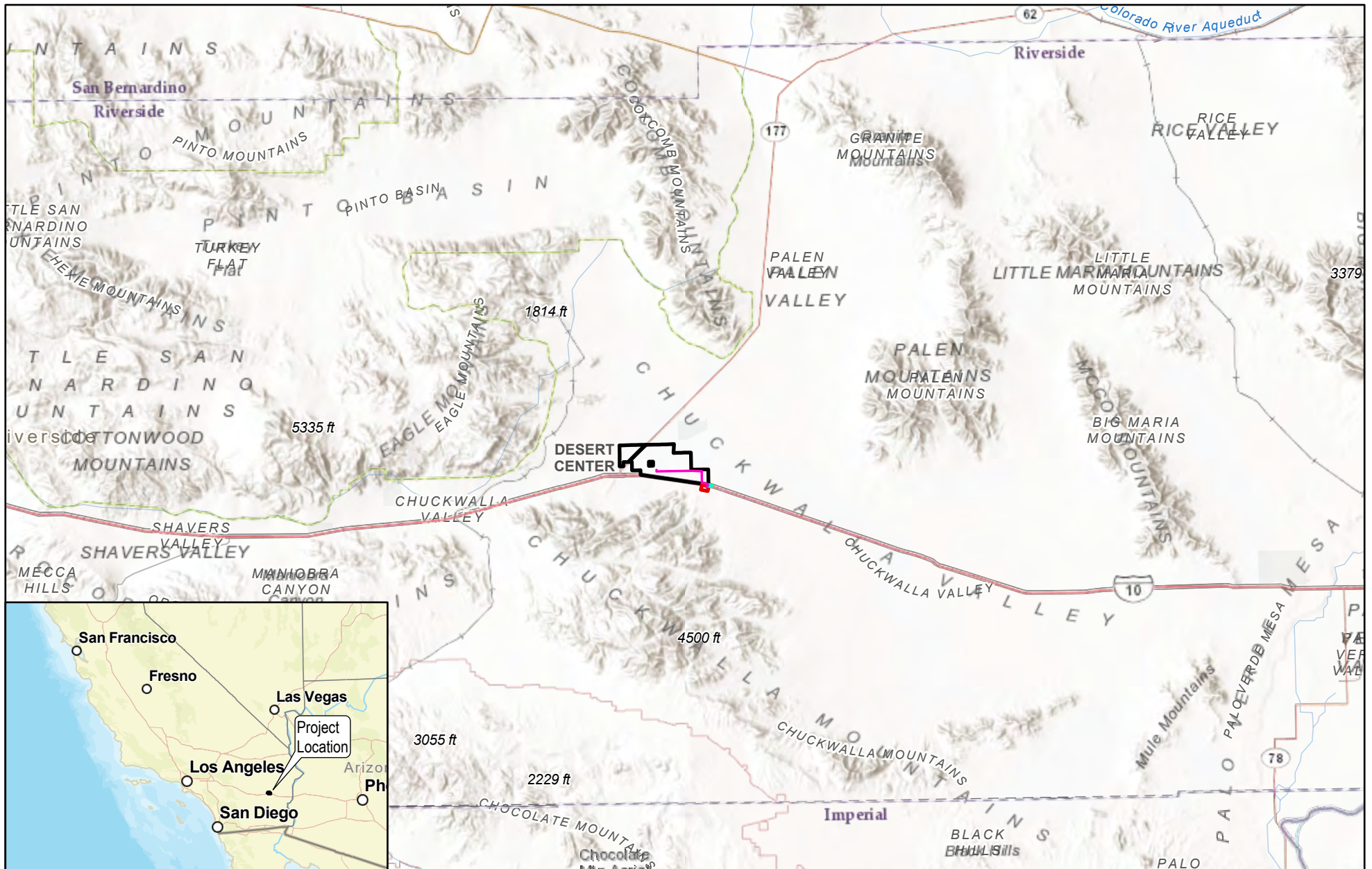


Appendix B

Figures



- Proposed Solar Facility
- Existing SCE Red Bluff Substation
- Proposed 500-kV Gen-tie Line Corridor
- 500-kV Gen-tie Line Corridor Option (based on final negotiations with SCE and ROW holders)

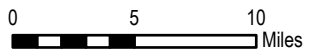
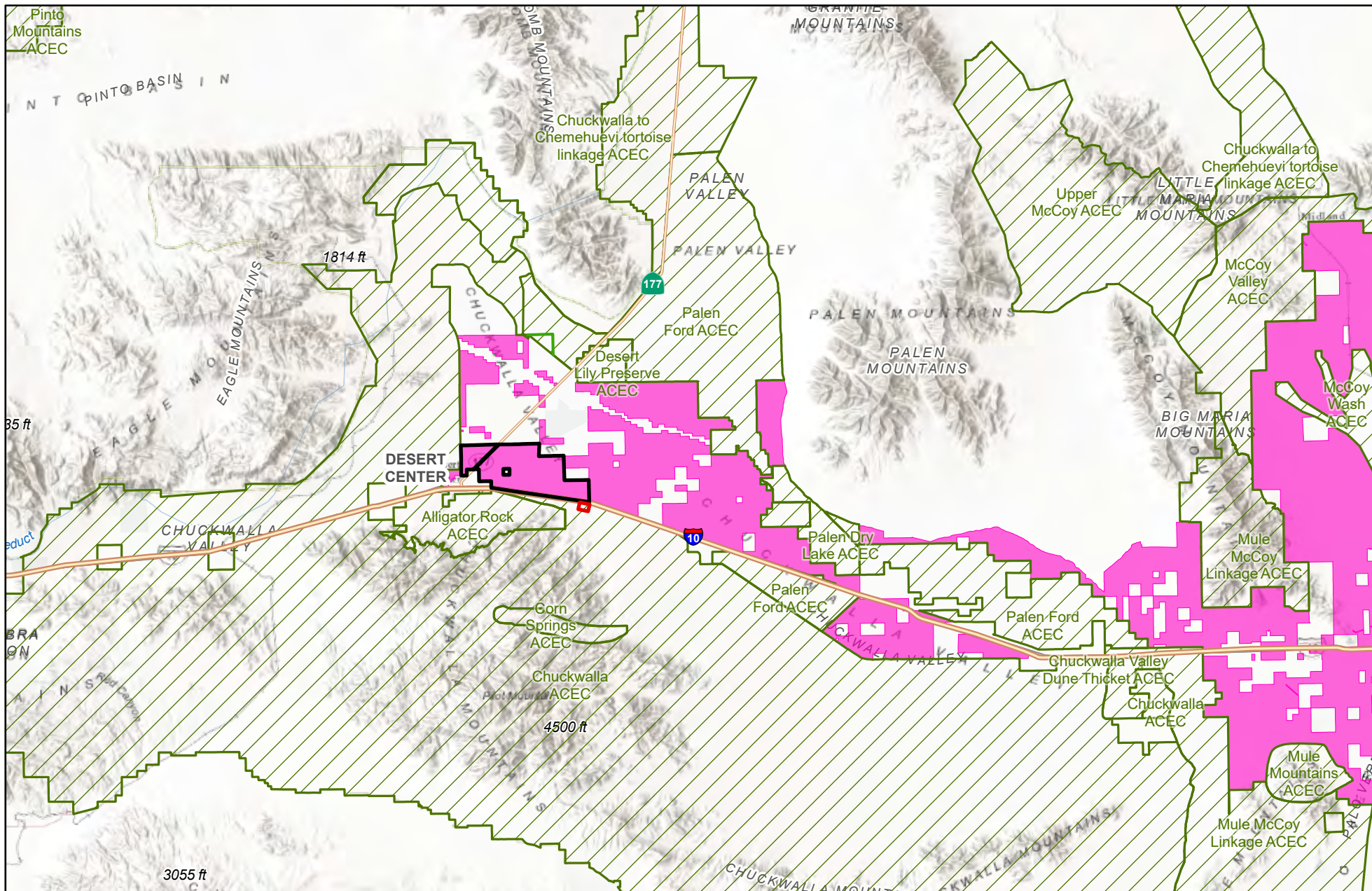


Figure 1-1

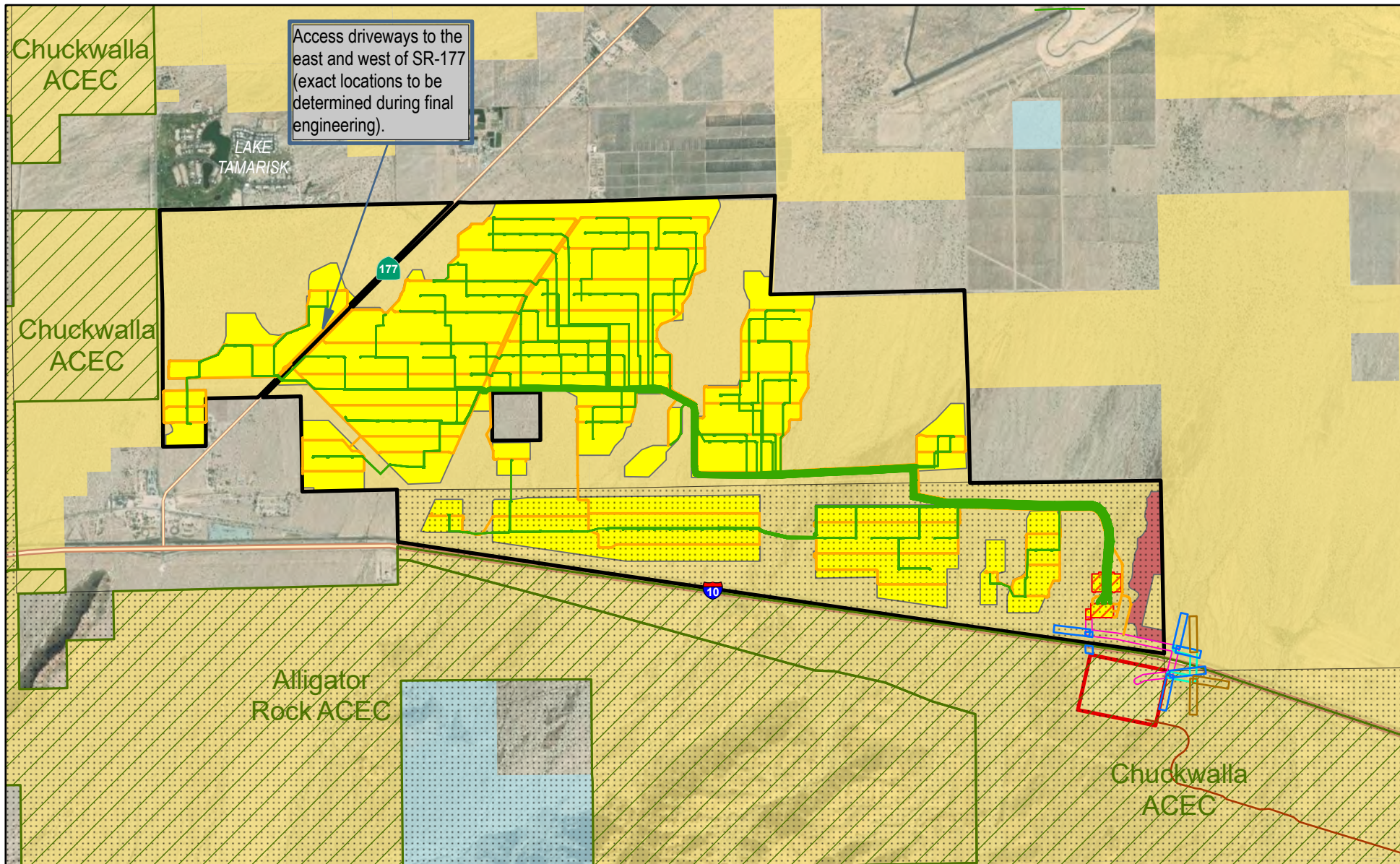
Project Vicinity



- Project Area
- Existing SCE Red Bluff Substation
- Development Focus Areas (DFA)
- Area of Critical Environmental Concern (ACEC)*

*ACEC protections only apply on BLM lands.

Figure 1-2



Access driveways to the east and west of SR-177 (exact locations to be determined during final engineering).

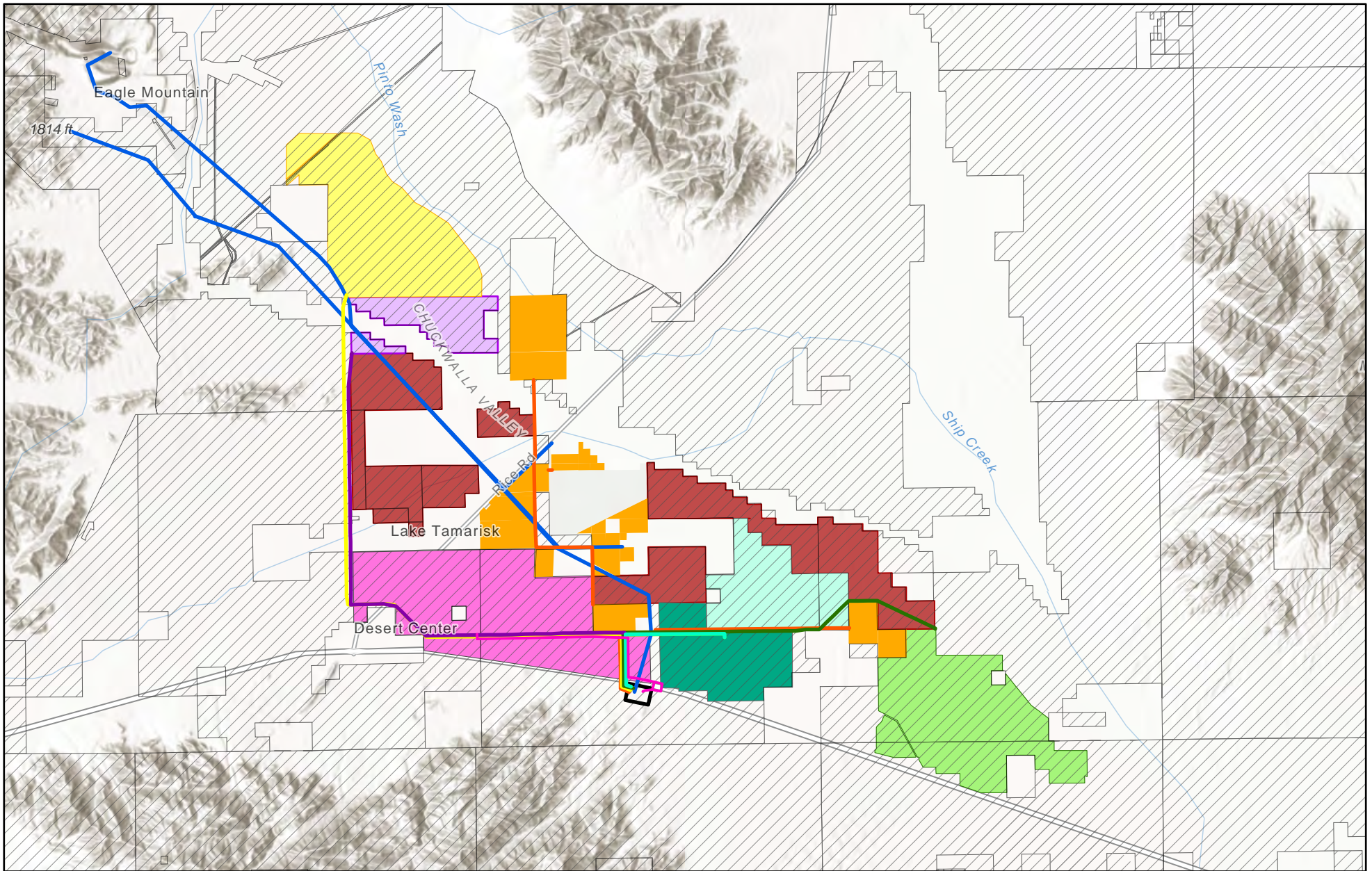
- | | | |
|-------------------------------------|-----------------------------------|--|
| Project Boundary | Optional Pull Tensioning Area | Area of Critical Environmental Concern |
| Fenced Solar Array | 34.5-kV Collector Lines | Desert Tortoise Critical Habitat |
| Substation and BESS Area | Roads | Land Ownership |
| 500-kV Gen-tie Line Corridor | Gen-tie Access Road | Bureau of Land Management |
| 500-kV Gen-tie Line Corridor Option | Eagle Crest Gen-tie Line ROW | State |
| Pull Tensioning Area | Existing SCE Red Bluff Substation | |

Figure 2-1

Oberon Renewable Energy Project Area



Sources: Aspen, 2021; Intersect Power, 2021; Mortenson, 2021; BLM, 2021; Esri, 2021.



