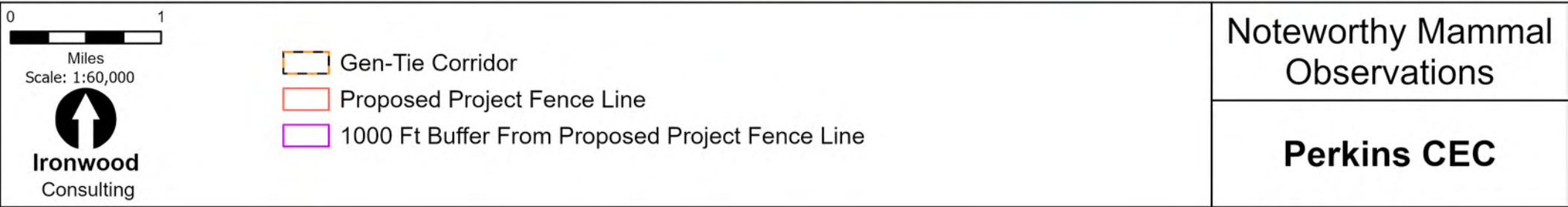
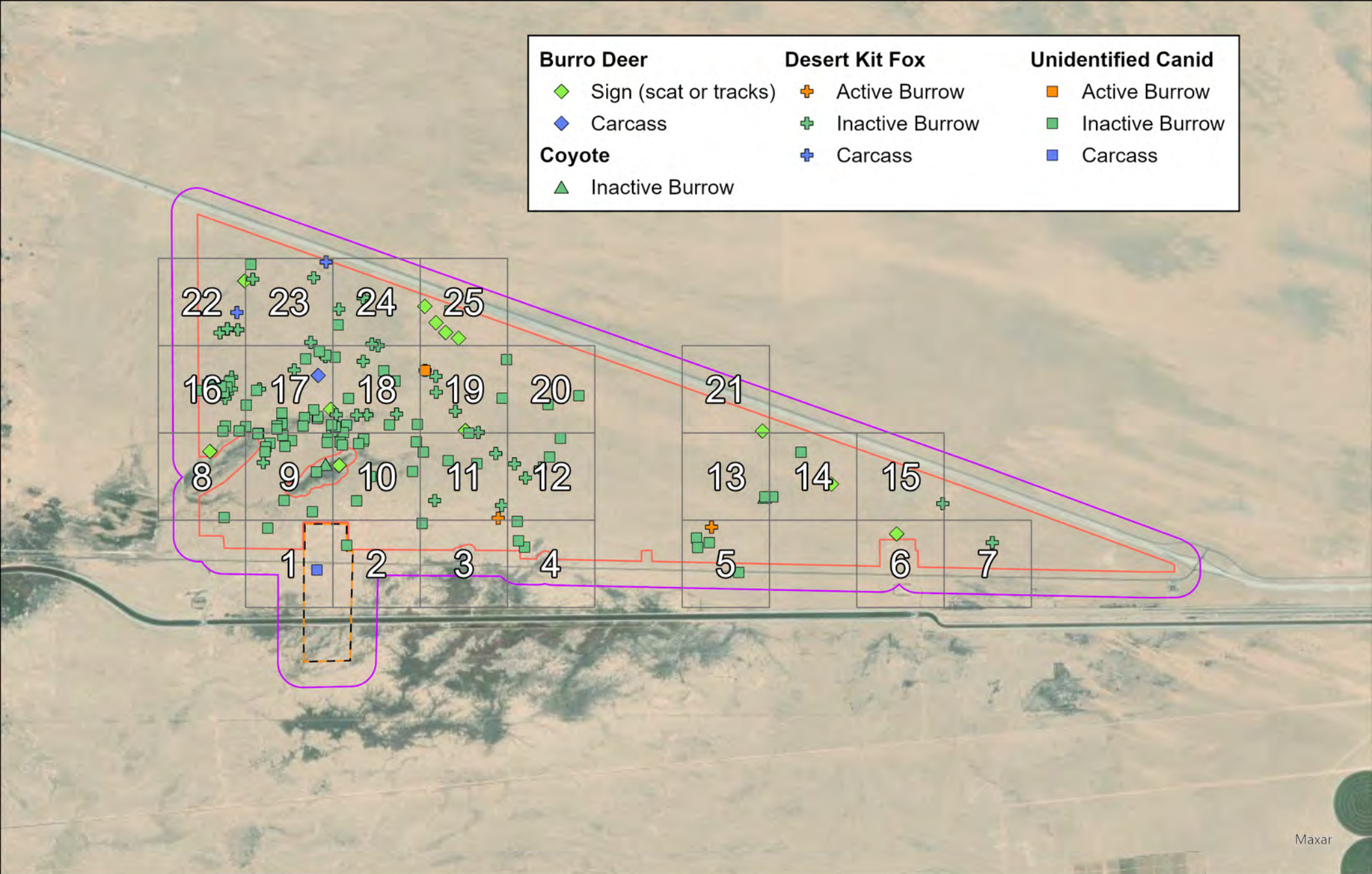
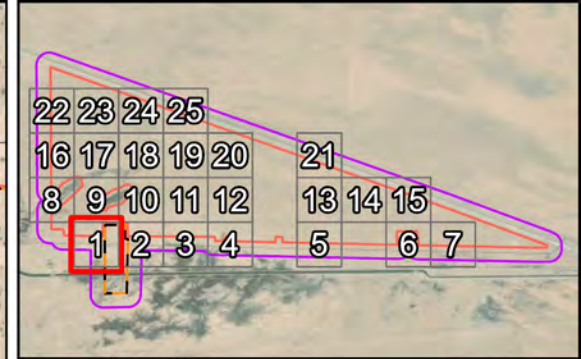
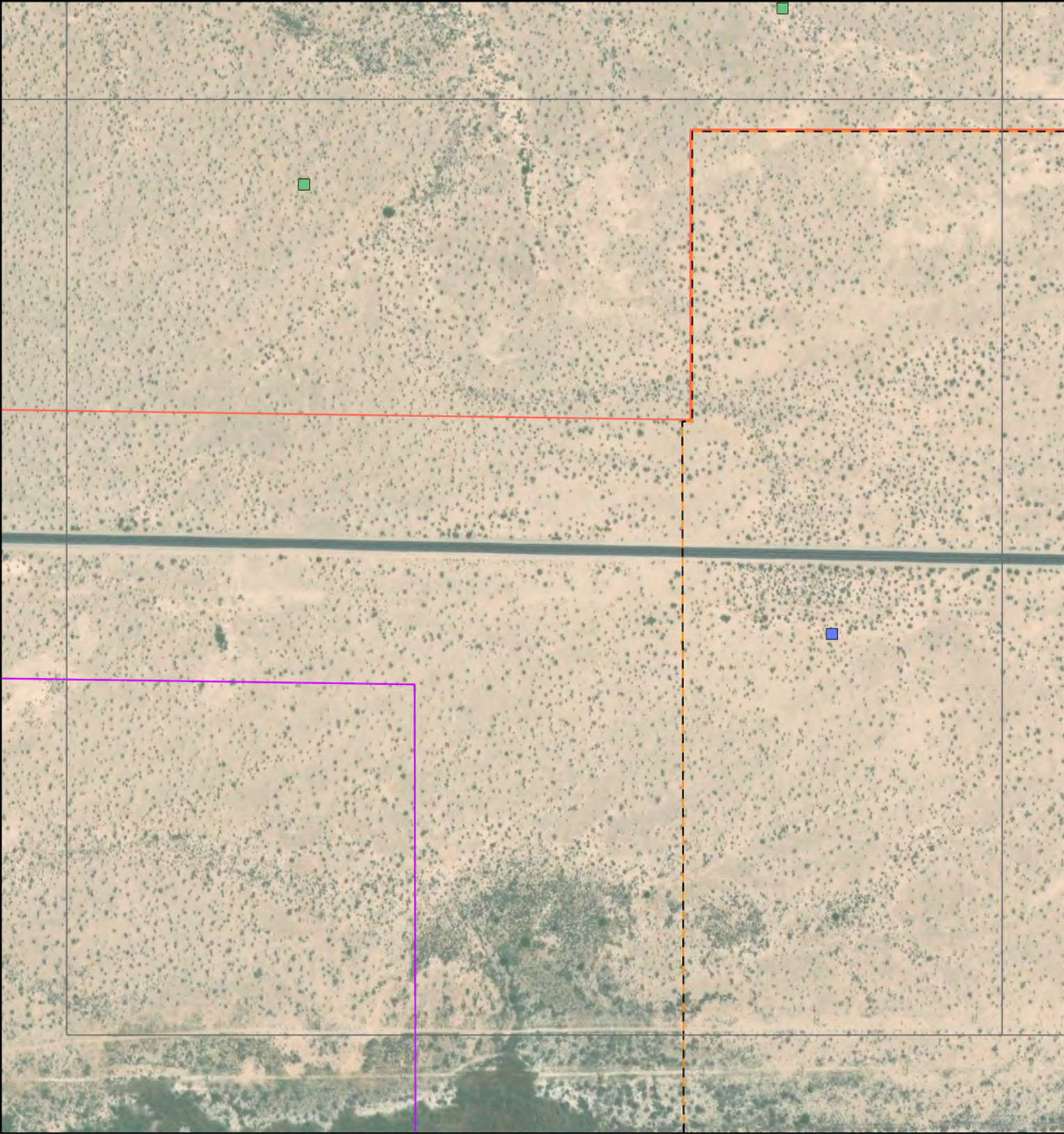


DOCKETED	
Docket Number:	24-OPT-01
Project Title:	Perkins Renewable Energy Project
TN #:	256714
Document Title:	Appendix J4 CNDDB Figures - Mammals and Sand transport
Description:	Figures showing survey results for mammals and sand transport data
Filer:	Emily Capello
Organization:	Panorama Environmental, Inc.
Submitter Role:	Applicant Consultant
Submission Date:	6/5/2024 8:42:47 PM
Docketed Date:	6/6/2024

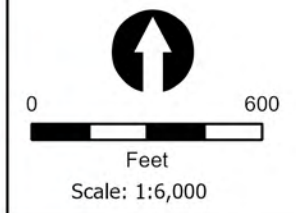
Appendix J.4 Confidential Biological Resources Figures Part 2





