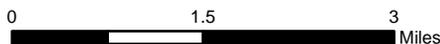
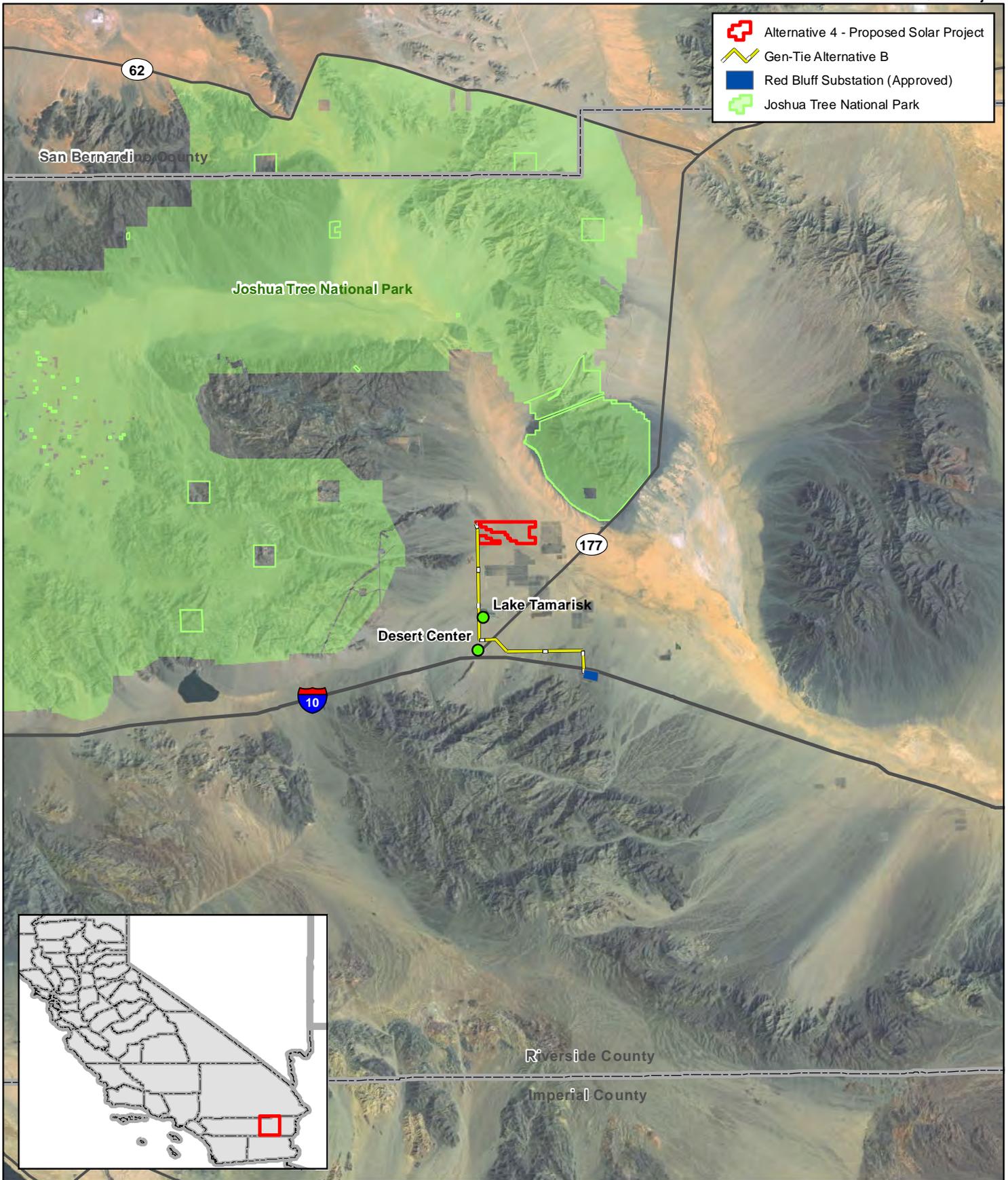


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map

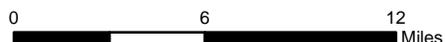


**Figure ES-1**

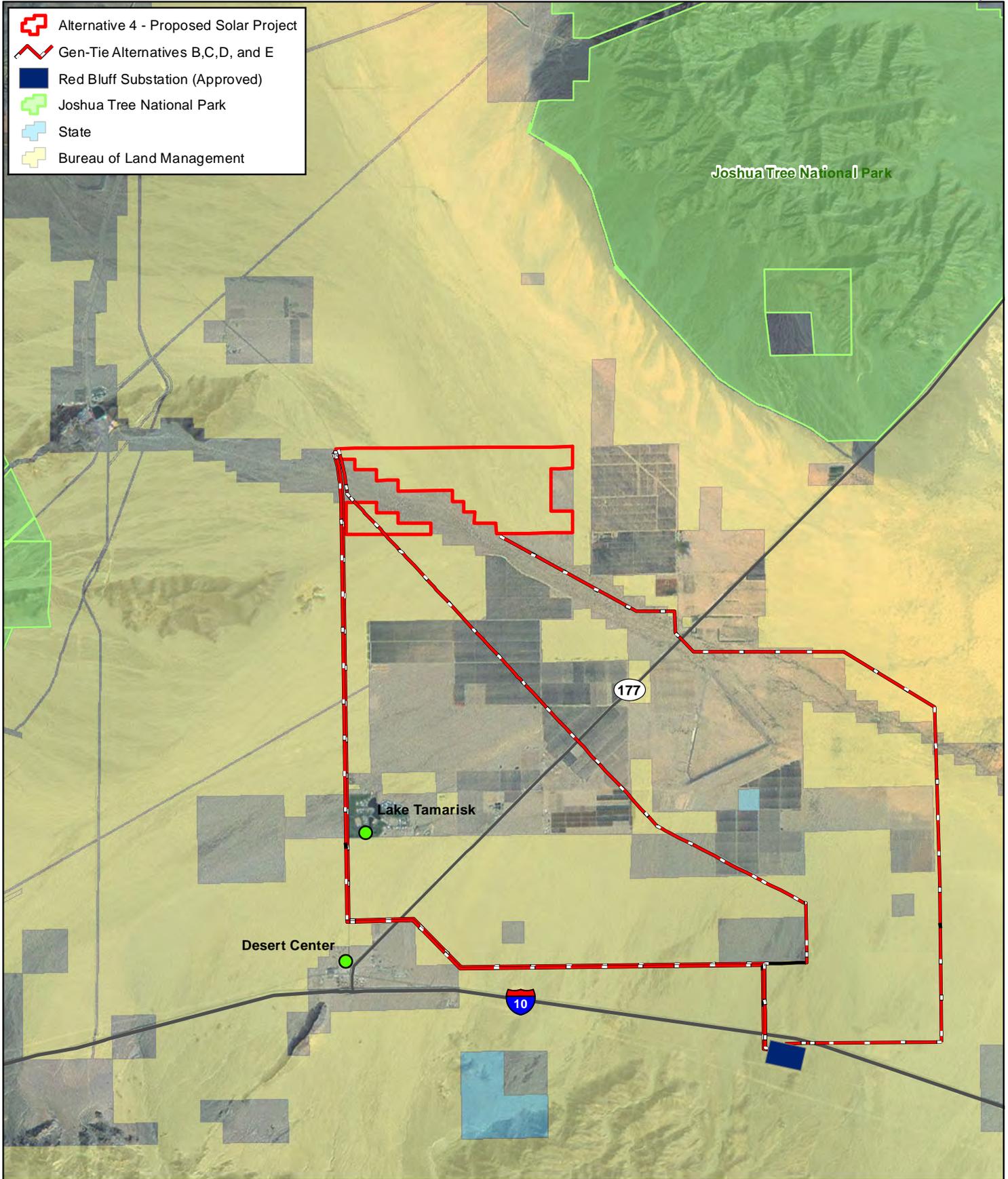
**Proposed Project Layout**



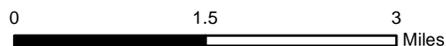
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



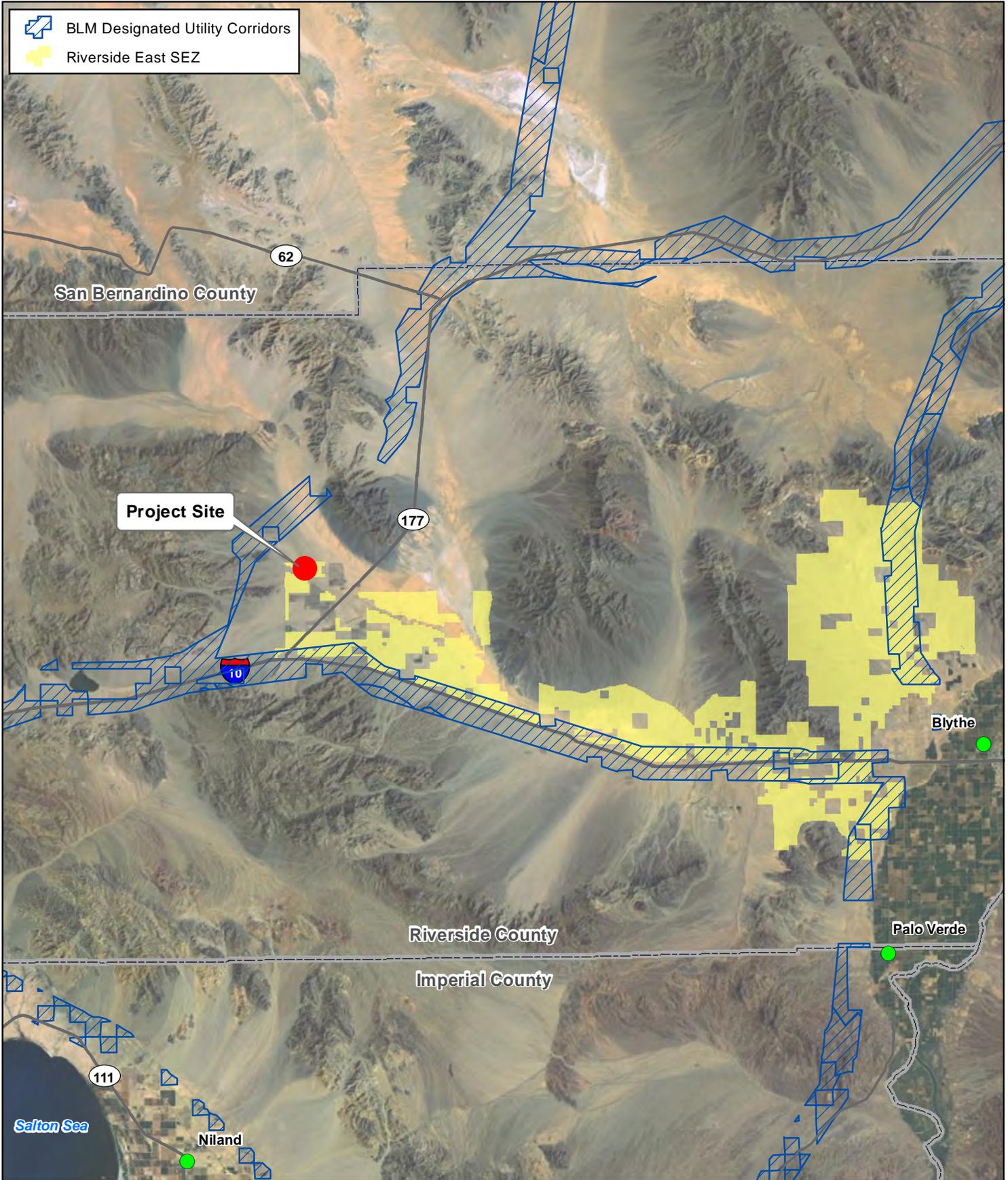
**Figure 1-1**  
**Regional Map**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



**Figure 1-2**  
**Project Study Area**



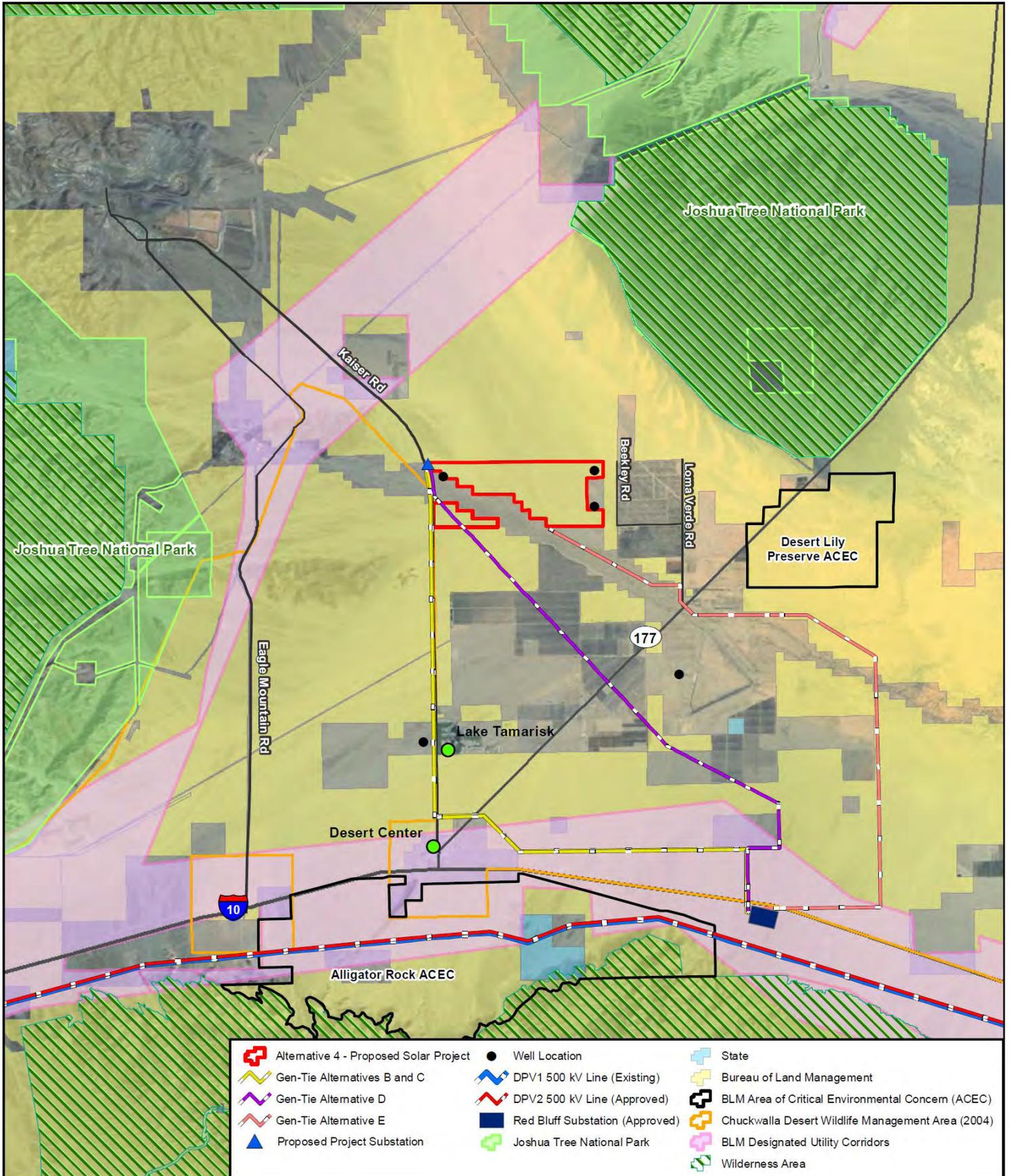
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



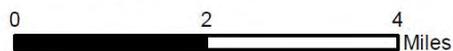
0 5 10  
Miles

**Figure 1-3**

**BLM Solar Energy Study Areas  
in Project Area**

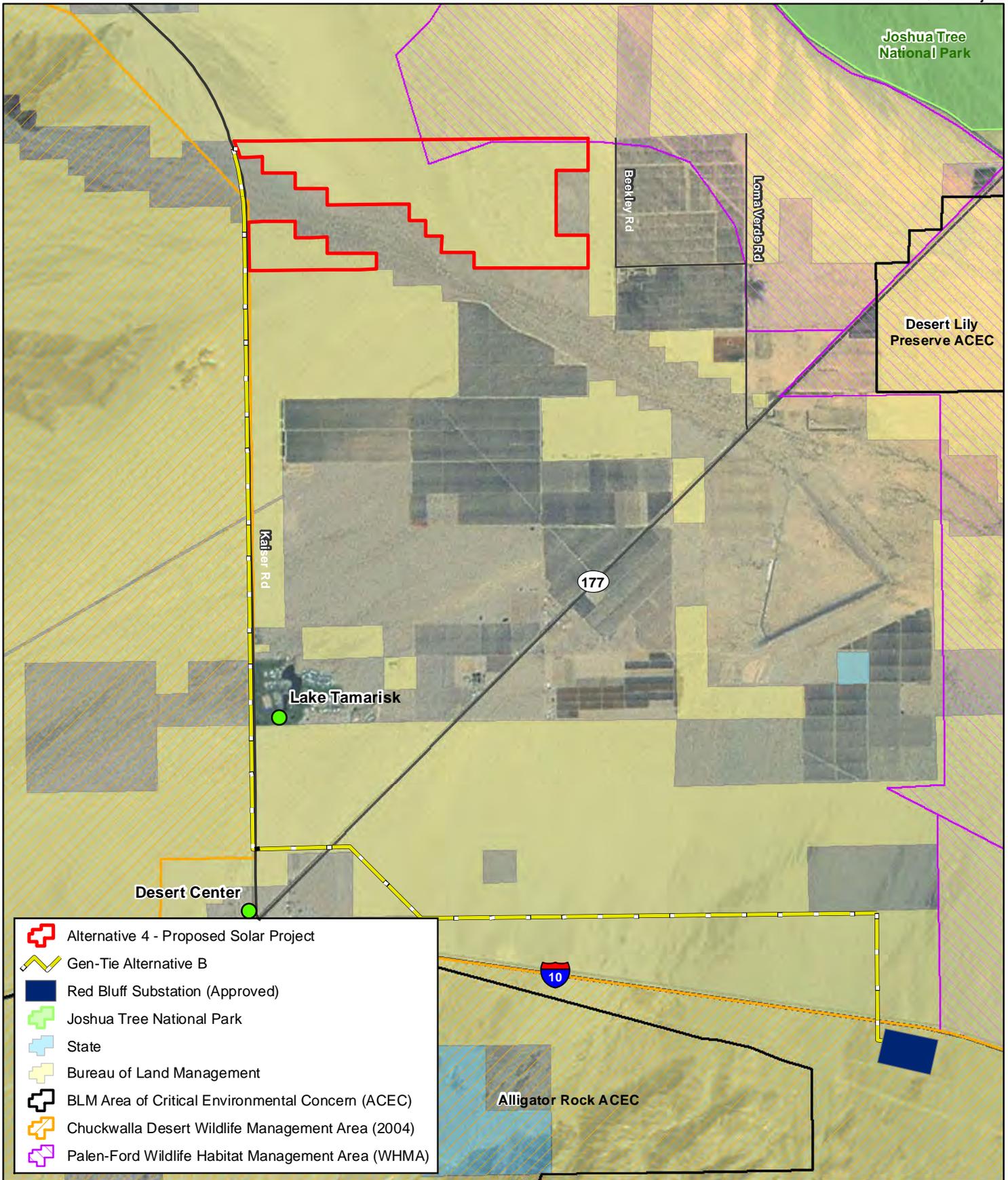


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 2-1**

**Project Overview**

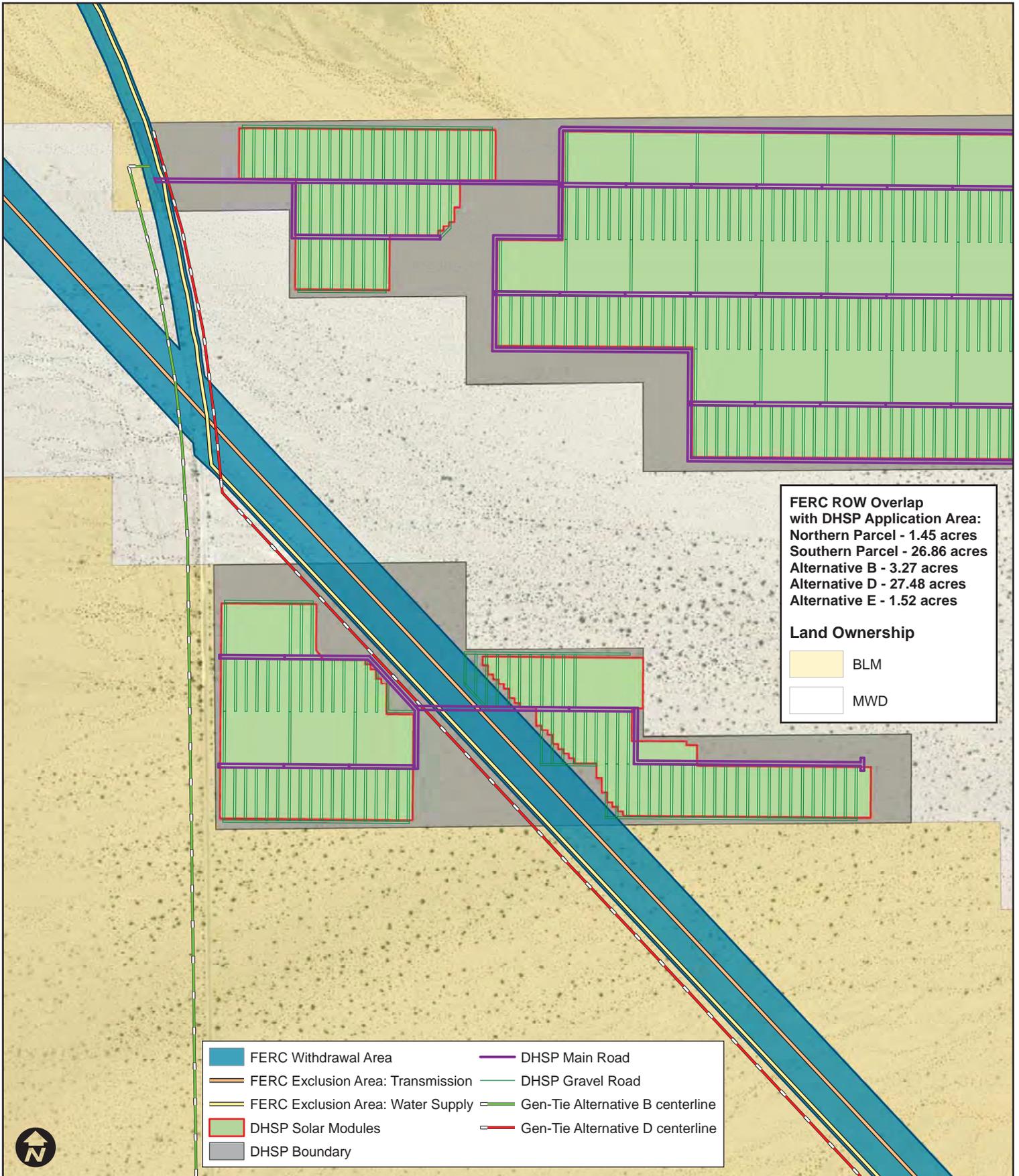


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map

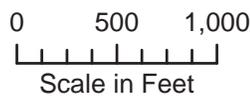


0 0.5 1  
Miles

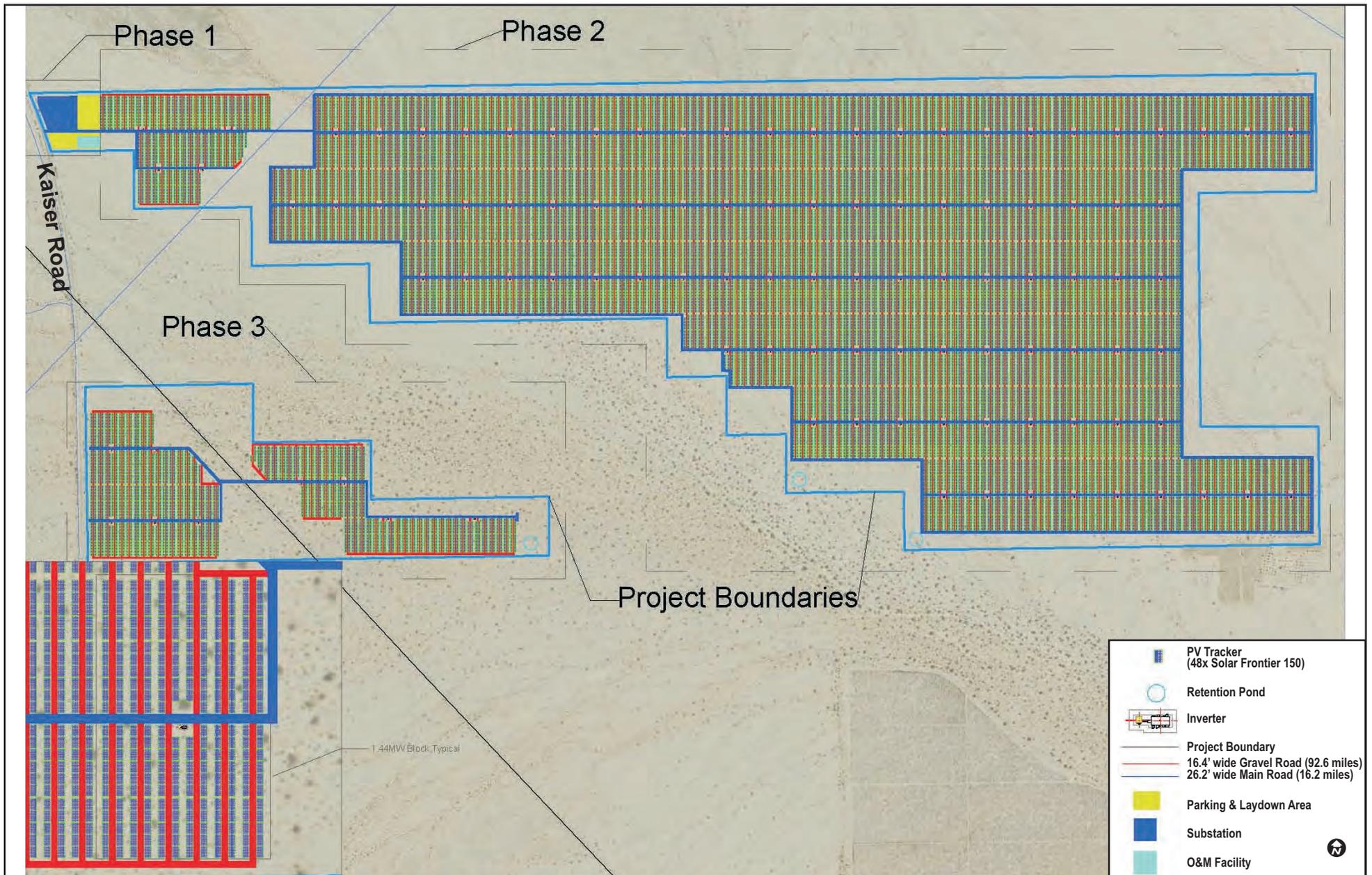
**Figure 2-2**  
**Alternative 4:**  
**Proposed Solar Project**