Desert Center Solar Project Sites and Gen-Tie Lines

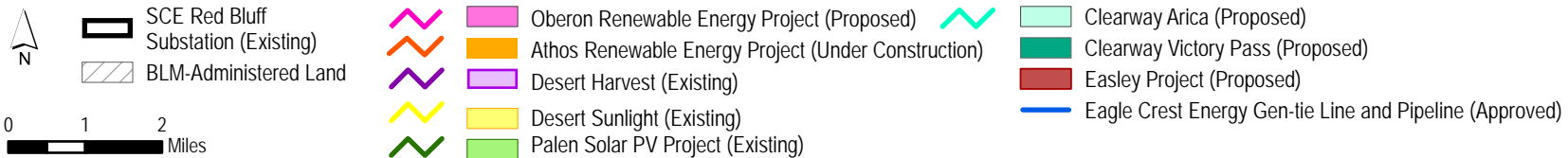


Figure 2-2

Desert Center Solar Projects

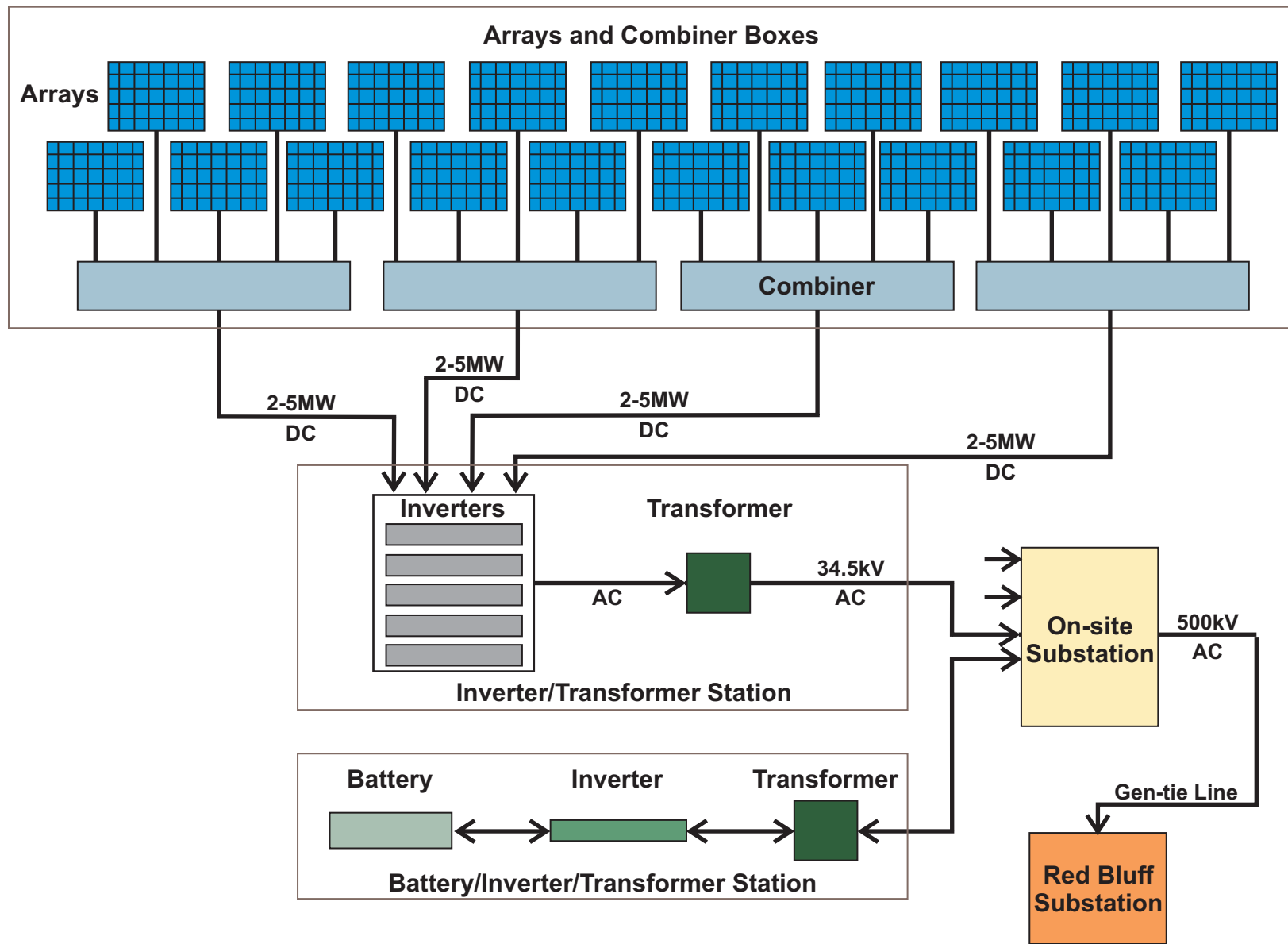
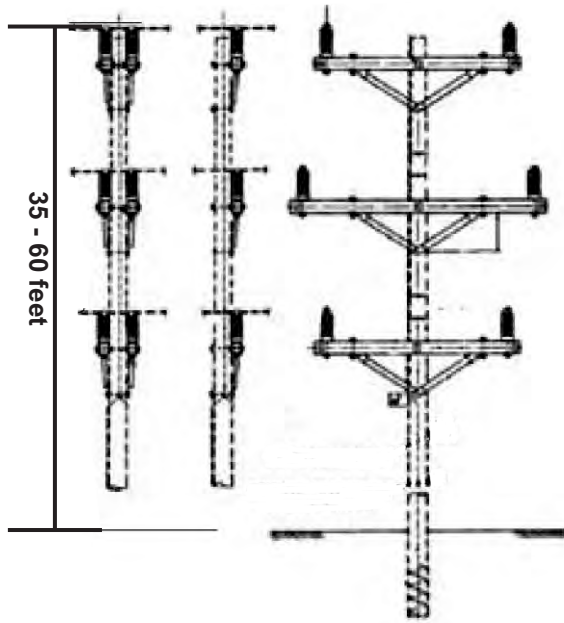
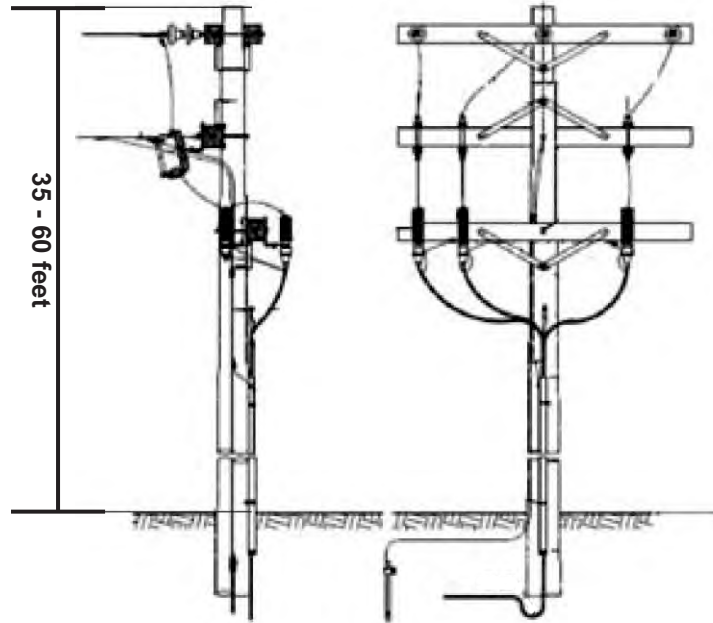


Figure 2-3

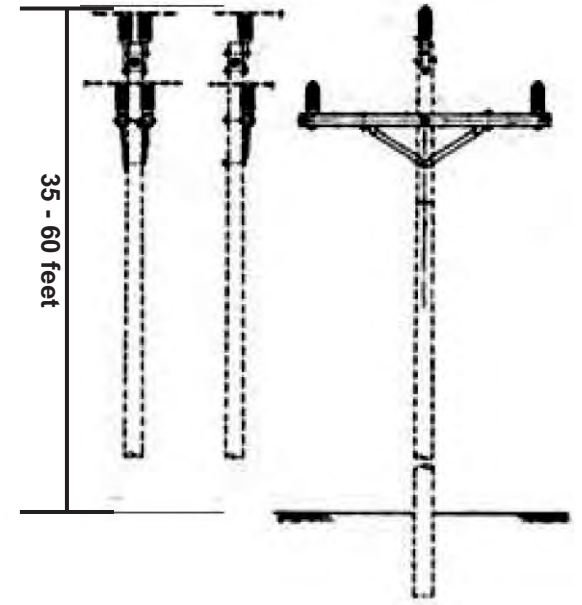
Solar PV and BESS Power Flow Diagram



Double Circuit 34.5 kV
Overhead Line Wood Pole



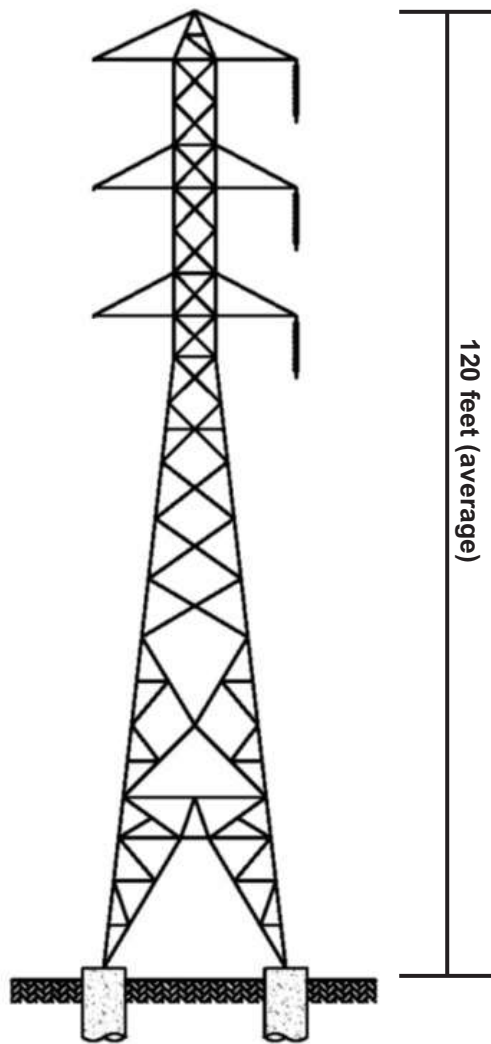
Riser Wood Pole



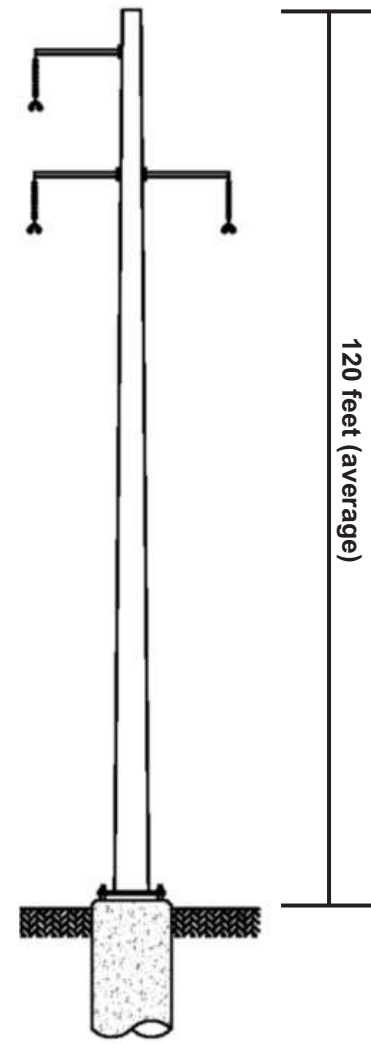
Single Circuit 34.5 kV
Overhead Line Wood Pole