Unidentified Canid

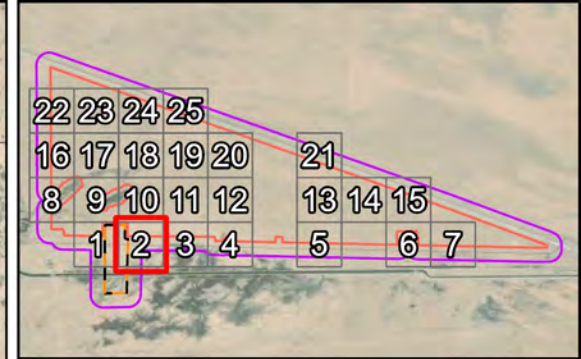
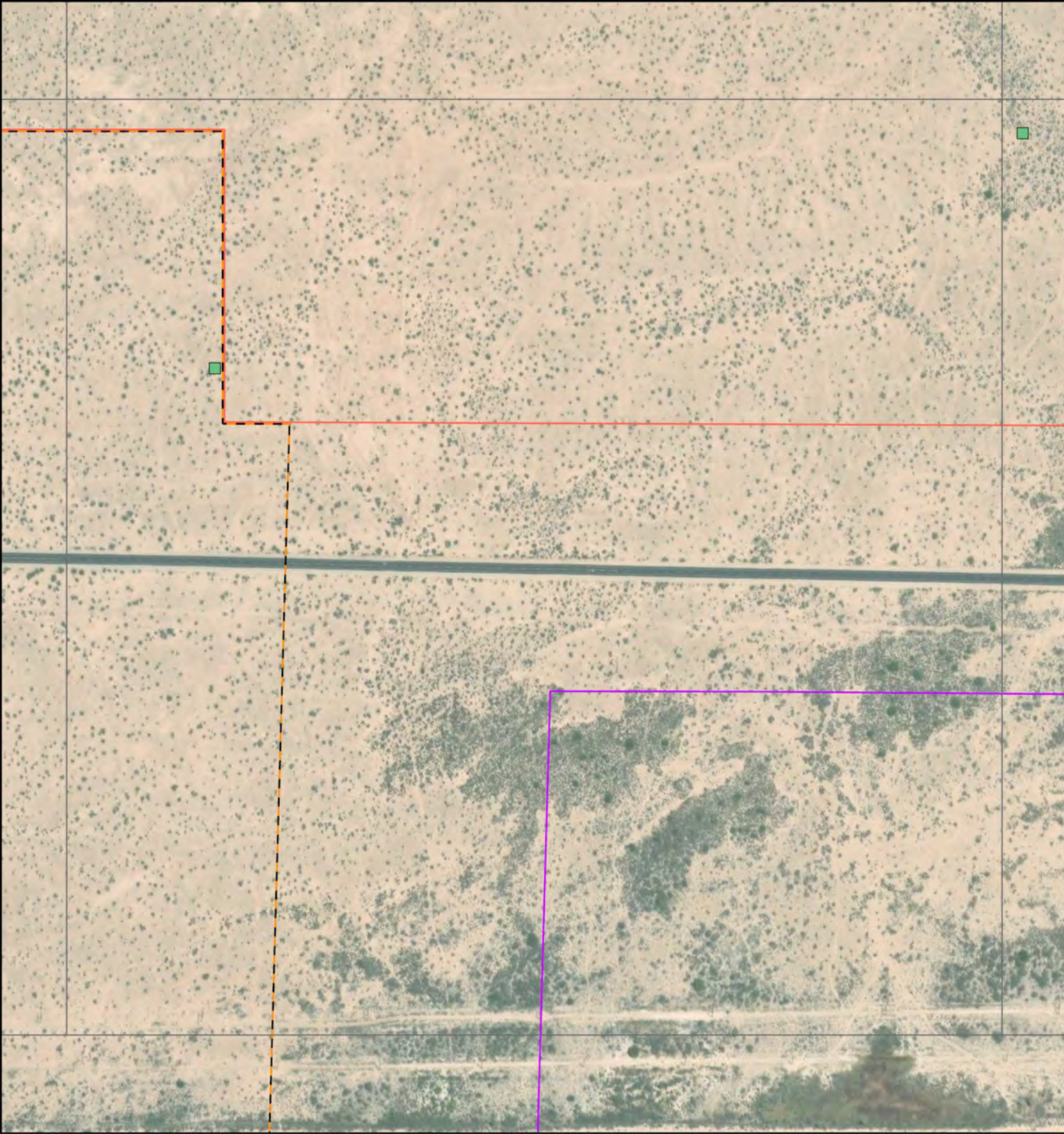
-  Inactive Burrow
-  Carcass
-  Gen-Tie Corridor
-  Proposed Project Fence Line
-  1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

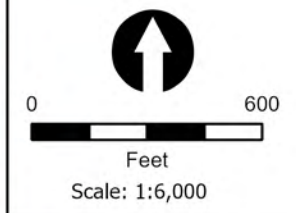
**Noteworthy Mammal
Observations: 1**

Perkins CEC



Unidentified Canid

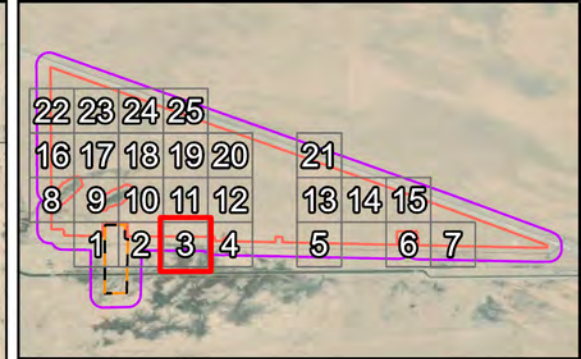
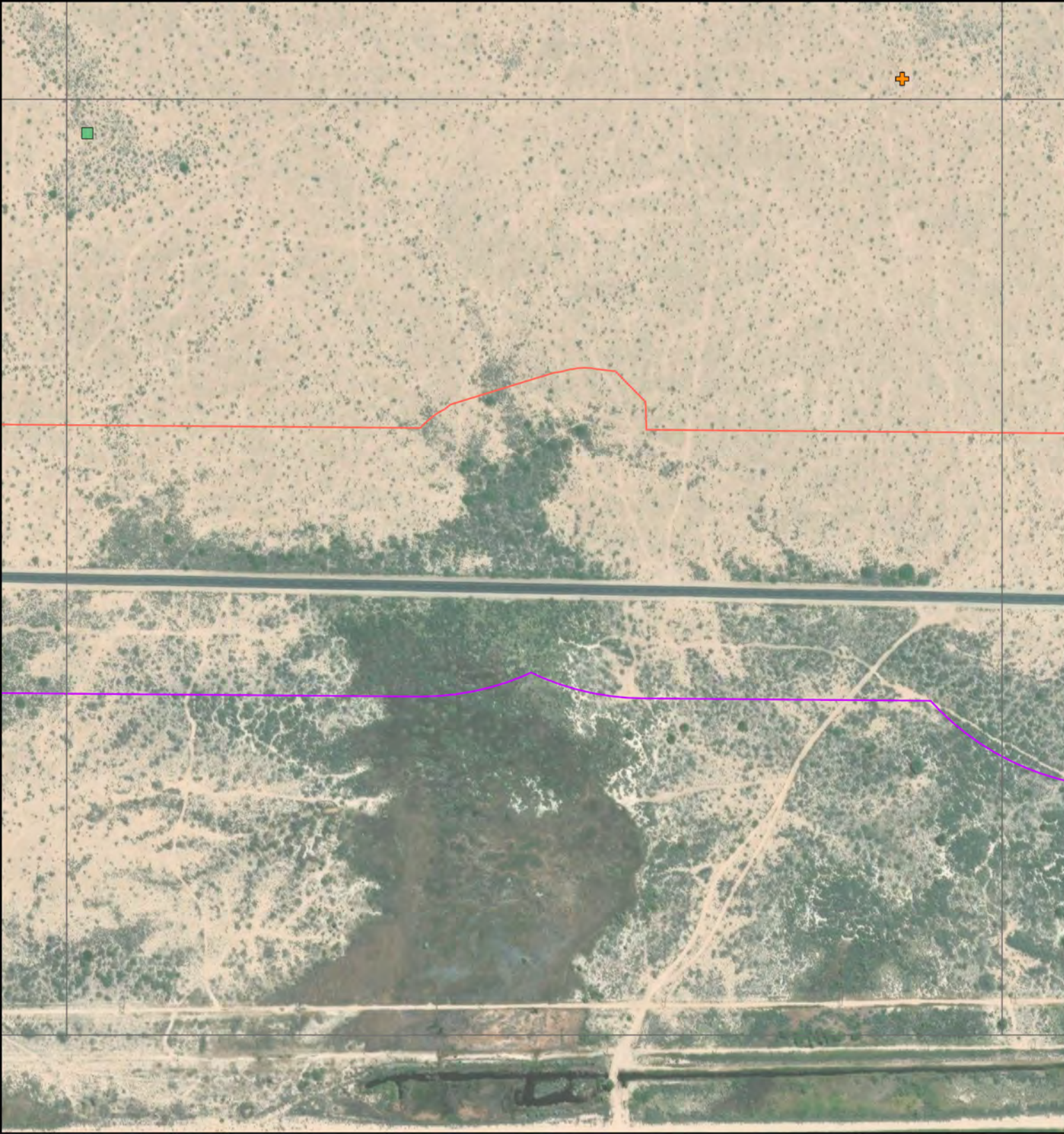
-  Inactive Burrow
-  Gen-Tie Corridor
-  Proposed Project Fence Line
-  1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 2**

Perkins CEC



Desert Kit Fox

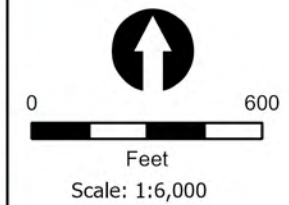
✚ Active Burrow

Unidentified Canid

■ Inactive Burrow

▭ Proposed Project Fence Line

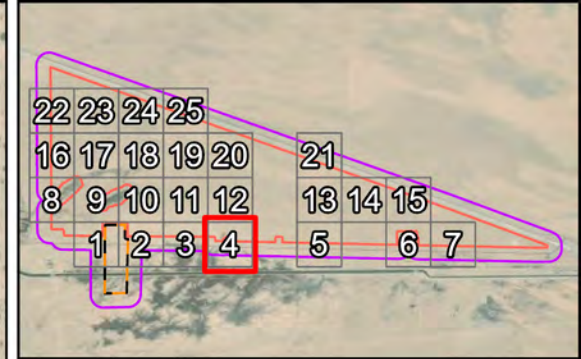
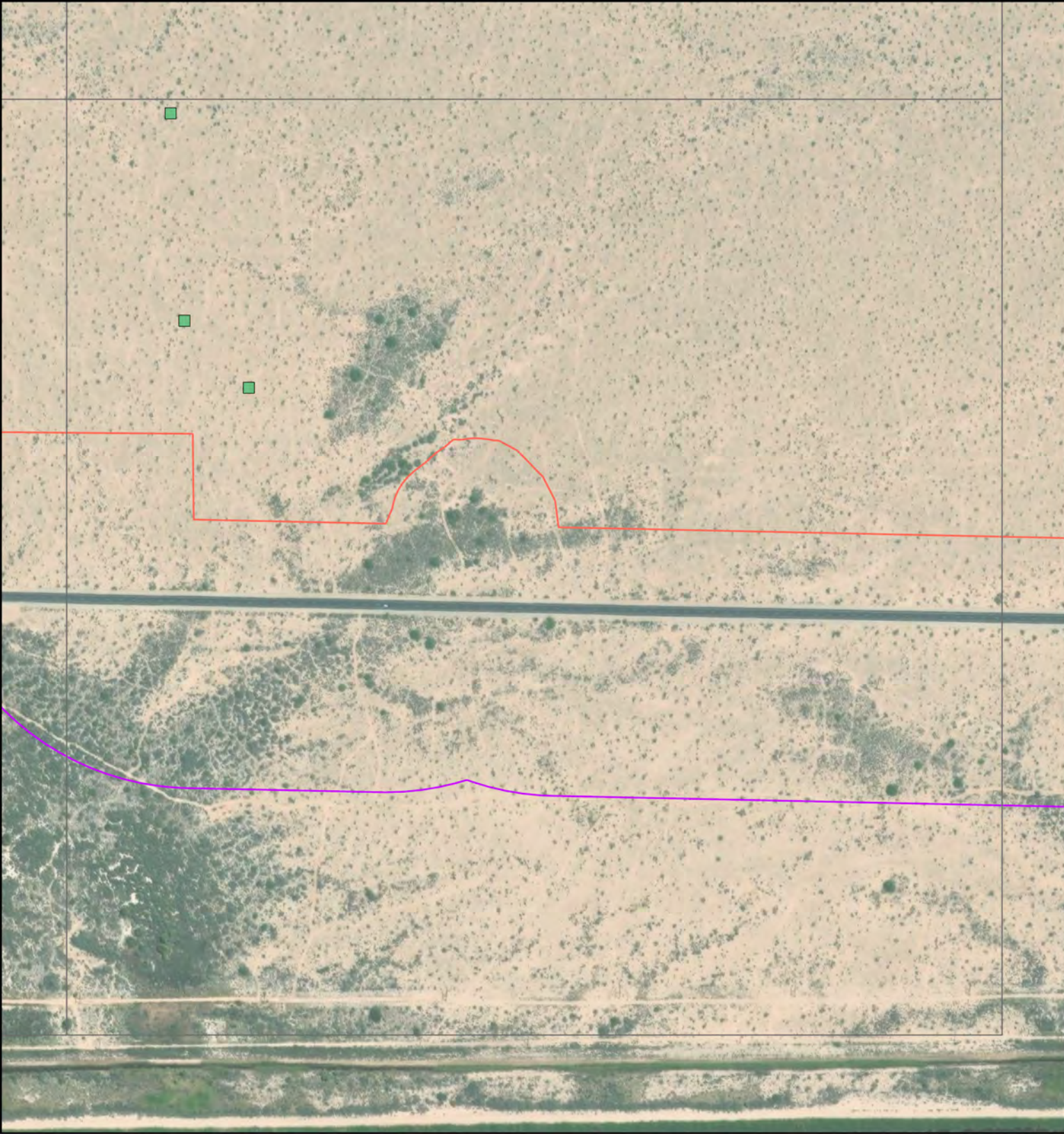
▭ 1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