U.S. DEPARTMENT OF THE INTERIOR  
 Bureau of Land Management  
 California Desert District  
 The Bureau of Land Management makes no warranties,  
 implied or expressed, with respect to  
 information shown on this map



**Figure 2-3a**  
**FERC Withdrawal over the**  
**Desert Harvest Solar Project Site**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

**Figure 2-3b**  
**Alternative 4:**  
**PV Array Layout**

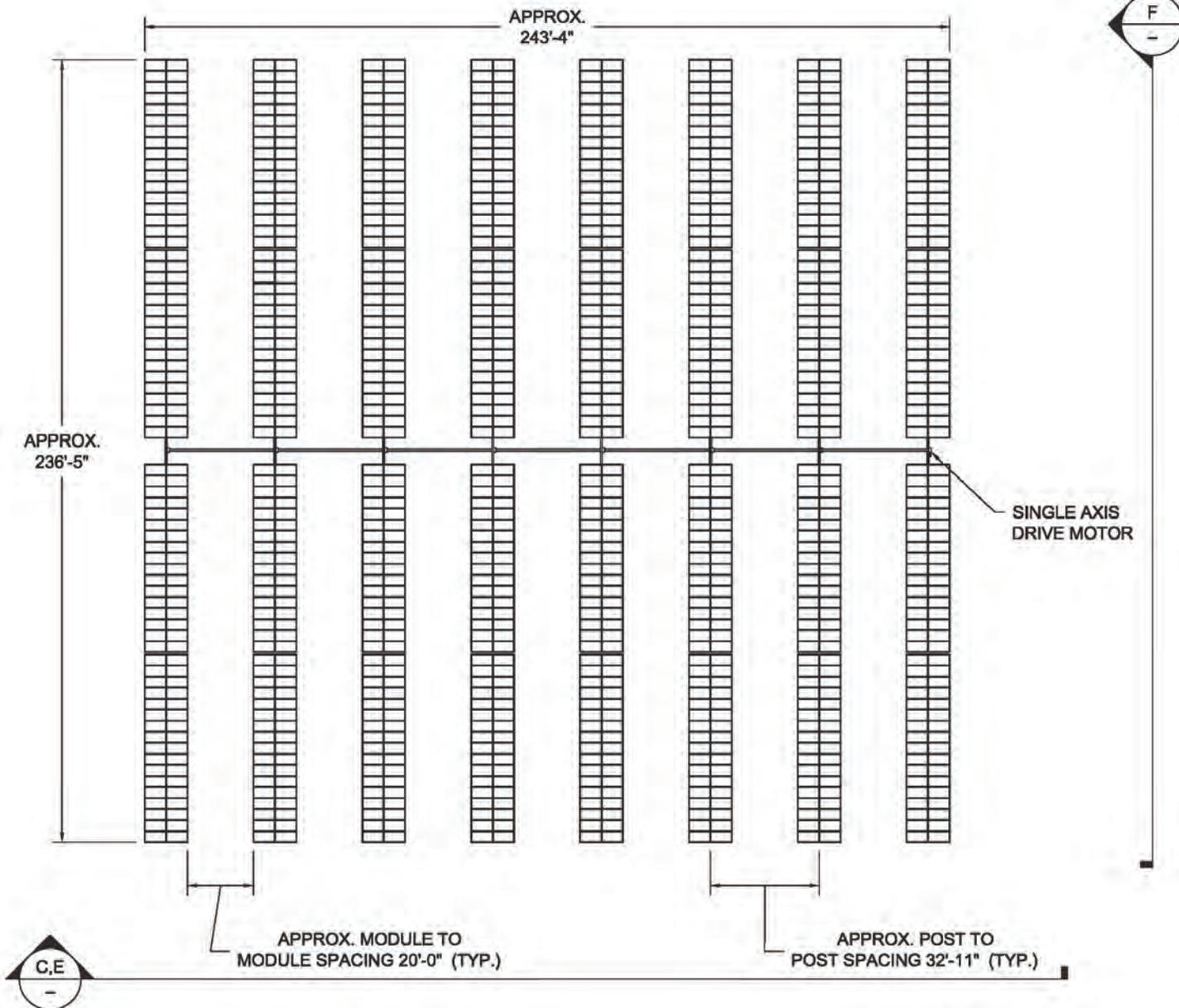


Source: Michael Clayton, 2011.



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

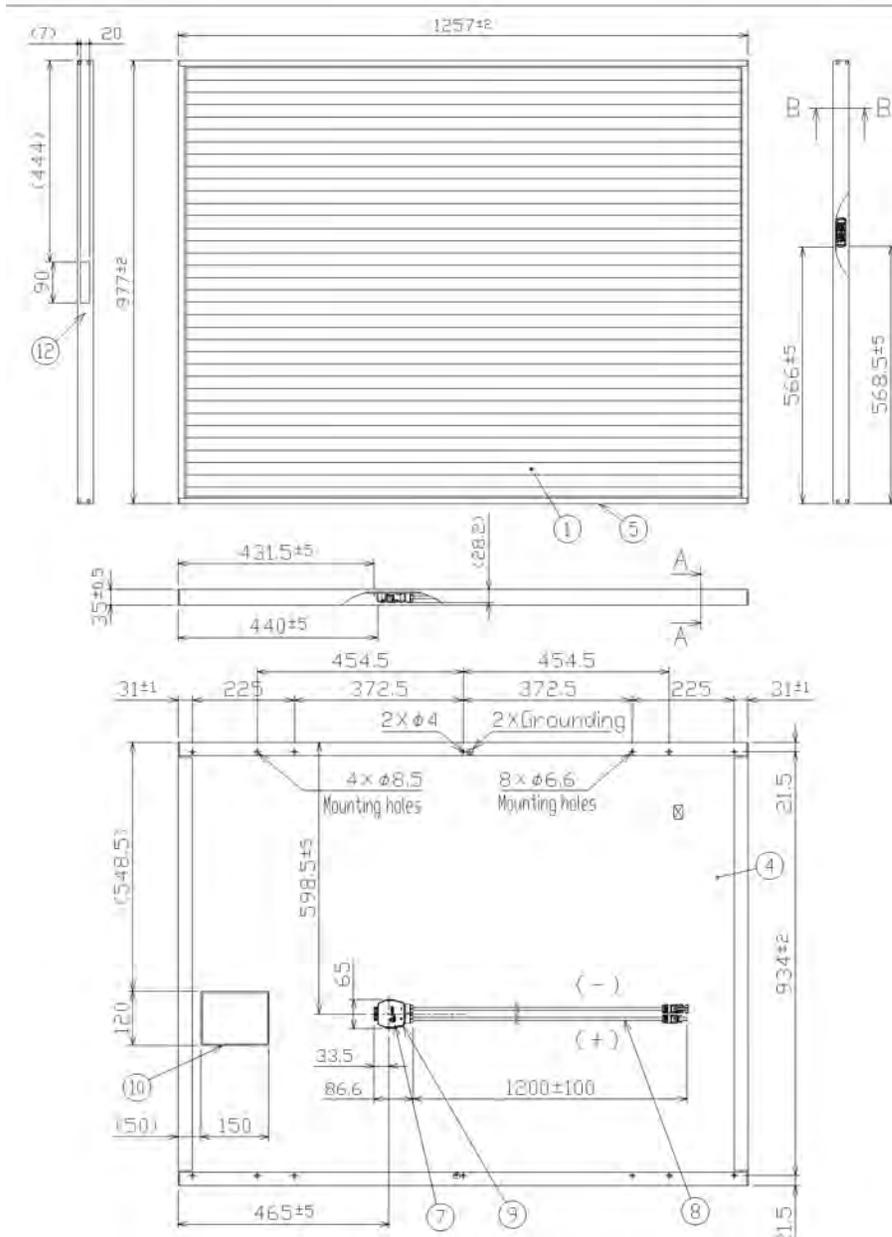
**Figure 2-4**  
**Typical Photovoltaic Array**



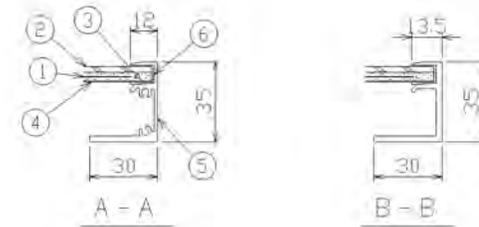
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.



**Figure 2-5**  
**Typical Array Configuration**



NO.	ITEM	QTY	DESCRIPTION
1	Cell	1	DIS (Substrate glass)
2	Cover glass	1	Clear tempered glass
3	Encapsulant		EVA
4	Back sheet		Weatherproof plastic film / Color: Black
5	Frame	1SET	Anodized aluminum alloy / Color: Black
6	Edge sealant		Butyl
7	Junction Box	1	With Bypass diode
8	Cable		25mm <sup>2</sup> /AWG14 (with waterproof and locking type connector)
9	Adhesive		Silicone
10	Label	1	Product label
11	Screw	8	Stainless tapping (SUS304J3)
12	Bar Code label	1	Serial number



1) Tolerances ISO 2768-1-C

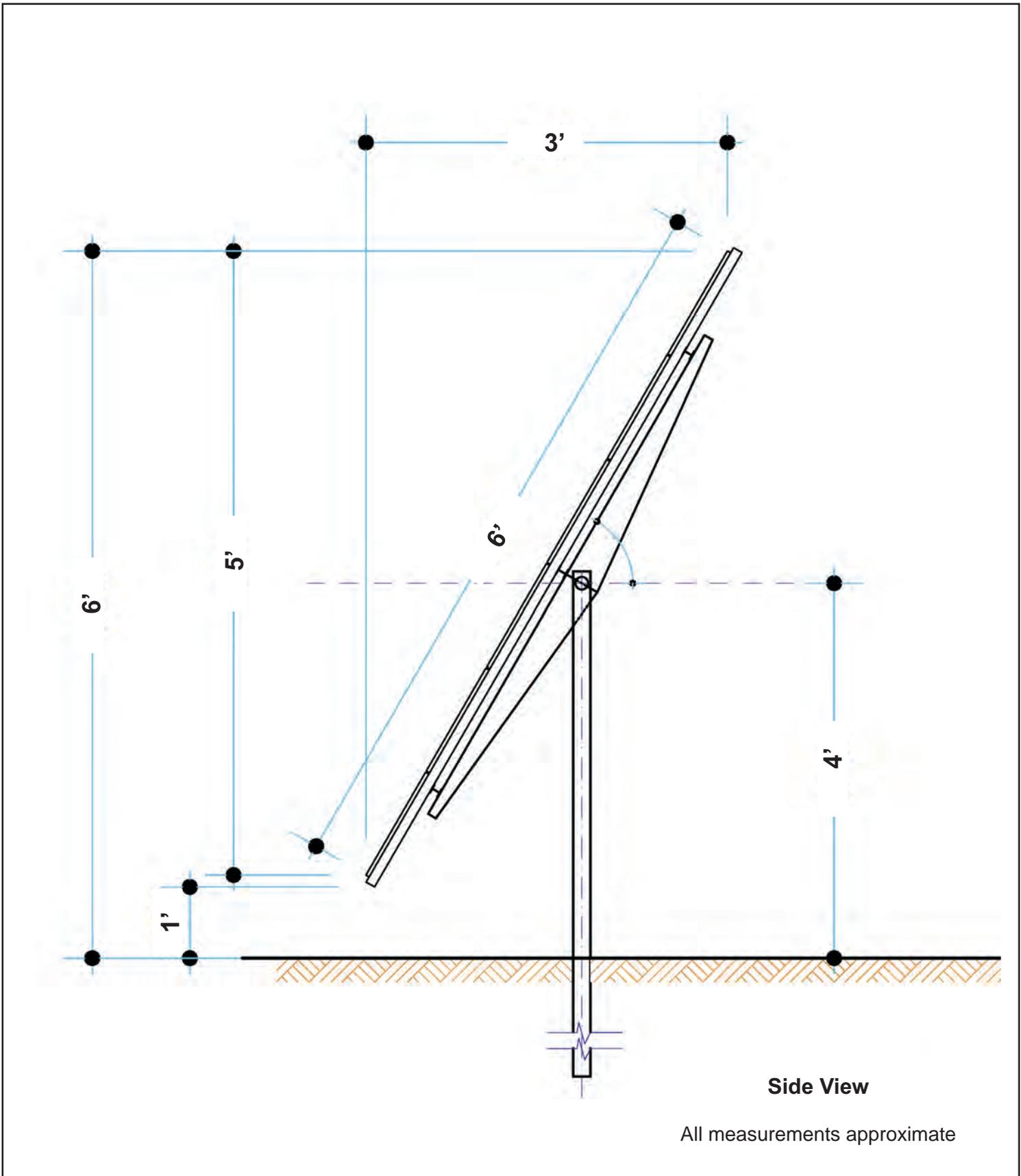
0,5~3	±0,2	~400	±1,2
~6	±0,3	~1000	±2
~30	±0,5	~2000	±3
~120	±0,8		Unit:mm

2) { } value: Reference value



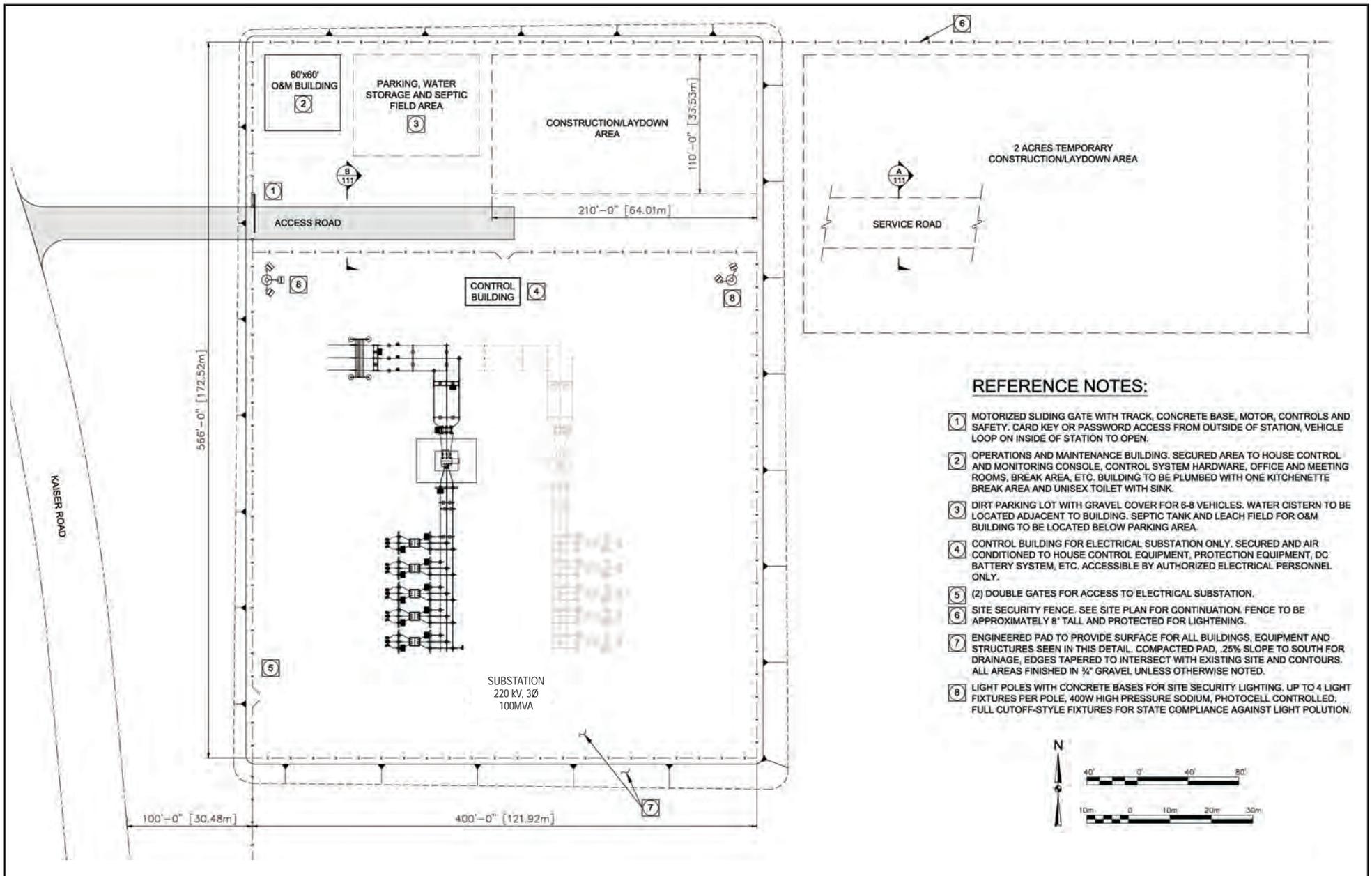
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

**Figure 2-6**  
**Typical Module Specifications**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

**Figure 2-7**  
**Typical Low-Profile  
Tracker Specifications**



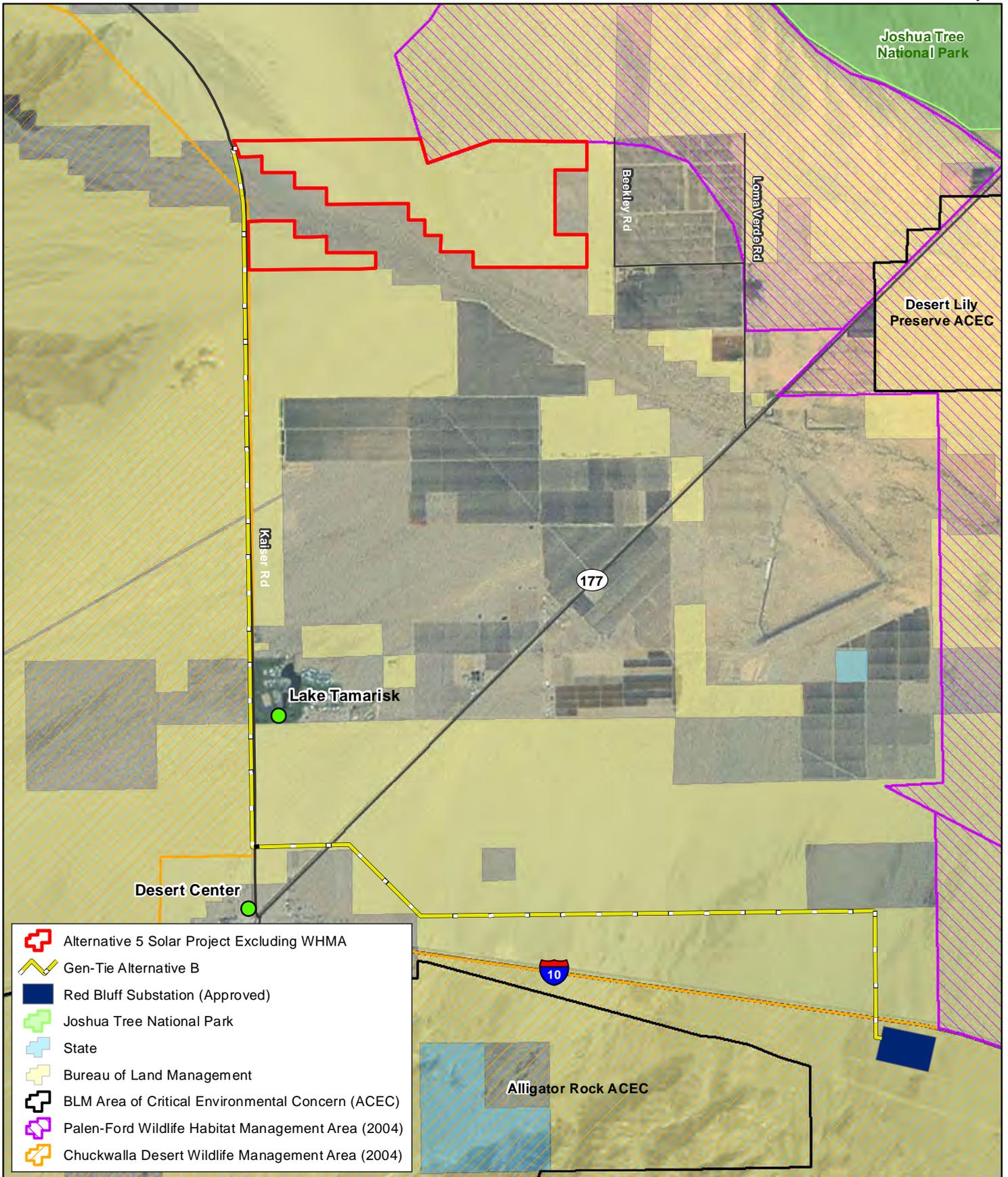
**REFERENCE NOTES:**

- ① MOTORIZED SLIDING GATE WITH TRACK, CONCRETE BASE, MOTOR, CONTROLS AND SAFETY. CARD KEY OR PASSWORD ACCESS FROM OUTSIDE OF STATION, VEHICLE LOOP ON INSIDE OF STATION TO OPEN.
- ② OPERATIONS AND MAINTENANCE BUILDING. SECURED AREA TO HOUSE CONTROL AND MONITORING CONSOLE, CONTROL SYSTEM HARDWARE, OFFICE AND MEETING ROOMS, BREAK AREA, ETC. BUILDING TO BE PLUMBED WITH ONE KITCHENETTE BREAK AREA AND UNISEX TOILET WITH SINK.
- ③ DIRT PARKING LOT WITH GRAVEL COVER FOR 6-8 VEHICLES. WATER CISTERN TO BE LOCATED ADJACENT TO BUILDING. SEPTIC TANK AND LEACH FIELD FOR O&M BUILDING TO BE LOCATED BELOW PARKING AREA.
- ④ CONTROL BUILDING FOR ELECTRICAL SUBSTATION ONLY. SECURED AND AIR CONDITIONED TO HOUSE CONTROL EQUIPMENT, PROTECTION EQUIPMENT, DC BATTERY SYSTEM, ETC. ACCESSIBLE BY AUTHORIZED ELECTRICAL PERSONNEL ONLY.
- ⑤ (2) DOUBLE GATES FOR ACCESS TO ELECTRICAL SUBSTATION.
- ⑥ SITE SECURITY FENCE. SEE SITE PLAN FOR CONTINUATION. FENCE TO BE APPROXIMATELY 8' TALL AND PROTECTED FOR LIGHTENING.
- ⑦ ENGINEERED PAD TO PROVIDE SURFACE FOR ALL BUILDINGS, EQUIPMENT AND STRUCTURES SEEN IN THIS DETAIL. COMPACTED PAD, .25% SLOPE TO SOUTH FOR DRAINAGE, EDGES TAPERED TO INTERSECT WITH EXISTING SITE AND CONTOURS. ALL AREAS FINISHED IN 1/4" GRAVEL UNLESS OTHERWISE NOTED.
- ⑧ LIGHT POLES WITH CONCRETE BASES FOR SITE SECURITY LIGHTING. UP TO 4 LIGHT FIXTURES PER POLE, 400W HIGH PRESSURE SODIUM, PHOTOCELL CONTROLLED. FULL CUTOFF-STYLE FIXTURES FOR STATE COMPLIANCE AGAINST LIGHT POLLUTION.