Figure 2-4

Typical 34.5 kV Medium Voltage Line Structures



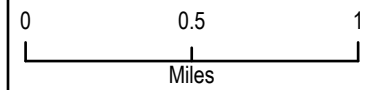
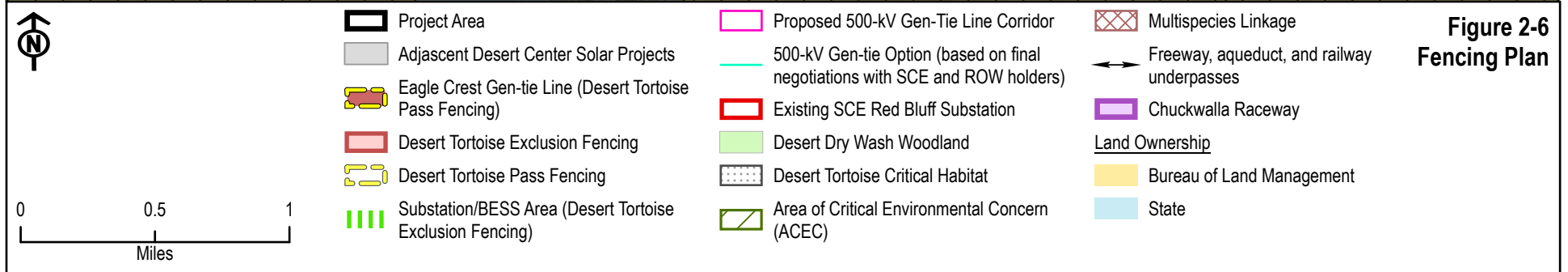
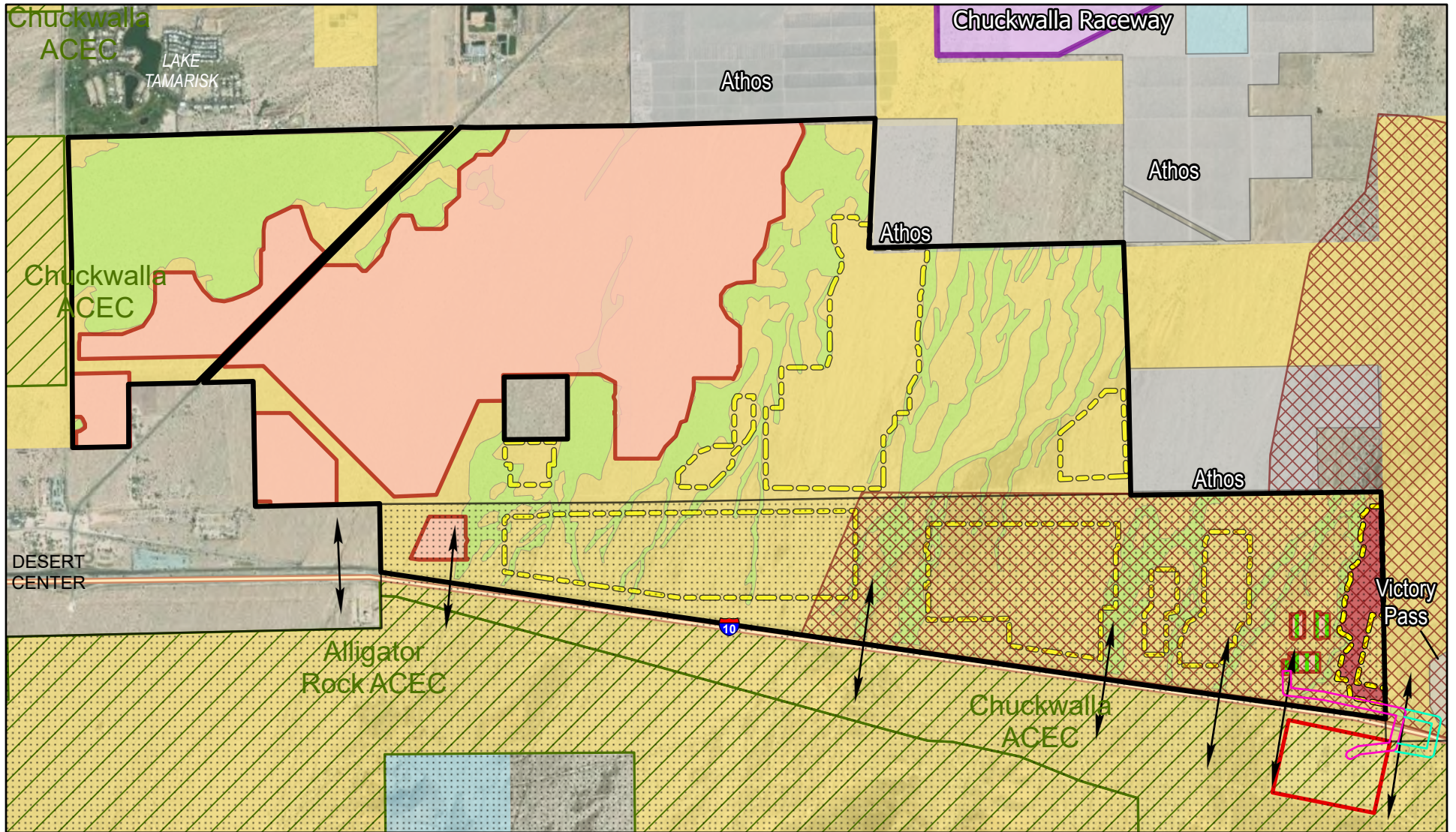
Typical 500 kV Single-Circuit Lattice Tower



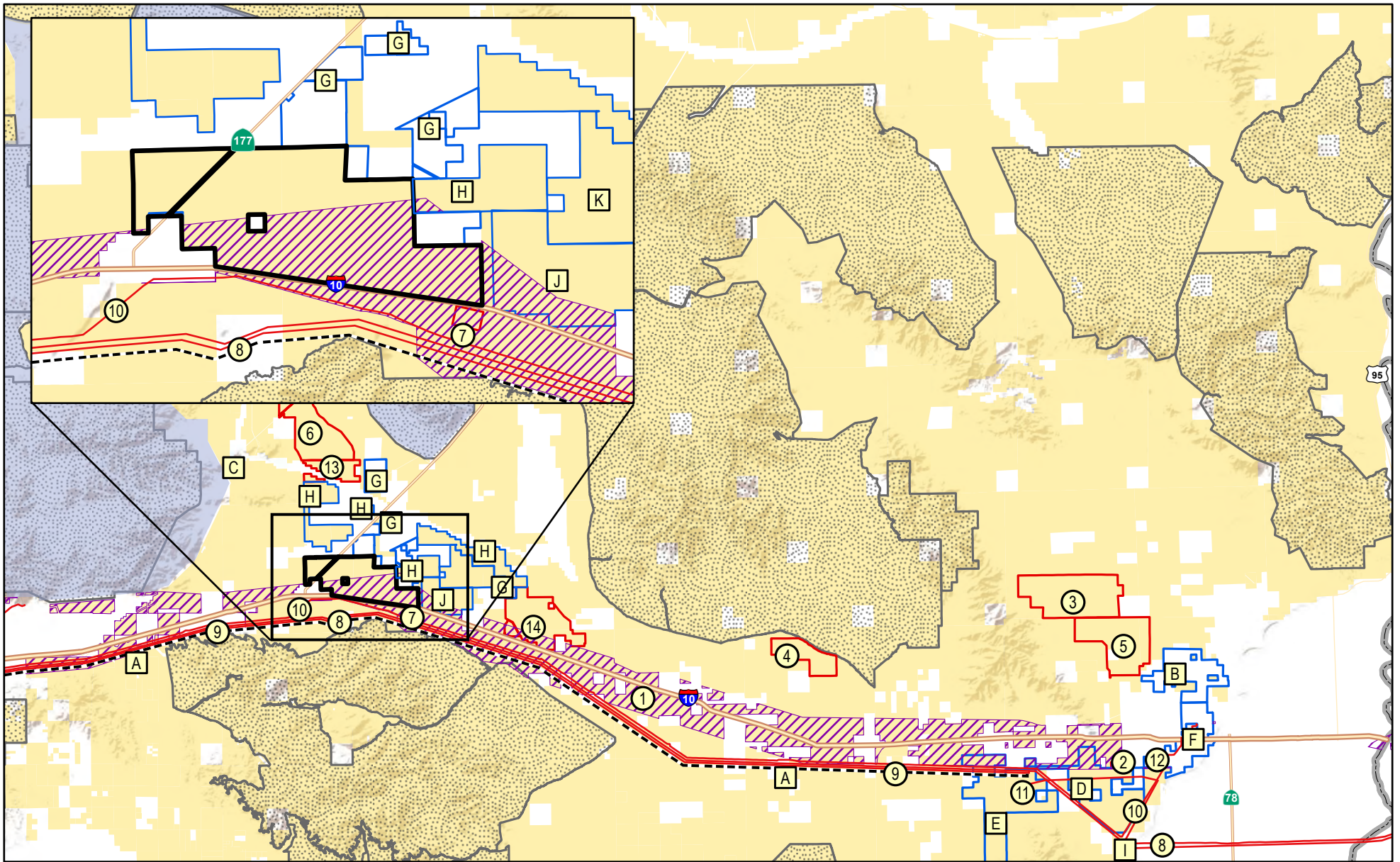
Typical 500 kV Single-Circuit Monopole

Figure 2-5

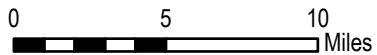
Typical 500 kV Gen-Tie Line Structures



**Figure 2-6
Fencing Plan**



*Refer to tables 3.1-1 and 3.1-2 for information on Existing and Foreseeable Projects.