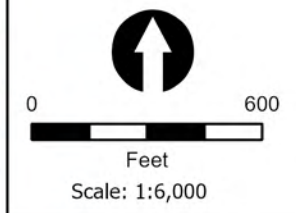
Noteworthy Mammal
Observations: 3

Perkins CEC



Unidentified Canid

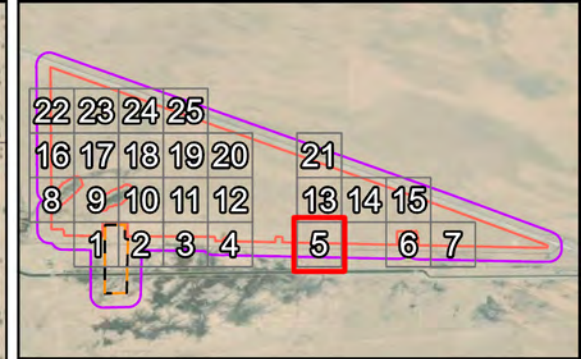
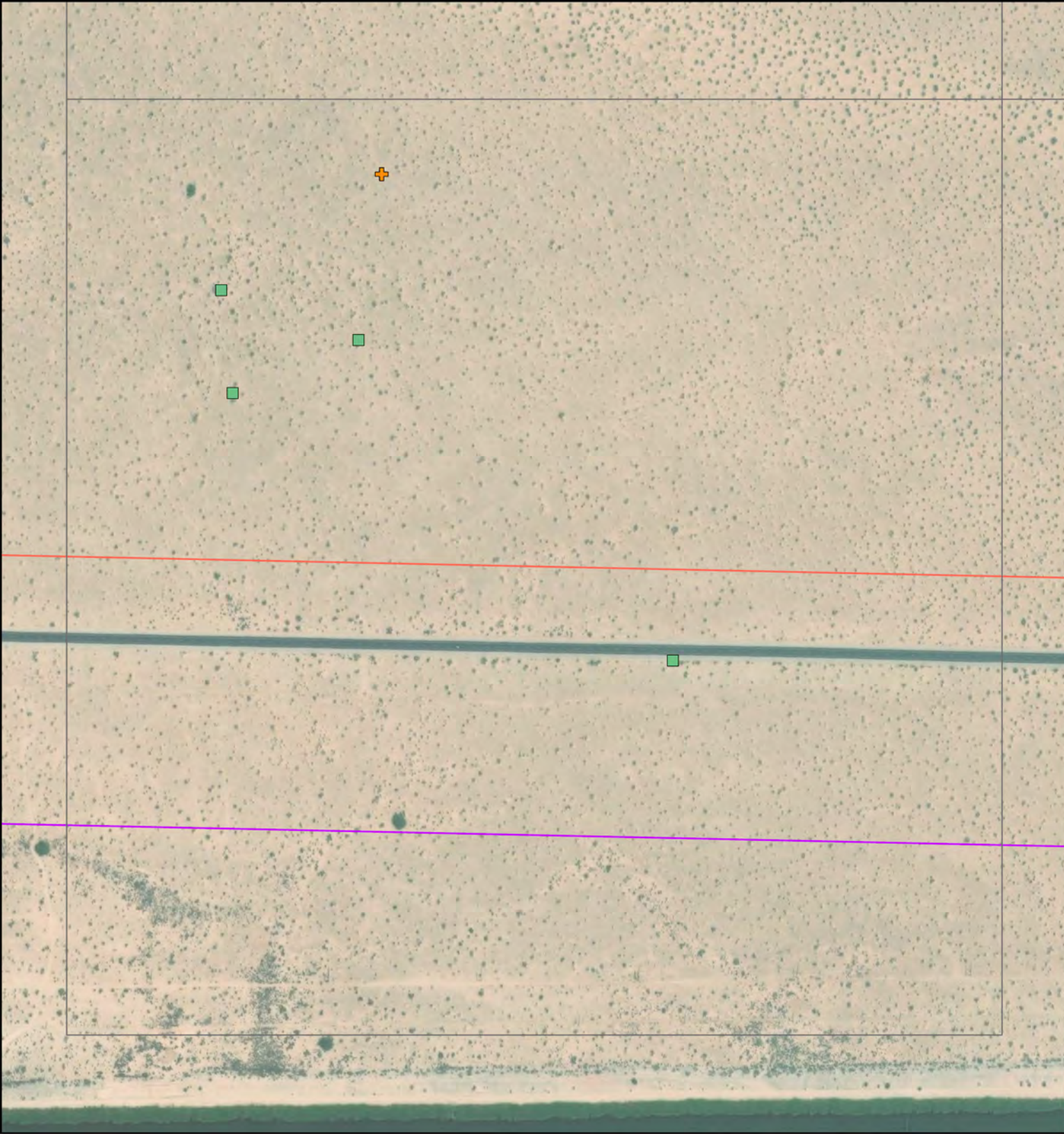
-  Inactive Burrow
-  Proposed Project Fence Line
-  1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 4**

Perkins CEC



Desert Kit Fox

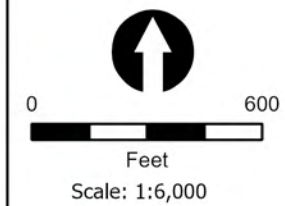
+ Active Burrow

Unidentified Canid

■ Inactive Burrow

□ Proposed Project Fence Line

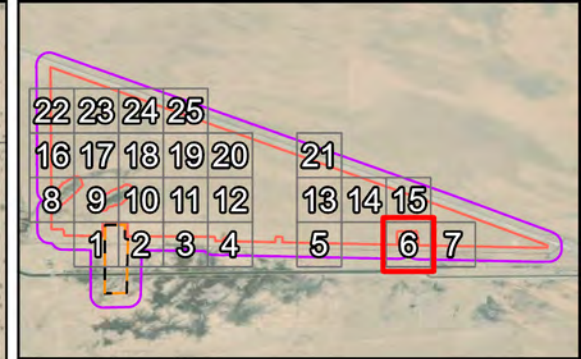
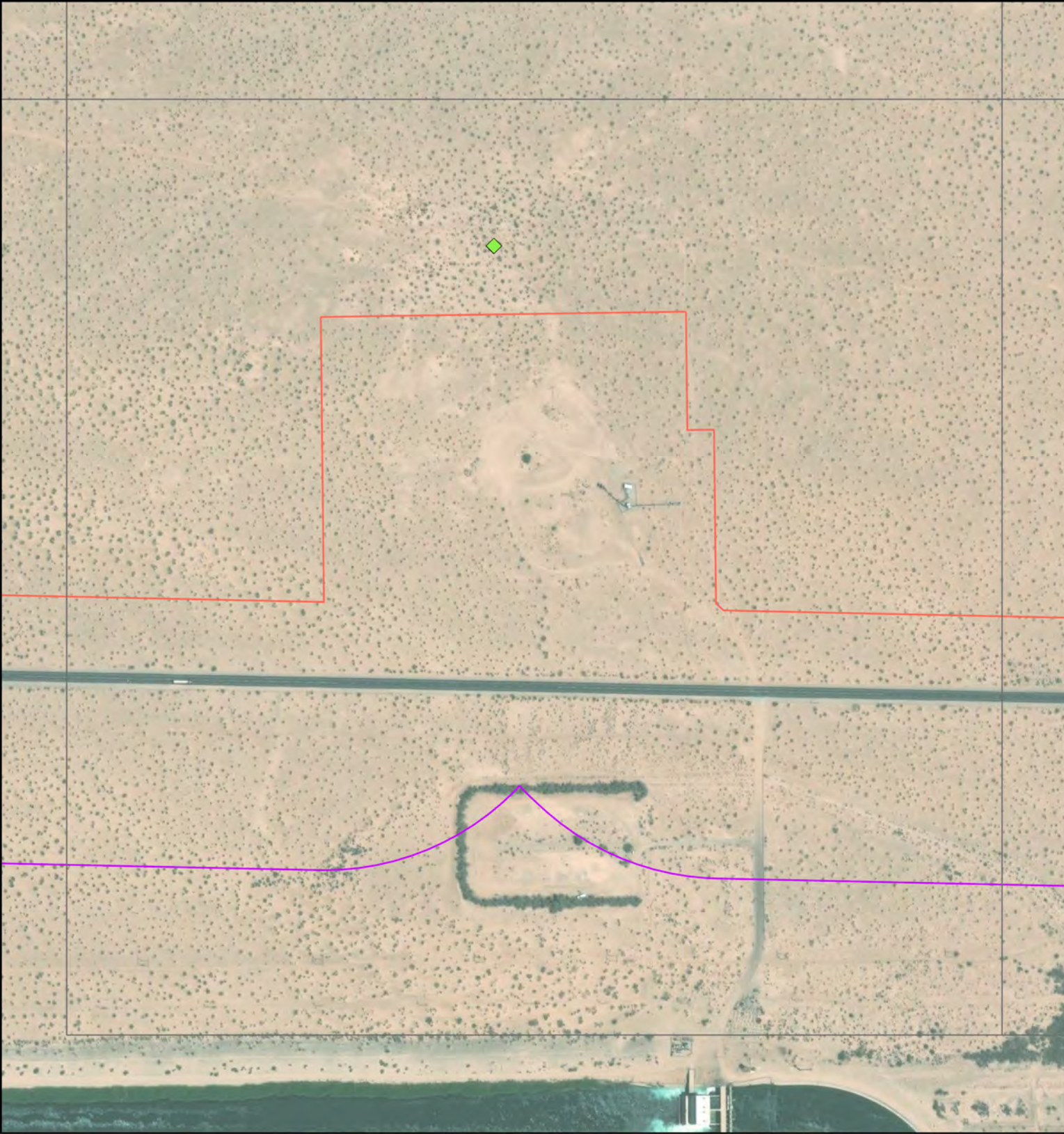
□ 1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

