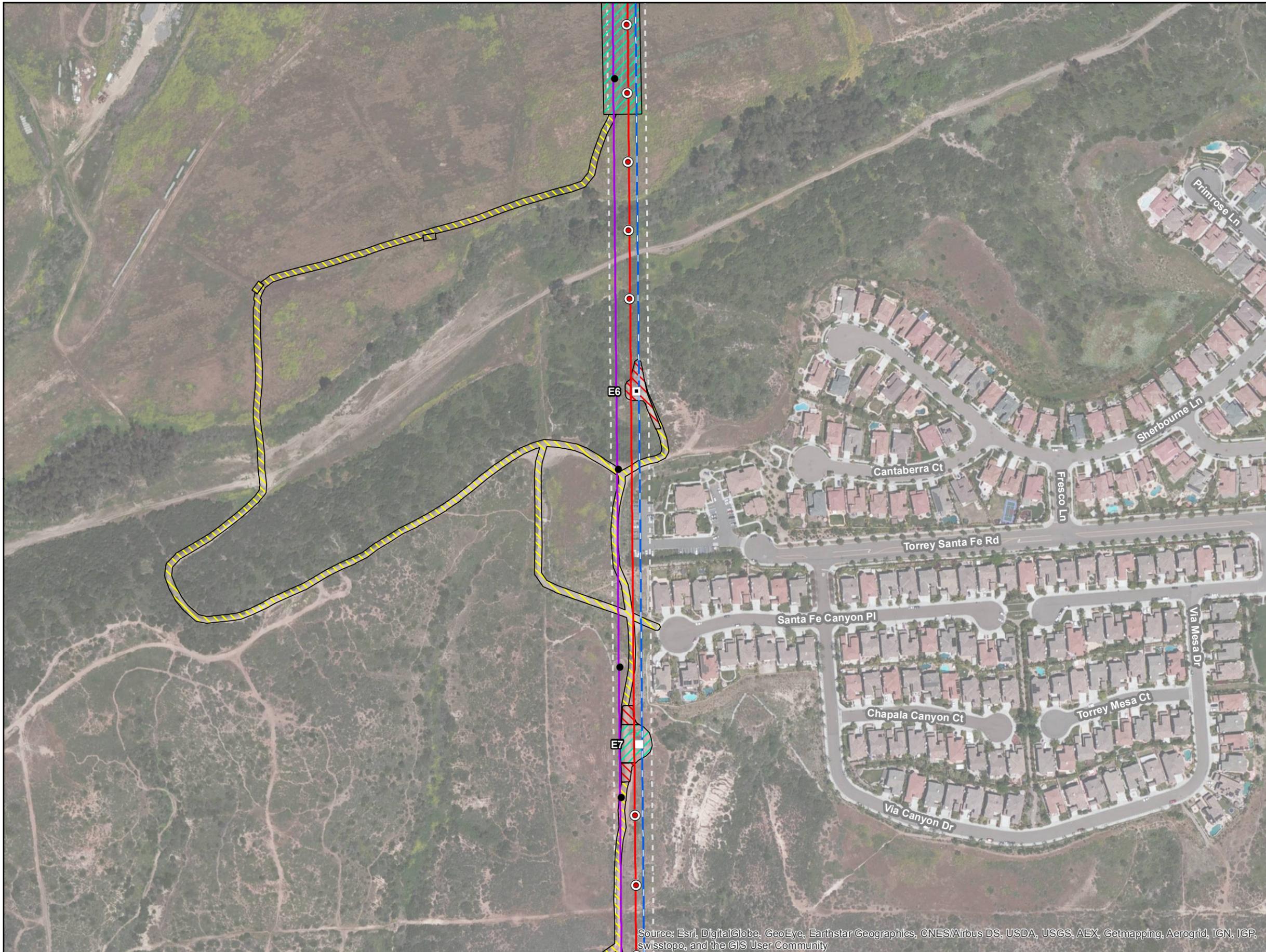
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail (Map 29 of 45)

Legend

- Preliminary Aviation Marker Balls
- Existing Structures (To)**
 - ▣ 230-kV Steel Lattice Tower (Tangent)
 - 230-kV Steel Lattice Tower (Dead End)
 - (Structure Not Part of Project)
- Transmission**
 - 230-kV (Proposed Overhead)
 - 230-kV (Relocated Overhead)
- Power Lines**
 - 138-kV (Existing Overhead)
- Work Areas**
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Access
 - ▨ SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
Date Created: 9/3/2015