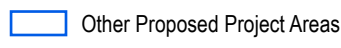
Existing Projects*



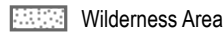
Foreseeable Projects*



Proposed Project Area



Other Proposed Project Areas



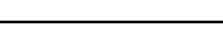
DRECP Development Focus Areas



Bureau of Land Management Land



Section 368 Energy Corridors



Joshua Tree National Park

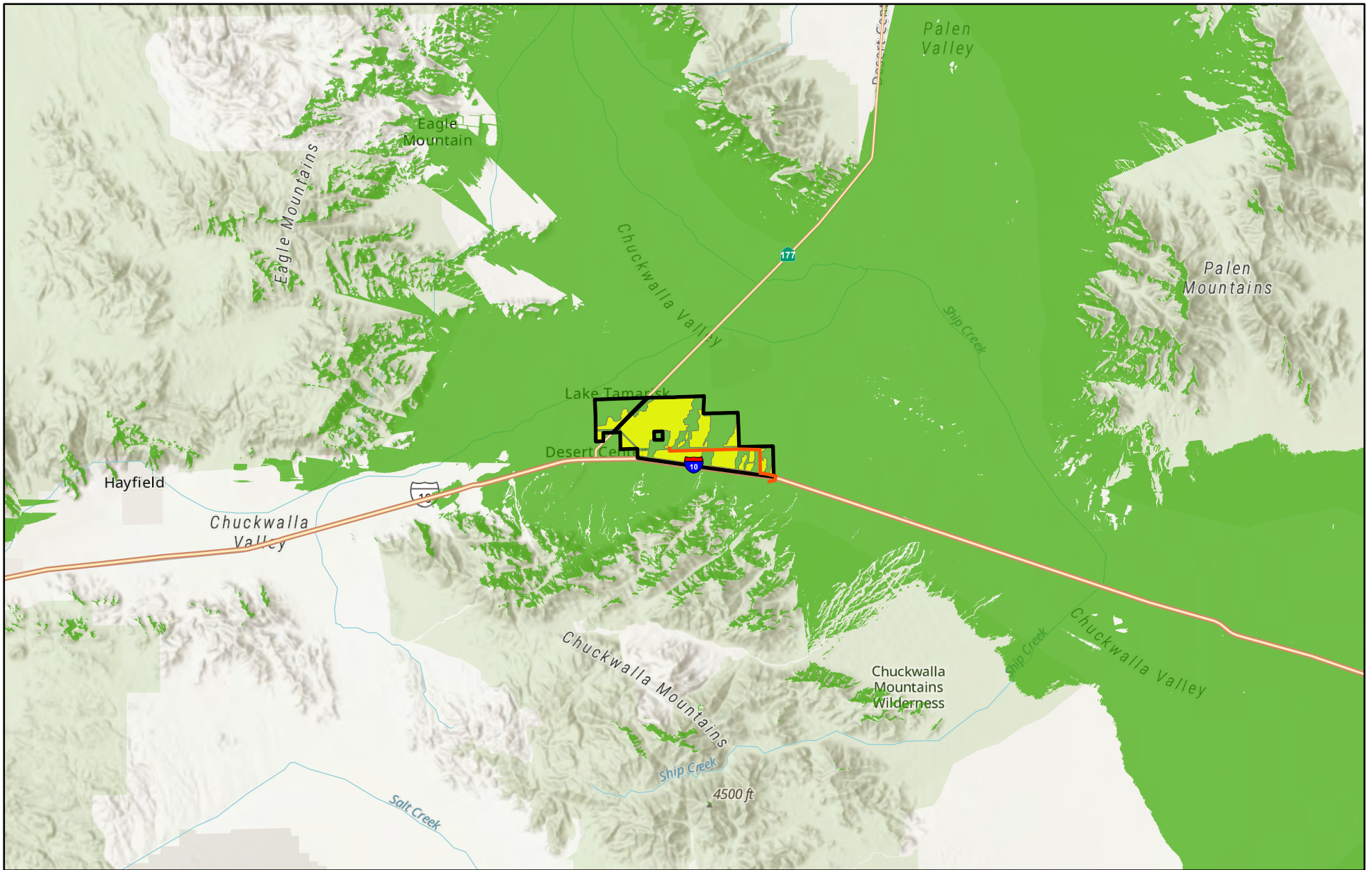


Wilderness Area



Figure 3.1-1

Cumulative Projects

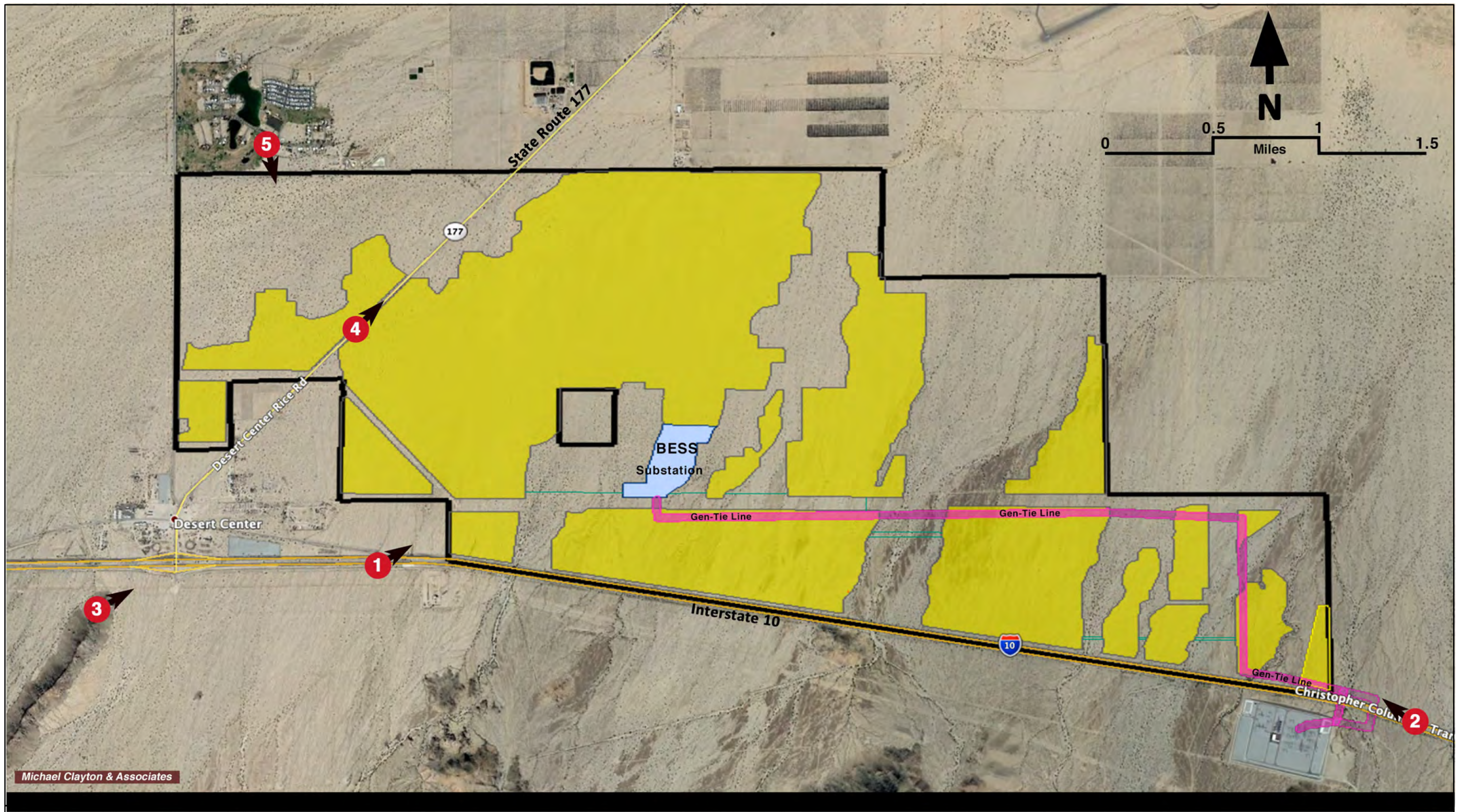


0 5 Miles

- Oberon Gen-Tie Line Corridor
- Fenced Solar Array
- Fenced Solar Array or Gen-Tie Line Visible

Figure 3.2-1A

**Oberon Renewable Energy Project
Viewshed**



LEGEND	
	Project Solar Fields
	Project Boundary
	Key Observation Point (KOP)

Figure 3.2-1B
KOP Map



Michael Clayton & Associates

Latitude: 33.710380° Longitude: -115.384281°

This image presents the **Existing View** to the northeast from **KOP 1** on eastbound I-10, approximately 0.9 mile east of the Desert Center Rice Road (SR 177) overpass. This view captures a central portion of Chuckwalla Valley and the Project area east of SR-177 and north of I-10. This expansive view of the valley is backdropped by the rugged, angular forms of the Coxcomb, Granite, and Palen Mountains, features that contribute visual interest though are partially obscured by smoke from regional wild fires.

Figure 3.2-2A
KOP 1 Eastbound Interstate 10
Existing View



Michael Clayton & Associates

Latitude: 33.710380° Longitude: -115.384281°

This image presents a **Visual Simulation** of the proposed Project from **KOP 1** on eastbound I-10, approximately 0.9 mile east of the Desert Center Rice Road (SR 177) overpass. From KOP 1, the closest viewing distance to the nearest arrays would be approximately 0.35 mile. In addition to the solar arrays, the upper portion of the substation and the first gen-tie structure would be visible near the right edge of the image above. The BESS facilities would be screened from view by intervening arrays.

Figure 3.2-2B
KOP 1 Eastbound Interstate 10
Visual Simulation



Michael Clayton & Associates

Latitude: 33.700022° Longitude: -115.302203°

This image presents the **Existing View** to the west from **KOP 2** on westbound I-10, just east of the proposed gen-tie span of I-10 and approximately 3.6 miles west of the Corn Springs Road overpass. This view captures a central portion of Chuckwalla Valley north and east of Desert Center and provides an expansive view of the valley, backdropped by the rugged, horizontal to angular form of the Eagle Mountains, features that contribute visual interest (partially obscured by smoke from regional wild fires).

Figure 3.2-3A
KOP 2 Westbound Interstate 10
Existing View



Michael Clayton & Associates

Latitude: 33.700022° Longitude: -115.302203°

This image presents a **Visual Simulation** of the proposed Project from **KOP 2** on westbound I-10, just east of the proposed gen-tie span of I-10 and approximately 3.6 miles west of the Corn Springs Road overpass. This view captures the eastern portion of the Project, though the arrays are substantially screened by intervening vegetation. Most prominent is the gen-tie line extending to the east from the substation in the central portion of the Project, to the close parallel with I-10 and subsequent span of the freeway.

Figure 3.2-3B

KOP 2 Westbound Interstate 10
Visual Simulation



This image presents the **Existing View** to the northeast from **KOP 3** on the crest of Alligator Rock, just south of I-10 and Desert Center. This view overlooks the eastern portion of Desert Center and a central portion of Chuckwalla Valley east of SR 177 (at the left side of the image above) and north of I-10 (extending diagonally through the center of the image). This expansive view of the valley is backdropped by the horizontal to angular forms of the Granite and Palen Mountains, features that contribute visual interest.

Figure 3.2-4A
KOP 3 Alligator Rock
Existing View



Michael Clayton & Associates

Latitude: 33.707365° Longitude: -115.406226°

This image presents a **Visual Simulation** of the proposed Project as viewed from **KOP 3** on the crest of Alligator Rock, just south of I-10 and Desert Center. This frame of view encompasses the central portion of the proposed Project's solar arrays, at viewing distances ranging from approximately 1.2 miles (closest to KOP 3) to approximately five miles. The substation, BESS, and gen-tie line are visible in the center-right portion of the image.

Figure 3.2-4B
KOP 3 Alligator Rock
Visual Simulation

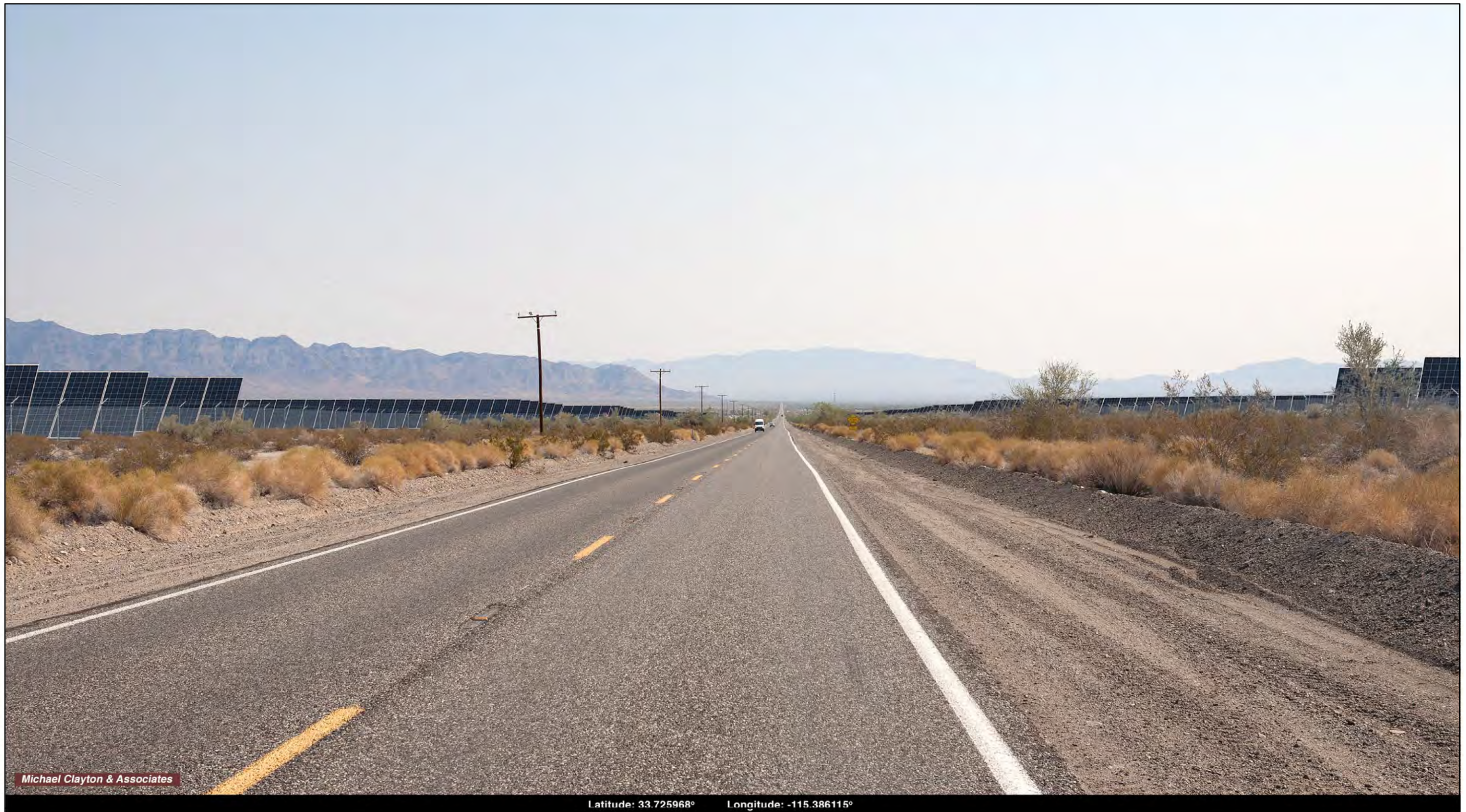


Michael Clayton & Associates

Latitude: 33.725968° Longitude: -115.386115°

This image presents the **Existing View** to the north from **KOP 4** on northbound SR 177 (Rice Road), approximately 1.2 miles northeast of Desert Center. This view up SR 177 captures a central portion of the Chuckwalla Valley in the immediate vicinity of SR 177. This expansive view of the broad, flat valley floor is backdropped by the horizontal to angular forms of the Coxcomb, Granite, and Palen Mountains, features that contribute visual interest, though in the image, are somewhat obscured by smoke from wild fires.

Figure 3.2-5A
KOP 4 Northbound SR 177
Existing View



This image presents a **Visual Simulation** of the proposed Project from **KOP 4** on northbound SR 177 (Rice Road). This view encompasses a northwestern portion of the proposed solar arrays that would border both sides of SR 177. As is apparent in the simulation, the Project would appear as a prominent industrial facility in the immediate foreground of views from the road and assumes the retention of existing vegetation adjacent to the road to provide partial screening of the project facilities.

Figure 3.2-5B
KOP 4 Northbound SR 177
Visual Simulation



Michael Clayton & Associates

Latitude: 33.738153° Longitude: -115.393274°

This image presents the **Existing View** to the south-southeast from **KOP 5** on the Lake Tamarisk golf course. This view captures a portion of the relatively undeveloped Chuckwalla Valley, backdropped by the rugged, Chuckwalla Mountains. The landscape does host considerable infrastructure including utility lines, the gen-tie lines for the Desert Sunlight and Desert Harvest solar projects, a natural gas pump station, high-voltage electric transmission lines, I-10 with its associated vehicles, and a telecommunications tower.

Figure 3.2-6A
KOP 5 Lake Tamarisk Desert Resort
Existing View

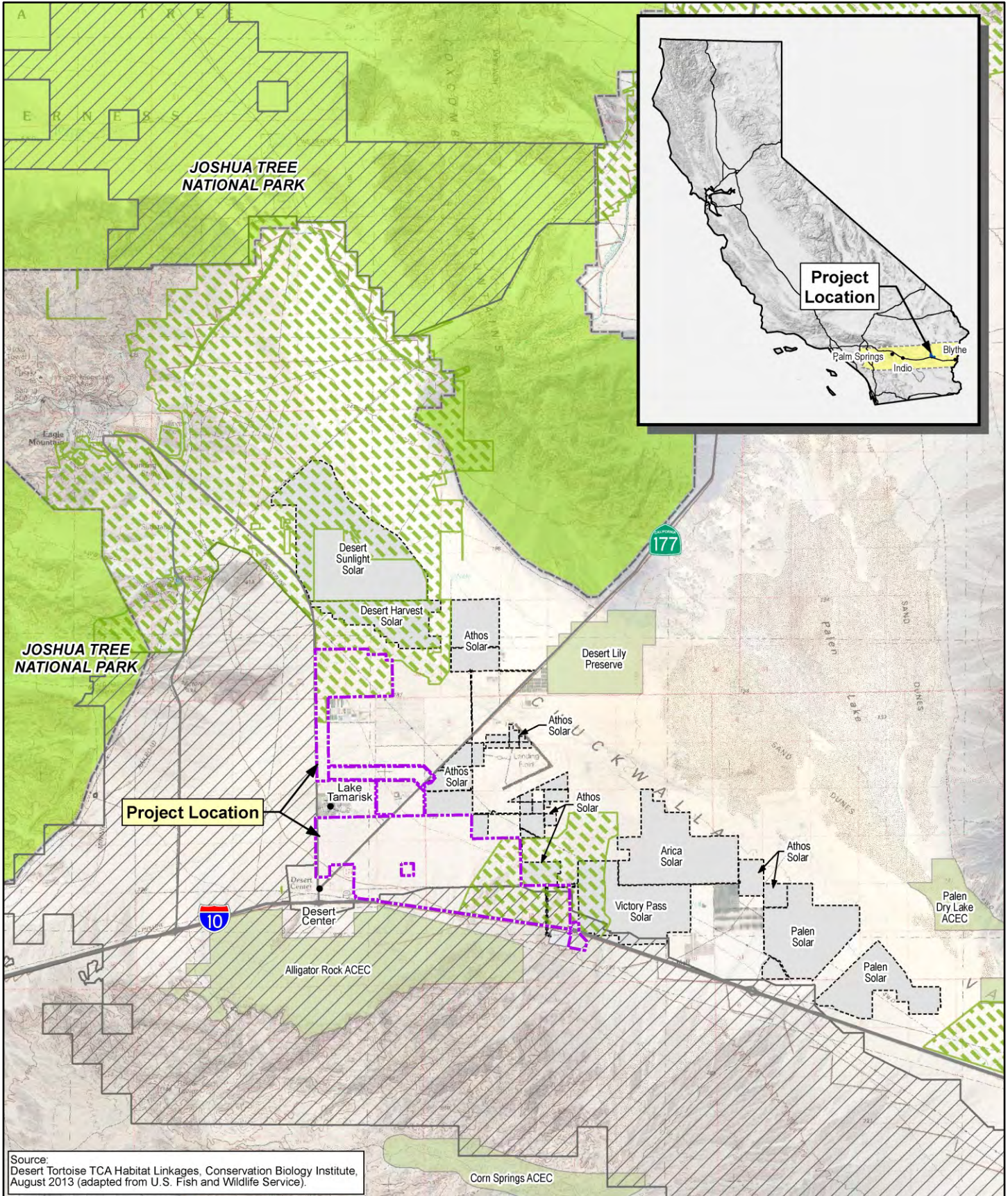


Michael Clayton & Associates

Latitude: 33.738153° Longitude: -115.393274°

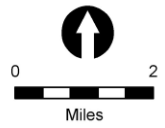
This image presents a **Visual Simulation** of the proposed Project from **KOP 5** on the Lake Tamarisk golf course. This view encompasses a portion of the western-most solar arrays on the west side of SR 177. As is apparent in the simulation, the arrays would appear as a low, horizontal feature along the valley floor, and would be partially screened from view by intervening vegetation. The viewing distance to the arrays would range from approximately 0.65 mile to approximately two miles.