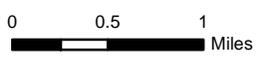


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

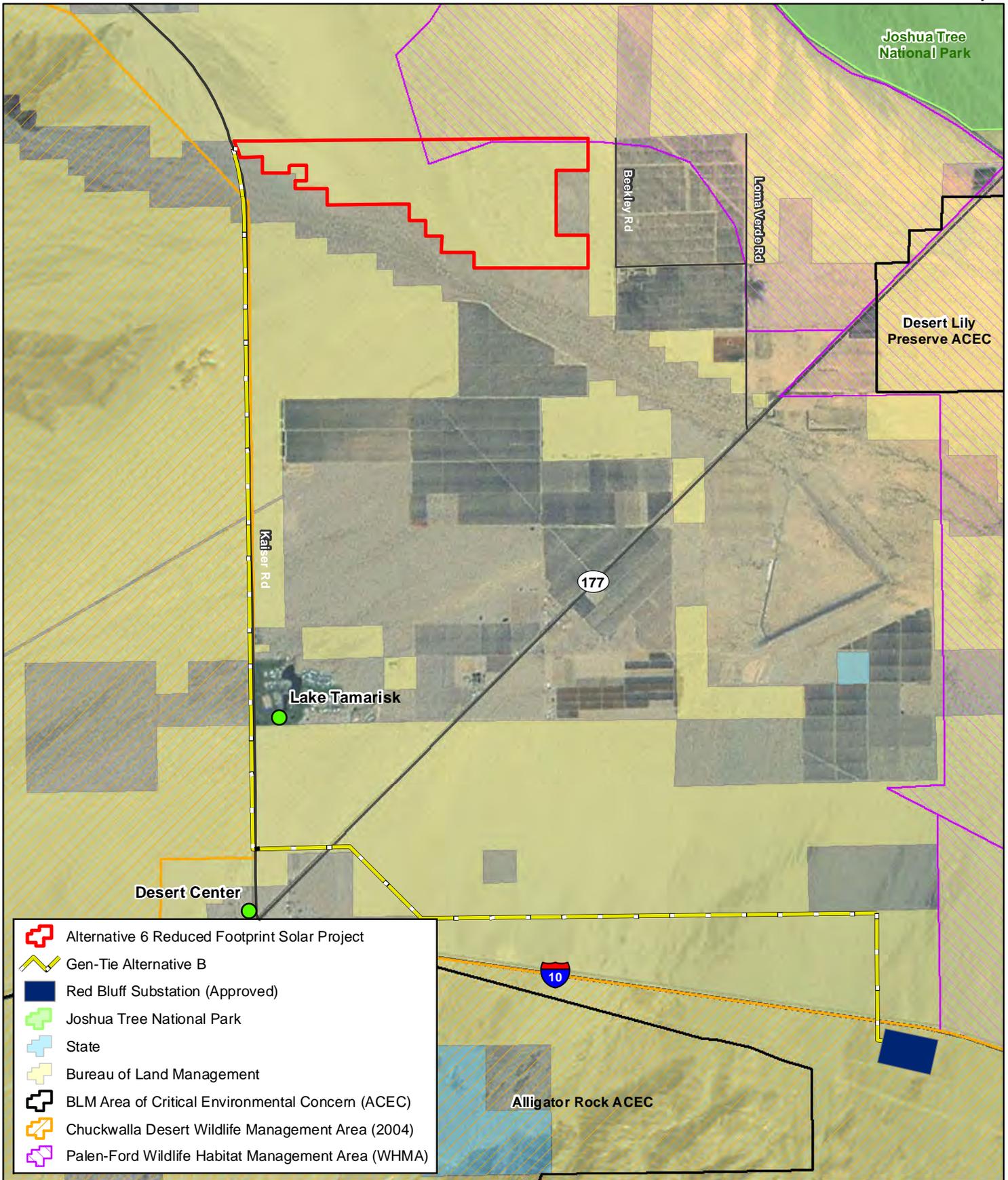
**Figure 2-8**  
**Electrical Plan for On-site Substation**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



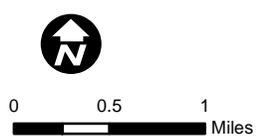
**Figure 2-9**  
**Alternative 5:**  
**Solar Project Excluding WHMA**



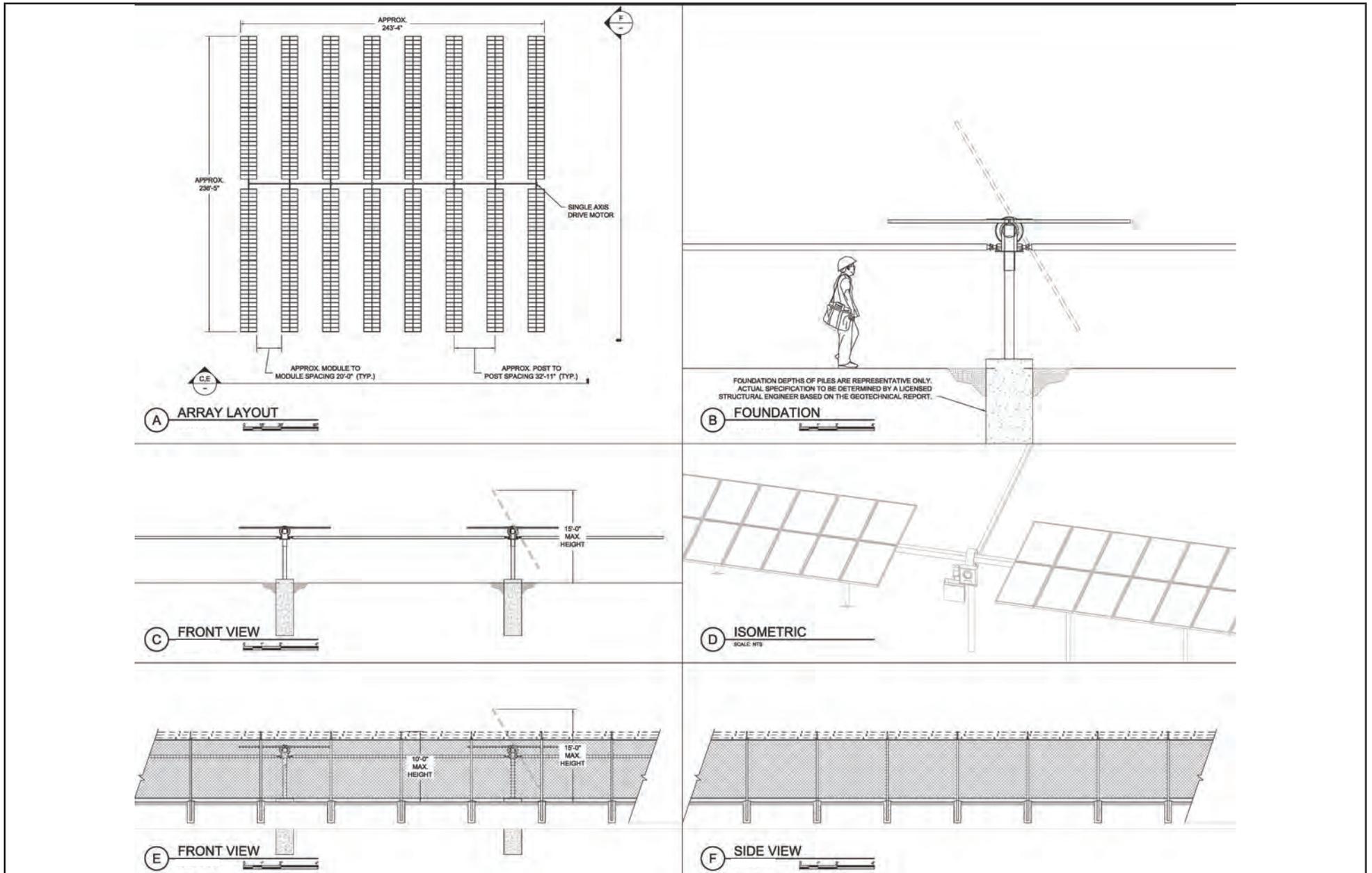
-  Alternative 6 Reduced Footprint Solar Project
-  Gen-Tie Alternative B
-  Red Bluff Substation (Approved)
-  Joshua Tree National Park
-  State
-  Bureau of Land Management
-  BLM Area of Critical Environmental Concern (ACEC)
-  Chuckwalla Desert Wildlife Management Area (2004)
-  Palen-Ford Wildlife Habitat Management Area (WHMA)



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map

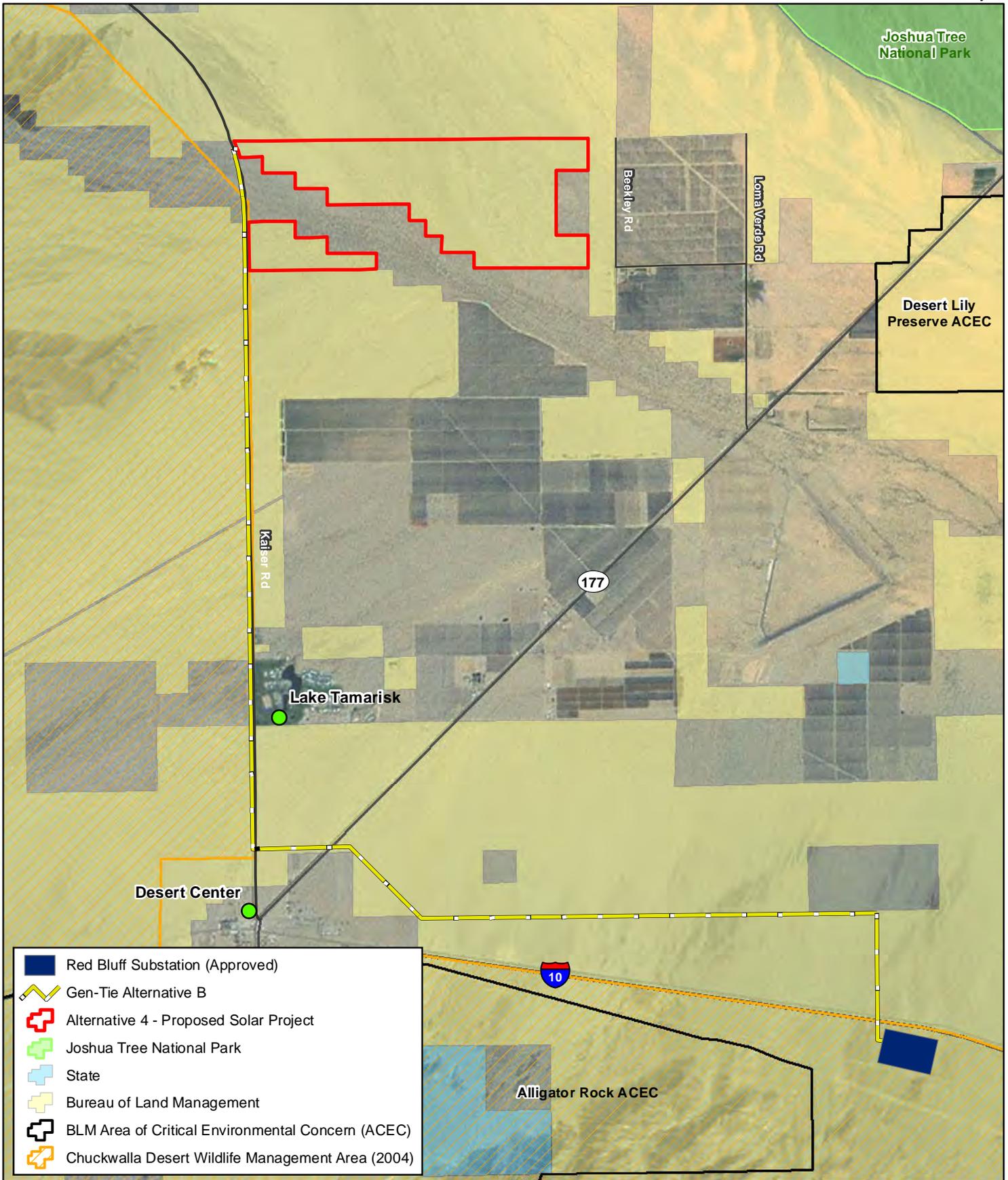


**Figure 2-10**  
**Alternative 6:**  
**Reduced Footprint Solar Project**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

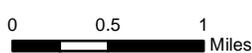
**Figure 2-11**  
**High-Profile 15 Foot Tracking Panel**



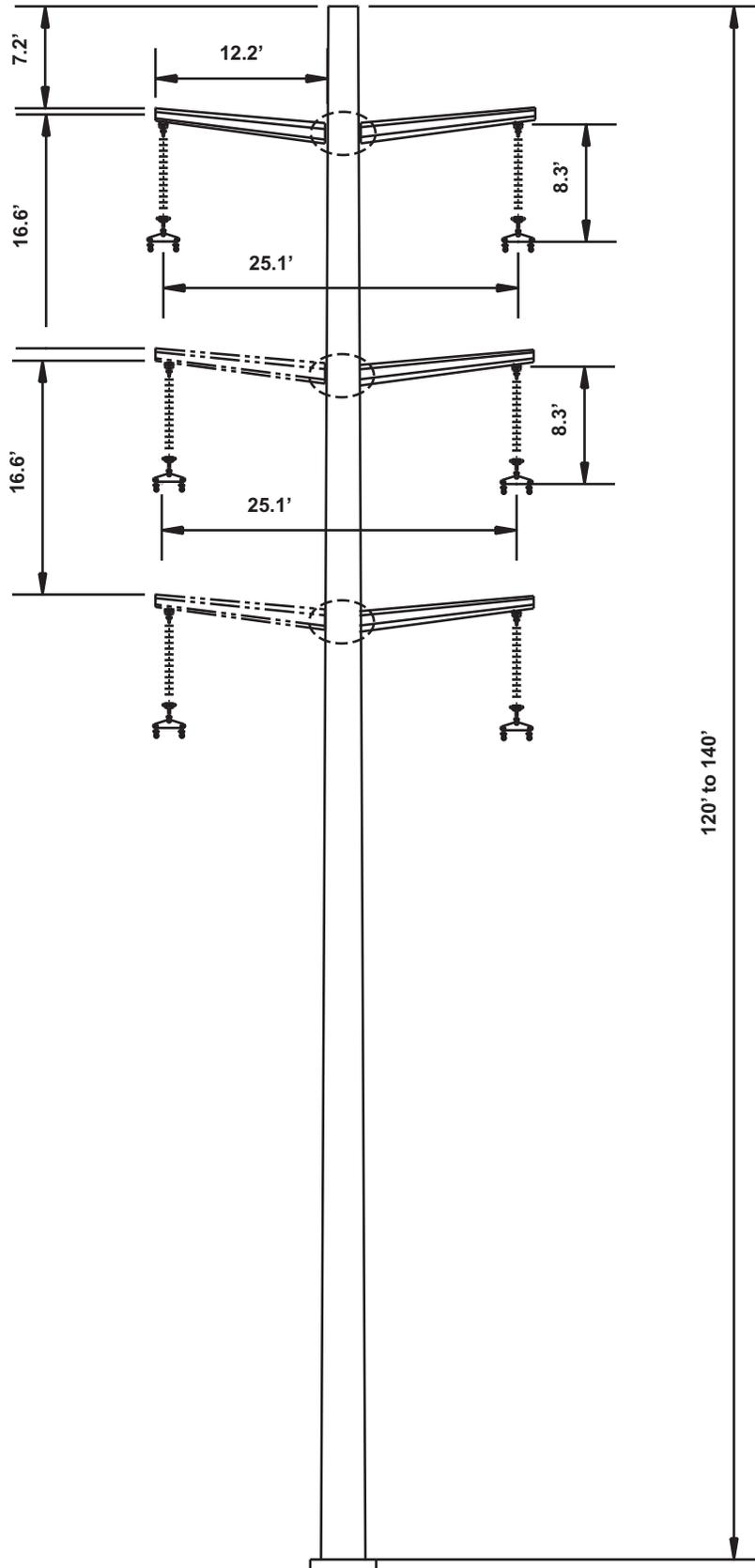
-  Red Bluff Substation (Approved)
-  Gen-Tie Alternative B
-  Alternative 4 - Proposed Solar Project
-  Joshua Tree National Park
-  State
-  Bureau of Land Management
-  BLM Area of Critical Environmental Concern (ACEC)
-  Chuckwalla Desert Wildlife Management Area (2004)



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 2-12**  
**Alternative B:**  
**Proposed Gen-Tie (Shared Towers)**

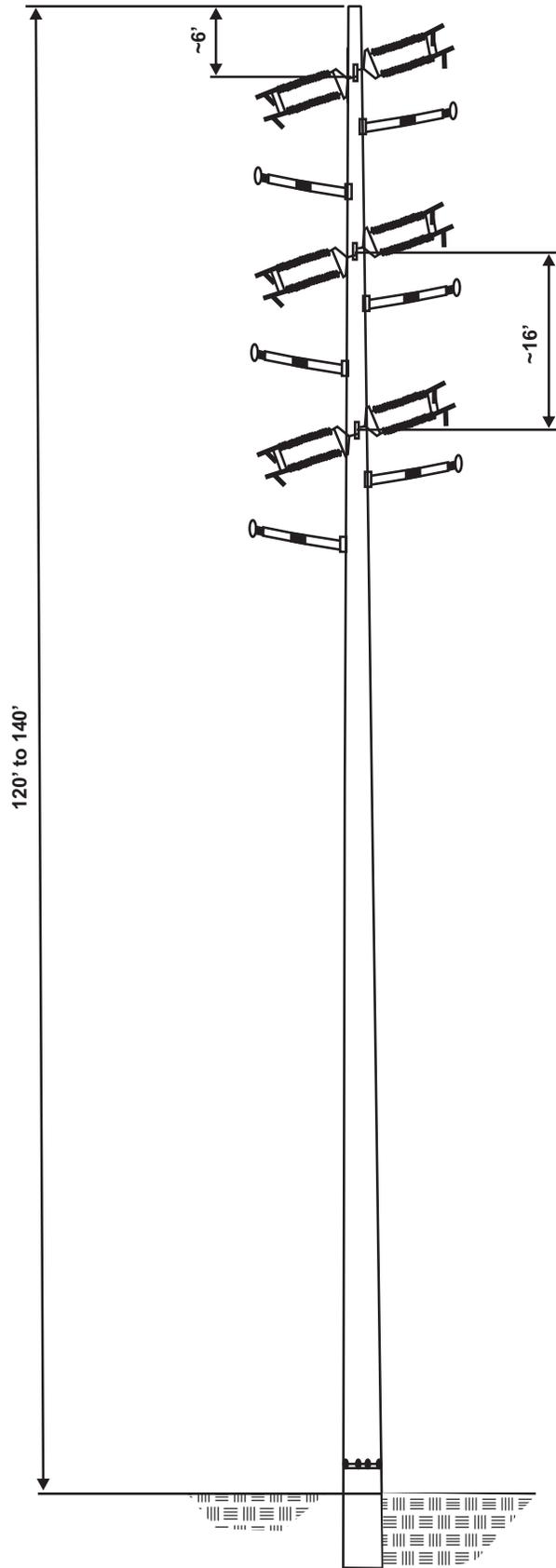


Source: SCE, 2007a.



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

**Figure 2-13a**  
**Typical 220-kV Line Monopole**  
**Double-Circuit Tangent Structure**

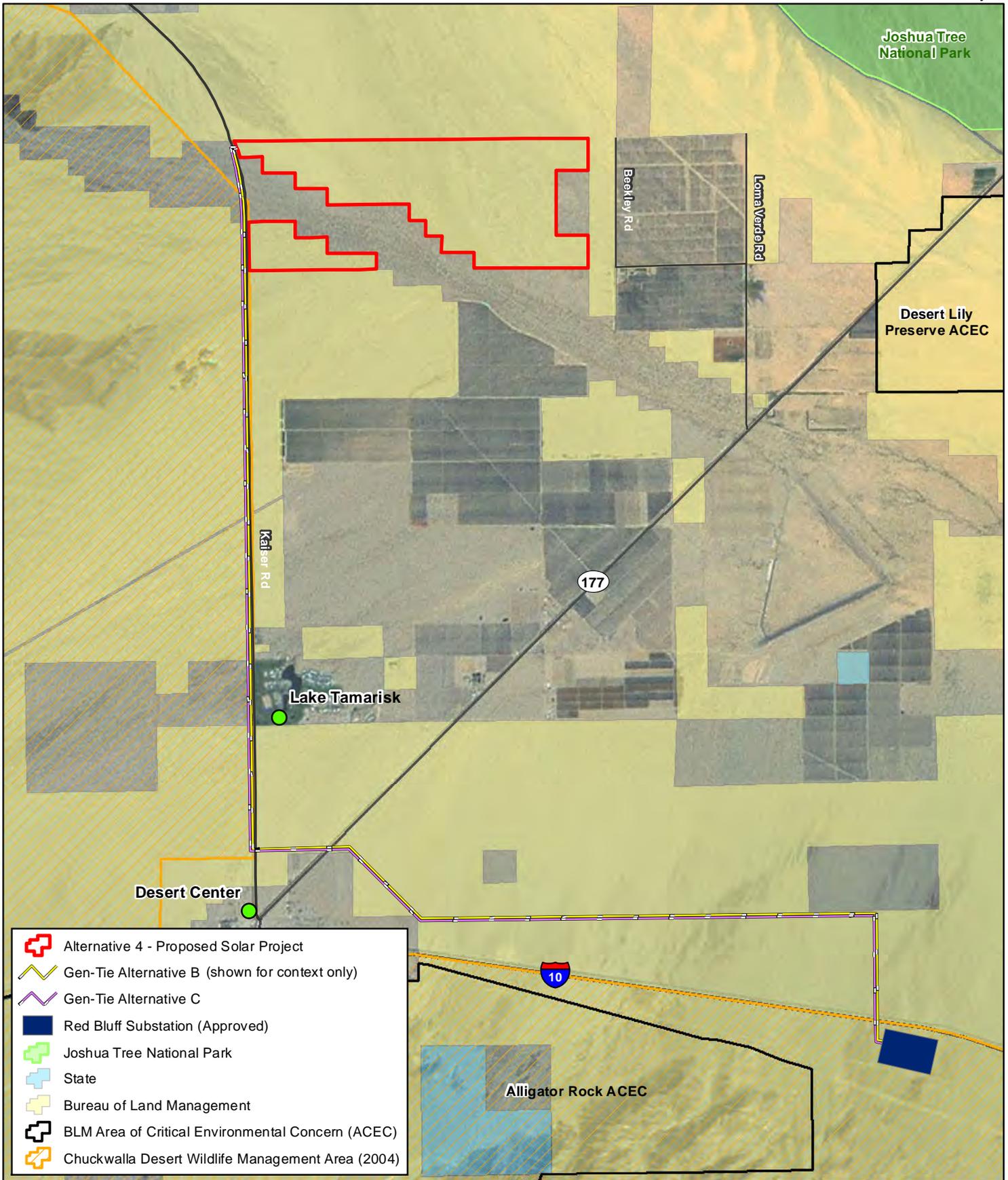


Source: SCE, 2007a.