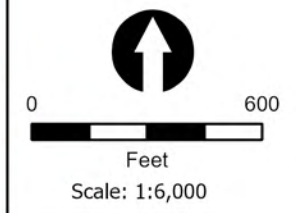
Noteworthy Mammal
Observations: 5

Perkins CEC



Burro Deer

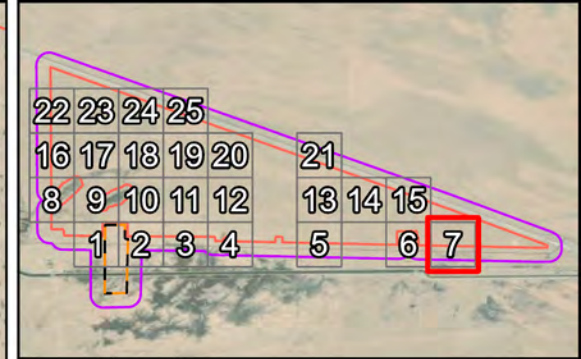
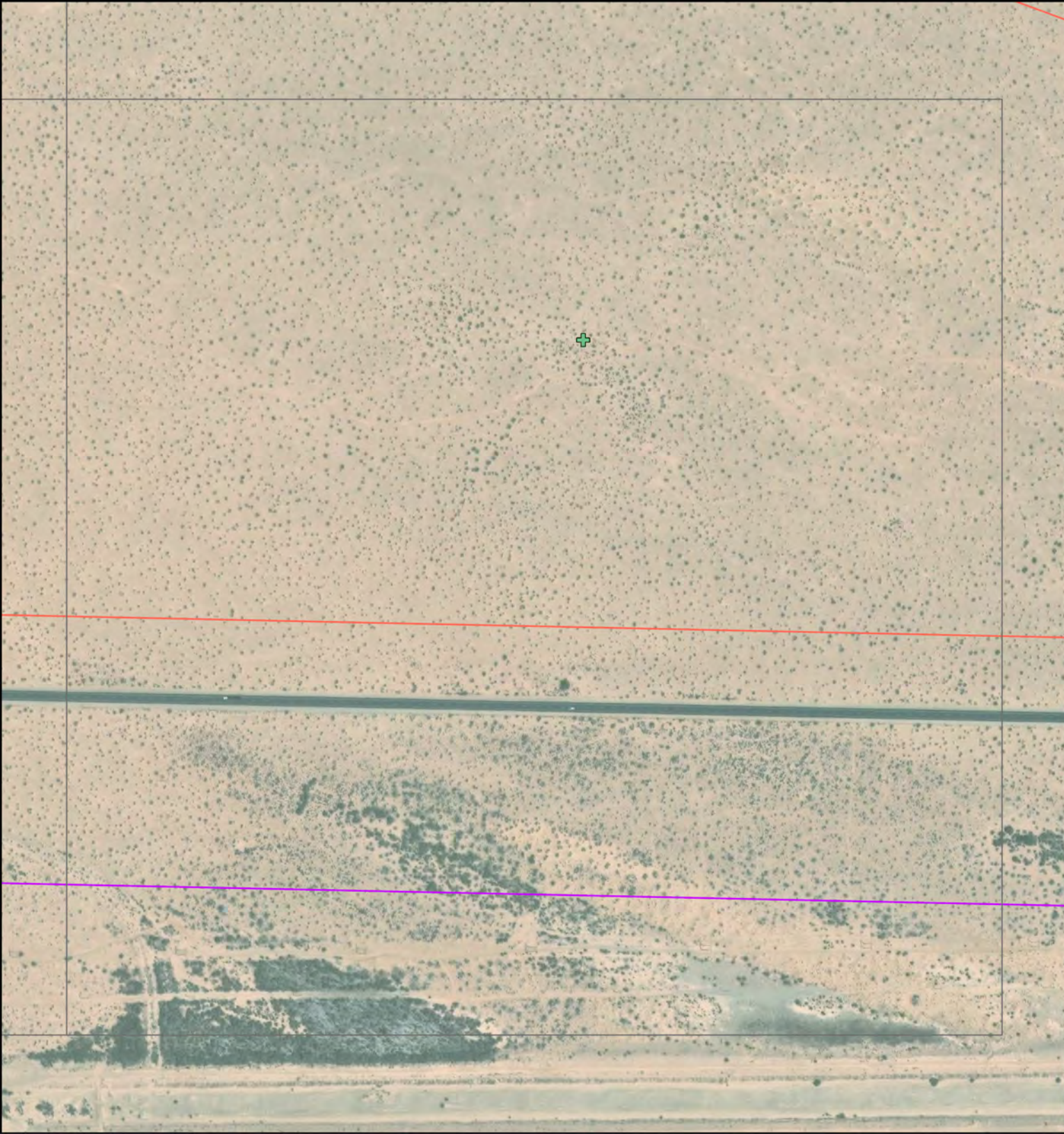
-  Sign (scat or tracks)
-  Proposed Project Fence Line
-  1000 Ft Buffer From Proposed Project Fence Line



Ironwood Consulting

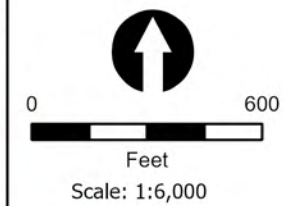
Noteworthy Mammal Observations: 6

Perkins CEC



Desert Kit Fox

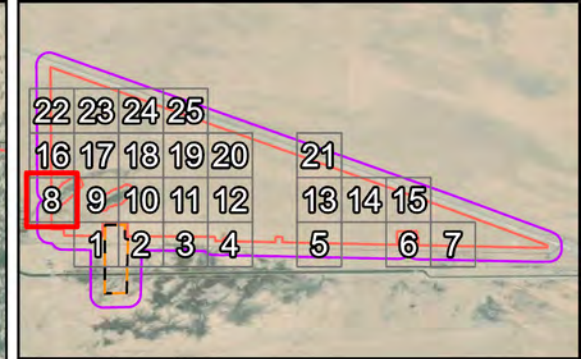
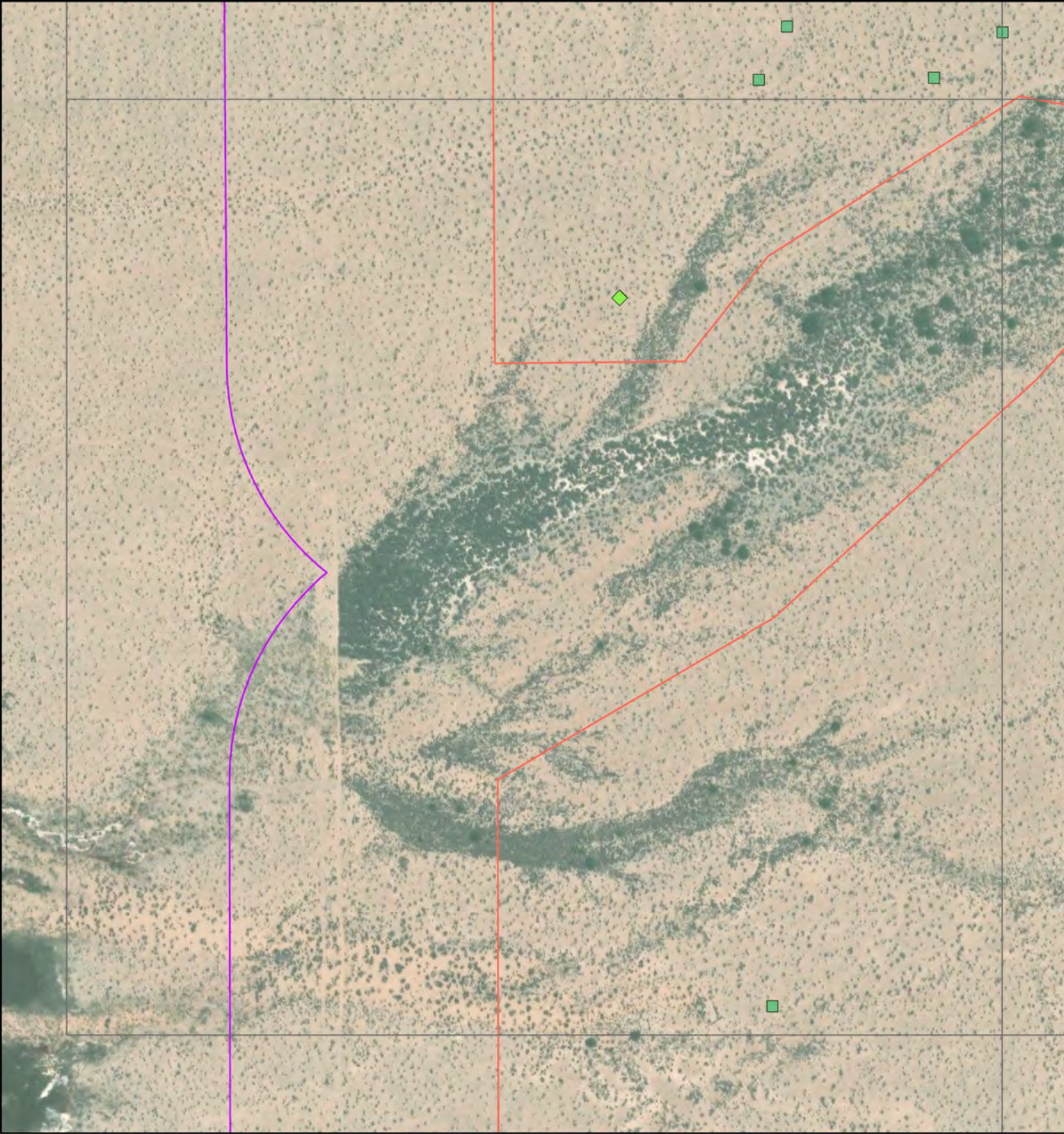
-  Inactive Burrow
-  Proposed Project Fence Line
-  1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 7**

Perkins CEC

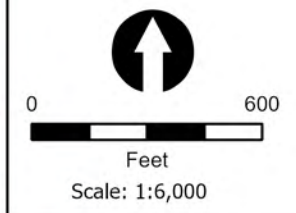


Burro Deer

- ◆ Sign (scat or tracks)

Unidentified Canid

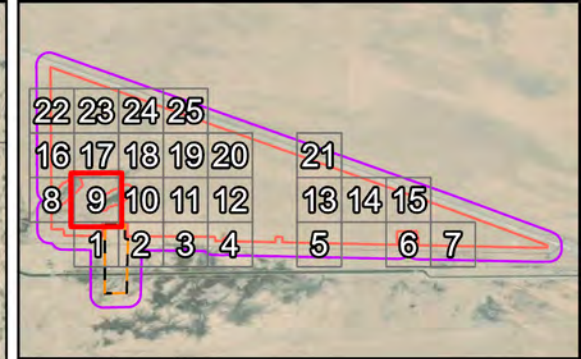
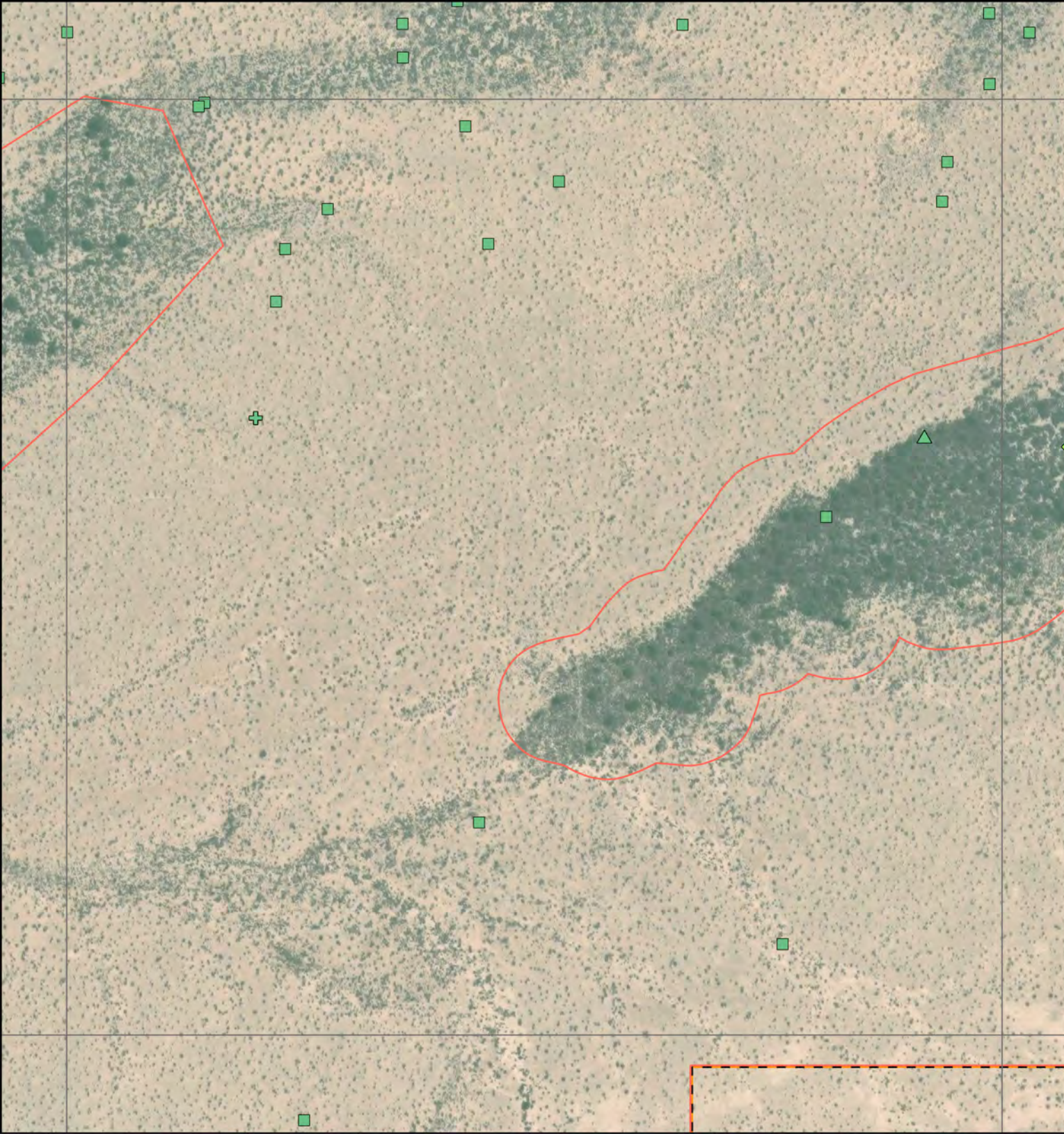
- Inactive Burrow
- Proposed Project Fence Line
- 1000 Ft Buffer From Proposed Project Fence Line