Figure 3.2-6B
KOP 5 Lake Tamarisk Desert Resort
Visual Simulation



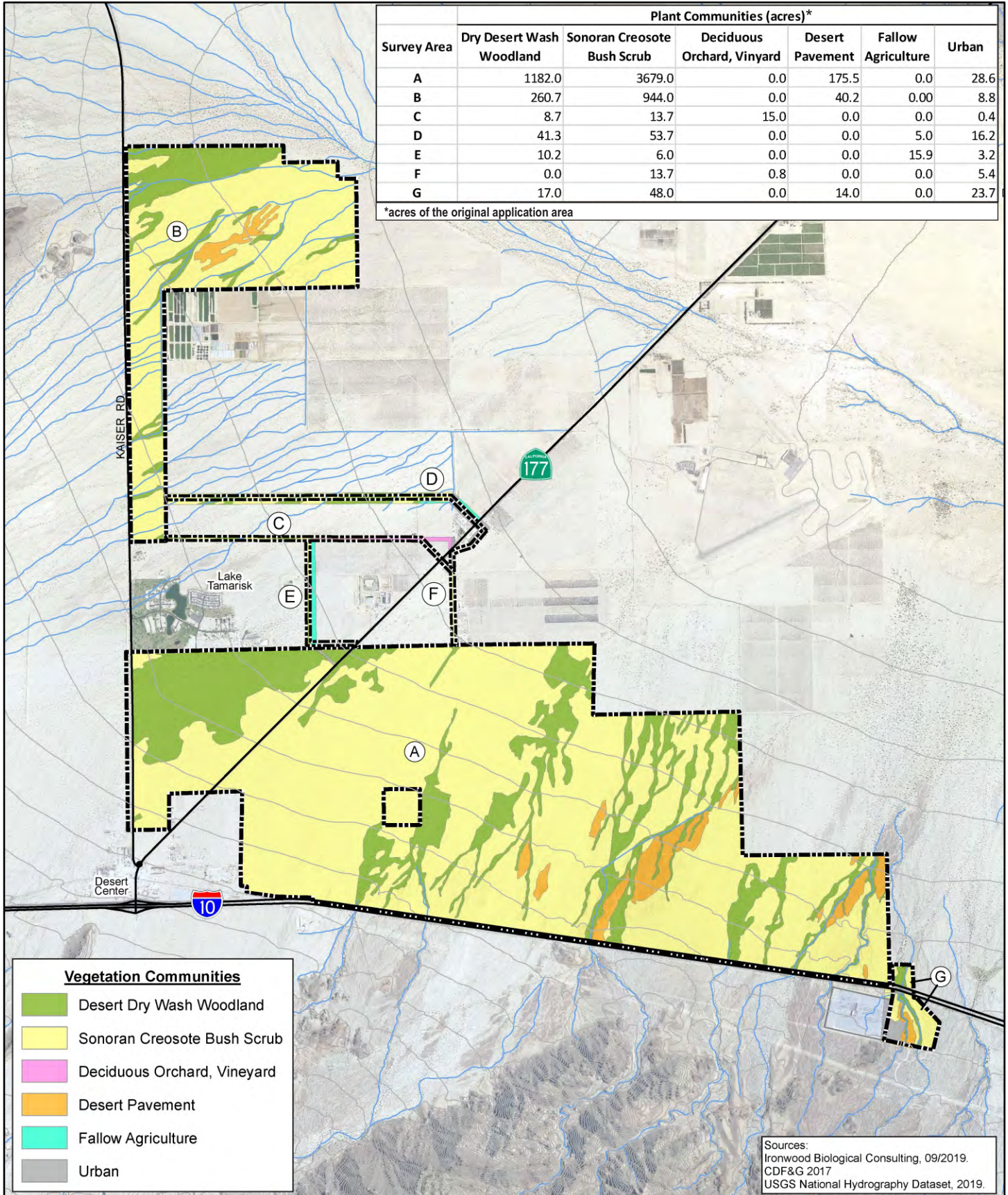
Source: Desert Tortoise TCA Habitat Linkages, Conservation Biology Institute, August 2013 (adapted from U.S. Fish and Wildlife Service).

Source: BRTR, 2021

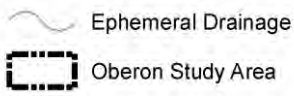
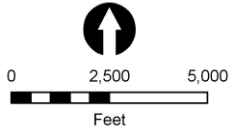


- | | | | |
|---|----------------------------------|---|---|
|  | Oberon Study Area |  | Area of Critical Environmental Concern (ACEC) |
|  | Multi-Species Linkage Area |  | Joshua Tree National Park |
|  | Desert Tortoise Critical Habitat |  | Other Solar Generating Sites (developed and proposed) |

Figure 3.4-1
Project Location

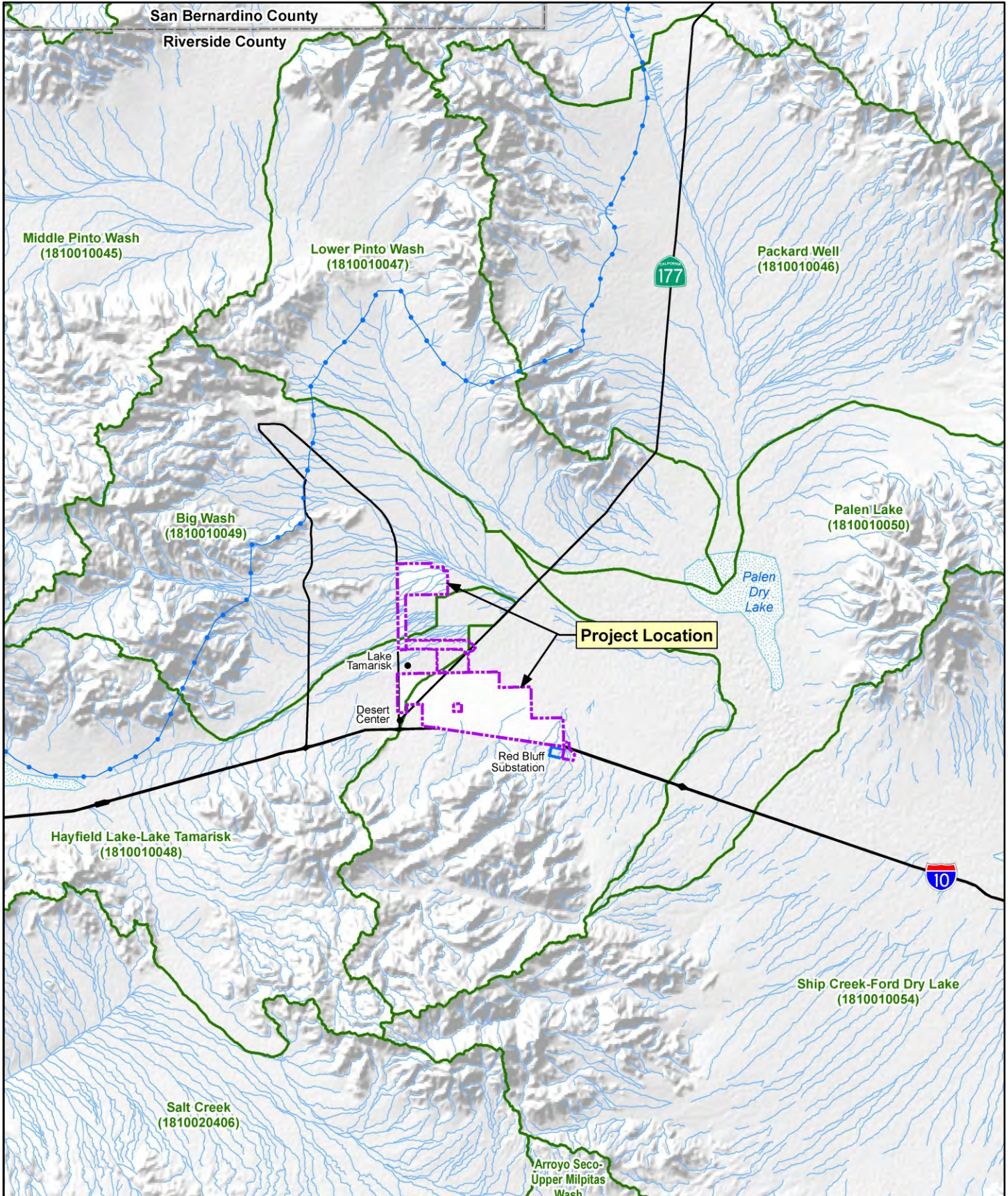


Source: BRTR, 2021

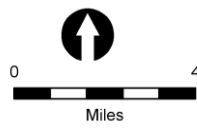


Sources:
 Ironwood Biological Consulting, 09/2019.
 CDF&G 2017
 USGS National Hydrography Dataset, 2019.

Figure 3.4-2
Vegetation Communities



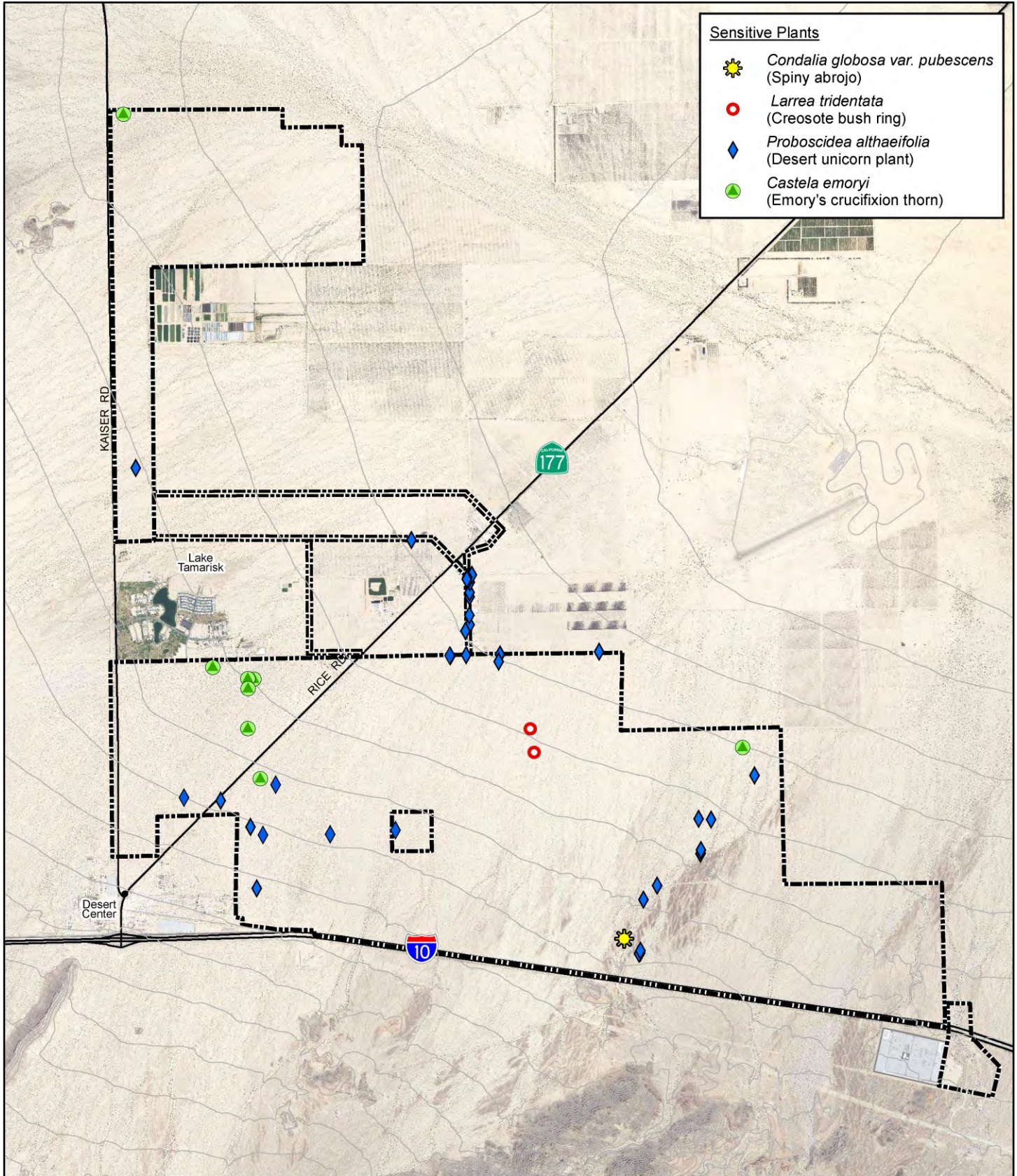
Source: BRTR, 2021







- Ephemeral Drainage
- Aqueduct
- Intermittent Water Feature
- Watershed Boundary
- Oberon Study Area


Figure 3.4-3

Drainages



- Sensitive Plants**
-  *Condalia globosa* var. *pubescens*
(Spiny abrojo)
 -  *Larrea tridentata*
(Creosote bush ring)
 -  *Proboscidea althaeifolia*
(Desert unicorn plant)
 -  *Castela emoryi*
(Emory's crucifixion thorn)