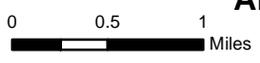


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

**Figure 2-13b**  
**Typical 220-kV Line Monopole  
Double-Circuit Dead End Structure**

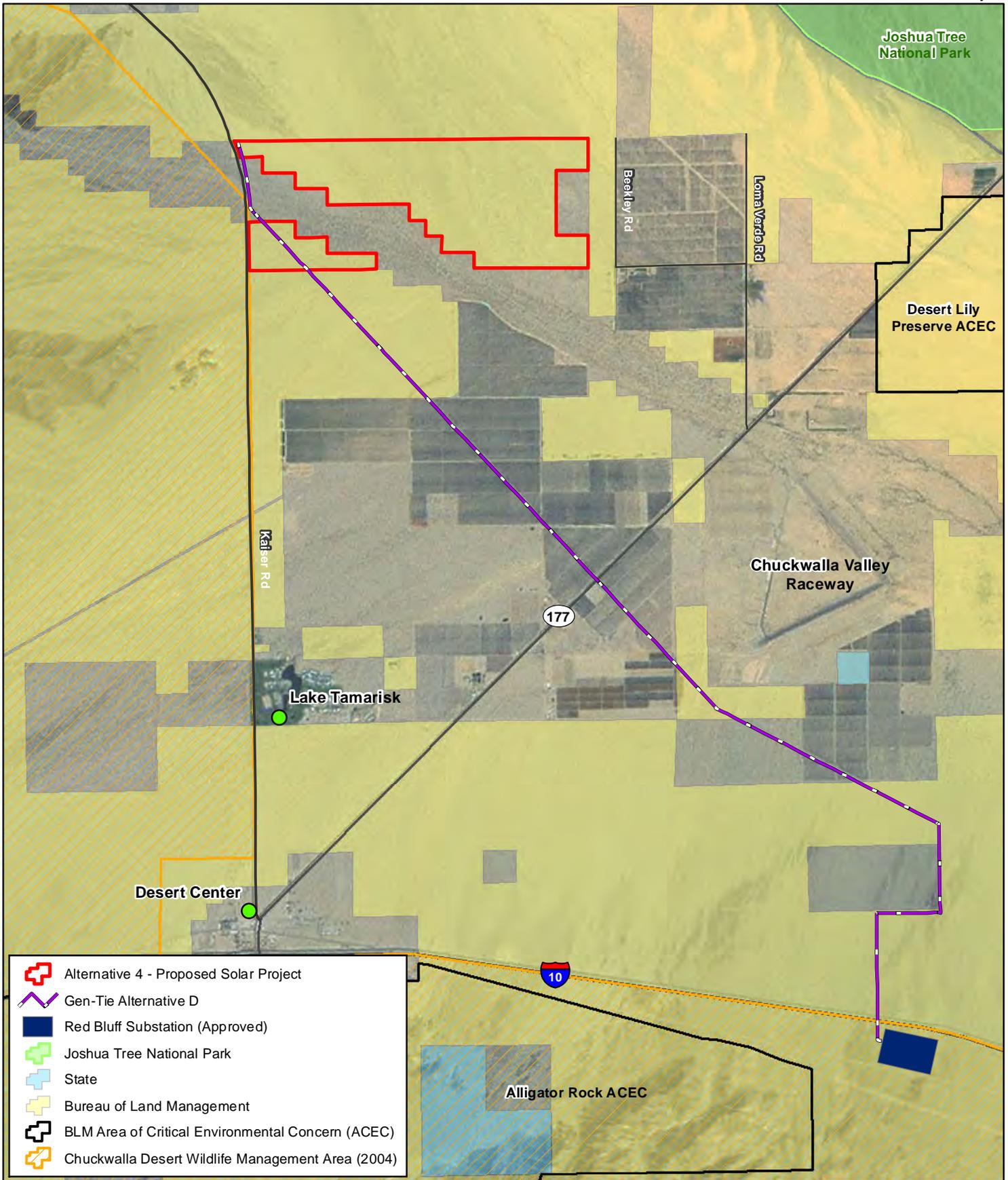


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 2-14**

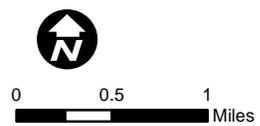
**Alternative C: Separate Transmission Towers Within Same ROW**



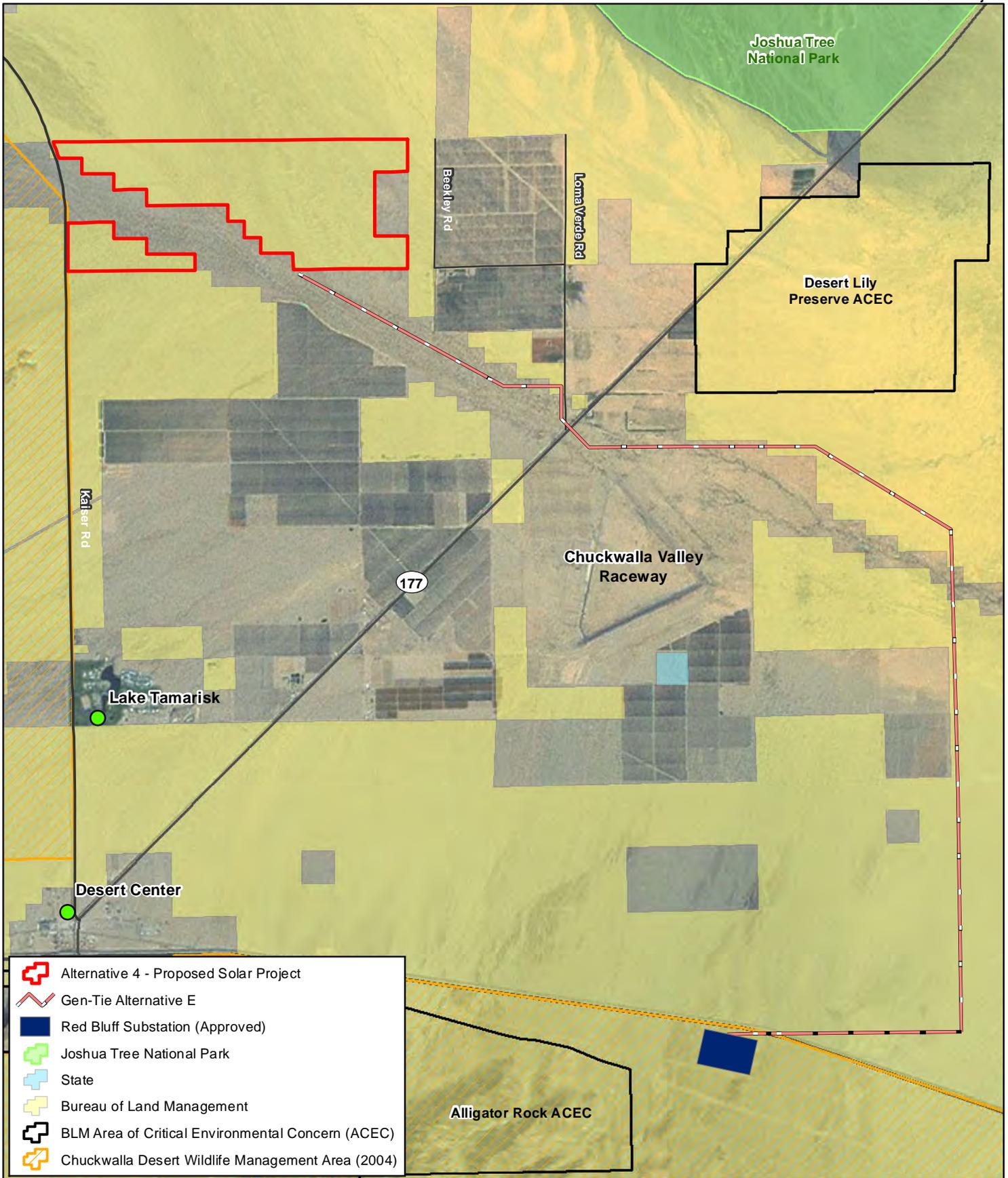
-  Alternative 4 - Proposed Solar Project
-  Gen-Tie Alternative D
-  Red Bluff Substation (Approved)
-  Joshua Tree National Park
-  State
-  Bureau of Land Management
-  BLM Area of Critical Environmental Concern (ACEC)
-  Chuckwalla Desert Wildlife Management Area (2004)



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



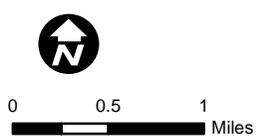
**Figure 2-15**  
**Alternative D:**  
**Cross-Valley Alignment**



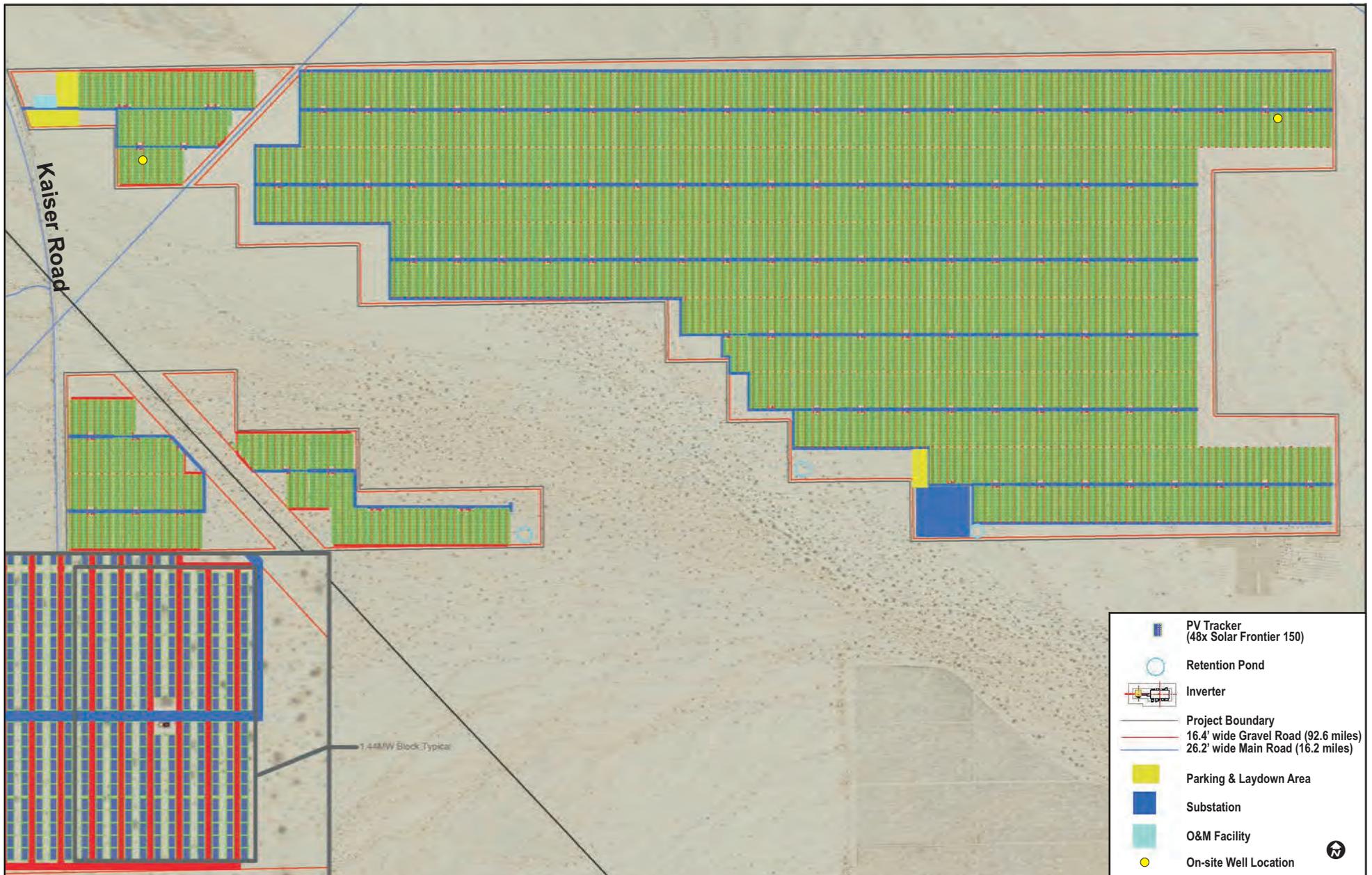
-  Alternative 4 - Proposed Solar Project
-  Gen-Tie Alternative E
-  Red Bluff Substation (Approved)
-  Joshua Tree National Park
-  State
-  Bureau of Land Management
-  BLM Area of Critical Environmental Concern (ACEC)
-  Chuckwalla Desert Wildlife Management Area (2004)



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



**Figure 2-16**  
**Alternative E:**  
**New Cross-Valley Alignment**

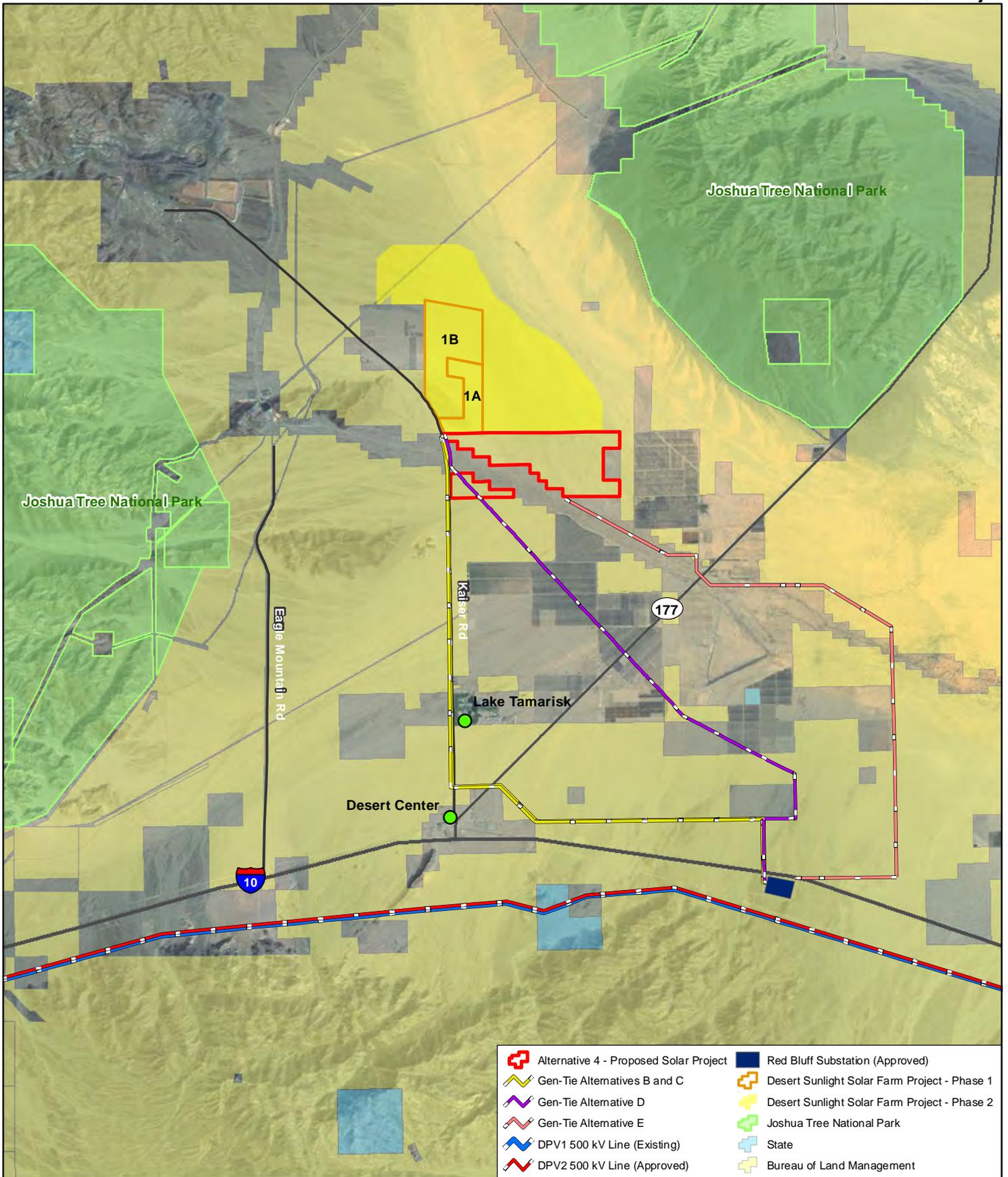


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

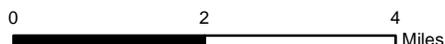
**Figure 2-17**

**Alternative E:**

**New Cross Valley Alignment Substation Location**

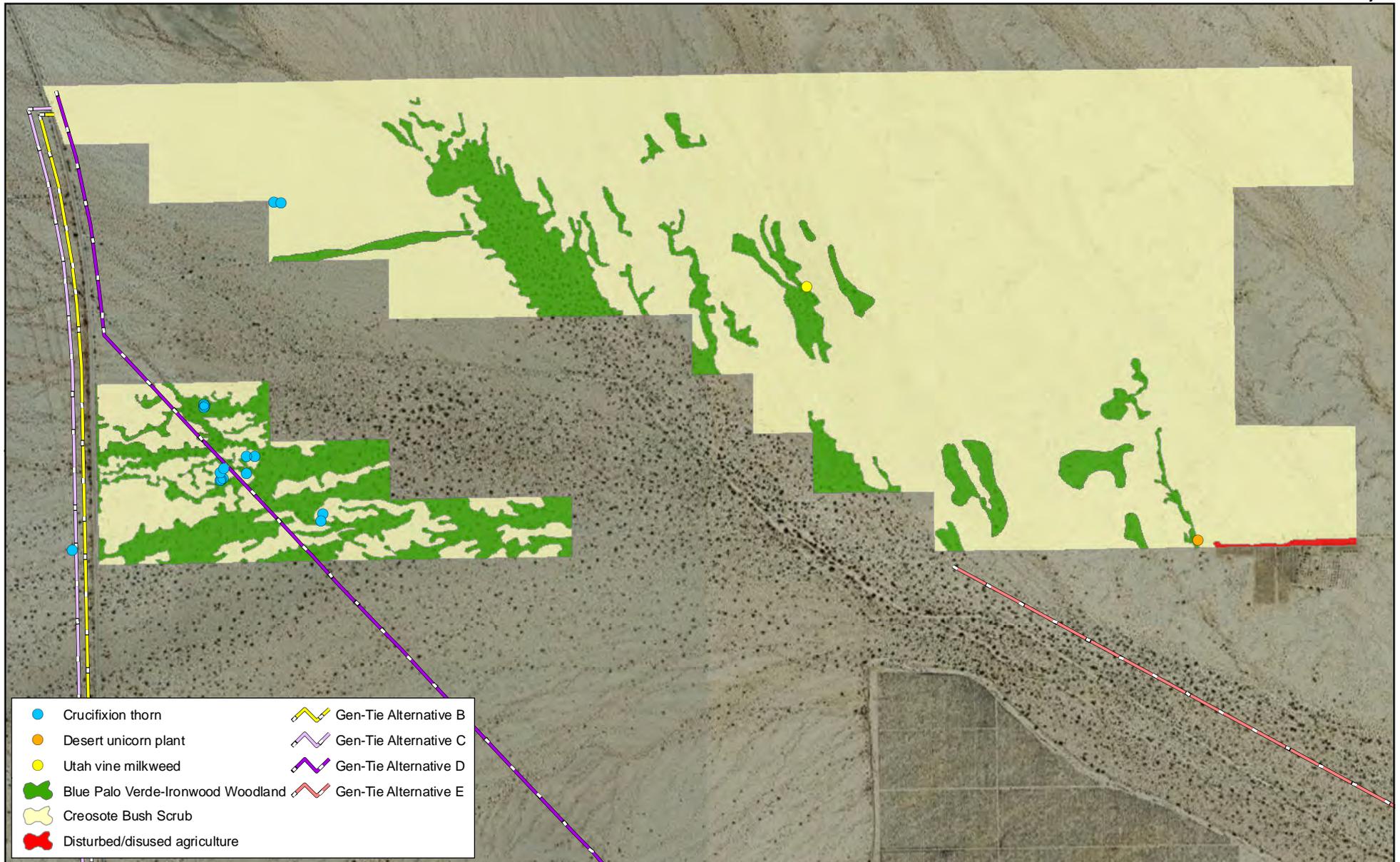


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 3.1-1**

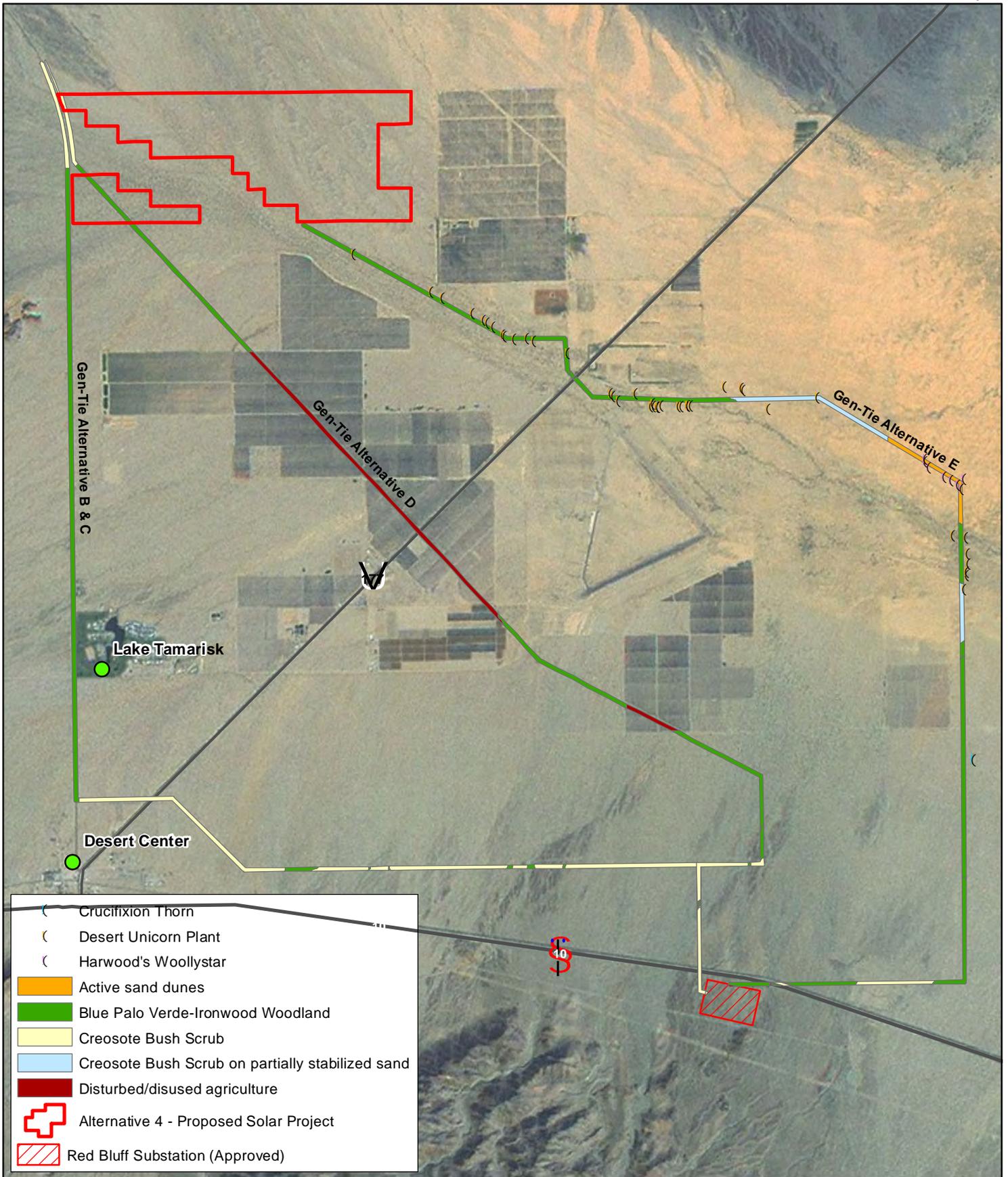
**Project and Vicinity**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