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail (Map 30 of 45)

Legend

- Preliminary Aviation Marker Balls
- Existing Structures (To)**
 - 230-kV Steel Lattice Tower (Tangent)
 - (Structure Not Part of Project)
- Transmission Lines**
 - 230-kV (Proposed Overhead)
 - 230-kV (Relocated Overhead)
- Power Lines**
 - 138-kV (Existing Overhead)
- Work Areas**
 - ▨ Structure Installation/Removal
 - ▨ Access
 - ▨ SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
Date Created: 9/3/2015

Sycamore-Peñasquitos 230-kV Transmission Line Project

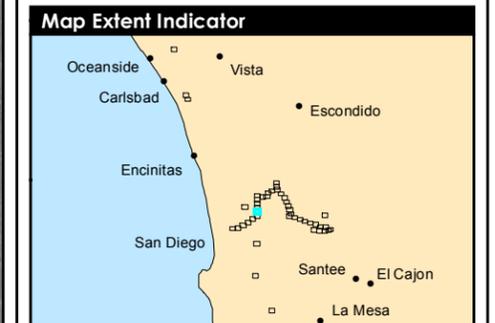
Figure A-1: Proposed Project Detail
(Map 31 of 45)

Legend

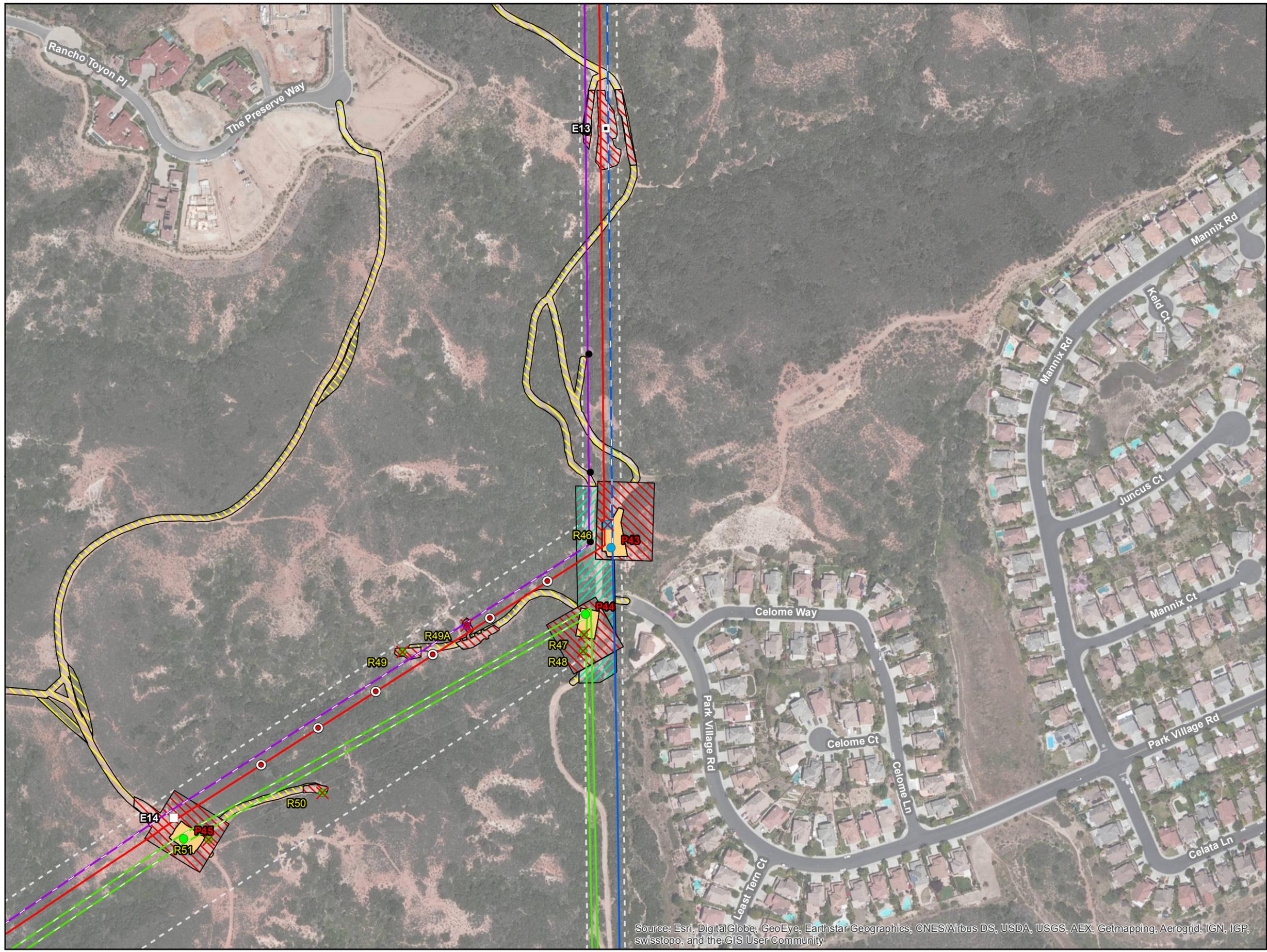
- Existing Structures (To)**
 - 230-kV Steel Lattice Tower (Tangent)
 - (Structure Not Part of Project)
- Transmission**
 - 230-kV (Proposed Overhead)
 - 230-kV (Relocated Overhead)
- Power Lines**
 - 138-kV (Existing Overhead)
- Work Areas**
 - Structure Installation/Removal
 - Access
 - SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Scale = 1:3,000
0 100 200 Feet
Aerial Imagery: 5/30/2014
Date Created: 9/3/2015