Source: BRTR, 2021

 Oberon Study Area

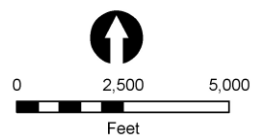
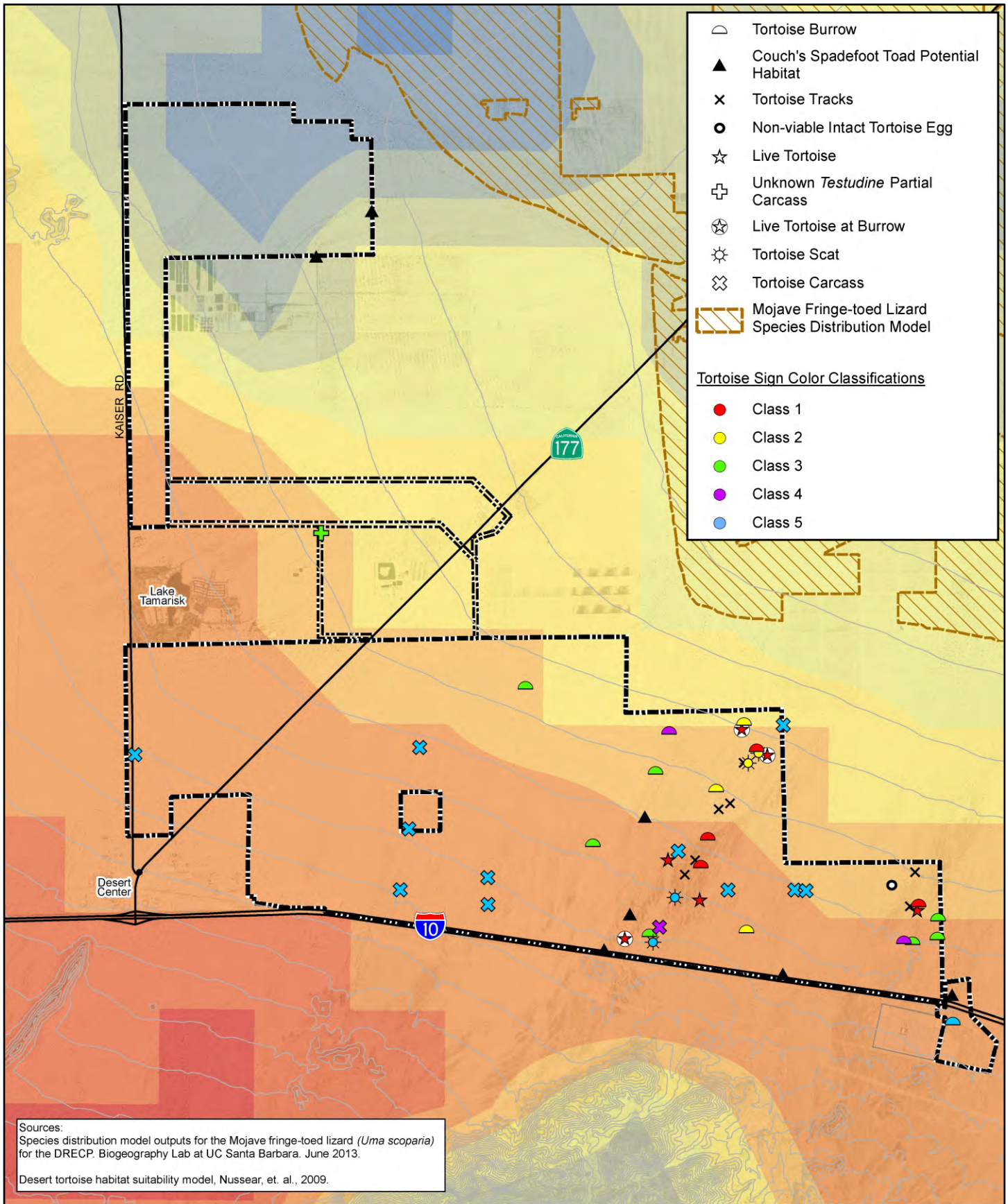


Figure 3.4-4

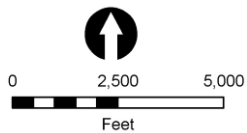
Special-status Plant Observations



Sources:
 Species distribution model outputs for the Mojave fringe-toed lizard (*Uma scoparia*) for the DRECP. Biogeography Lab at UC Santa Barbara. June 2013.

Desert tortoise habitat suitability model, Nussear, et. al., 2009.

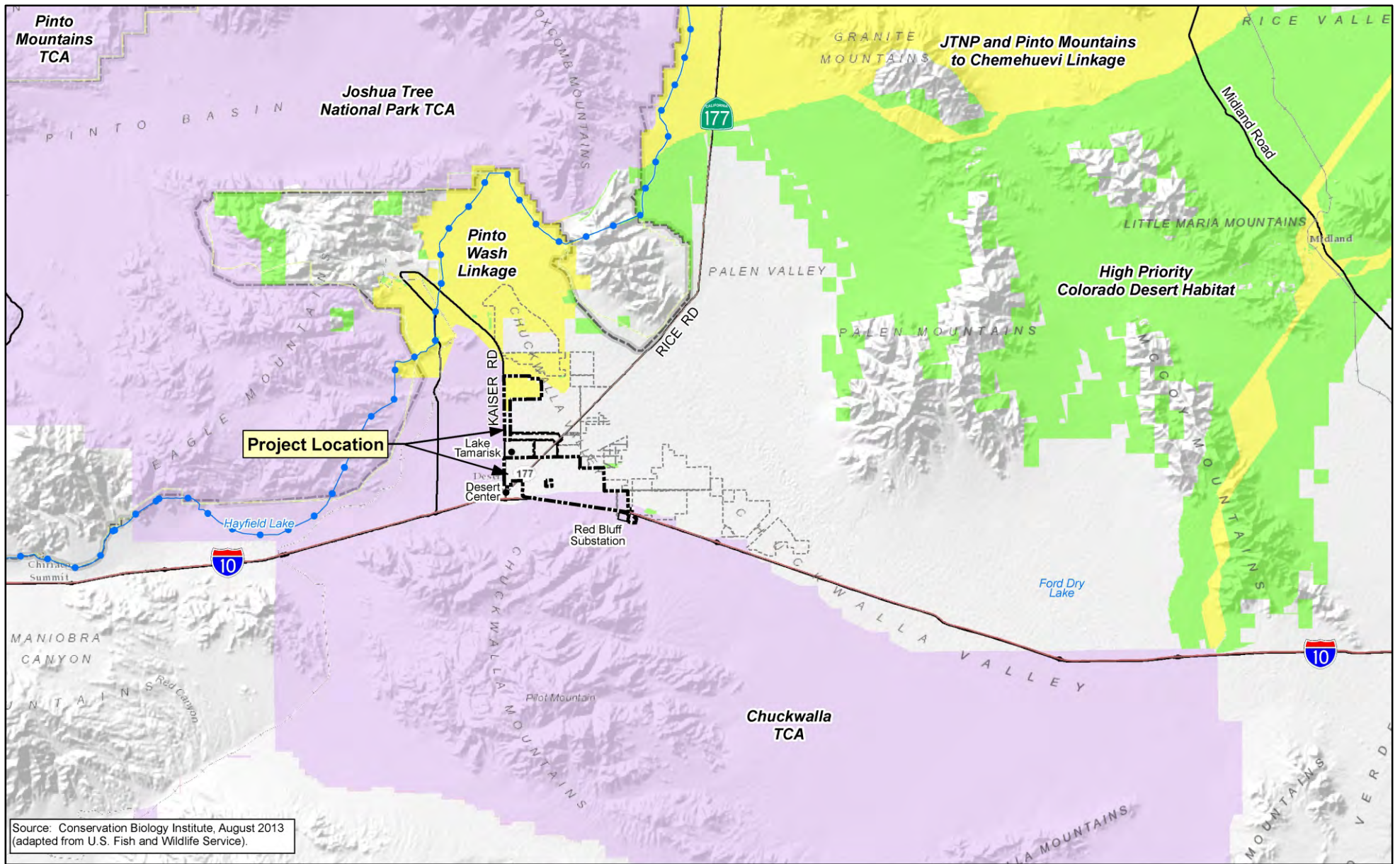
Source: BRTR, 2021



Oberon Study Area

Figure 3.4-5

Noteworthy Amphibian and Reptile Observations



Source: Conservation Biology Institute, August 2013 (adapted from U.S. Fish and Wildlife Service).

Source: BRTR, 2021

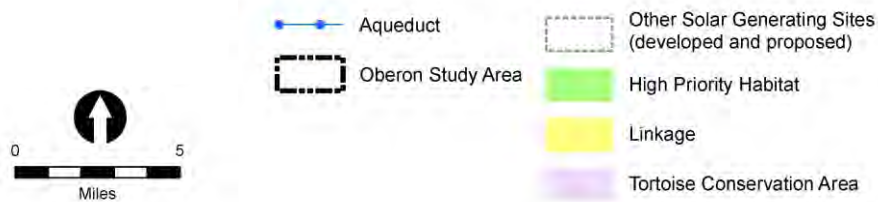
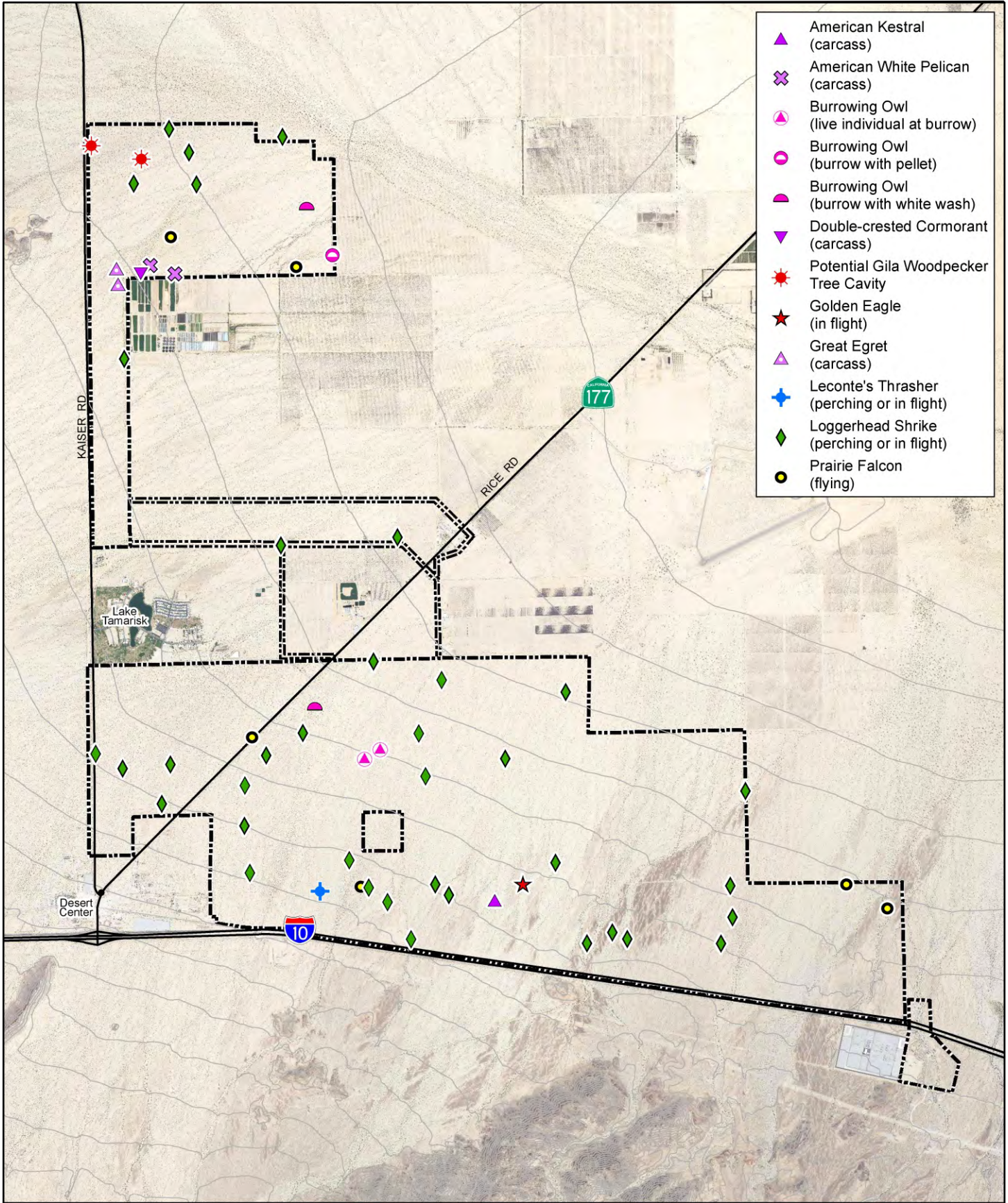


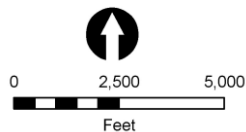
Figure 3.4-6

Desert Tortoise Conservation Areas (TCAs) and Linkages



- ▲ American Kestrel (carcass)
- ✕ American White Pelican (carcass)
- ▲ Burrowing Owl (live individual at burrow)
- Burrowing Owl (burrow with pellet)
- ◐ Burrowing Owl (burrow with white wash)
- ▼ Double-crested Cormorant (carcass)
- ☀ Potential Gila Woodpecker Tree Cavity
- ★ Golden Eagle (in flight)
- ▲ Great Egret (carcass)
- ✚ Leconte's Thrasher (perching or in flight)
- ◆ Loggerhead Shrike (perching or in flight)
- Prairie Falcon (flying)