Ironwood Consulting

Noteworthy Mammal Observations: 8

Perkins CEC



Burro Deer

- ◆ Sign (scat or tracks)

Coyote

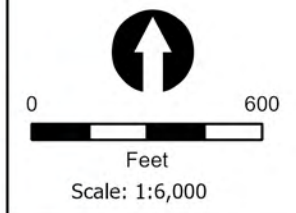
- ▲ Inactive Burrow

Desert Kit Fox

- + Inactive Burrow

Unidentified Canid

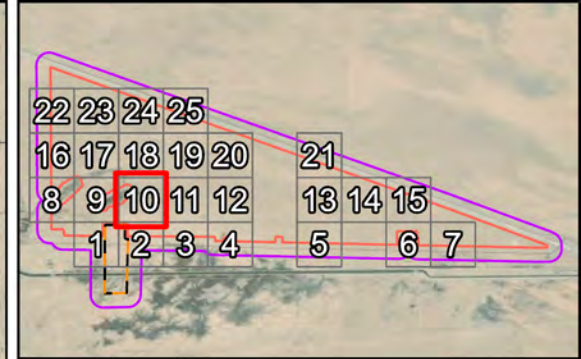
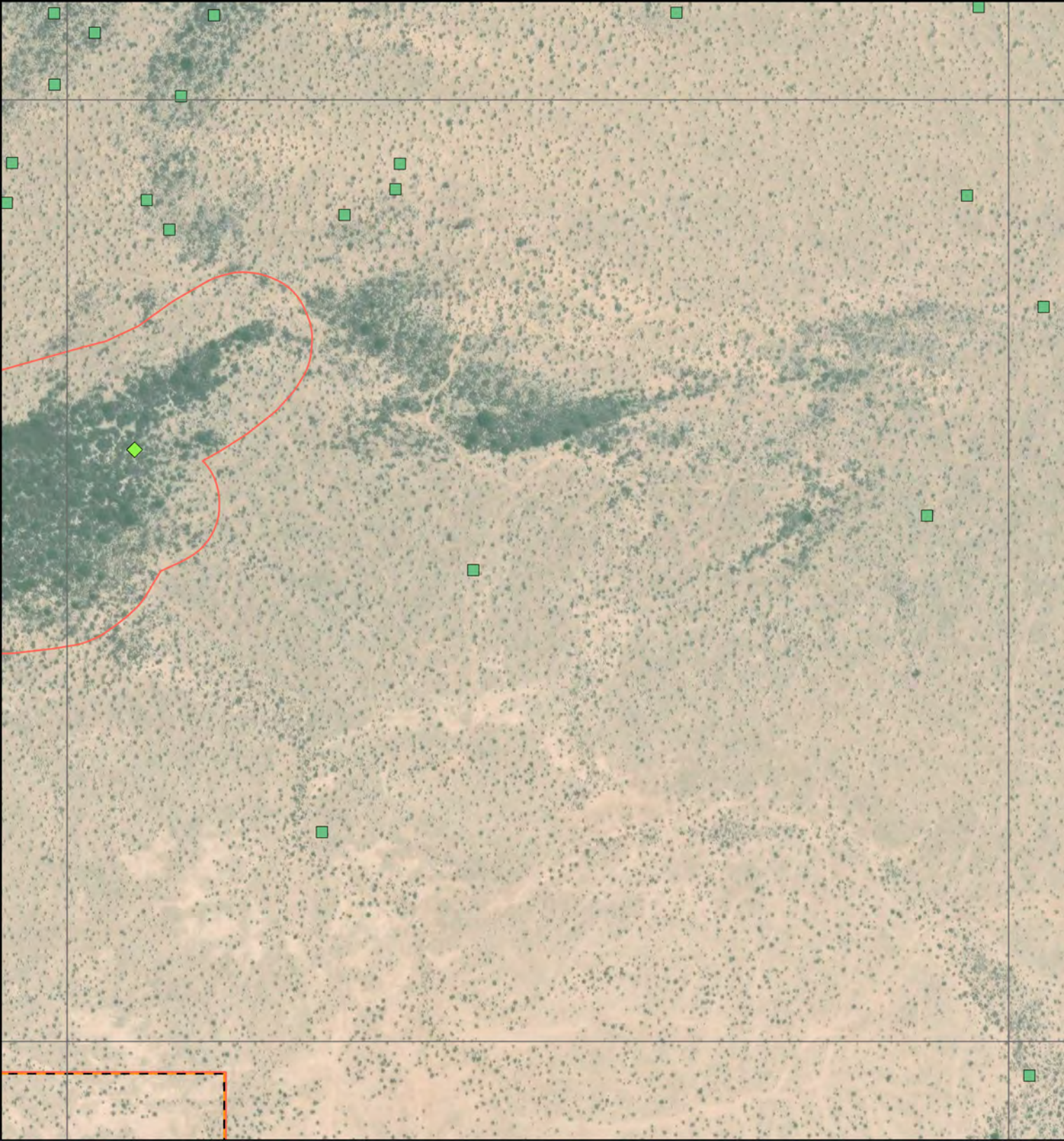
- Inactive Burrow
- ▭ Gen-Tie Corridor
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 9**

Perkins CEC

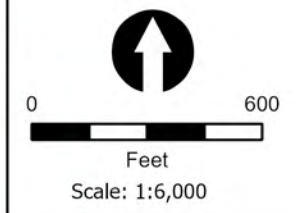


Burro Deer

- ◆ Sign (scat or tracks)

Unidentified Canid

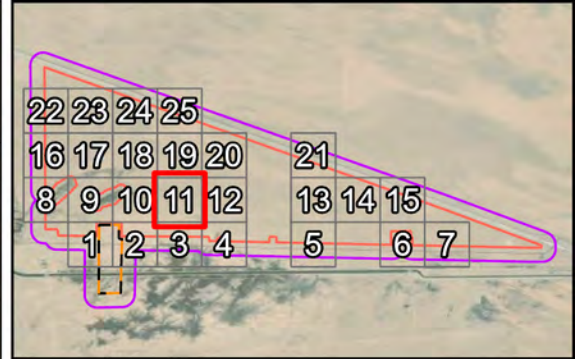
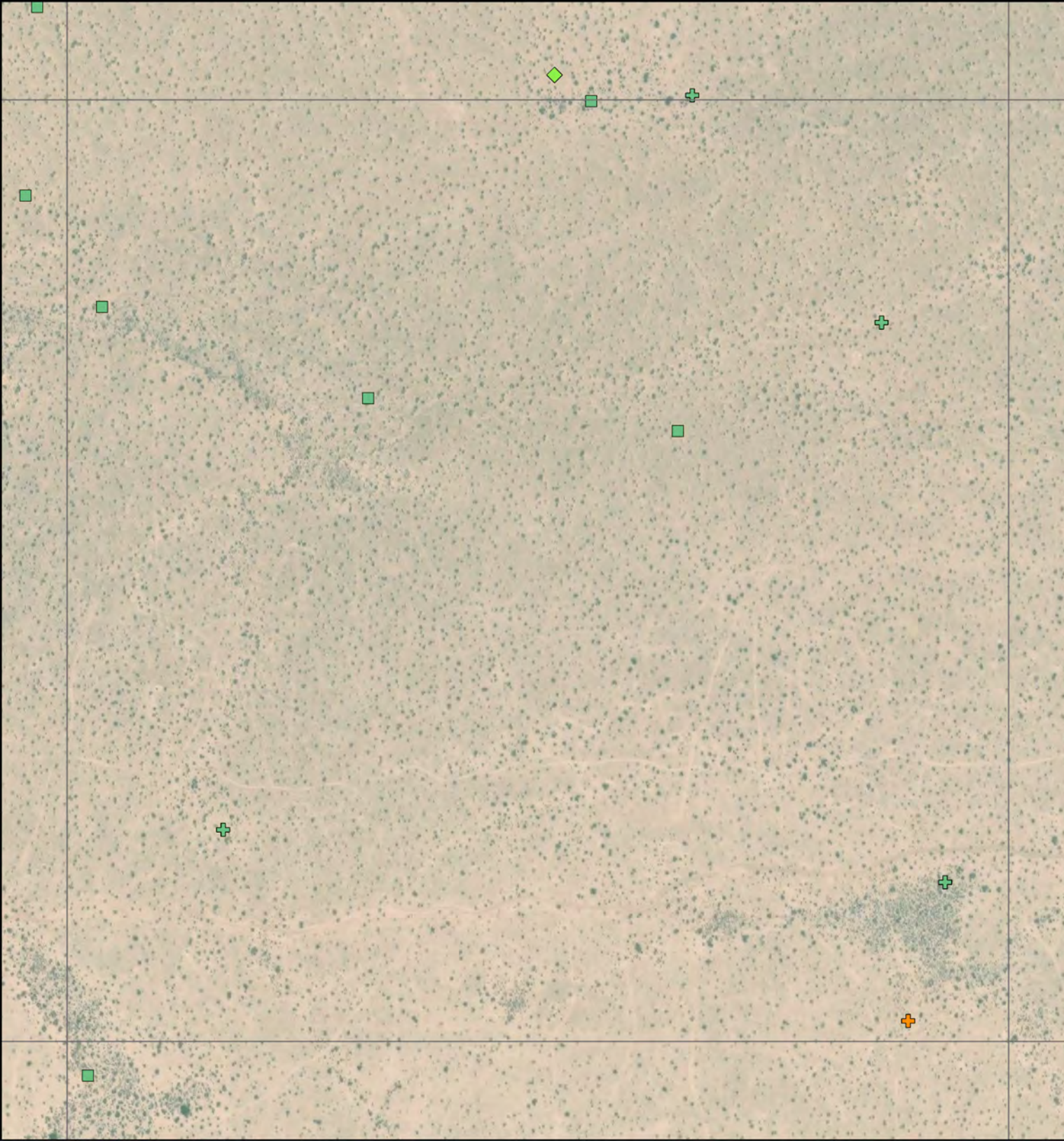
- Inactive Burrow
- ▭ Gen-Tie Corridor
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 10**

Perkins CEC



Burro Deer

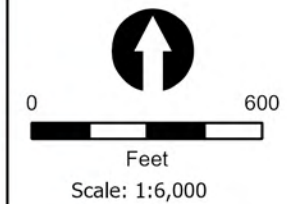
- ◆ Sign (scat or tracks)