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 32 of 45)

- Legend**
- Proposed**
- 230-kV Tubular Steel Pole (Dead End)
 - 69-kV Tubular Steel Pole (Dead End)
 - Preliminary Aviation Marker Balls
- Existing Structures (To)**
- 230-kV Steel Lattice Tower (Tangent)
 - 230-kV Steel Lattice Tower (Dead End)
 - (Structure Not Part of Project)
- Existing Structures (To)**
- ✕ 230-kV Steel Lattice Tower
 - ✕ 138-kV Steel H-Frame
 - ✕ 69-kV Wood Monopole
- Transmission**
- 230-kV (Proposed Overhead)
 - 230-kV (Existing Overhead)
 - 230-kV (Relocated Overhead)
- Power Lines**
- 138-kV (Existing Overhead)
 - 138-kV (Relocated Overhead)
 - 69-kV (Existing Overhead)
 - 69-kV (Relocated Overhead)
- Work Areas**
- Structure Pad
 - Structure Installation/Removal
 - Stringing Site
 - Access
 - SDG&E Right-of-Way



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail (Map 33 of 45)

Legend

Proposed Structures

- 69-kV Tubular Steel Pole (Tangent)
- 69-kV Tubular Steel Pole (Dead End)
- Preliminary Aviation Marker Balls
- Retaining Wall

Existing Structures (To)

- 230-kV Steel Lattice Tower (Tangent)
- 230-kV Steel Lattice Tower (Dead End)

Existing Structures (To)