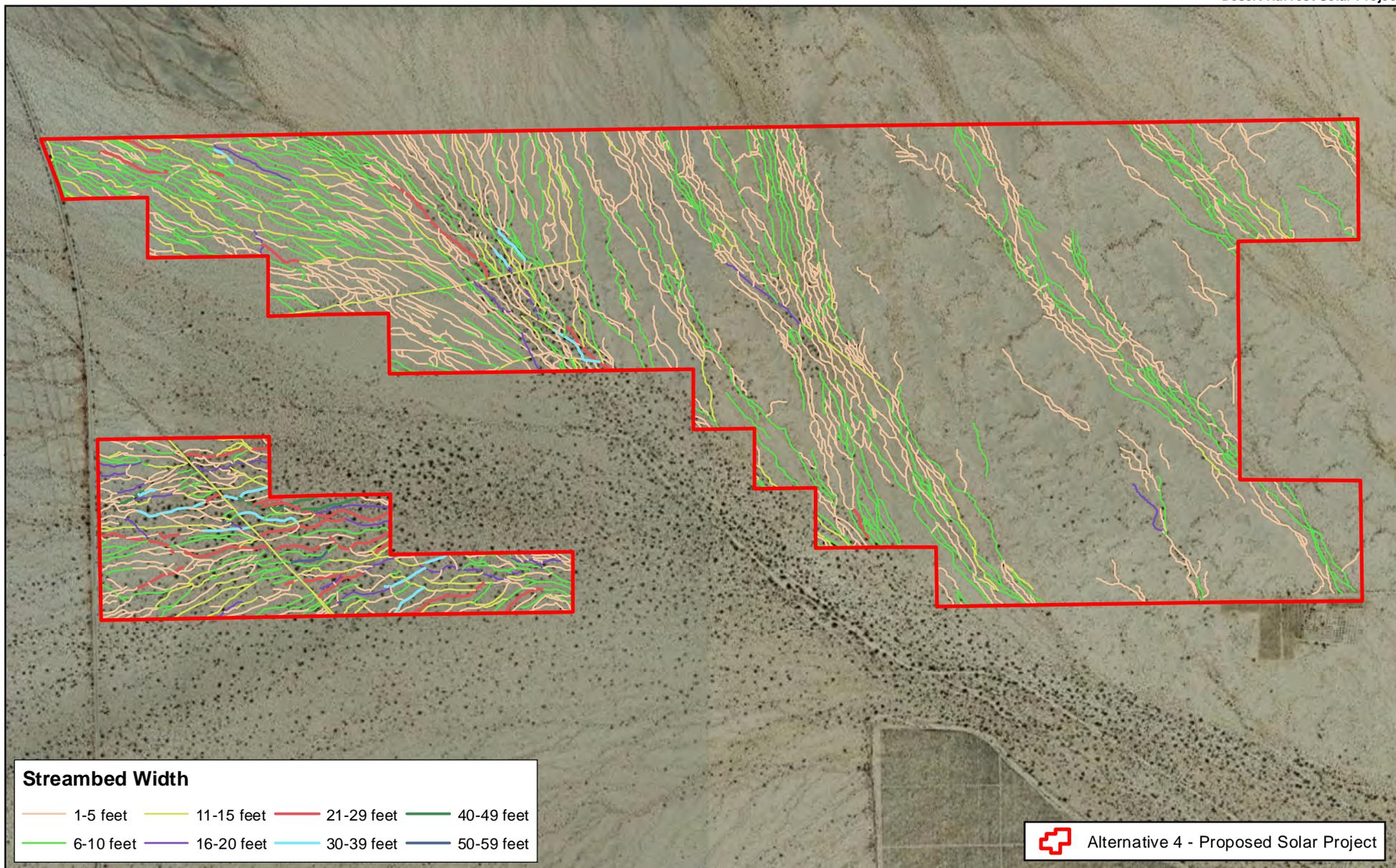
**Figure 3.3-1a**  
**Vegetation**  
**DHSP Site**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 3.3-1b**  
**Vegetation**  
**Gen-Tie Line Alternatives**



**Streambed Width**

1-5 feet	11-15 feet	21-29 feet	40-49 feet
6-10 feet	16-20 feet	30-39 feet	50-59 feet

Alternative 4 - Proposed Solar Project



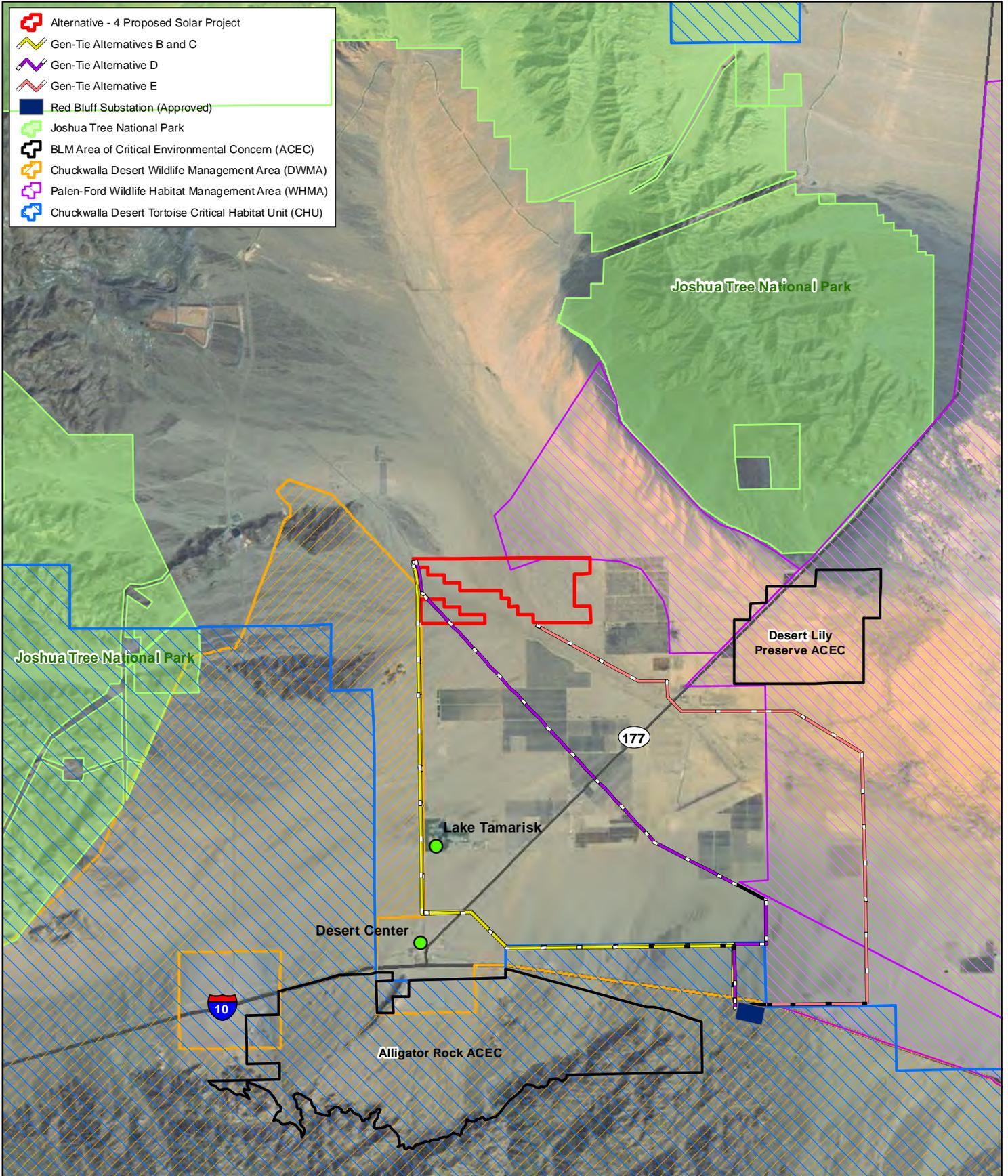
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



0 750 1,500 3,000  
Feet

**Figure 3.3-2**  
**CDFG Jurisdictional Streambeds**  
**DHSP Site**

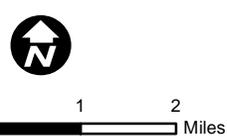
October 2011



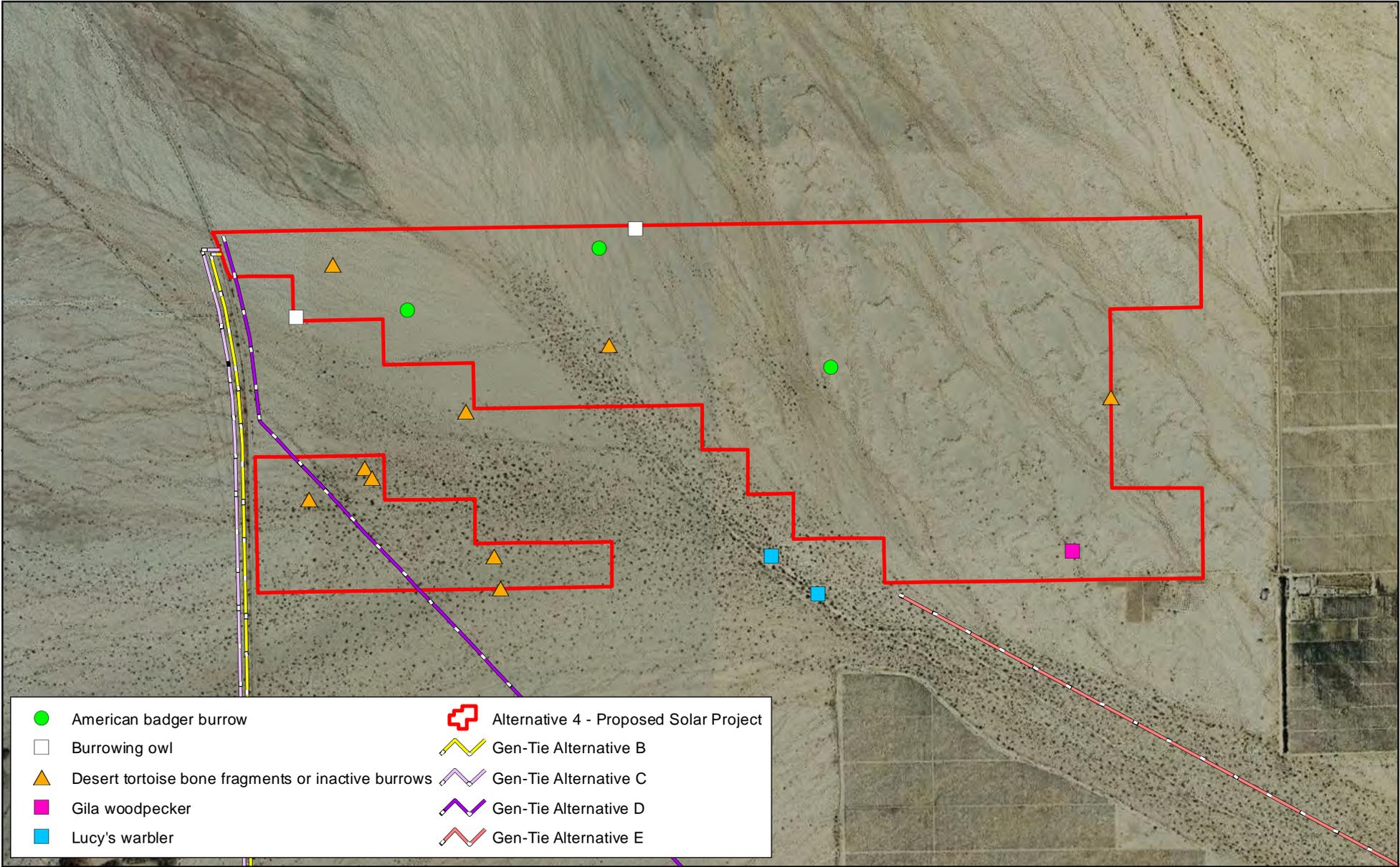
- + Alternative - 4 Proposed Solar Project
- Gen-Tie Alternatives B and C
- Gen-Tie Alternative D
- Gen-Tie Alternative E
- Red Bluff Substation (Approved)
- Joshua Tree National Park
- BLM Area of Critical Environmental Concern (ACEC)
- Chuckwalla Desert Wildlife Management Area (DWMA)
- Palen-Ford Wildlife Habitat Management Area (WHMA)
- Chuckwalla Desert Tortoise Critical Habitat Unit (CHU)



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



**Figure 3.4-1**  
**Wildlife Management Areas**



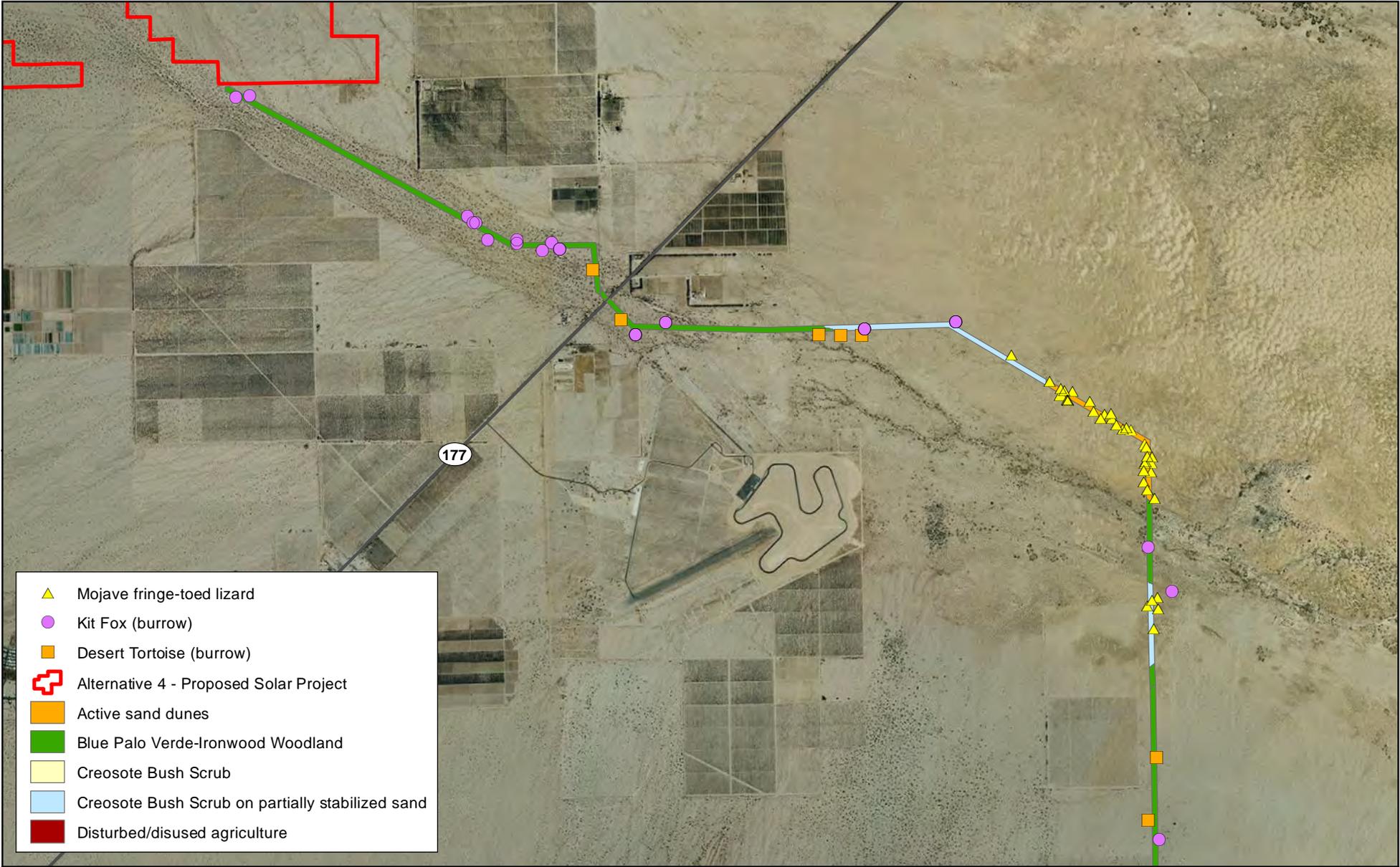
- |                                                                                     |                                                    |                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|
|  | American badger burrow                             |  | Alternative 4 - Proposed Solar Project |
|  | Burrowing owl                                      |  | Gen-Tie Alternative B                  |
|  | Desert tortoise bone fragments or inactive burrows |  | Gen-Tie Alternative C                  |
|  | Gila woodpecker                                    |  | Gen-Tie Alternative D                  |
|  | Lucy's warbler                                     |  | Gen-Tie Alternative E                  |



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 3.4-2a**  
**Special-Status Wildlife**  
**DHSP Site**



- Mojave fringe-toed lizard
- Kit Fox (burrow)
- Desert Tortoise (burrow)
- Alternative 4 - Proposed Solar Project
- Active sand dunes
- Blue Palo Verde-Ironwood Woodland
- Creosote Bush Scrub
- Creosote Bush Scrub on partially stabilized sand
- Disturbed/disused agriculture

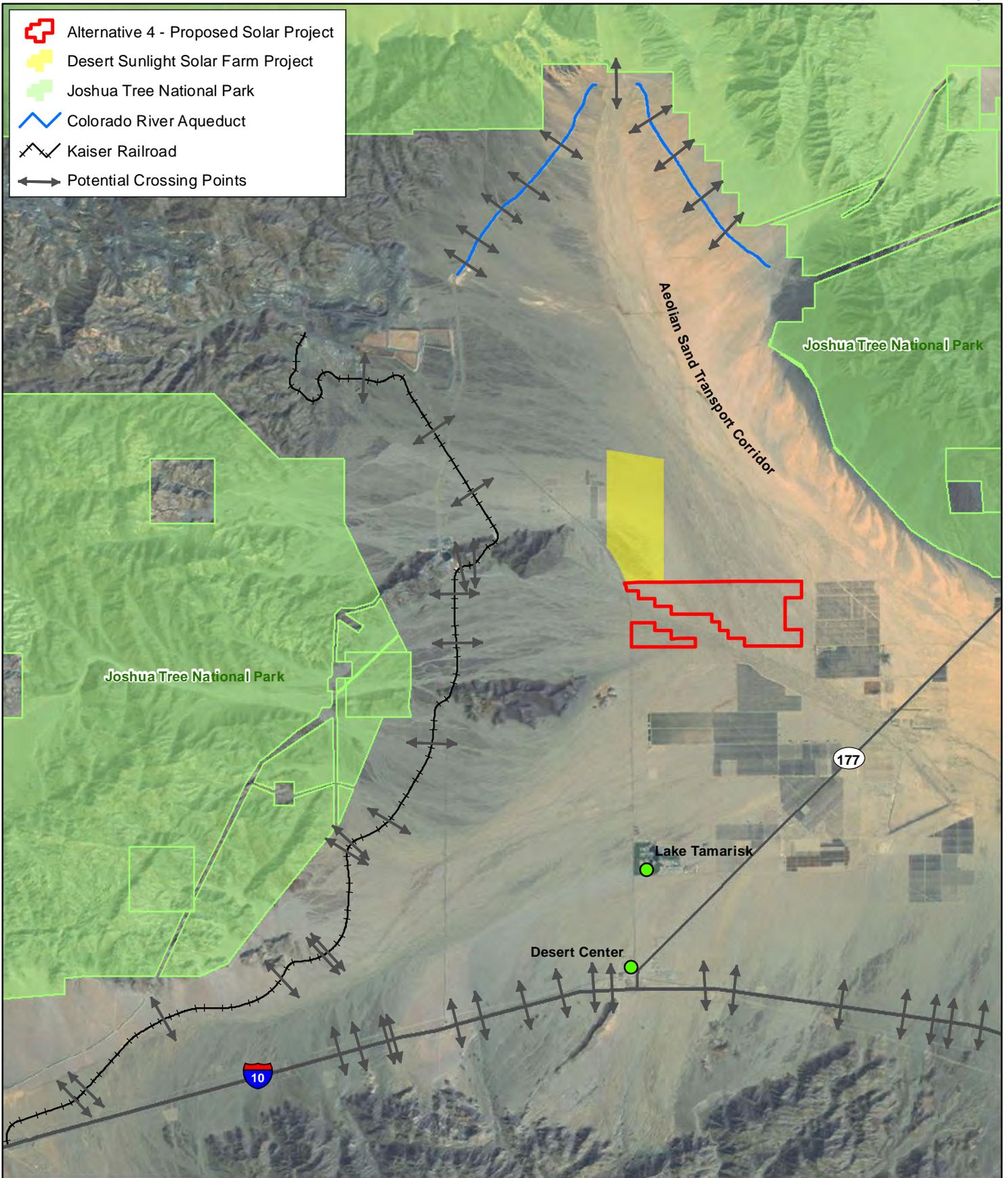


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



0 2,000 4,000 8,000  
Feet

**Figure 3.4-2b**  
**Special-Status Wildlife**  
**Gen-Tie Alternative E**



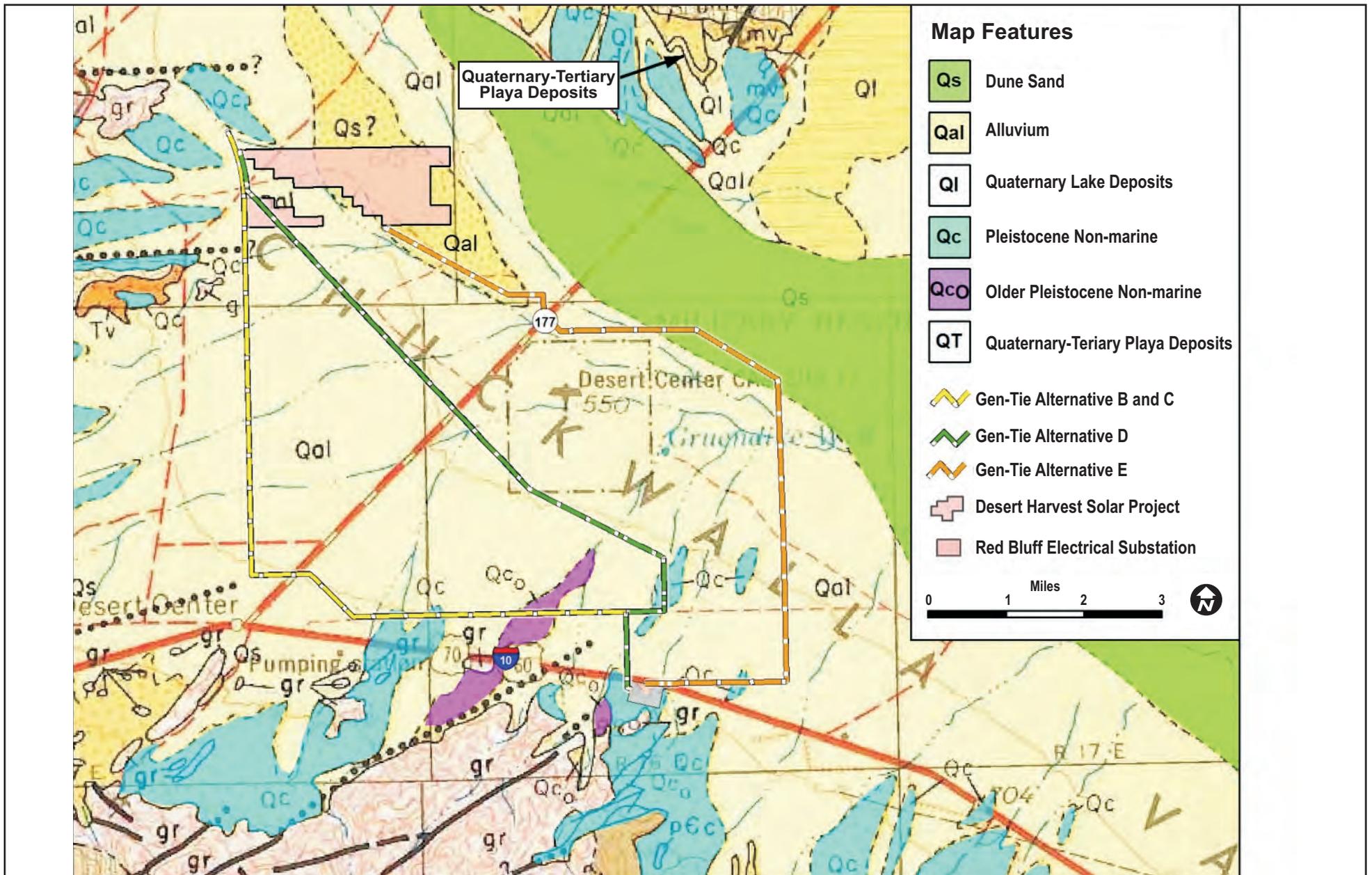
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