Desert Kit Fox

- ✚ Active Burrow
- ✚ Inactive Burrow

Unidentified Canid

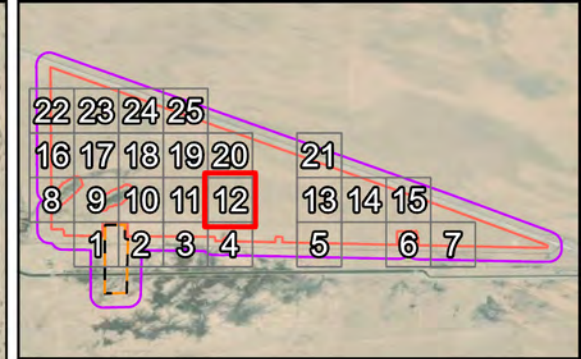
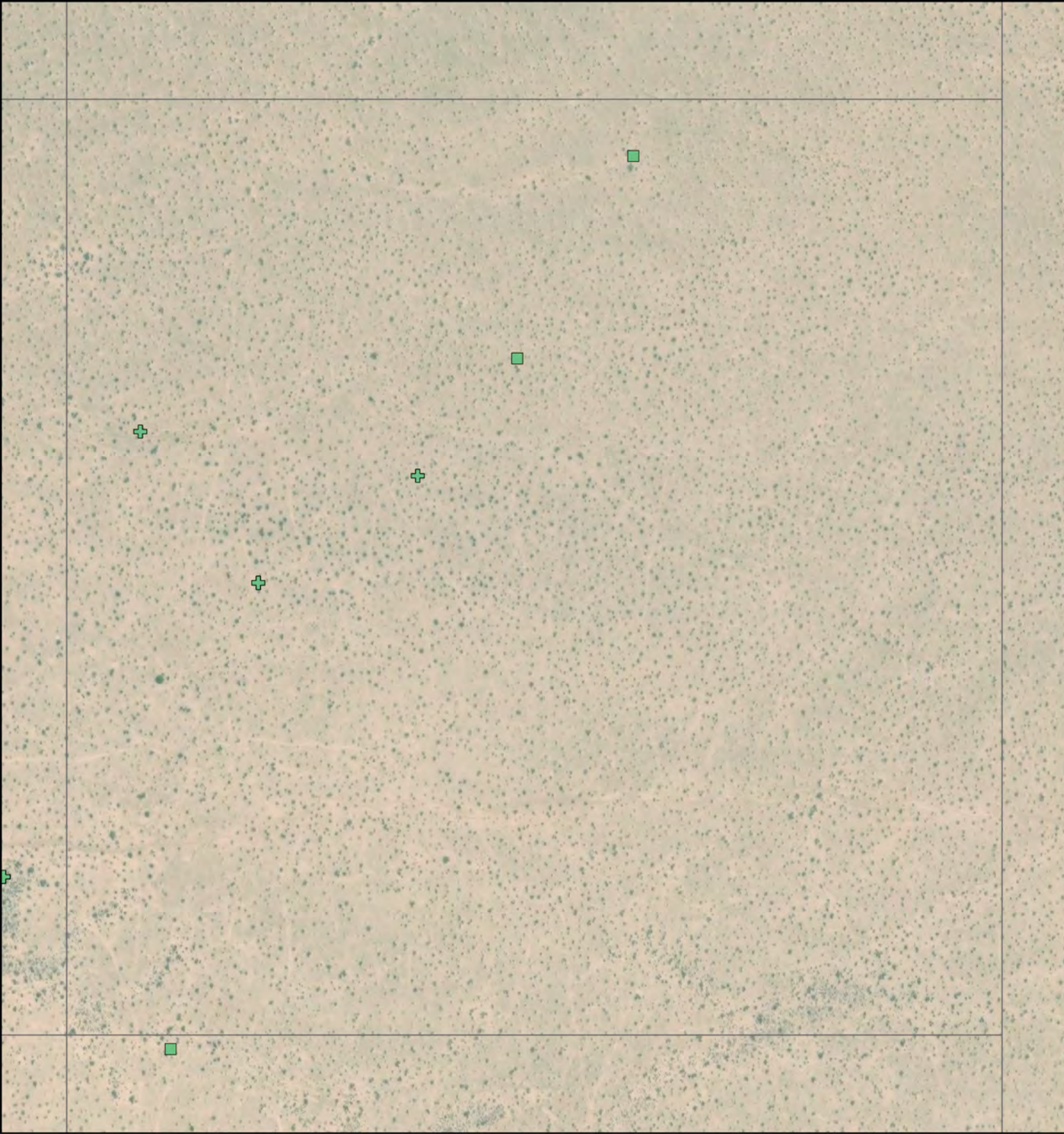
- Inactive Burrow
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 11**

Perkins CEC



Desert Kit Fox

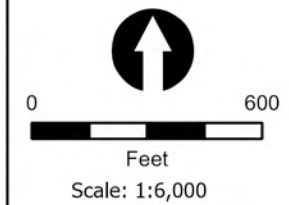
+ Inactive Burrow

Unidentified Canid

■ Inactive Burrow

□ Proposed Project Fence Line

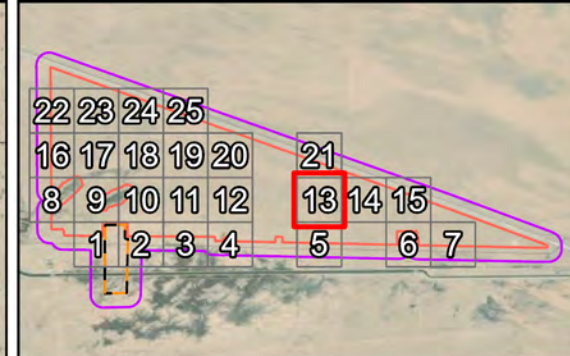
□ 1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

**Noteworthy Mammal
Observations: 12**

Perkins CEC



Burro Deer

- ◆ Sign (scat or tracks)

Coyote

- ▲ Inactive Burrow

Desert Kit Fox

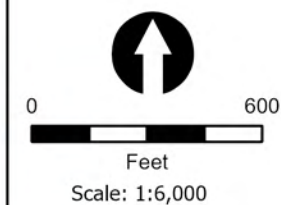
- ✚ Active Burrow

Unidentified Canid

- Inactive Burrow

- Proposed Project Fence Line

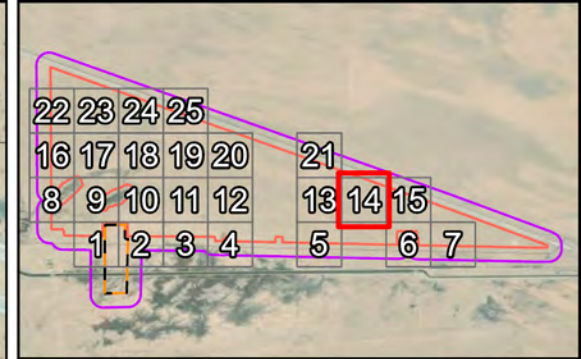
- 1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

Noteworthy Mammal
Observations: 13

Perkins CEC



Burro Deer

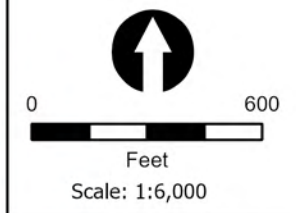
- ◆ Sign (scat or tracks)

Coyote

- ▲ Inactive Burrow

Unidentified Canid

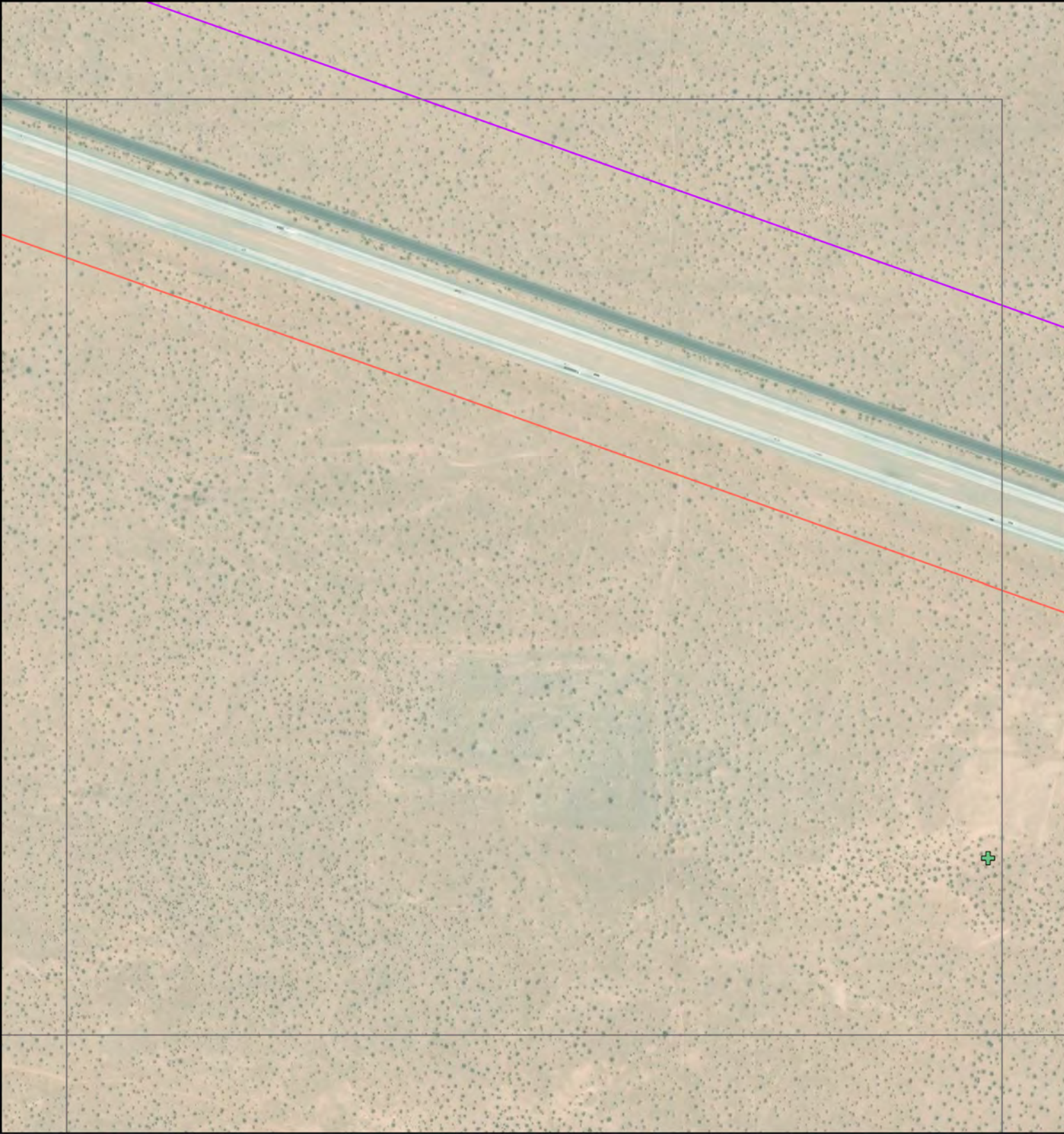
- Inactive Burrow
- Proposed Project Fence Line
- 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

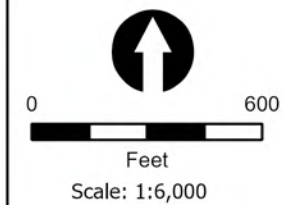
**Noteworthy Mammal
Observations: 14**

Perkins CEC



Desert Kit Fox

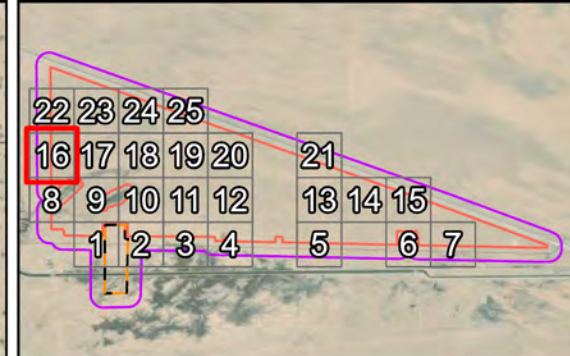
-  Inactive Burrow
-  Proposed Project Fence Line
-  1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