- ✖ 69-kV Wood H-Frame

Transmission Lines

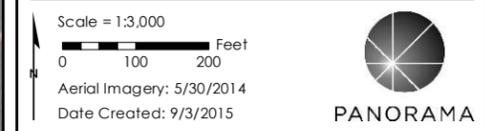
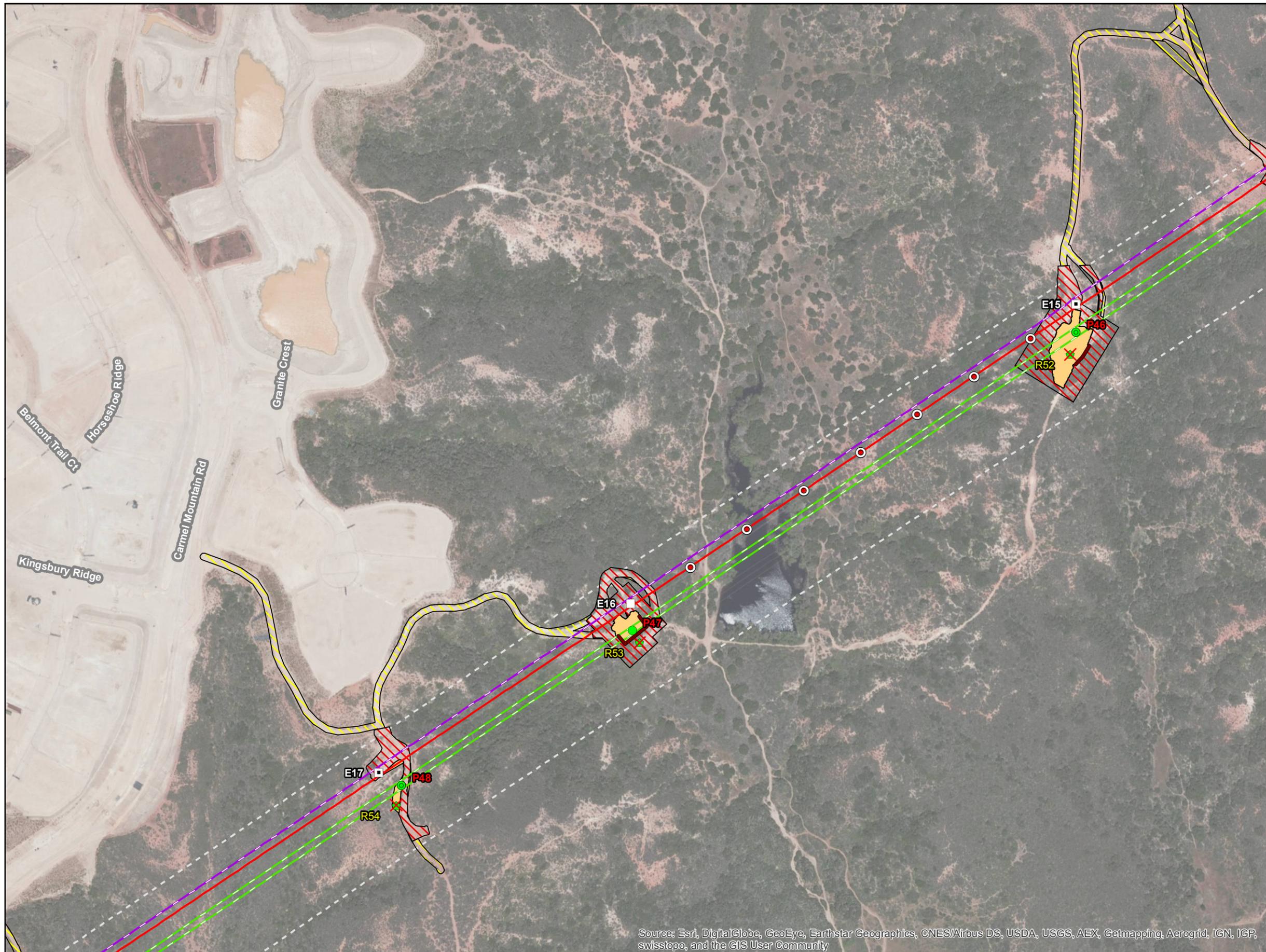
- 230-kV (Proposed Overhead)

Power Lines

- 138-kV (Relocated Overhead)
- 69-kV (Relocated Overhead)

Work Areas

- Structure Pad
- Structure Installation/Removal
- Access
- SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail (Map 34 of 45)

Legend

Proposed Structures

● 69-kV Tubular Steel Pole (Tangent)

— Retaining Wall

Existing Structures (To

□ 230-kV Steel Lattice Tower (Tangent)

Existing Structures (To

✕ 69-kV Wood H-Frame

Transmission Lines

— 230-kV (Proposed Overhead)

Power Lines

— 138-kV (Relocated Overhead)

— 69-kV (Relocated Overhead)