0 1 2  
Miles

**Figure 3.4-3**

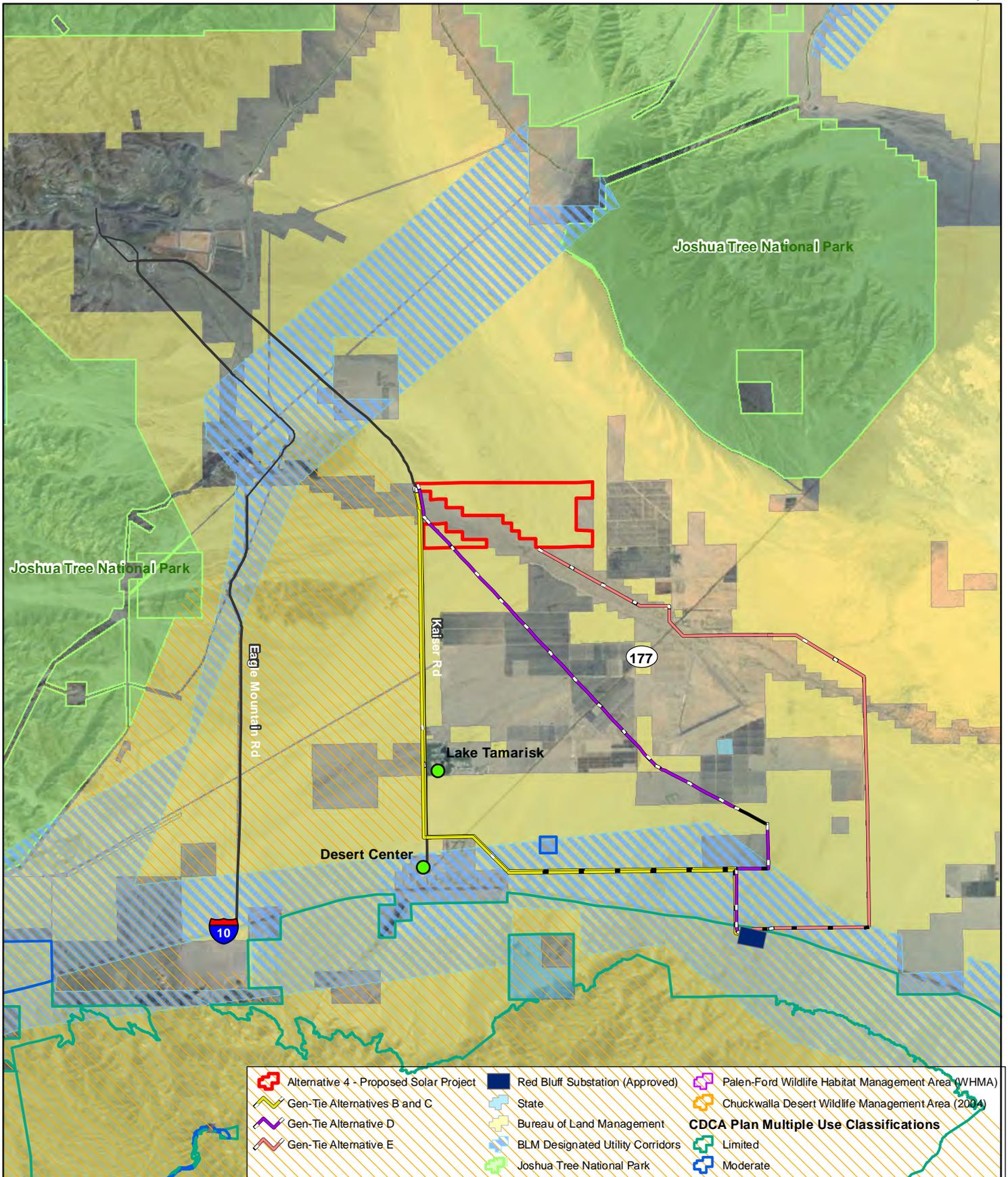
**Wildlife Habitat Connectivity**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties,  
implied or expressed, with respect to  
information shown on this map.

Source: Jennings, 1967.

**Figure 3.7-1**  
**Geology of Project Area and**  
**Quaternary-Tertiary Playa Deposits**



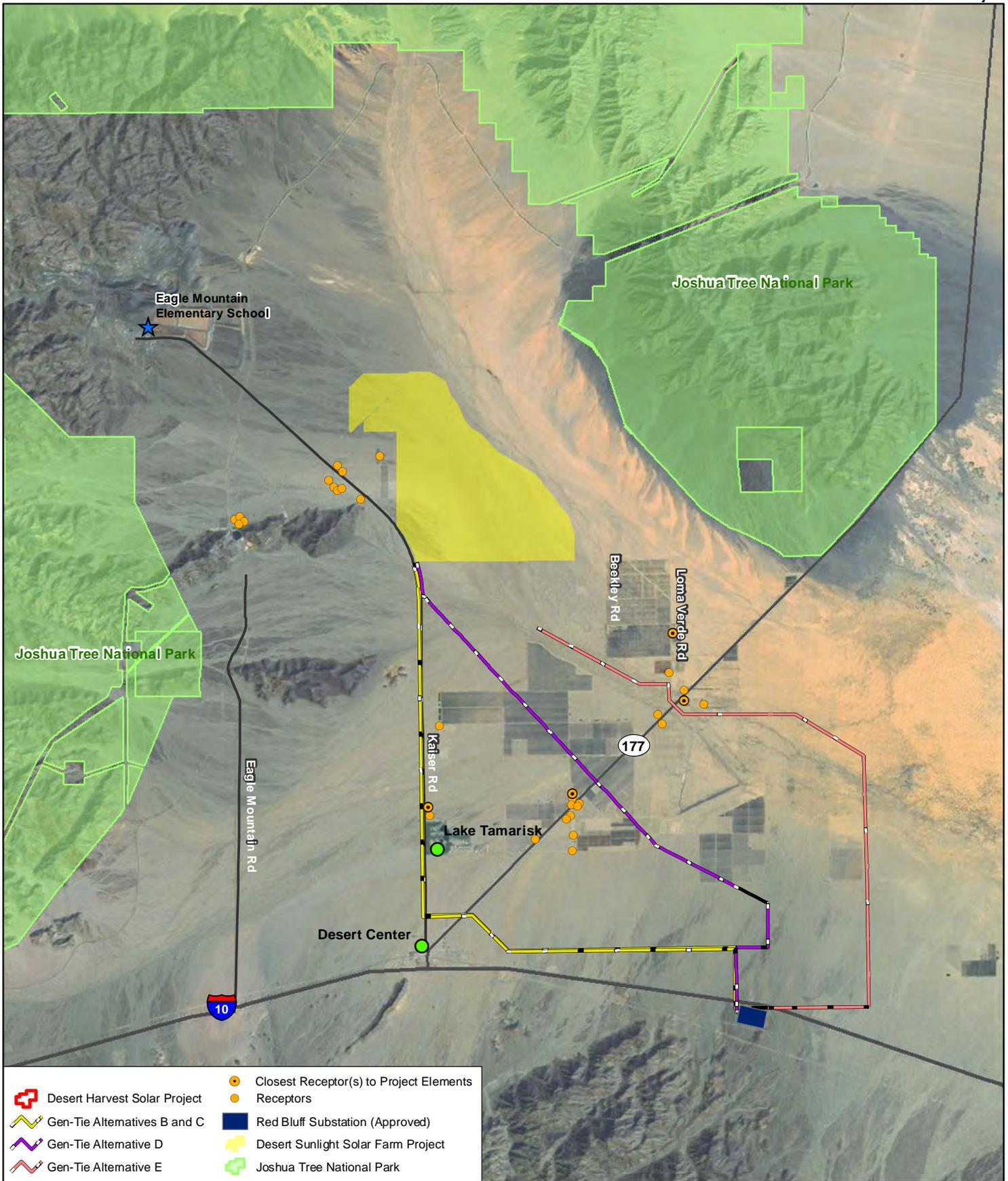
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



0 1 2  
Miles

**Figure 3.11-1**

**Land Ownership/Management**



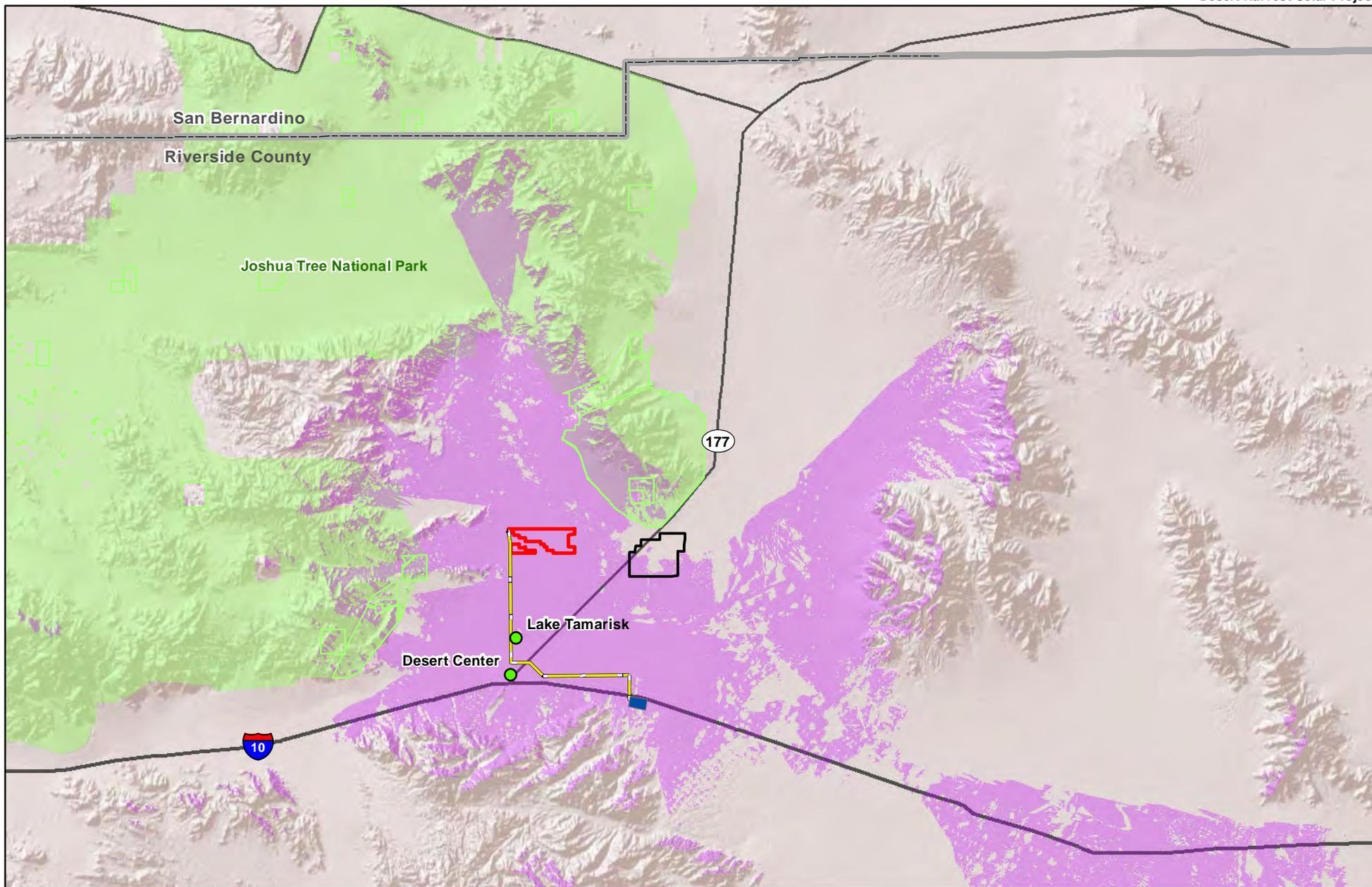
U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



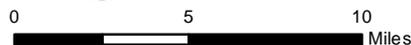
0 1 2 Miles

**Figure 3.12-1**

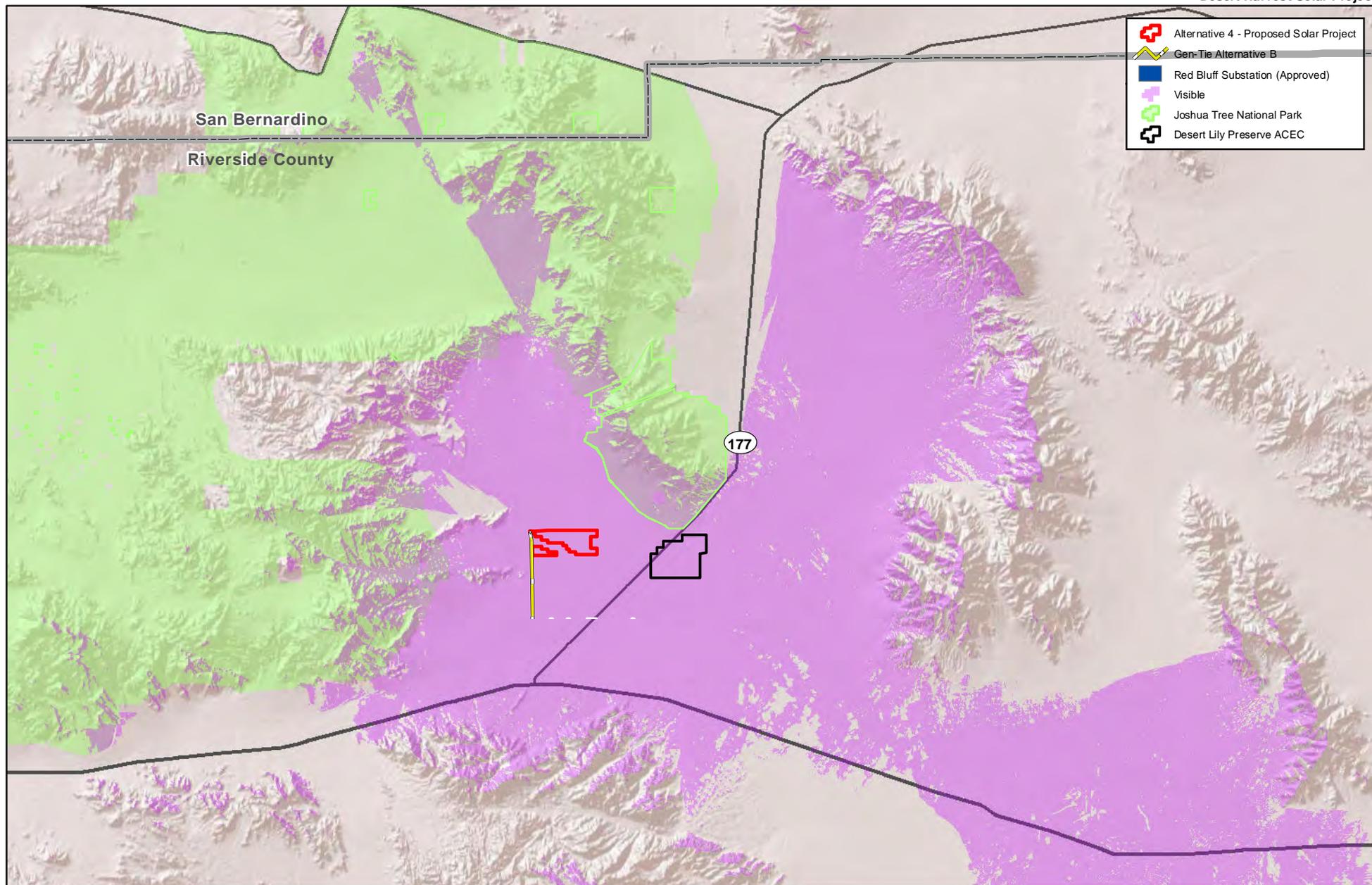
**Residences and Residential Areas in the Vicinity of the Project Area**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



**Figure 3.19-1a**  
**Project Viewshed:**  
**Low Profile Tracking Panels**



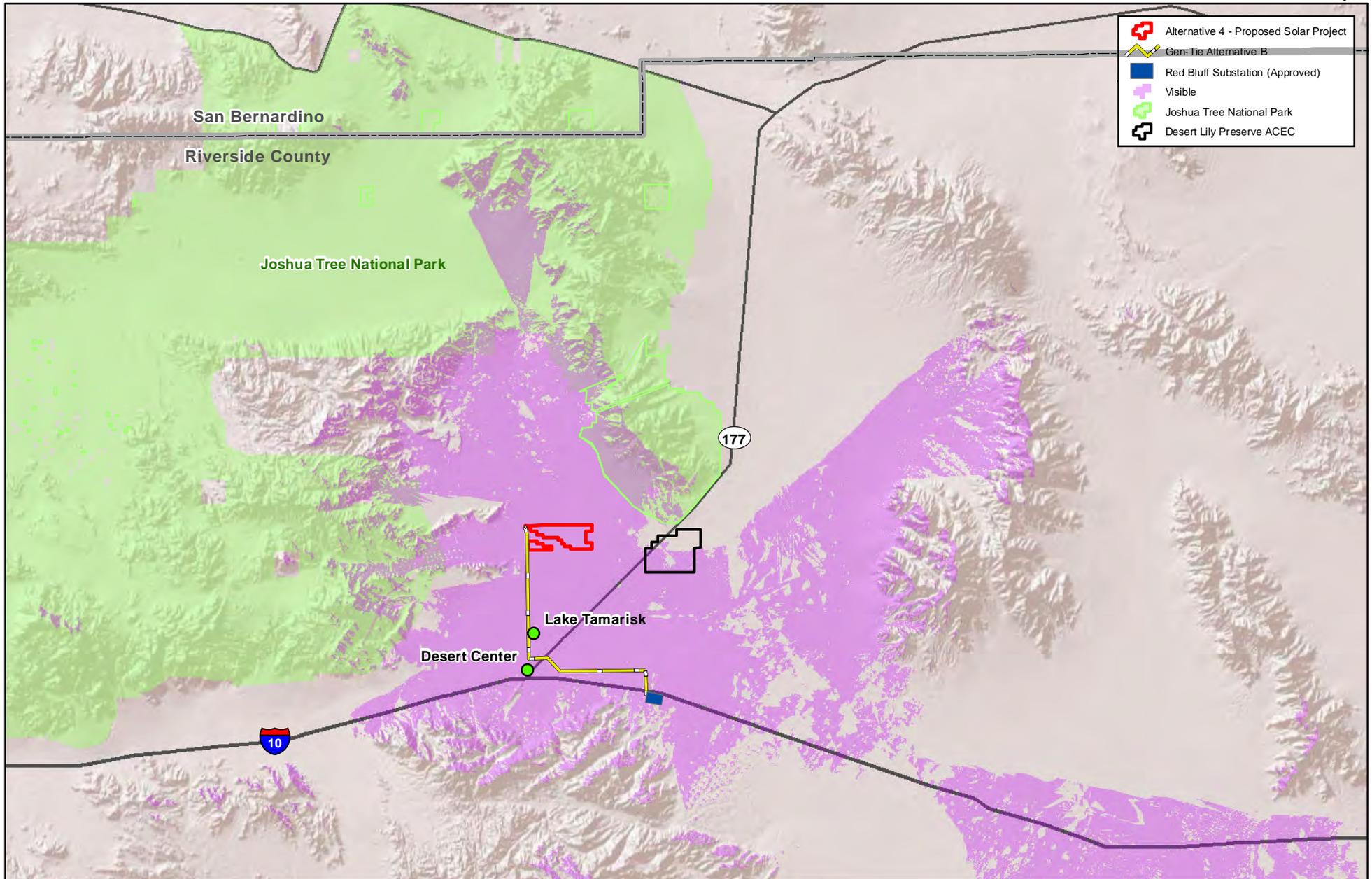
-  Alternative 4 - Proposed Solar Project
-  Gen-Tie Alternative B
-  Red Bluff Substation (Approved)
-  Visible
-  Joshua Tree National Park
-  Desert Lily Preserve ACEC



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



**Figure 3.19-1b**  
**Project Viewshed:**  
**Transmission Towers**



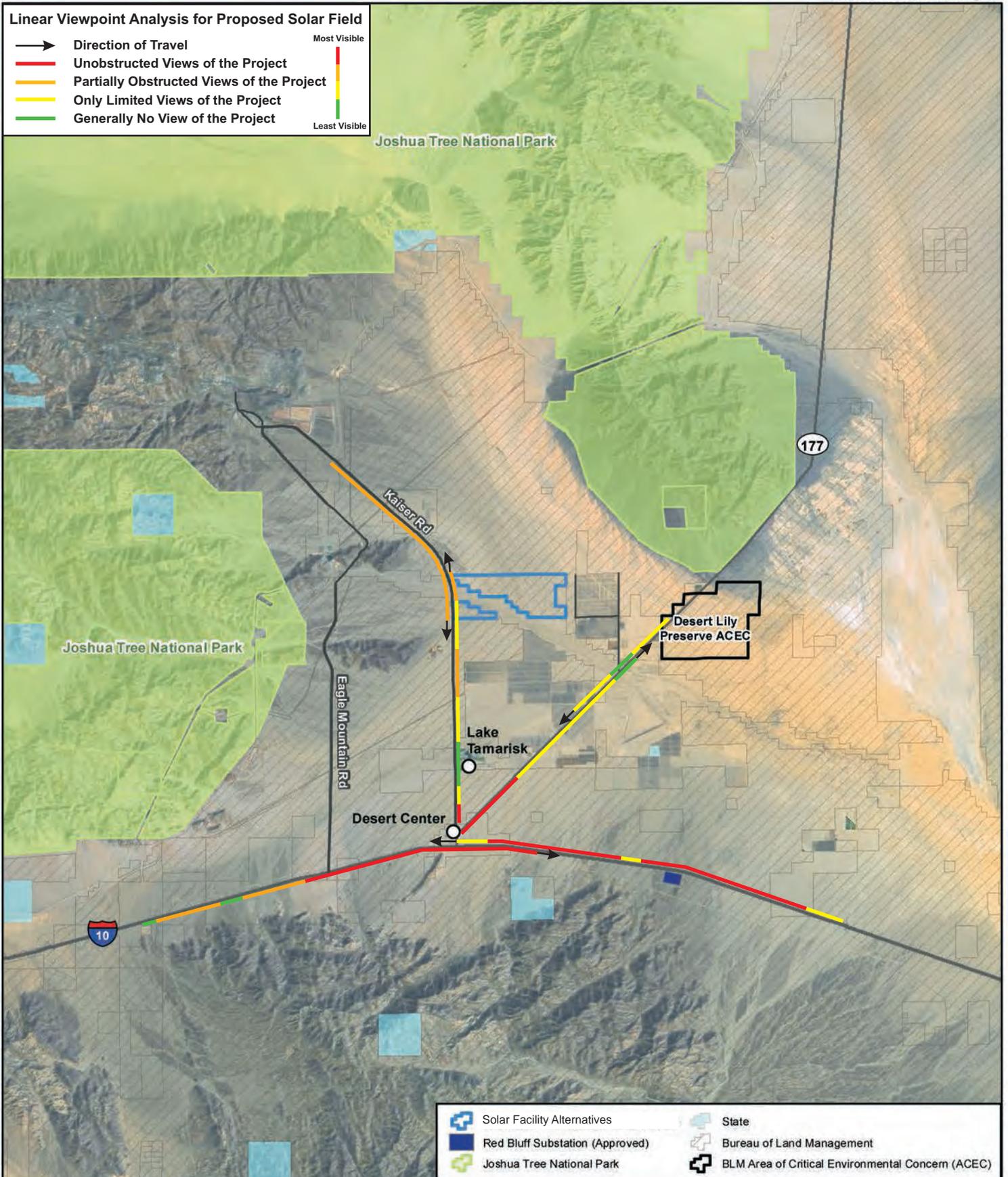
-  Alternative 4 - Proposed Solar Project
-  Gen-Tie Alternative B
-  Red Bluff Substation (Approved)
-  Visible
-  Joshua Tree National Park
-  Desert Lily Preserve ACEC