**Noteworthy Mammal
Observations: 15**

Perkins CEC



Desert Kit Fox

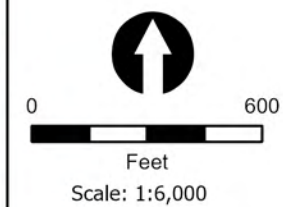
+ Inactive Burrow

Unidentified Canid

■ Inactive Burrow

□ Proposed Project Fence Line

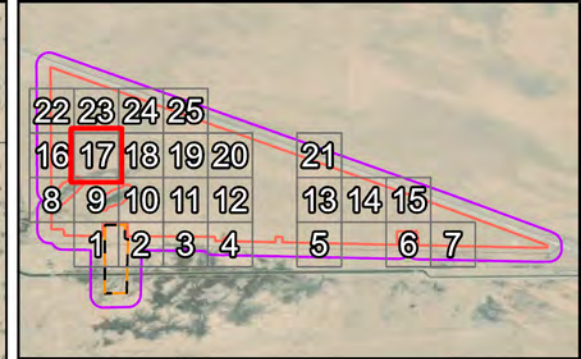
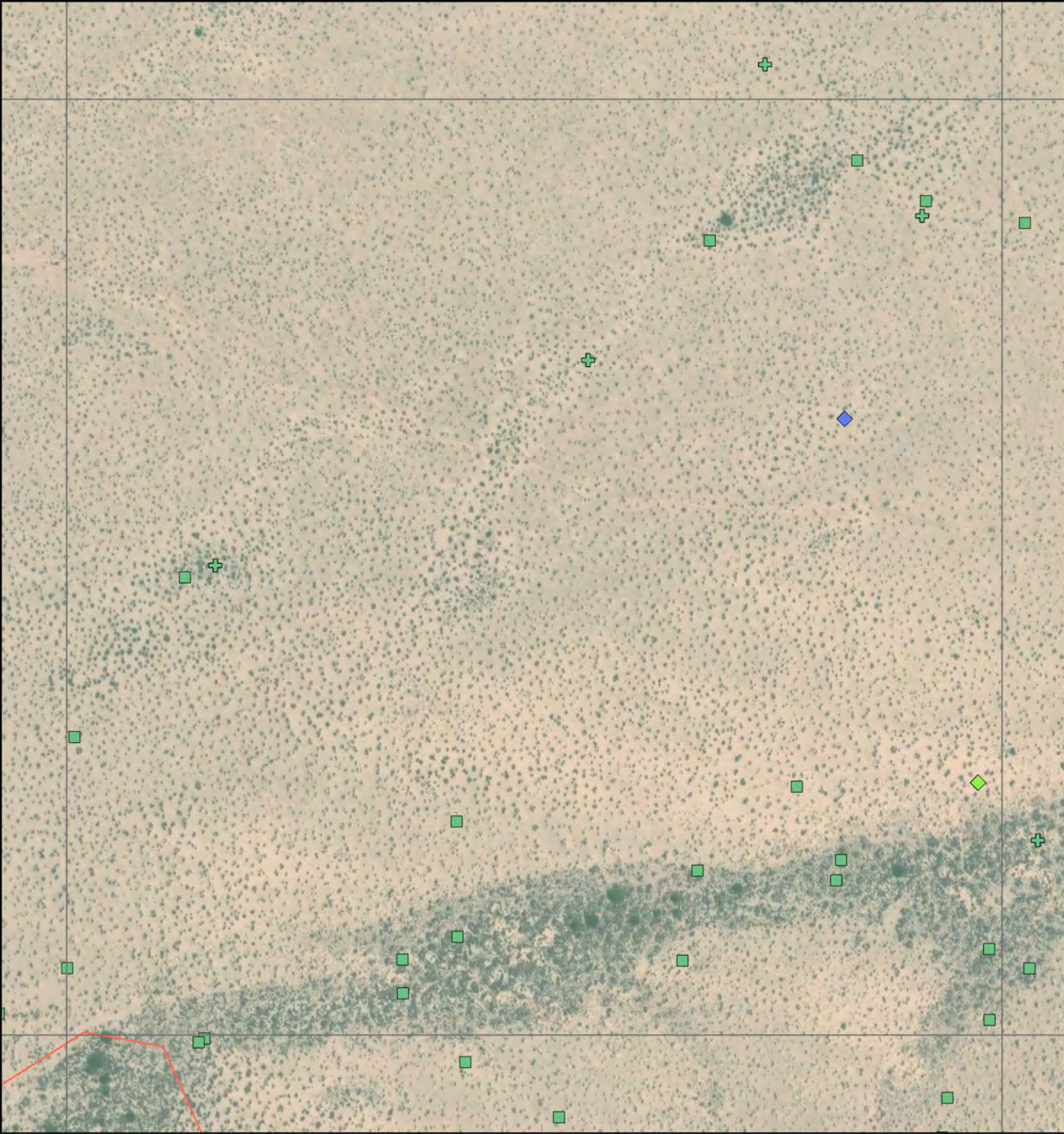
□ 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 16**

Perkins CEC



Burro Deer

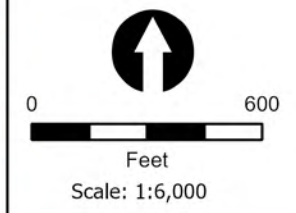
- ◆ Sign (scat or tracks)
- ◆ Carcass

Desert Kit Fox

- + Inactive Burrow

Unidentified Canid

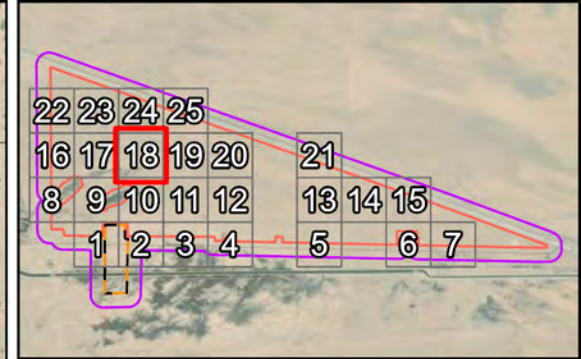
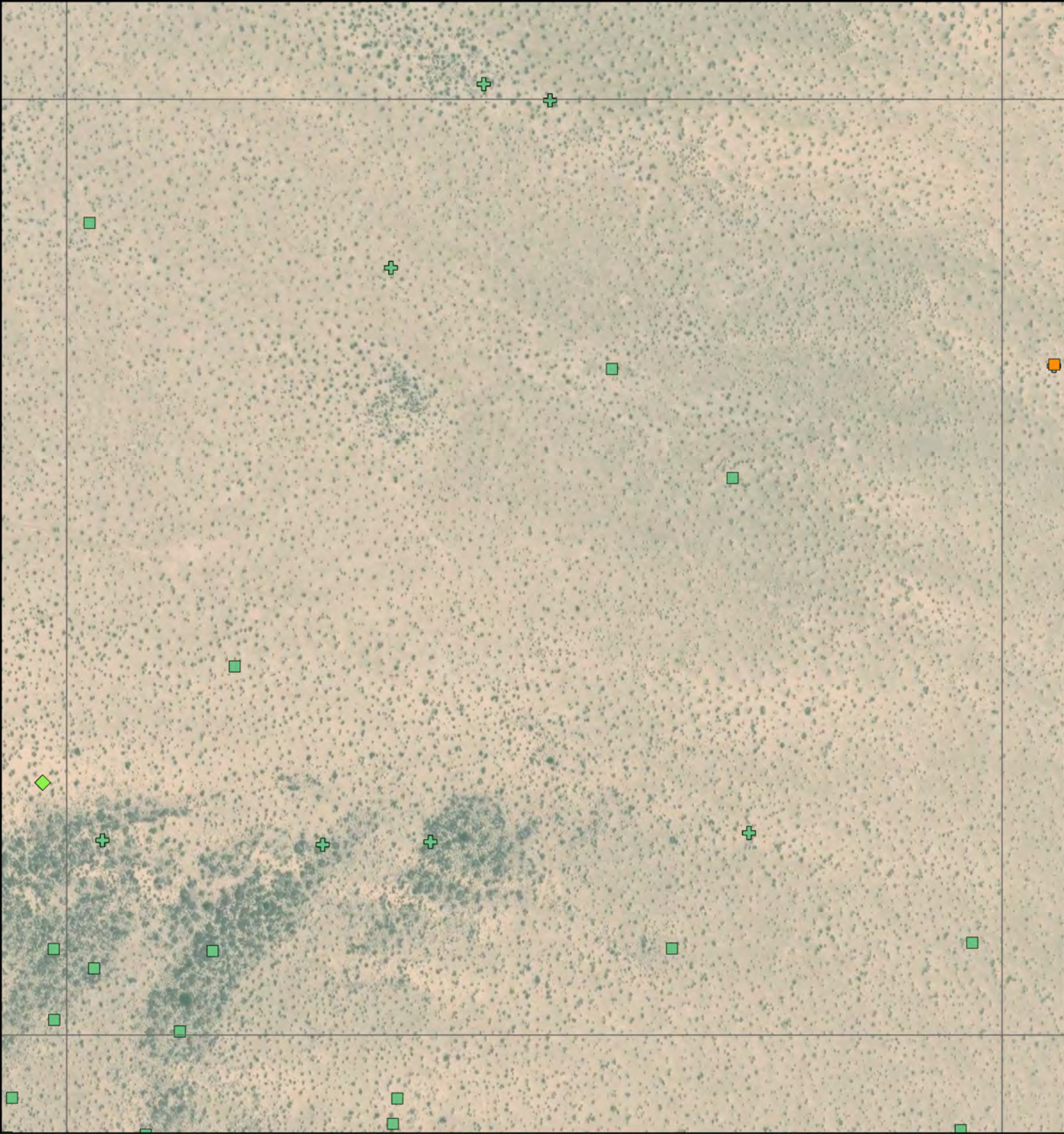
- Inactive Burrow
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 17**

Perkins CEC



Burro Deer

- ◆ Sign (scat or tracks)

Desert Kit Fox

- ✚ Inactive Burrow

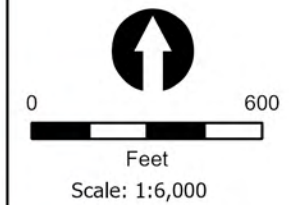
Unidentified Canid

- Active Burrow

- Inactive Burrow

- Proposed Project Fence Line

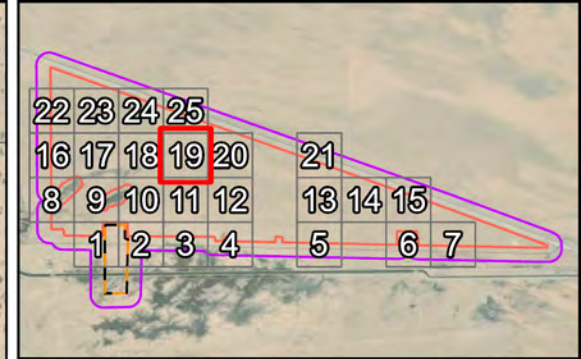
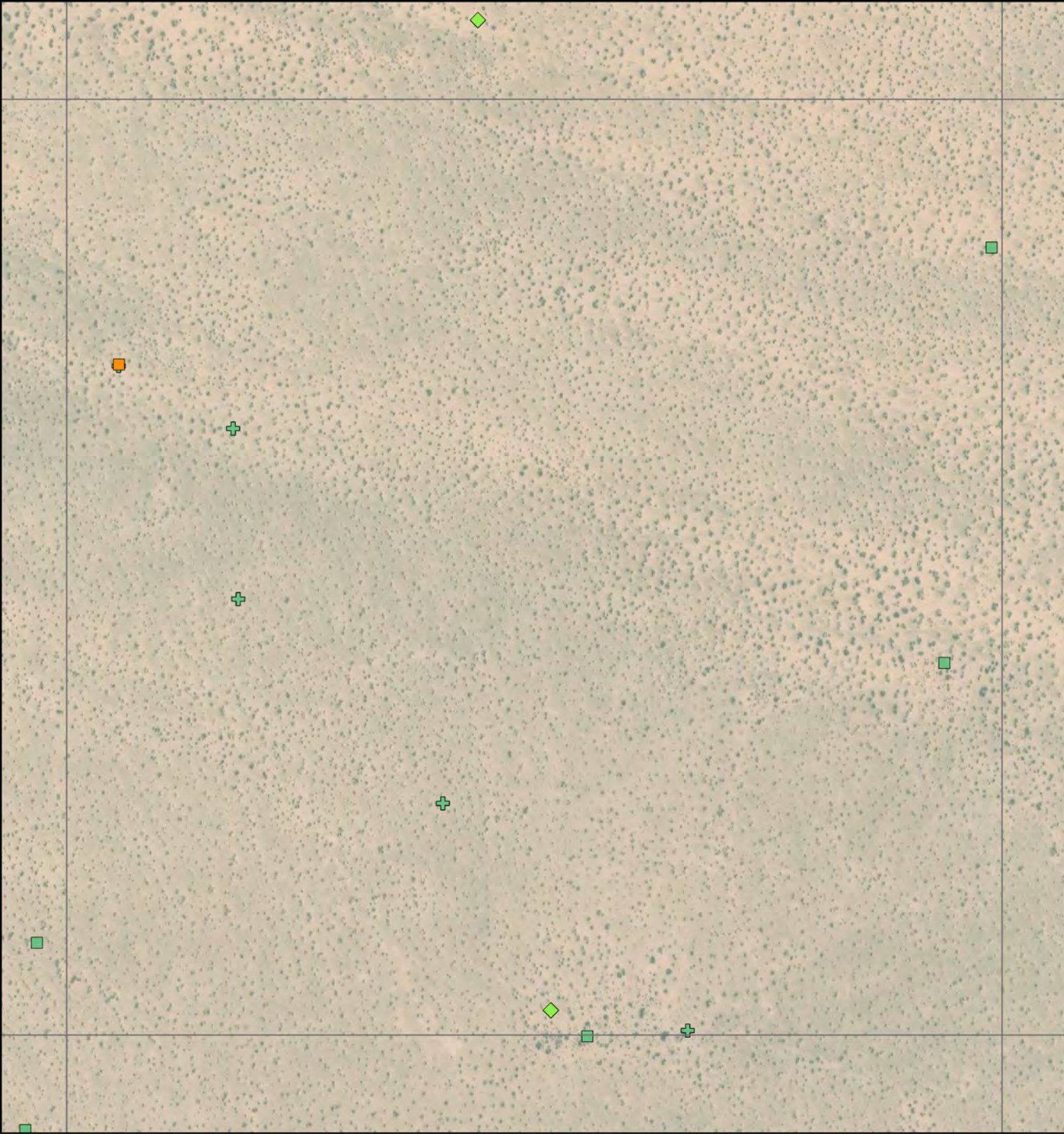
- 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 18**