Work Areas

■ Structure Pad

▨ Structure Installation/Removal

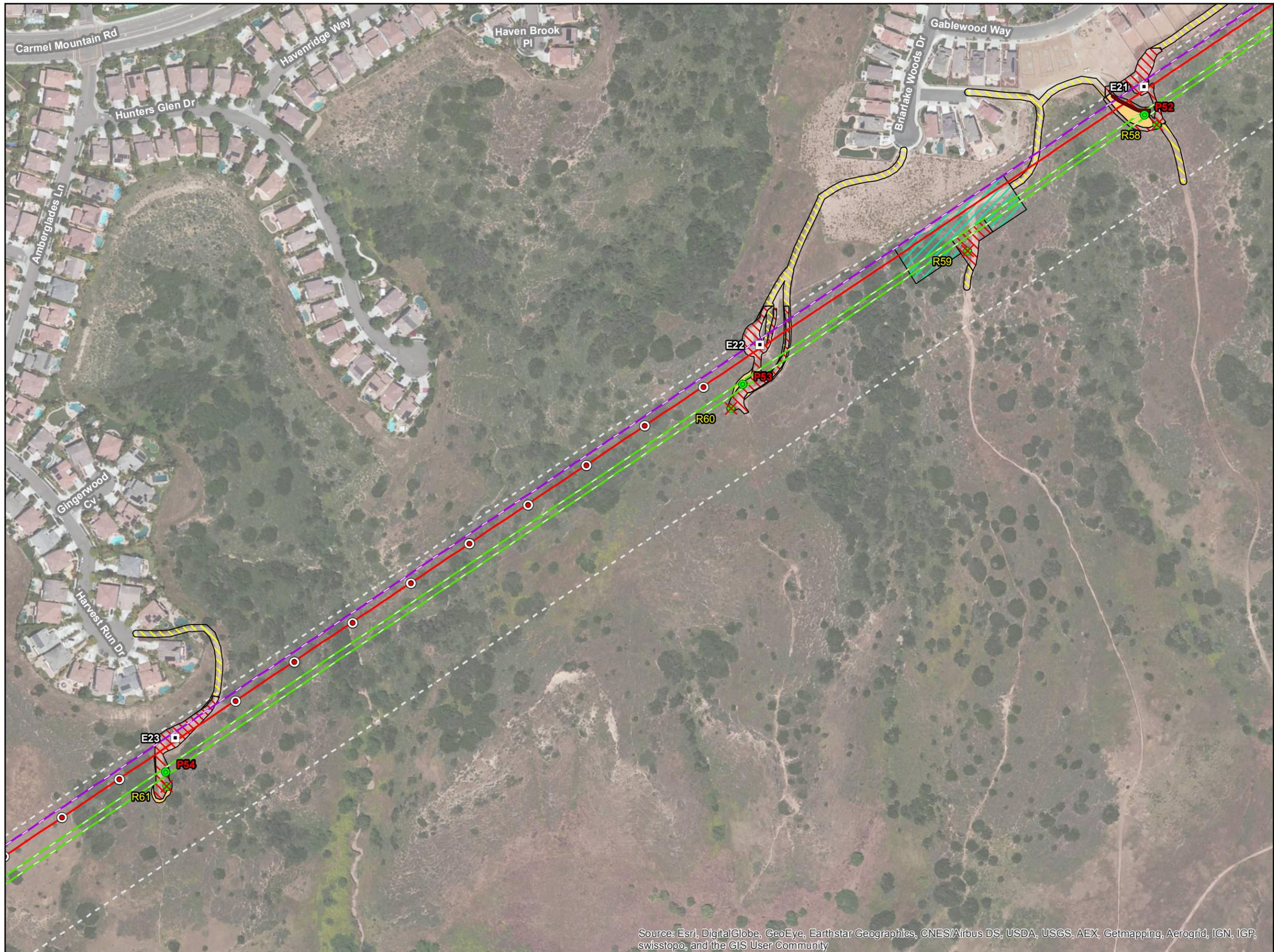
▨ Stringing Site

▨ Access

▨ SDG&E Right-of-Way



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 35 of 45)