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



**Figure 3.19-1c**  
**Project Viewshed:**  
**High Profile Tracking Panels**

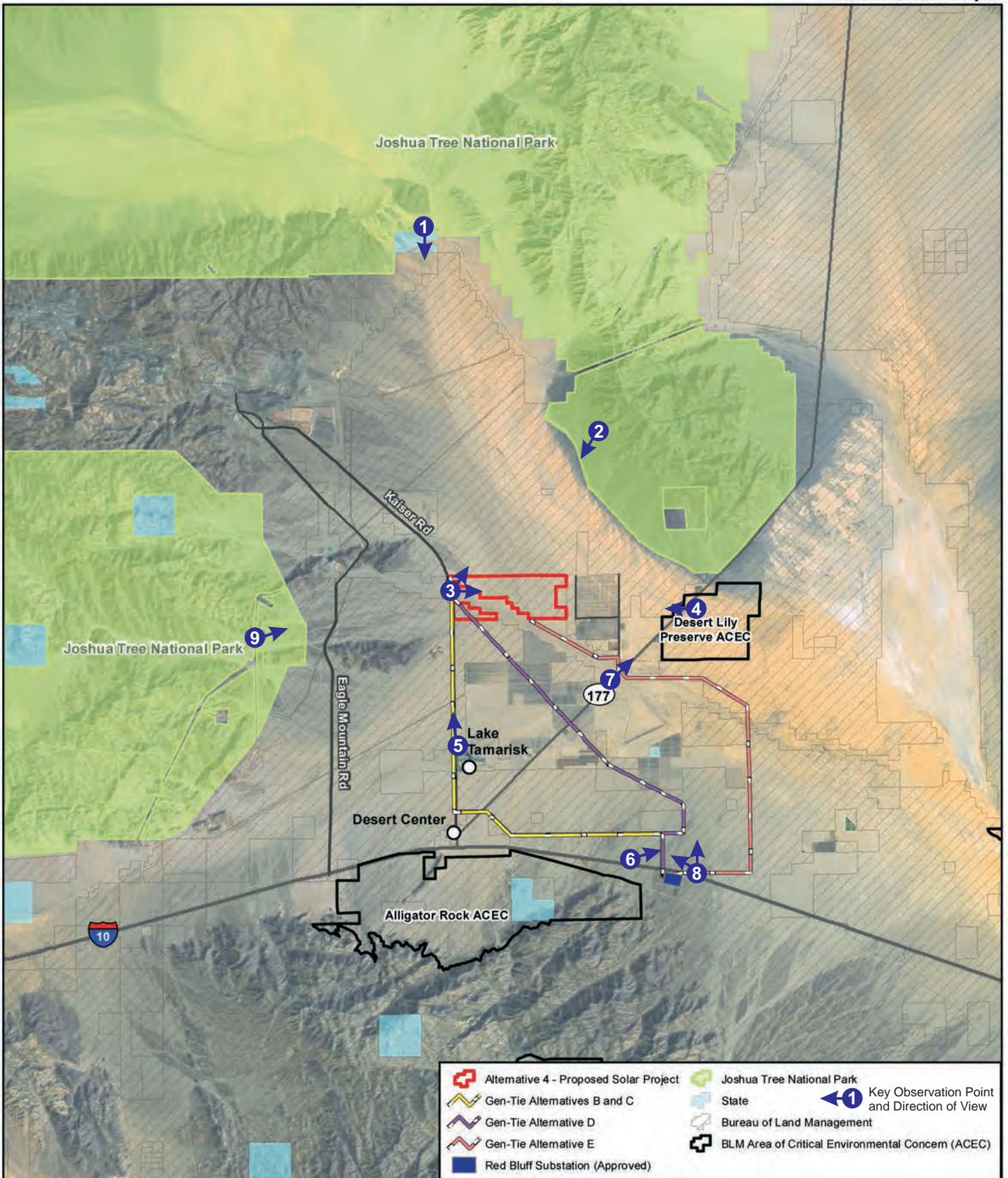


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.



0 2.5 5 Miles

**Figure 3.19-2**  
**Linear Viewpoint Analysis for DHSP**

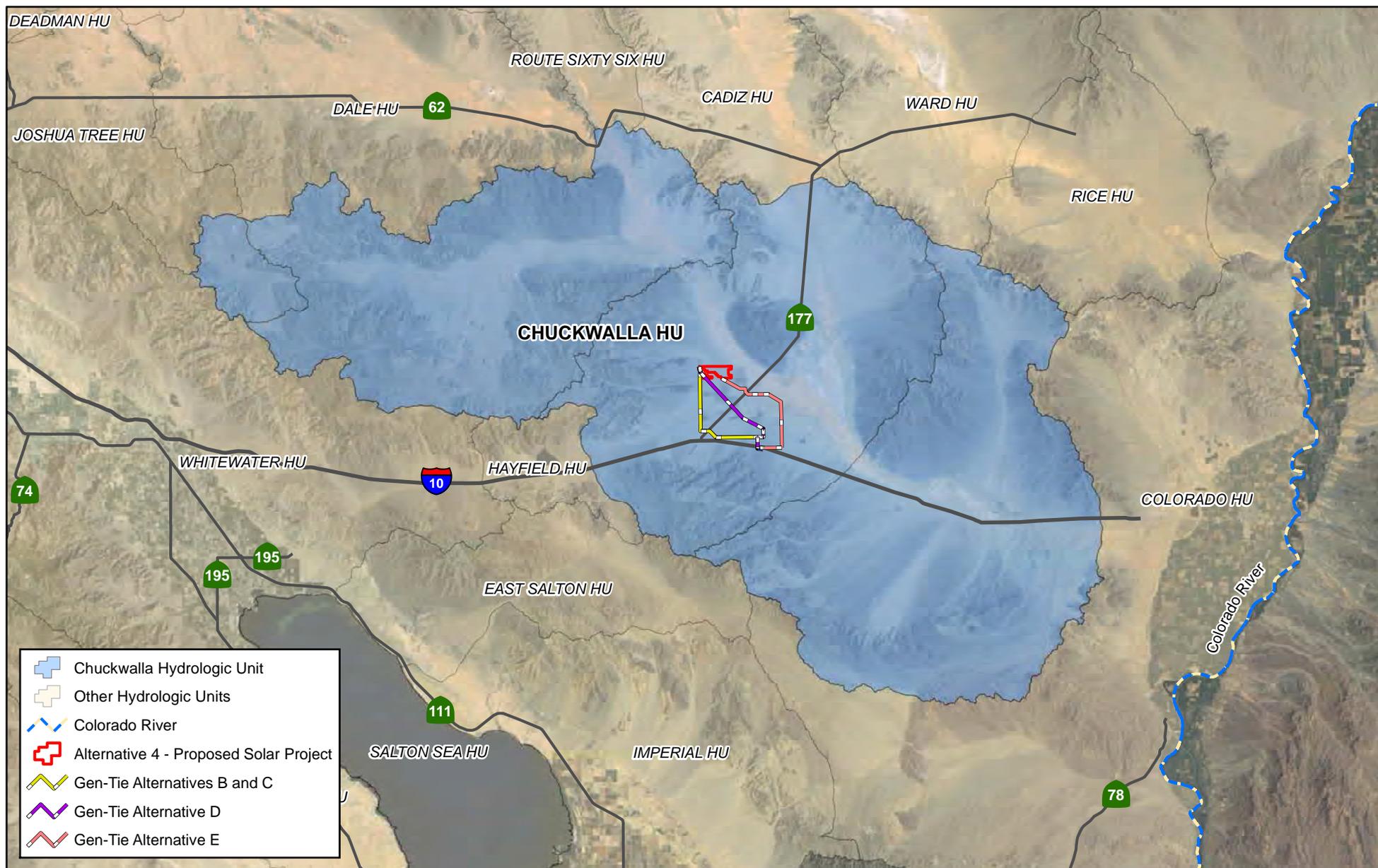


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.



0 2.5 5 Miles

**Figure 3.19-3**  
**Key Observation Point Locations**

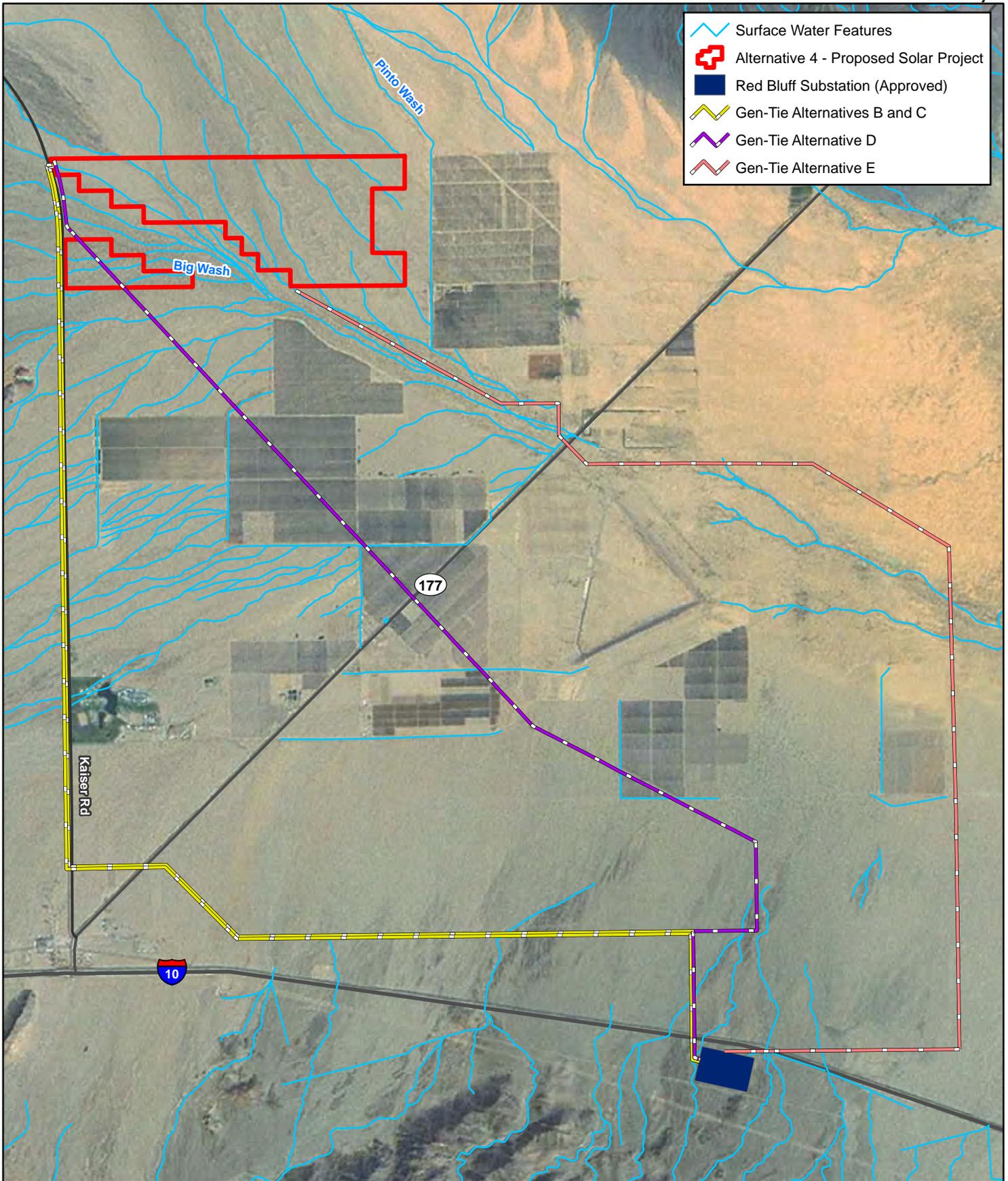


U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District

The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 3.20-1**  
**Surface Water Resources Study Area:**  
**Chuckwalla Hydrologic Unit**



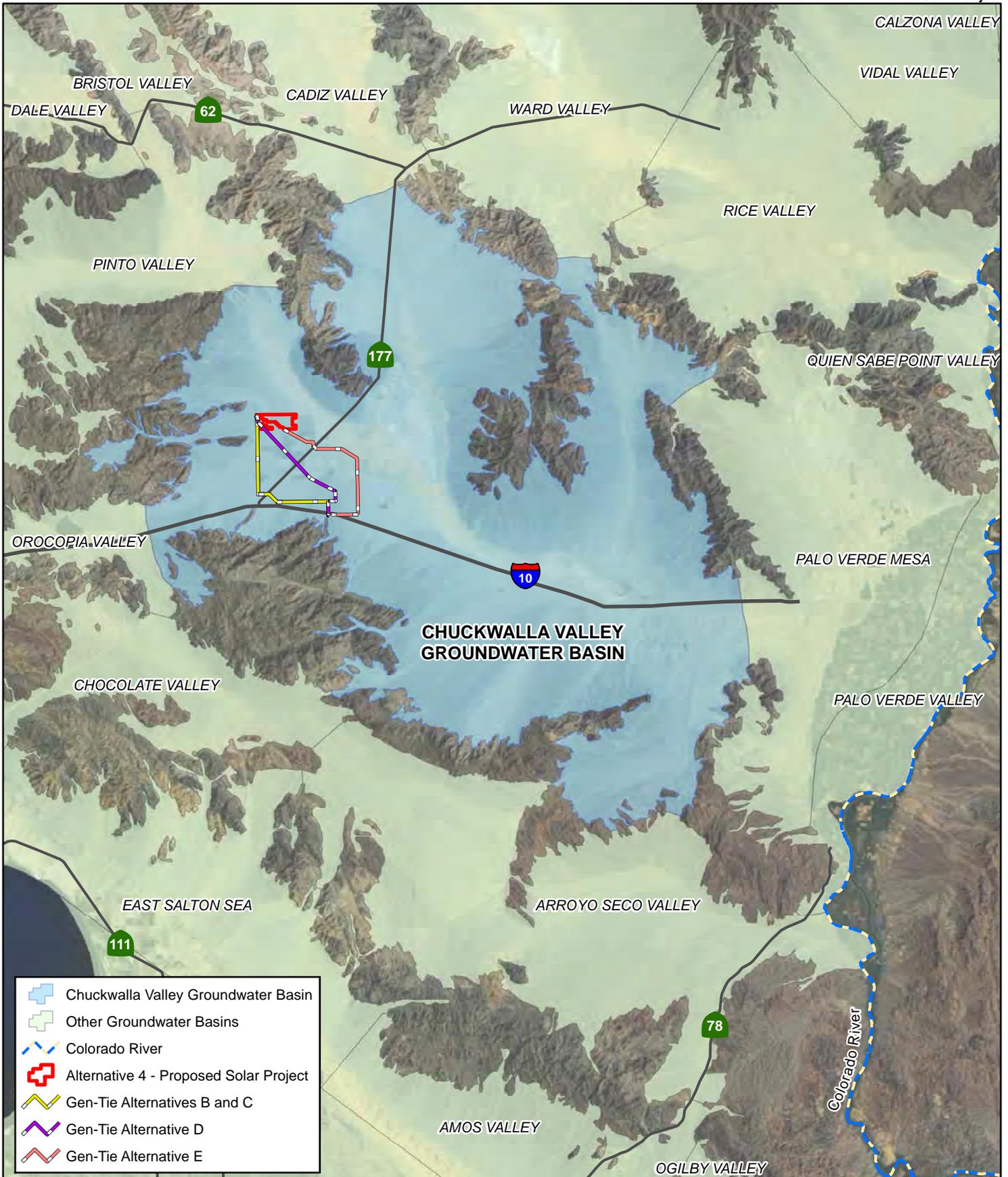
-  Surface Water Features
-  Alternative 4 - Proposed Solar Project
-  Red Bluff Substation (Approved)
-  Gen-Tie Alternatives B and C
-  Gen-Tie Alternative D
-  Gen-Tie Alternative E



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties, implied or expressed, with respect to information shown on this map



**Figure 3.20-2**  
**Surface Water Features**  
**on the Project Site**



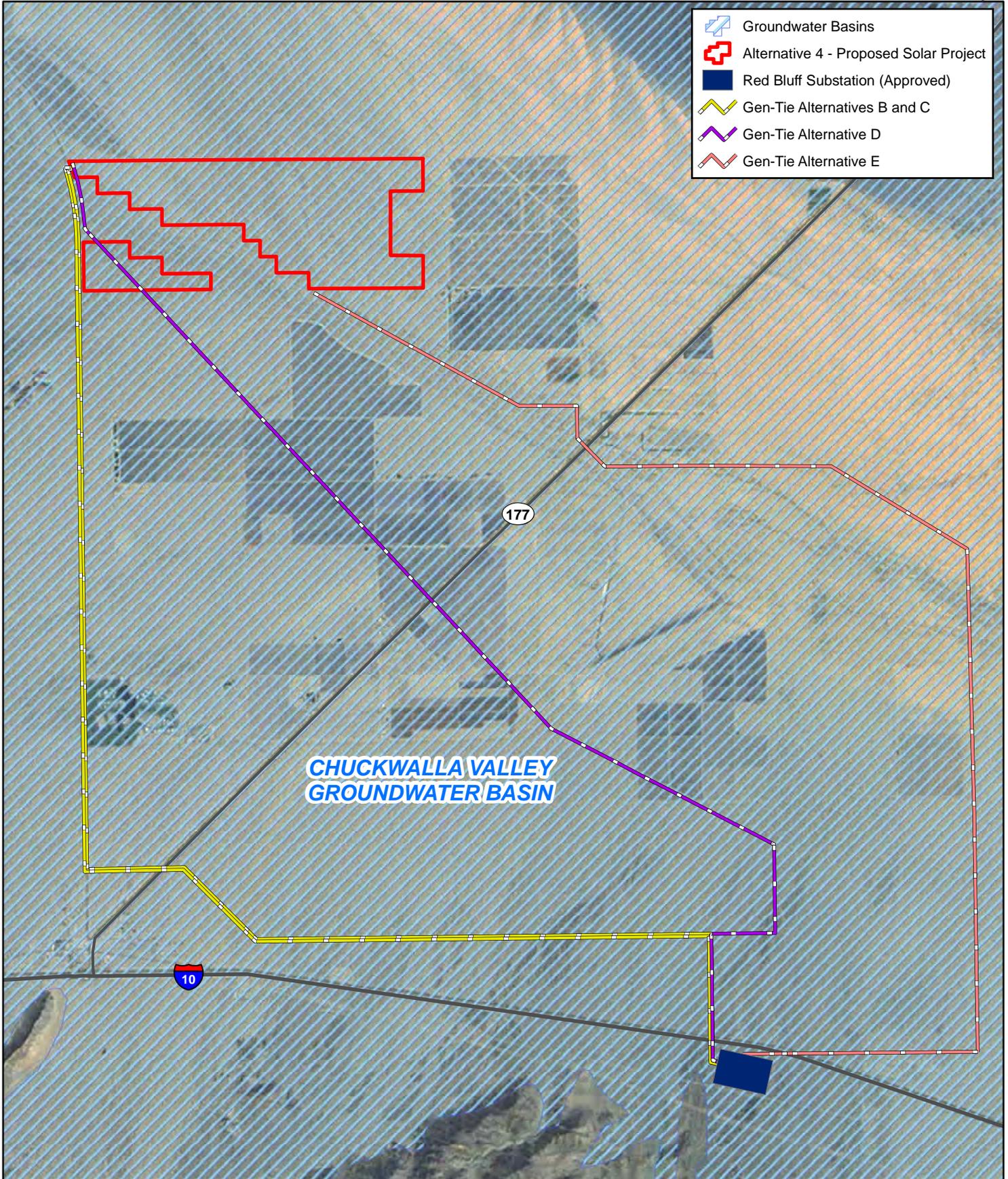
**CHUCKWALLA VALLEY  
GROUNDWATER BASIN**

-  Chuckwalla Valley Groundwater Basin
-  Other Groundwater Basins
-  Colorado River
-  Alternative 4 - Proposed Solar Project
-  Gen-Tie Alternatives B and C
-  Gen-Tie Alternative D
-  Gen-Tie Alternative E



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map

**Figure 3.20-3**  
**Groundwater Resources Study Area:**  
**Chuckwalla Valley Groundwater Basin**



-  Groundwater Basins
-  Alternative 4 - Proposed Solar Project
-  Red Bluff Substation (Approved)
-  Gen-Tie Alternatives B and C
-  Gen-Tie Alternative D
-  Gen-Tie Alternative E