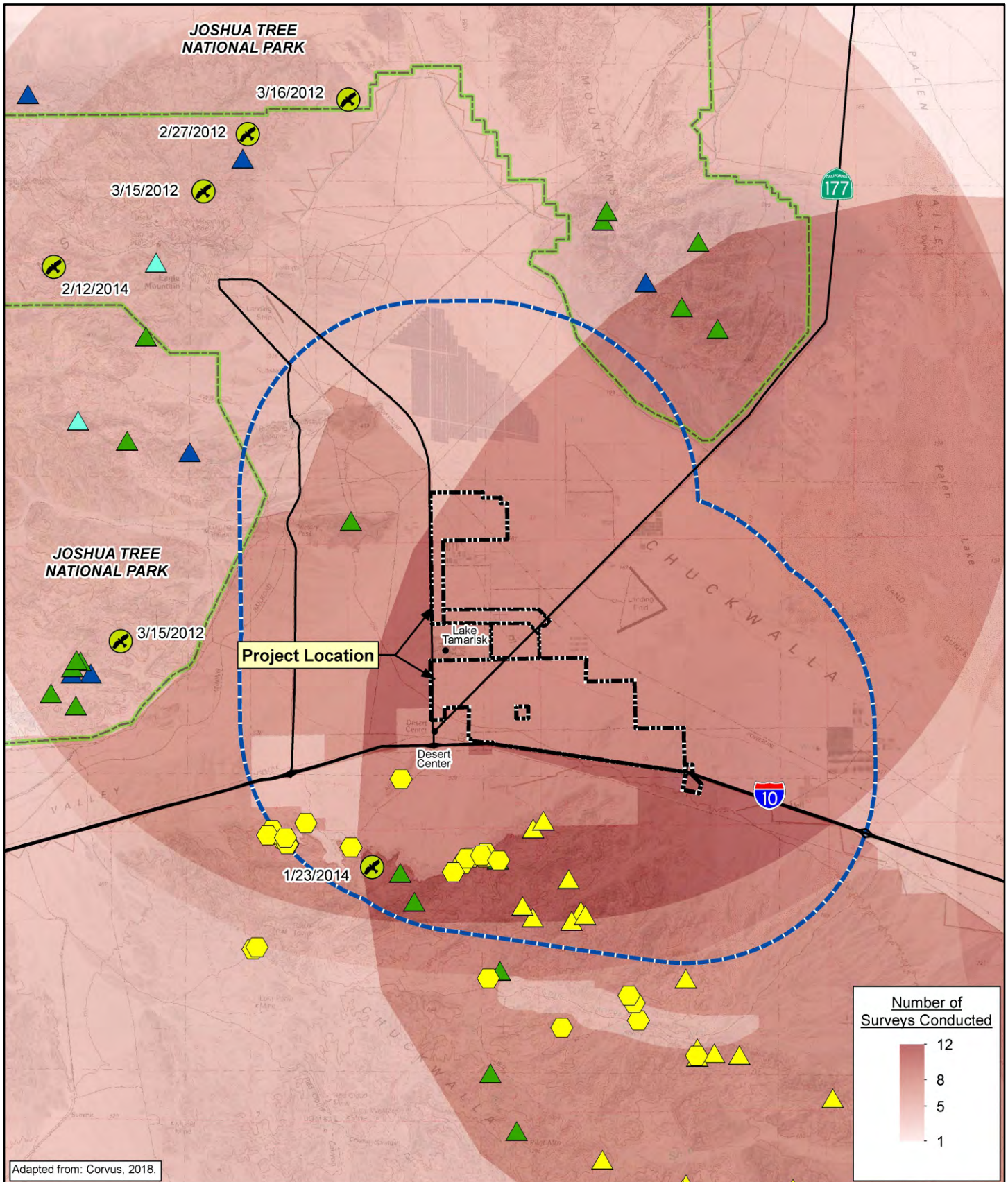
Source: BRTR, 2021



▭ Oberon Study Area

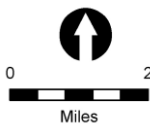
Figure 3.4-7

Noteworthy Avian Observations



Adapted from: Corvus, 2018.

Source: BRTR, 2021



Season Last Surveyed

- ▲ 2009-2010
- ▲ 2011-2012
- ▲ 2013-2014
- ▲ 2014-2015

- ⬡ Cliff Nests Monitored During BLM Raven Surveys
- ⊗ GOEA Sighting (Date of Sighting)
- Oberon Study Area
- Oberon Study Area 4-mile Buffer
- Joshua Tree National Park

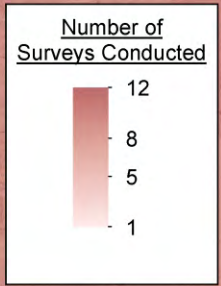
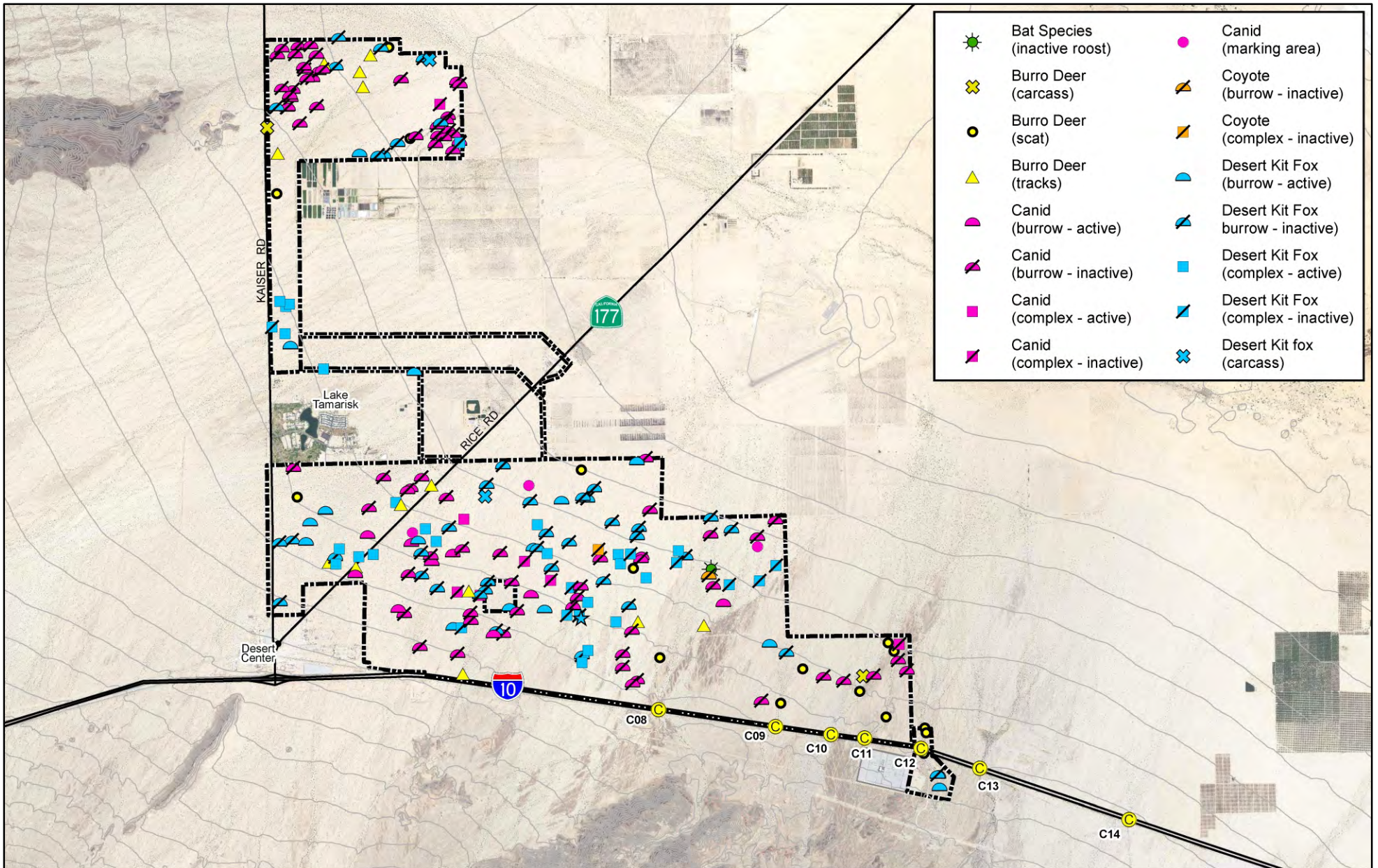




Figure 3.4-8

Golden Eagle Survey Results 2010-2015



Source: BRTR, 2021

 Camera Station
 Oberon Study Area

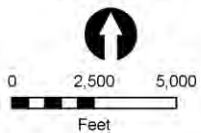
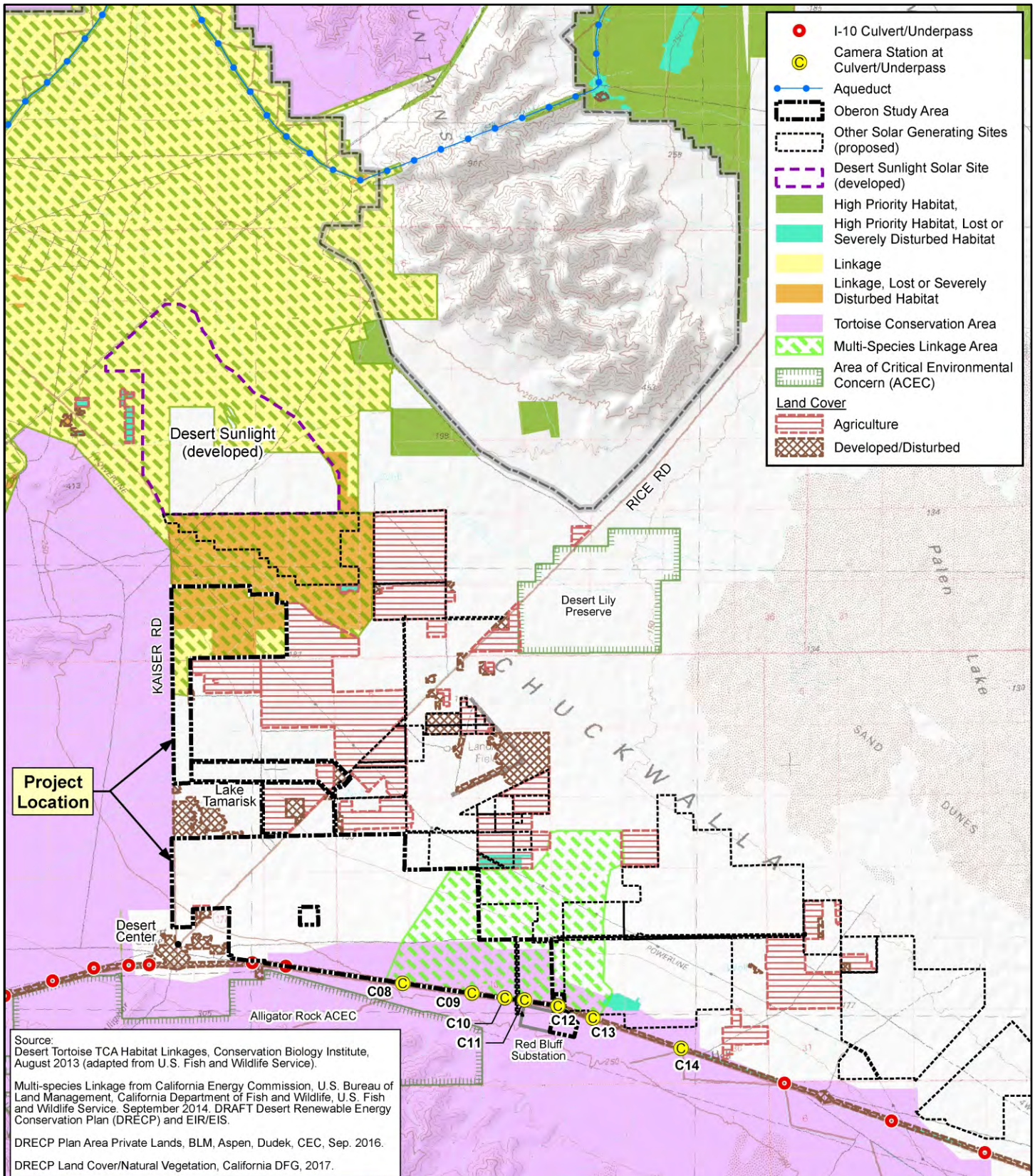