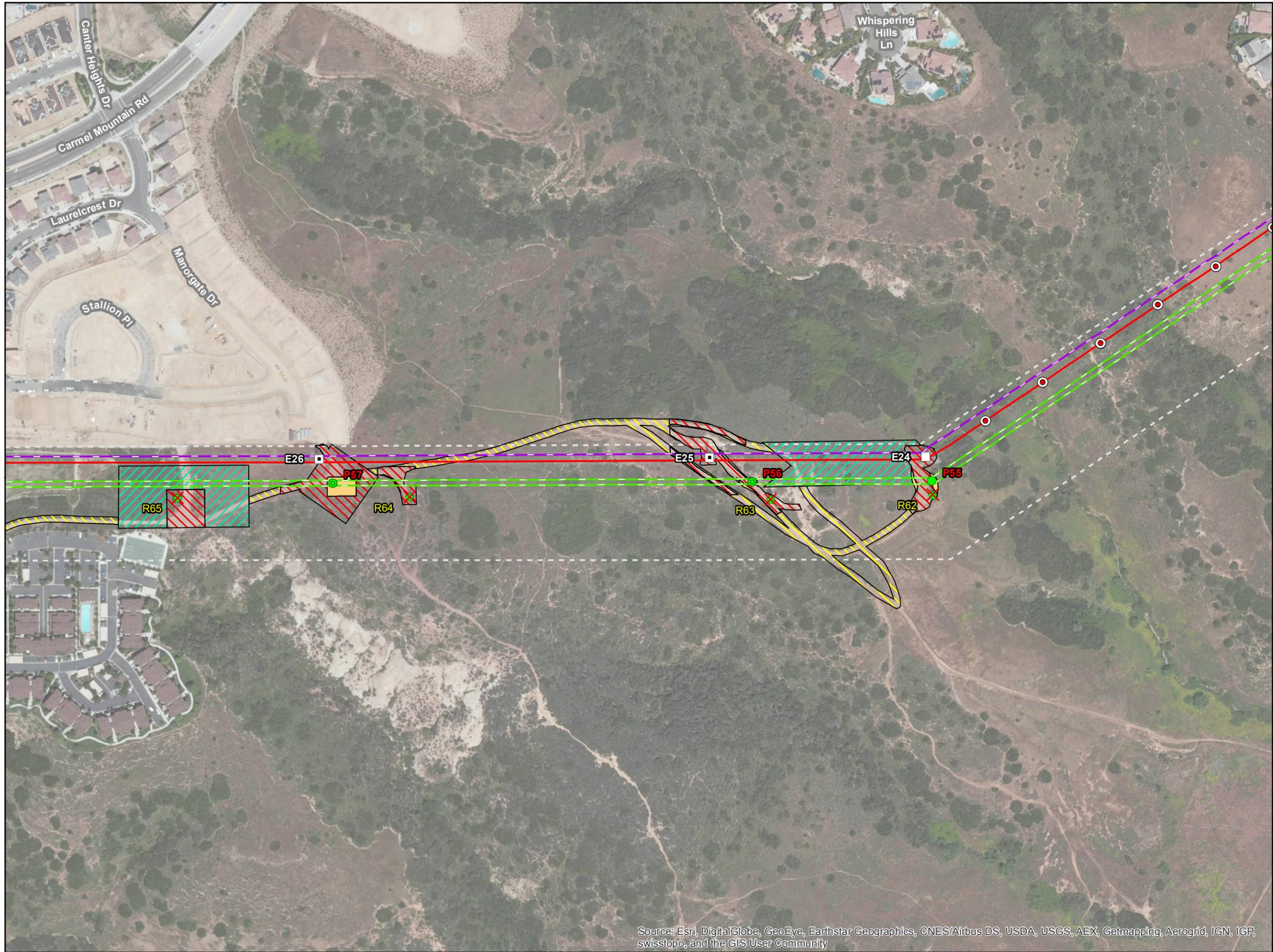
- Legend**
- Proposed**
- 69-kV Tubular Steel Pole (Tangent)
 - Preliminary Aviation Marker Balls
 - Retaining Wall
- Existing Structures (To)**
- 230-kV Steel Lattice Tower (Tangent)
- Existing Structures (To)**
- ✕ 69-kV Wood H-Frame
- Transmission Lines**
- 230-kV (Proposed Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Relocated Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Access
 - - - SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 36 of 45)

- Legend**
- Proposed**
- 69-kV Tubular Steel Pole (Tangent)
 - 69-kV Tubular Steel Pole (Dead End)
 - Preliminary Aviation Marker Balls
- Existing Structures (To)**
- 230-kV Steel Lattice Tower (Tangent)
 - 230-kV Steel Lattice Tower (Dead End)
- Existing Structures (To)**
- ✕ 69-kV Wood H-Frame
- Transmission Lines**
- 230-kV (Proposed Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Relocated Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Access
 - - - SDG&E Right-of-Way