**CHUCKWALLA VALLEY  
GROUNDWATER BASIN**

177

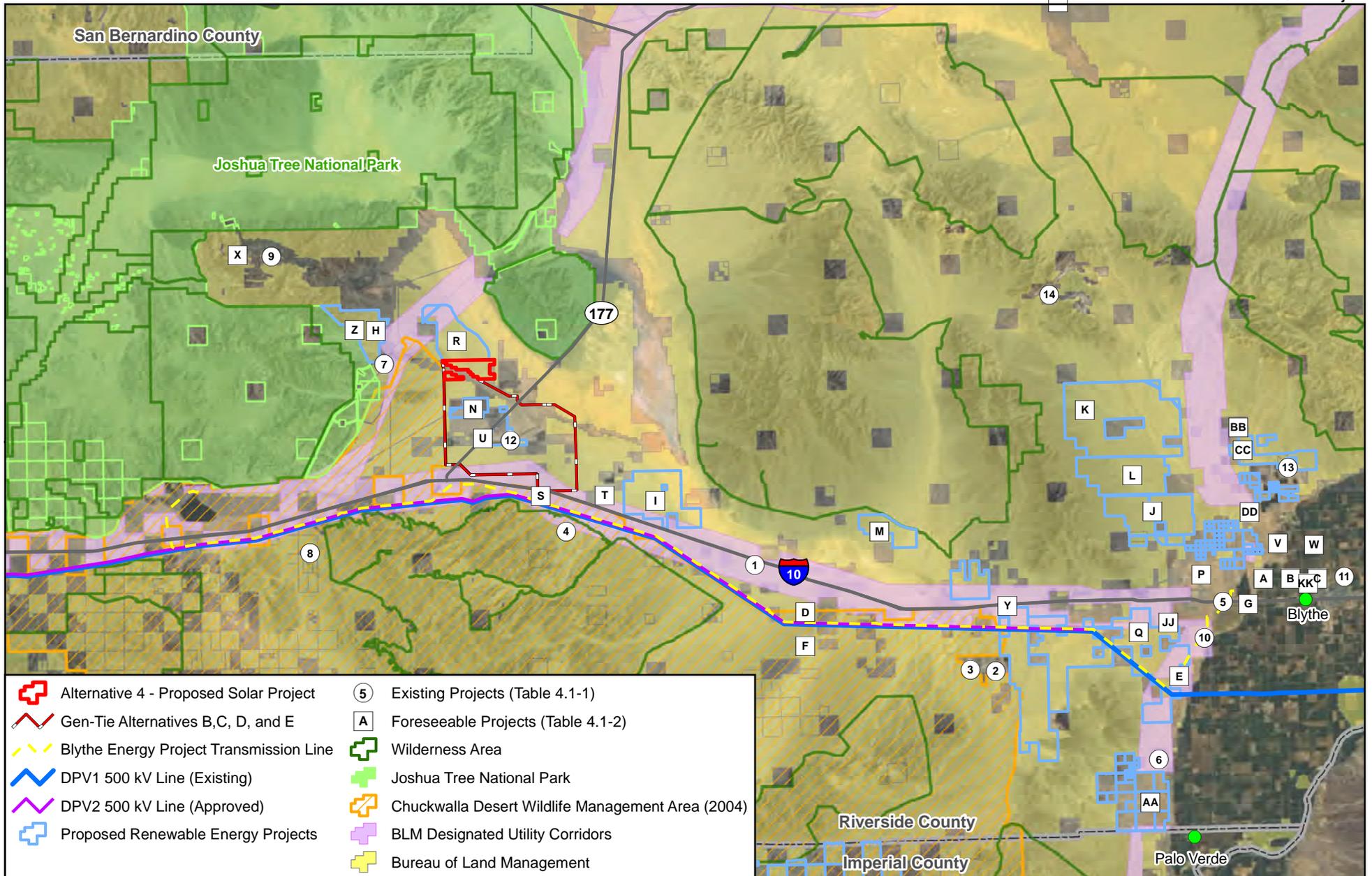
10



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map

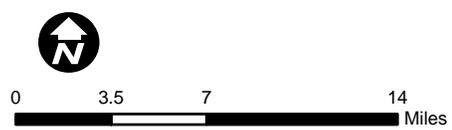


**Figure 3.20-4**  
**Extent of Groundwater  
Basin at the Project Site**

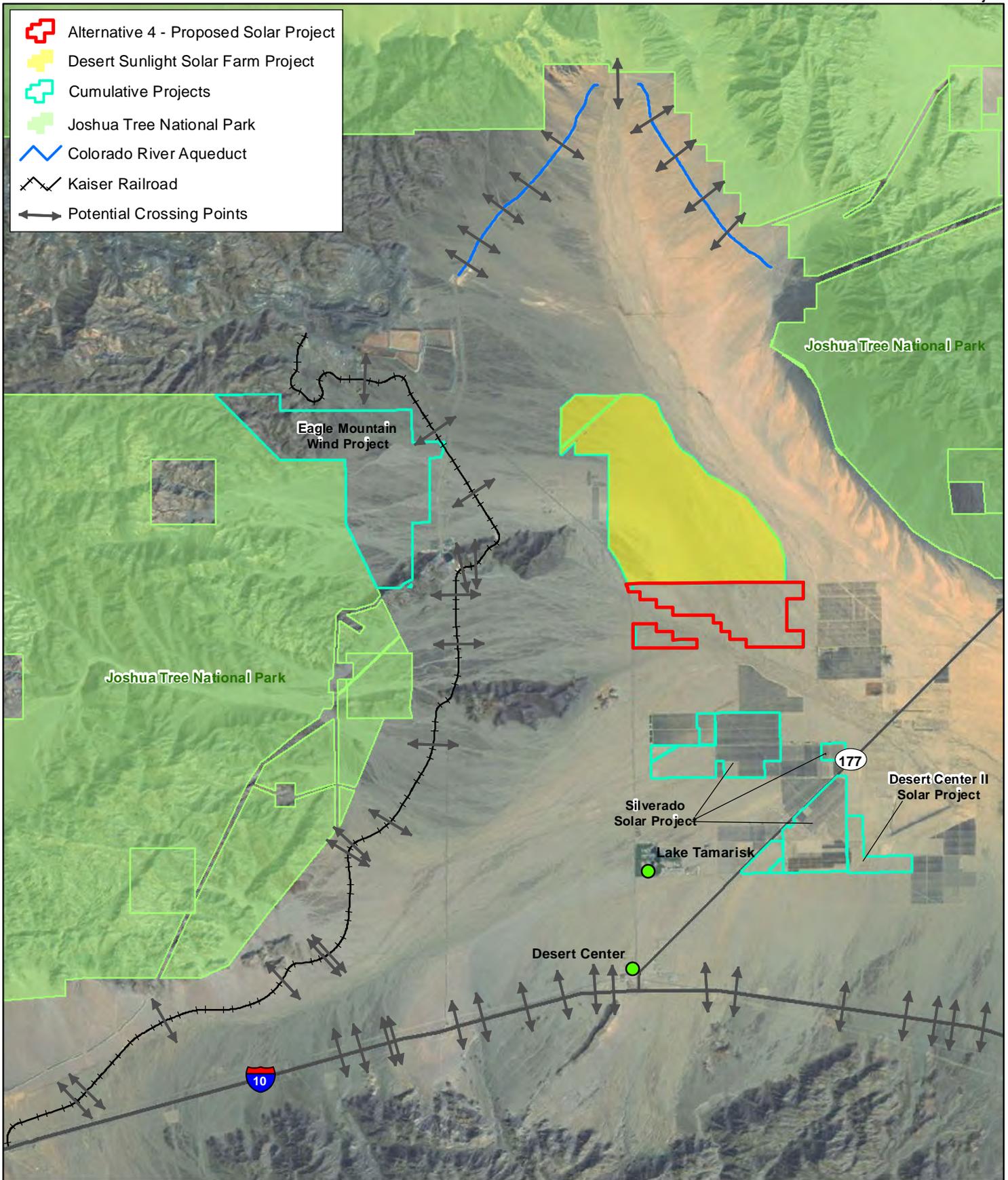


- |                                         |                                                   |
|-----------------------------------------|---------------------------------------------------|
| Alternative 4 - Proposed Solar Project  | Existing Projects (Table 4.1-1)                   |
| Gen-Tie Alternatives B, C, D, and E     | Foreseeable Projects (Table 4.1-2)                |
| Blythe Energy Project Transmission Line | Wilderness Area                                   |
| DPV1 500 kV Line (Existing)             | Joshua Tree National Park                         |
| DPV2 500 kV Line (Approved)             | Chuckwalla Desert Wildlife Management Area (2004) |
| Proposed Renewable Energy Projects      | BLM Designated Utility Corridors                  |
|                                         | Bureau of Land Management                         |

 U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



**Figure 4.1-1**  
**Cumulative Projects**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management makes no warranties,  
implied or expressed, with respect to  
information shown on this map



0 1 2  
Miles

**Figure 4.4-1**  
**Wildlife Habitat Connectivity**  
**Cumulative Scenario**



Michael Clayton & Associates

Latitude: 33° 55' 9.3" N Longitude: 115° 24' 39.6" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents an **Existing View** of the **Proposed project area**, approximately eight miles to the south of this location, as viewed from Key Observation Point 1 in Joshua Tree Wilderness at the northeast end of the Eagle Mountains. This view to the south overlooks the open expanse that comprises the north end of Chuckwalla Valley, backdropped by the eastern extent of the Eagle Mountains (right side of image) and the Chuckwalla Mountains beyond. The Colorado River Aqueduct is visible in the foreground.

**Figure 4.19-1A**  
**Key Observation Point 1**  
**Joshua Tree Wilderness**  
**Eagle Mountains**



Michael Clayton & Associates

Latitude: 33° 55' 9.3" N Longitude: 115° 24' 39.6" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation** of the **Proposed project**, approximately eight miles to the south of this location, as viewed from Key Observation Point 1 in Joshua Tree Wilderness. The proposed solar facility is faintly visible as light-colored, horizontal features (two development areas with solar panels facing to the south, away from this viewpoint) in the left center of the image. The proposed gen-tie transmission line is barely discernible as a sequence of vertical features to the immediate right (west) of the solar farm.

**Figure 4.19-1B**  
**Key Observation Point 1**  
**Joshua Tree Wilderness**  
**Eagle Mountains**



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation of Alternative 7** (high profile, single-axis tracking panels) facing east (left). The eastern (left) portion of the facility (horizontal, linear feature in left-center of the image) appears darker because the panel backs are visible in shadow. Further west (right), and with a changing view angle, the panels begin to exhibit a bluish hue as they begin to show reflected sky. The appearance of the solar panels will change depending on time of day, orientation of the tracking panels, and characteristics of the reflected sky.

**Figure 4.19-1C**  
**Key Observation Point 1A**  
**Joshua Tree Wilderness**  
**Eagle Mountains**



Michael Clayton & Associates

Latitude: 33° 50' 57.1" N Longitude: 115° 20' 28.4" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents the **Existing View** of the **Proposed project area** (approximately 3.5 miles to the southwest) from KOP 2 in Joshua Tree Wilderness along the western flank of the Coxcumb Mountains. This elevated vantagepoint overlooks the open expanse that comprises the north end of Chuckwalla Valley, backdropped by the eastern extent of the Eagle Mountains (right side of image) and the Chuckwalla Mountains to the south (center-left of image).

**Figure 4.19-2A**  
**Key Observation Point 2**  
**Joshua Tree Wilderness**  
**Coxcomb Mountains**



View toward the back of a typical solar array (approximately four feet tall) with the solar panels facing (tilted) away from the viewer.

Michael Clayton & Associates

Latitude: 33° 50' 57.1" N Longitude: 115° 20' 28.4" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

This image presents a **Visual Simulation** of the **Proposed project** (approximately 3.5 miles to the southwest) from KOP 2. The proposed solar facility would appear as a spatially prominent and central series of geometric patterns on the basin floor and would contrast with the predominantly natural appearance of the northern Chuckwalla Valley landscape and background Chuckwalla and Eagle Mountains. The proposed gen-tie transmission line is faintly visible as a sequence of vertical features above the solar development area.

**Figure 4.19-2B**  
**Key Observation Point 2**  
**Joshua Tree Wilderness**  
**Coxcomb Mountains**



View toward the back of a typical solar array (approximately four feet tall) with the solar panels facing (tilted) away from the viewer.

Michael Clayton & Associates

Latitude: 33° 50' 57.1" N Longitude: 115° 20' 28.4" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

This image presents a **Visual Simulation** of the **Cumulative Effect** of the **Proposed project** and **Desert Sunlight project** from KOP 2 (with a viewing distance ranging from 2.5 to 3.5 miles to the southwest). This view is looking toward the back of the solar field with the solar panels facing (tilted) toward the south, away from this viewing location. The proposed solar farm would appear as a spatially prominent series of geometric patterns on the otherwise naturally appearing Chuckwalla Valley basin floor.

**Figure 4.19-2C**  
**Key Observation Point 2**  
**Joshua Tree Wilderness**  
**Coxcomb Mountains**



Michael Clayton & Associates

Latitude: 33° 47' 43.9" N Longitude: 115° 24' 03.7" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents the **Existing View** of the **Proposed project area** from KOP 3 on northbound Kaiser Road, in the immediate vicinity of the proposed solar facility. This viewpoint encompasses the open expanse of a portion of the Chuckwalla Valley, backdropped by the southern extent of the Coxcomb Mountains (center-left of image at a distance of approximately five miles) with the Palen Mountains (center and right) beyond, at a distance of approximately 13 miles.

**Figure 4.19-3A**  
**Key Observation Point 3**  
**Kaiser Road**  
**Project Vicinity**



Michael Clayton & Associates

Latitude: 33° 47' 43.9" N Longitude: 115° 24' 03.7" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation** of the **Proposed Solar facility** from KOP 3 on northbound Kaiser Road. This view captures a portion of the north development area. The viewing distance to the solar arrays ranges from approximately 0.4 mile to approximately 1.4 miles. The solar facility would constitute a substantial landscape feature on the basin floor. However, the low-profile panels would be somewhat screened from view by intervening vegetation (depending on the viewpoint location) as illustrated in the above simulation.

**Figure 4.19-3B**  
**Key Observation Point 3**  
**Kaiser Road**  
**Project Vicinity**



Michael Clayton & Associates

Latitude: 33° 47' 43.15" N Longitude: 115° 24' 03.75" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents the **Existing View** of a portion of the **Alternative 7** development area, as seen from KOP 3A on northbound Kaiser Road, in the immediate vicinity of the development area. This view to the northeast encompasses the open expanse of a portion of the Chuckwalla Valley, backdropped by the Coxcomb Mountains (at a distance of approximately five miles) with the Palen Mountains beyond (out of the frame of view to the right), at a distance of approximately 13 miles.

**Figure 4.19-3C**  
**Key Observation Point 3A**  
**Kaiser Road**  
**Immediate Project Vicinity**



Michael Clayton & Associates

Latitude: 33° 47' 43.15" N Longitude: 115° 24' 03.75" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation** of **Alternative 7** (high profile, single-axis tracking panels) facing west (left), as viewed from KOP 3A on northbound Kaiser Road, in the immediate project vicinity. The appearance (color) of the solar panels will change depending on time of day, orientation of the tracking panels, and characteristics of the reflected sky. Viewing distance to the solar arrays from this location ranges from approximately 0.25 mile to approximately 0.75 mile. Also visible are numerous collector poles within the solar field.

**Figure 4.19-3D**  
**Key Observation Point 3A**  
**Kaiser Road**  
**Immediate Project Vicinity**



Michael Clayton & Associates

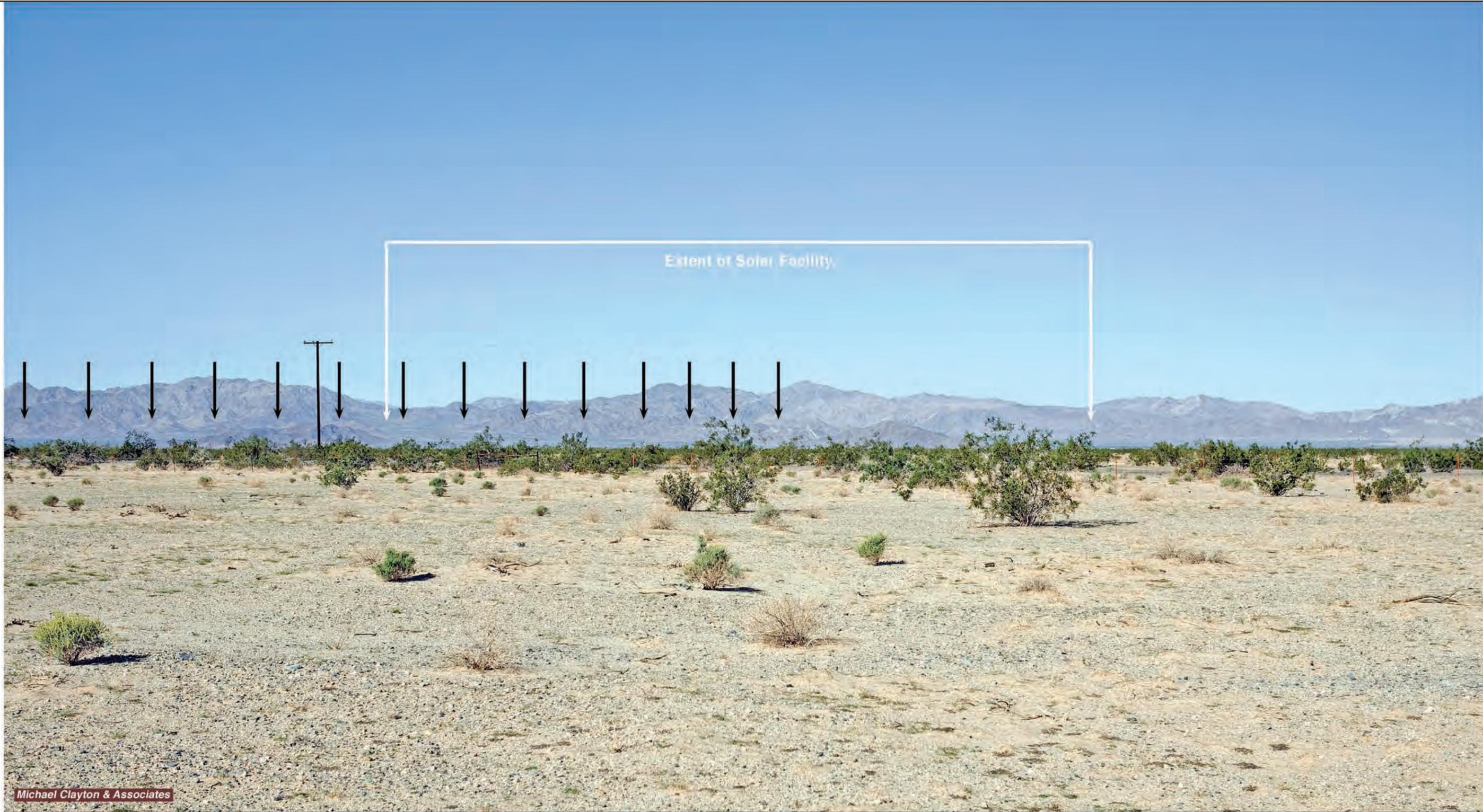
Latitude: 33° 47' 26.3" N Longitude: 115° 18' 21.4" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

This image presents the **Existing View** toward the **Proposed project area** from KOP 4, near the western perimeter of the Desert Lily Sanctuary ACEC, and just east of SR 177 (the utility pole is adjacent to the roadway). This viewpoint encompasses a portion of the northern Chuckwalla Valley, backdropped by the Eagle Mountains (at a distance of approximately 10 miles). The project site (which would be located in the center of the image, approximately three miles due west) is substantially obscured by intervening vegetation.

**Figure 4.19-4A**  
**Key Observation Point 4**  
**Desert Lily Sanctuary ACEC**  
**Viewing West**



Michael Clayton & Associates

Latitude: 33° 47' 26.3" N Longitude: 115° 18' 21.4" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

This image presents a **Visual Simulation** of the **proposed gen-tie** line along Kaiser Road (structure locations indicated by black arrows) as viewed from KOP 4 in the Desert Lily Sanctuary ACEC. Only half of the transmission structures in this view would be partially visible above the vegetation. None of the solar facility panels (due to their low vertical profile of less than six feet) would be visible due to vegetative screening. However, at a distance of approximately 5.5 miles, the partially visible structures would be barely discernible.

**Figure 4.19-4B**  
**Key Observation Point 4**  
**Desert Lily Sanctuary ACEC**  
**Viewing West**



Michael Clayton & Associates

Latitude: 33° 44' 36.7" N Longitude: 115° 24' 02.3" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

This image presents the **Existing View** of the **Alternatives B and C Gen-Tie Transmission Line Routes** adjacent to Kaiser Road, as viewed from KOP 5 on northbound Kaiser Road, in the immediate vicinity the Lake Tamarisk residential development. This view to the north-northwest and the open expanse of Chuckwalla Valley west of Kaiser Road is partially obscured by roadside vegetation. The view is backdropped by the Eagle Mountains. The alternative transmission line routes would parallel the west side Kaiser Road.

**Figure 4.19-5A**  
**Key Observation Point 5**  
**Northbound Kaiser Road**  
**Lake Tamarisk**



Michael Clayton & Associates

Latitude: 33° 44' 36.7" N Longitude: 115° 24' 02.3" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation** of the **Alternative B Gen-Tie Transmission Line Alignment** adjacent to Kaiser Road, as viewed from KOP 5 on northbound Kaiser Road. The Desert Harvest transmission line would be the right circuit (right three conductors) on the transmission line structures. It is expected that the First Solar Project would fill the left circuit (left three conductors) on the structures shown above. The transmission line structures would be prominent vertical features in the viewshed west of Kaiser Road.

**Figure 4.19-5B**  
**Key Observation Point 5**  
**Northbound Kaiser Road**  
**Lake Tamarisk**



Michael Clayton & Associates

Latitude: 33° 44' 36.7" N Longitude: 115° 24' 02.3" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation** of the **Alternative C Gen-Tie Transmission Line Alignment** adjacent to Kaiser Road, as viewed from KOP 5 on northbound Kaiser Road. Under this alternative, the Desert Harvest transmission line would be the left (west) transmission line while the First Solar transmission line would be the right (east) transmission line. This alternative would result in a doubling of the structures and a substantial increase in visual contrast and view blockage of the background mountains.

**Figure 4.19-5C**  
**Key Observation Point 5**  
**Northbound Kaiser Road**  
**Lake Tamarisk**



Michael Clayton & Associates

Latitude: 33° 42' 13.1" N Longitude: 115° 19' 36.7" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents the **Existing View** of the **Gen-Tie Alternative D Transmission Line Route**, as it converges on I-10, as viewed from KOP 6 on eastbound I-10. This viewpoint is approximately 0.8 mile west of the I-10 span. This view to the northeast captures a central portion of the northern Chuckwalla Valley, north of I-10. All of the gen-tie alternatives would converge on and then span I-10 in this area. The view is backdropped by the Palen Mountains at a distance of approximately 10 miles.

**Figure 4.19-6A**  
**Key Observation Point 6**  
**Eastbound I-10**  
**East of Desert Center**



Michael Clayton & Associates

Latitude: 33° 42' 13.1" N Longitude: 115° 19' 36.7" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation** of the **Gen-Tie Alternative D Transmission Line Route**, as it converges on I-10, as viewed from KOP 6 on eastbound I-10. This viewpoint is approximately 0.3 mile west of the I-10 span. This cross-valley alternative would introduce prominent vertical features into the central portion of the north valley visible from I-10. All of the gen-tie alternatives would converge on and then span I-10 in this area. The view is backdropped by the Palen Mountains at a distance of approximately 10 miles.

**Figure 4.19-6B**  
**Key Observation Point 6**  
**Eastbound I-10**  
**East of Desert Center**



Michael Clayton & Associates

Latitude: 33° 45' 58.5" N Longitude: 115° 20' 14.1" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents the **Existing View** of the **Gen-Tie Alternative E Transmission Line Route**, in the vicinity of the span of SR 177, as viewed from KOP 7 on northbound SR 177. This viewpoint is approximately 0.3 mile southwest of the span. This view to the northeast captures a central portion of the northern Chuckwalla Valley where it is bisected by Kaiser Road. The view is backdropped by the southeastern extent of the Coxcomb Mountains (center left) and the more distant Palen Mountains (directly ahead).

**Figure 4.19-7A**  
**Key Observation Point 7**  
**Northbound SR 177**



Michael Clayton & Associates

Latitude: 33° 45' 58.5" N Longitude: 115° 20' 14.1" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

This image presents a **Visual Simulation** of the **Gen-Tie Alternative E Transmission Line**, in the vicinity of the span of SR 177, as viewed from KOP 7 on northbound SR 177. This cross-valley alternative would introduce prominent vertical features into the central portion of the north valley, which is presently absent similar landscape features. Although there are wood-pole utility poles and an H-frame transmission line in the vicinity, those wood-brown and rough-hewn features do not appear out of place in the rural landscape.

**Figure 4.19-7B**  
**Key Observation Point 7**  
**Northbound SR 177**



Michael Clayton & Associates

Latitude: 33° 42' 1.65" N Longitude: 115° 18' 13.32" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no warranties, implied or expressed, with respect to information shown on this map.

This image presents the **Existing View** of the **Gen-Tie Alternative E Transmission Line Route**, as it crosses Chuckwalla Valley in a circuitous path before converging on I-10, as viewed from KOP 8 on westbound I-10. This view to the north captures a central portion of the generally natural appearing northern Chuckwalla Valley, north of I-10. All of the gen-tie alternatives would converge on and then span I-10 in this area. The view is backdropped by the Coxcomb Mountains at a distance of approximately eight miles.

**Figure 4.19-8A**  
**Key Observation Point 8**  
**Westbound I-10**  
**East of Desert Center**



Michael Clayton & Associates

Latitude: 33° 42' 1.65" N Longitude: 115° 18' 13.32" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation** of the **Gen-Tie Alternative E Transmission Line Route**, as it crosses Chuckwalla Valley in a circuitous path before converging on I-10, as viewed from KOP 8 on westbound I-10. Over 30 structures would be visible from I-10 as this alternative winds through Chuckwalla Valley, though, at viewing distances ranging from 0.6 to over five miles, many of the structures would be only faintly visible in the distant middleground. The view is backdropped by the Coxcomb Mountains at a distance of eight miles.

**Figure 4.19-8B**  
**Key Observation Point 8**  
**Westbound I-10**  
**East of Desert Center**



Michael Clayton & Associates

Latitude: 33° 42' 2.28" N Longitude: 115° 18' 14.92" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents the **Existing View** of the central and northern portions of Chuckwalla Valley in the vicinity of the **Proposed Solar Field** and the **Proposed Gen-Tie Route**, as viewed from KOP 8A on westbound I-10. As is apparent from this image, this portion of the Chuckwalla Valley north of I-10 is predominantly natural in appearance. From this viewpoint, the valley floor is backdropped by the Eagle and Coxcomb Mountains and is surrounded on three sides by Joshua Tree Wilderness.

**Figure 4.19-8C**  
**Key Observation Point 8A**  
**Westbound I-10**  
**East of Desert Center**



Michael Clayton & Associates

Latitude: 33° 42' 2.28" N Longitude: 115° 18' 14.92" W



U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
California Desert District  
The Bureau of Land Management make no  
warranties, implied or expressed, with respect  
to information shown on this map.

This image presents a **Visual Simulation of Alternative 7** (high profile, single-axis tracking panels) and the **Proposed Gen-Tie Route**, as viewed from KOP 8A on westbound I-10. At this viewing distance of approximately 6.75 miles, the solar field would be a noticeable, linear horizontal feature along the Chuckwalla Valley floor. The solar field is shown here as reflecting the bluish hues of the sky. The appearance of the solar panels will change depending on time of day, orientation of the tracking panels, and characteristics of the reflected sky.

**Figure 4.19-8D**  
**Key Observation Point 8A**  
**Westbound I-10**  
**East of Desert Center**