Figure 3.4-9

Noteworthy Mammal Observations

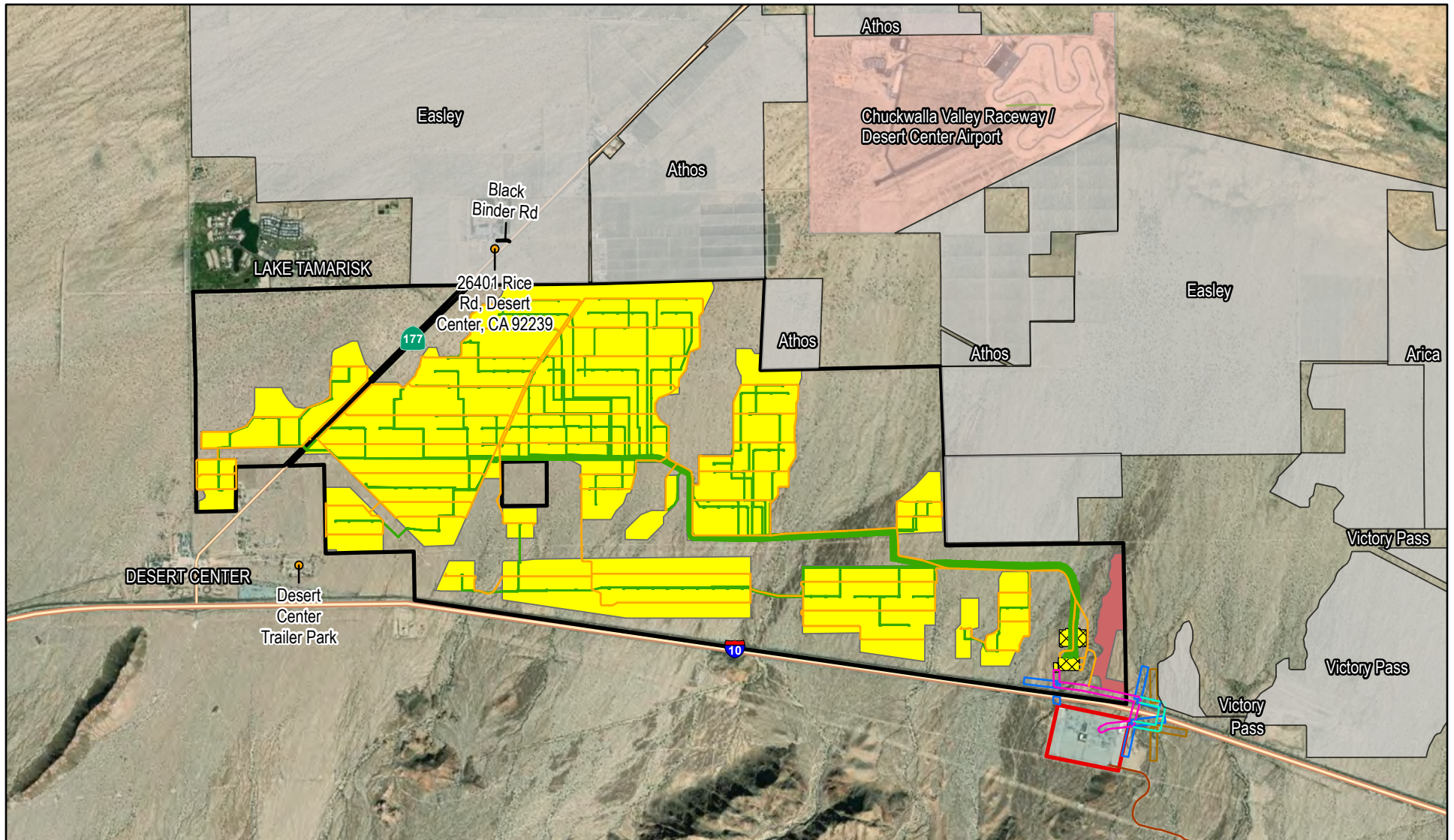


Source: BRTR, 2021



Figure 3.4-10

Wildlife Connectivity



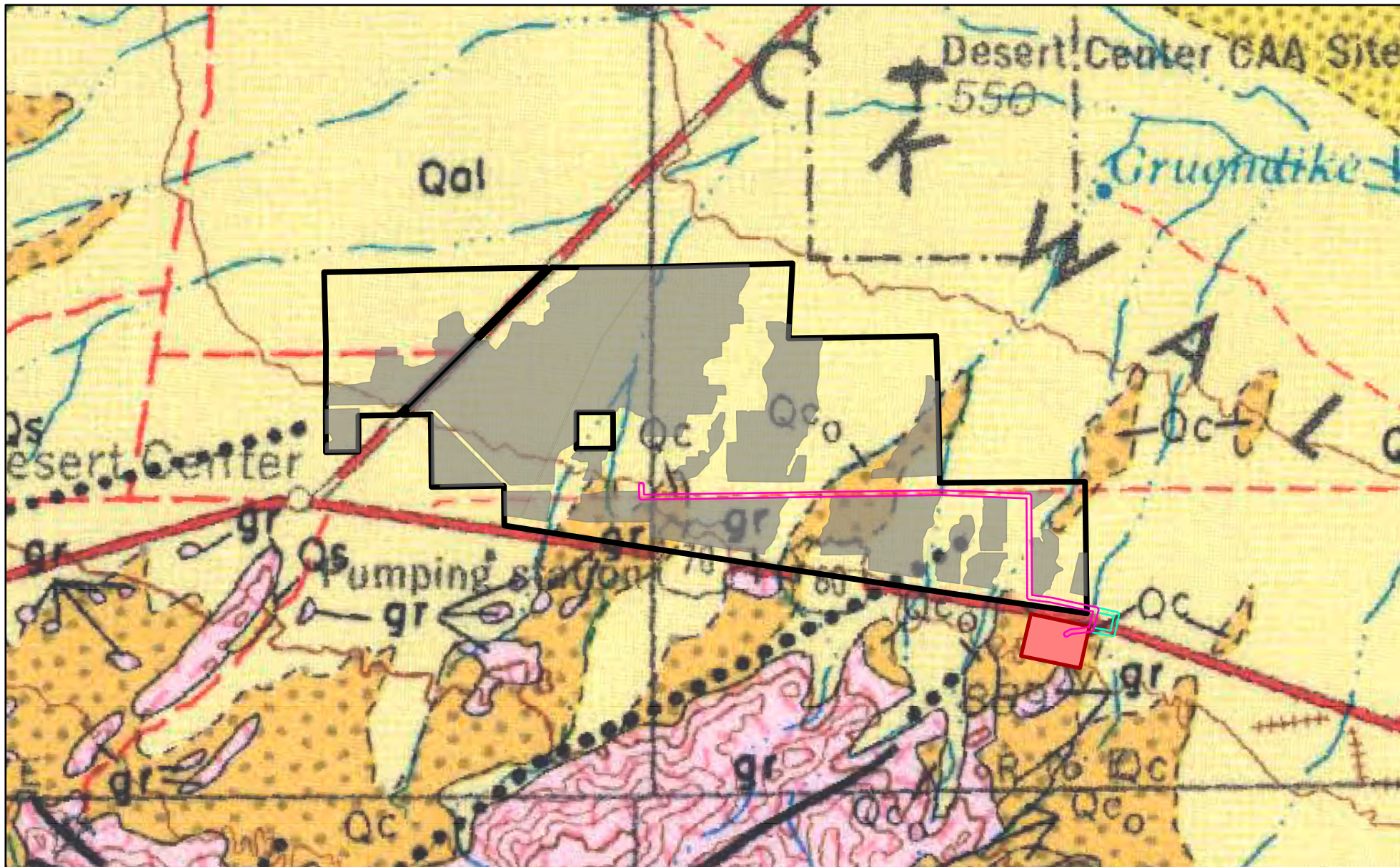
- Nearest Sensitive Receptors
- Adjacent solar projects
- Chuckwalla Valley Raceway / Desert Center Airport
- Gen-tie Access Road
- 34.5 kV MVAC Lines
- 500-kV Gen-tie Line Option (based on final negotiations with SCE and ROW holders)
- Proposed 500-kV Gen-tie Line Corridor
- Pull Tensioning Area
- Optional Pull Tensioning Area
- Project Boundary
- Substation and BESS Area
- Eagle Crest Gen-tie Line
- Fenced Solar Array
- Existing SCE Red Bluff Substation
- Roads

0 0.5 1 Miles

Figure 3.12-1

Noise Sources and Sensitive Receptors

Sources: Aspen, 2021; Intersect Power, 2021; Westwood, 2021; Esri, 2021.



Source: Jennings, 1967



0 0.5 1 Miles






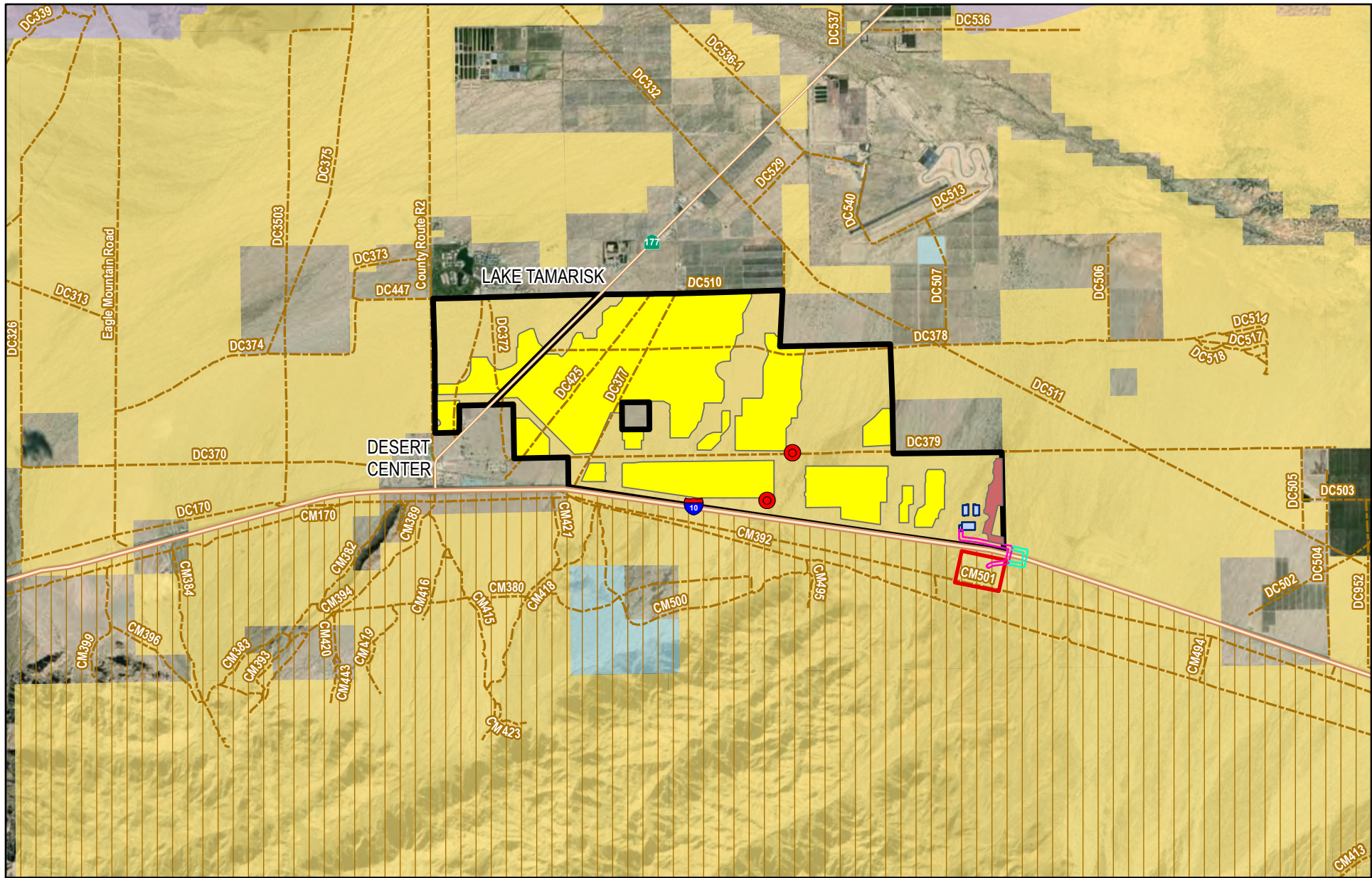
-  Project Boundary
-  Proposed Development Areas
-  Proposed 500-kV Gen-tie Line Corridor
-  500-kV Gen-tie Line Corridor Option (based on final negotiations with SCE and ROW holders)
-  Existing Red Bluff Substation

Figure 3.13-1

Geologic Units: Jennings 1967



▬ Oberon Project Boundary

■ Fenced Solar Array

■ Eagle Crest Gen-tie Line

▬ Proposed 500-kV Gen-tie Line Corridor

▬ 500-kV Gen-tie Line Corridor Option (based on final negotiations with SCE and ROW holders)

■ Proposed Substation and BESS Area

▭ Existing SCE Red Bluff Substation

● Modern Fire Ring

▬ BLM Open OHV Route

▭ Special Recreation Management Area

Land Ownership

■ Bureau of Land Management

■ National Park Service

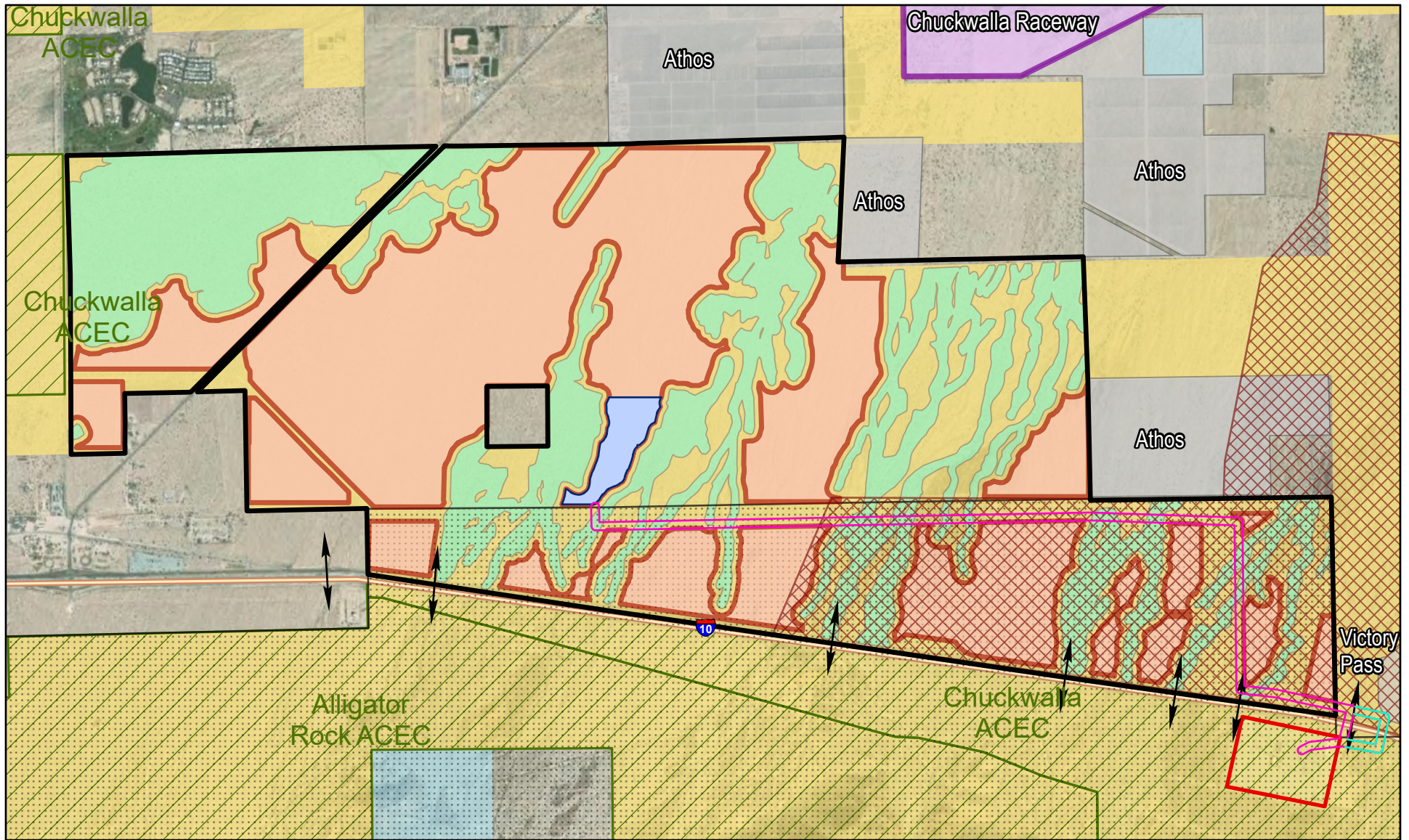
■ State



0 0.5 1 Miles

Figure 3.16-1

BLM OHV Routes



- | | |
|--|---|
| Project Area | Area of Critical Environmental Concern (ACEC) |
| Adjacent Desert Center Solar Projects | Freeway, Aqueduct, and Railway Underpasses |
| Desert Tortoise Exclusion Fencing | Multispecies Linkage |
| Proposed 500-kV Gen-Tie Line Corridor | Chuckwalla Raceway |
| 500-kV Gen-tie Option (based on final negotiations with SCE and ROW holders) | Desert Tortoise Critical Habitat |
| Alternative Substation and BESS Area | <u>Land Ownership</u> |
| Existing SCE Red Bluff Substation | Bureau of Land Management |
| Desert Dry Wash Woodland (200-foot Buffer) (Ironwood, 2020) | State |

Figure 4-1
Land Use Plan Compliant Alternative