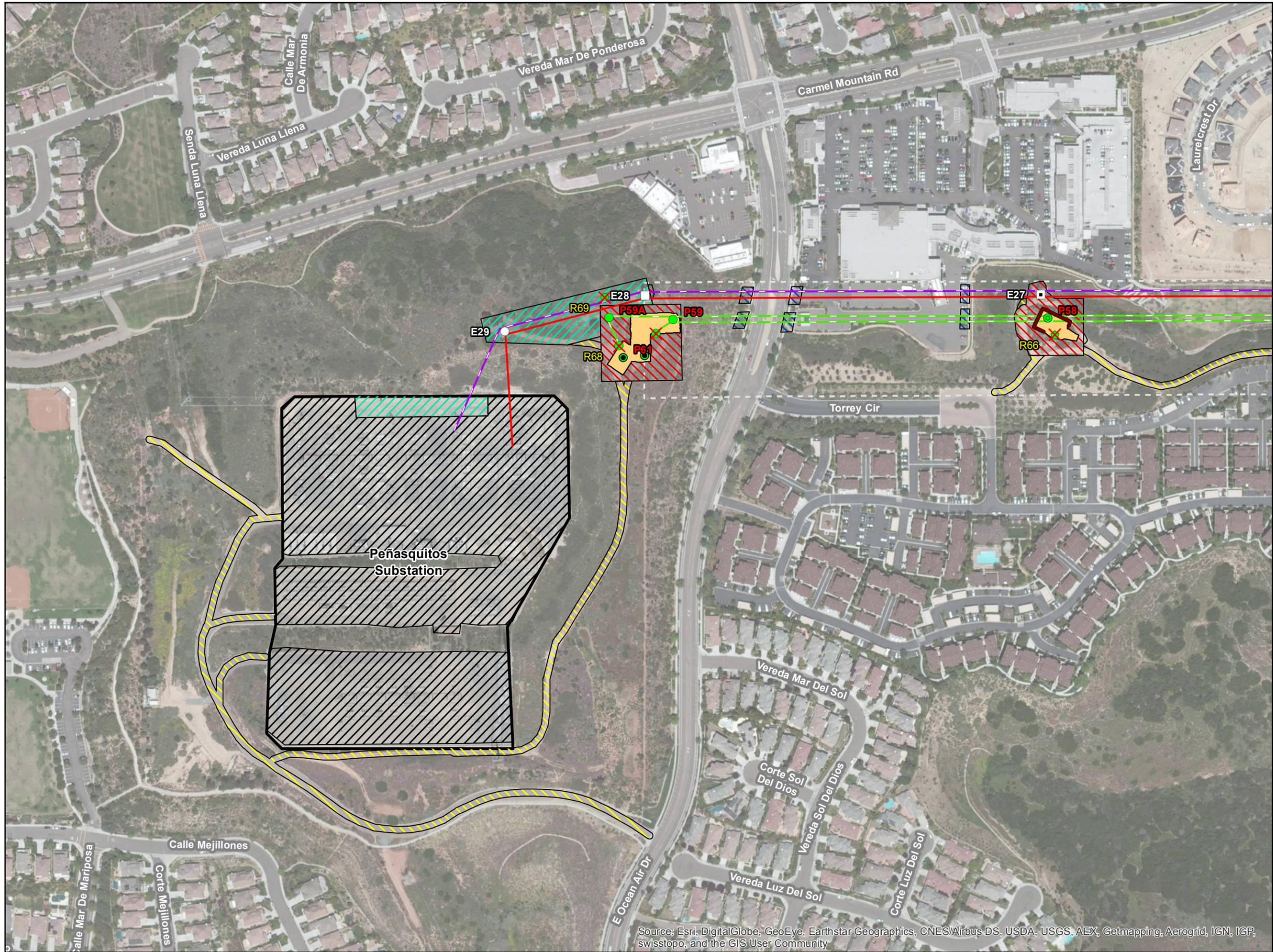


Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 37 of 45)

- Legend**
- Proposed Structures**
- 69-kV Steel Cable Pole (Dead End)
 - 69-kV Tubular Steel Pole (Tangent)
 - 69-kV Tubular Steel Pole (Dead End)
 - Retaining Wall
- Existing Structures (To)**
- 230-kV Steel Lattice Tower (Tangent)
 - 230-kV Steel Lattice Tower (Dead End)
 - 230-kV Tubular Steel Pole (Dead End)
- Existing Structures (To)**
- ✕ 69-kV Wood Cable Pole
 - ✕ 69-kV Wood H-Frame
 - ✕ 69-kV Wood Monopole
- Transmission Lines**
- 230-kV (Proposed Overhead)
- Power Lines**
- 138-kV (Relocated Overhead)
 - 69-kV (Relocated Overhead)
- Work Areas**
- Structure Pad
 - ▨ Structure Installation/Removal
 - ▨ Stringing Site
 - ▨ Guard Structure
 - ▨ Access
 - ▨ Substation Storage
 - ▨ Substation
 - ▨ SDG&E Right-of-Way



Scale = 1:3,000
 0 100 200 Feet
 Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

PANORAMA

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 38 of 45)

Legend

Existing Structures (To)

- 230-kV Steel Lattice Tower (Tangent)
- 230-kV Steel Lattice Tower (Dead End)
- 230-kV Tubular Steel Pole (Dead End)

Work Areas

- ▨ Encina Hub Reconfiguration
- ▨ Guard Structure
- ▨ Access
- ▨ Laydown



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Sycamore-Peñasquitos 230-kV
Transmission Line Project**

Figure A-1: Proposed Project Detail
(Map 39 of 45)

Legend

Existing Structures (To

□ 230-kV Steel Lattice Tower (Dead End)

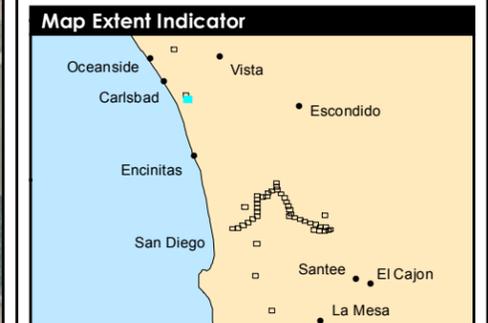
Work Areas

▨ Encina Hub Reconfiguration

▨ Access



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Scale = 1:3,000
0 100 200 Feet
Aerial Imagery: 5/30/2014
Date Created: 9/3/2015



Sycamore-Peñasquitos 230-kV Transmission Line Project

Figure A-1: Proposed Project Detail
(Map 40 of 45)

Legend

Existing Structures (To)

- 230-kV Steel Lattice Tower (Dead)
- ◇ 230-kV Wood H-Frame (Dead End)

Work

- ▨ Phase Transposition
- ▨ Access
- ▨ Laydown



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community



Sycamore-Peñasquitos 230-kV Transmission Line Project
 Figure A-1: Proposed Project Detail
 (Map 41 of 45)

- Legend**
- Existing Structures (To**
- 230-kV Steel Lattice Tower (Tangent)
 - ◇ 230-kV Wood H-Frame (Dead End)
- Work Areas**
- ▨ Phase Transposition
 - ▨ Access

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Scale = 1:3,000

0 100 200 Feet

Aerial Imagery: 5/30/2014
 Date Created: 9/3/2015

**Sycamore-Peñasquitos 230-kV
Transmission Line Project**

Figure A-1: Proposed Project Detail
(Map 42 of 45)

Legend

Work Areas

-  Substation Storage
-  Substation



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community



Scale = 1:3,000
0 100 200 Feet
Aerial Imagery: 5/30/2014
Date Created: 9/3/2015



**Sycamore-Peñasquitos 230-kV
Transmission Line Project**

Figure A-1: Proposed Project Detail
(Map 43 of 45)

Legend

Work Areas

-  Substation Storage
-  Substation



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Sycamore-Peñasquitos 230-kV
Transmission Line Project**

Figure A-1: Proposed Project Detail
(Map 44 of 45)

Legend

Work Areas

 Staging Yard



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Scale = 1:3,000
0 100 200 Feet
Aerial Imagery: 5/30/2014
Date Created: 9/3/2015



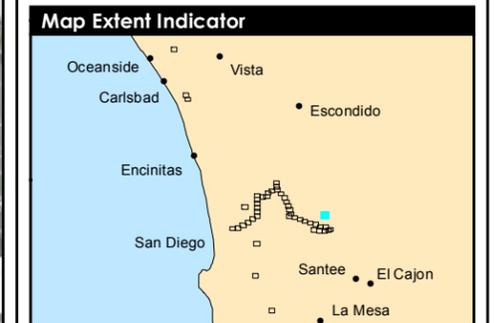
**Sycamore-Peñasquitos 230-kV
Transmission Line Project**

Figure A-1: Proposed Project Detail
(Map 45 of 45)

Legend

Work

 Staging Yard



Scale = 1:3,000
0 100 200 Feet
Aerial Imagery: 5/30/2014
Date Created: 9/3/2015



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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, ICP, swisstopo, and the GIS User Community