Perkins CEC



Burro Deer

- ◆ Sign (scat or tracks)

Desert Kit Fox

- + Inactive Burrow

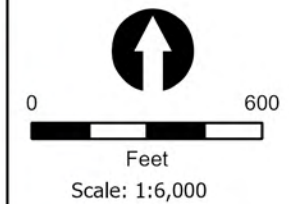
Unidentified Canid

- Active Burrow

- Inactive Burrow

- Proposed Project Fence Line

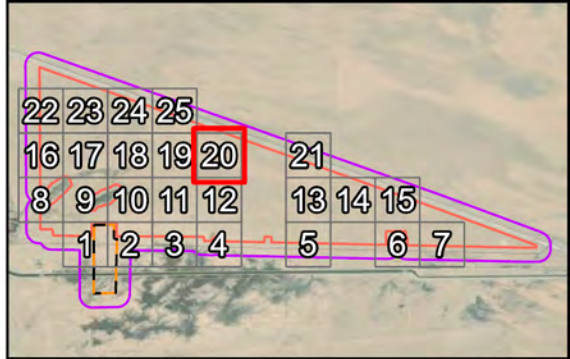
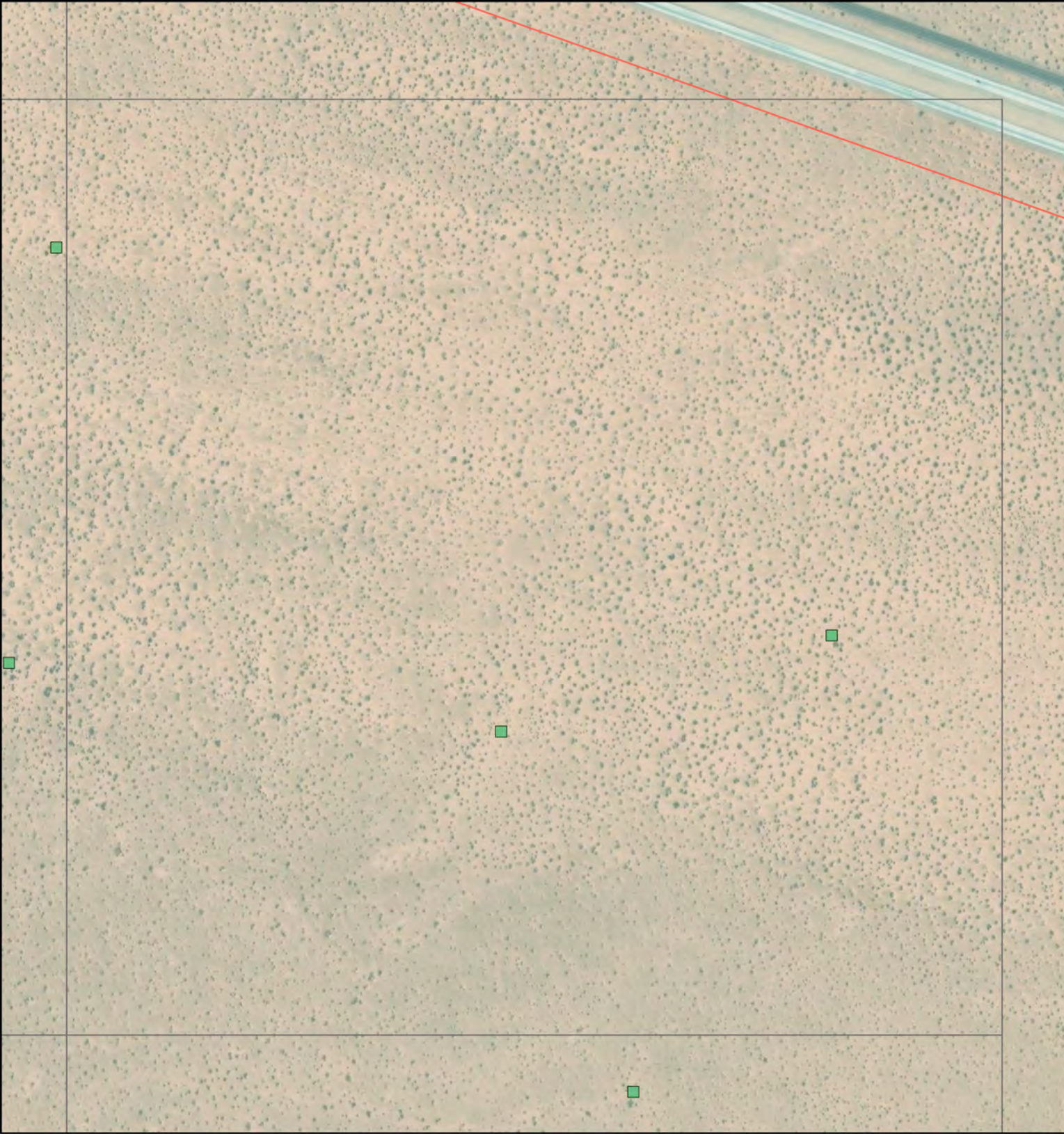
- 1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

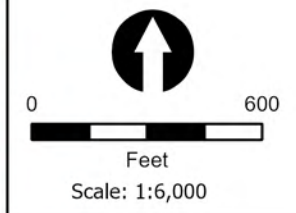
Noteworthy Mammal
Observations: 19

Perkins CEC



Unidentified Canid

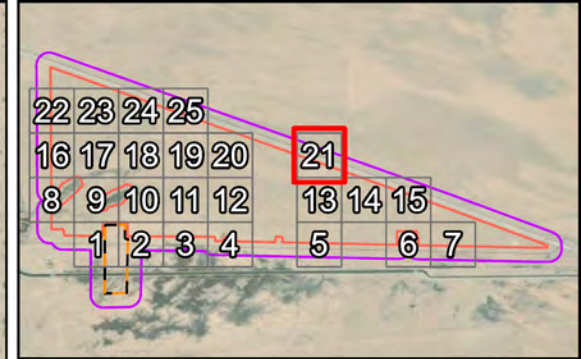
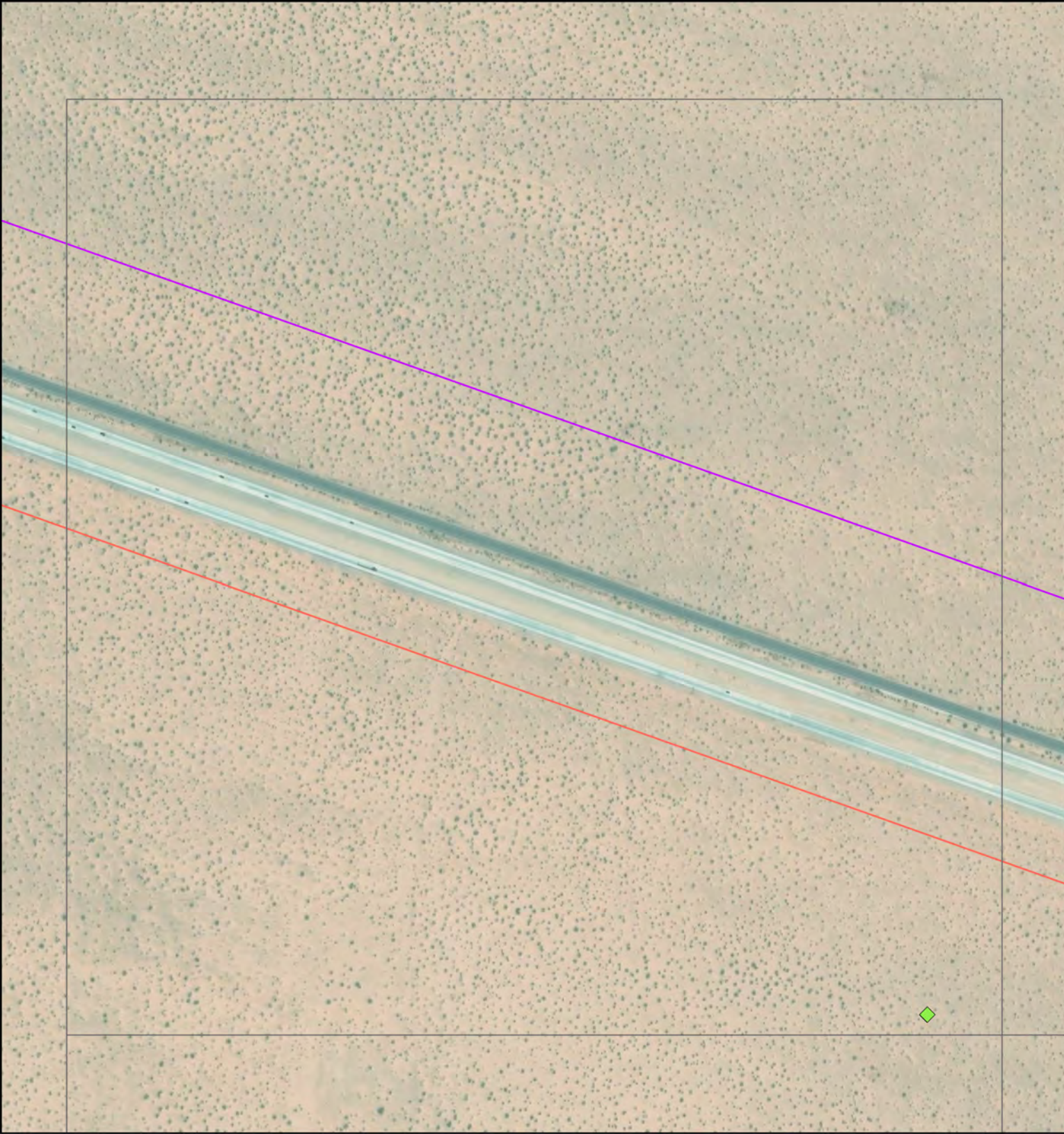
-  Inactive Burrow
-  Proposed Project Fence Line
-  1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

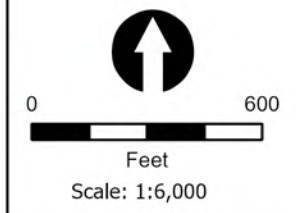
**Noteworthy Mammal
Observations: 20**

Perkins CEC



Burro Deer

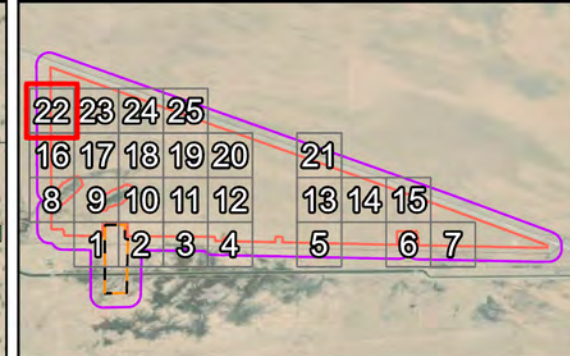
- ◆ Sign (scat or tracks)
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 21**

Perkins CEC



Burro Deer

- ◆ Sign (scat or tracks)

Desert Kit Fox

- ✚ Inactive Burrow
- ✚ Carcass

Unidentified Canid

- Inactive Burrow
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line

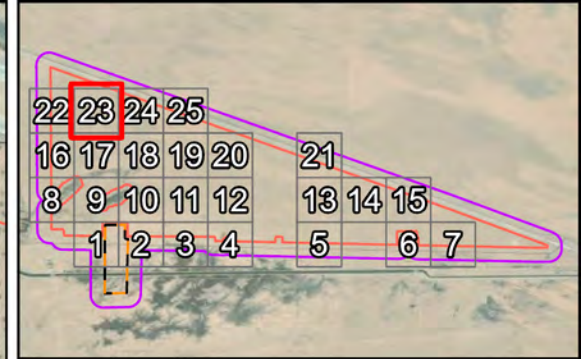
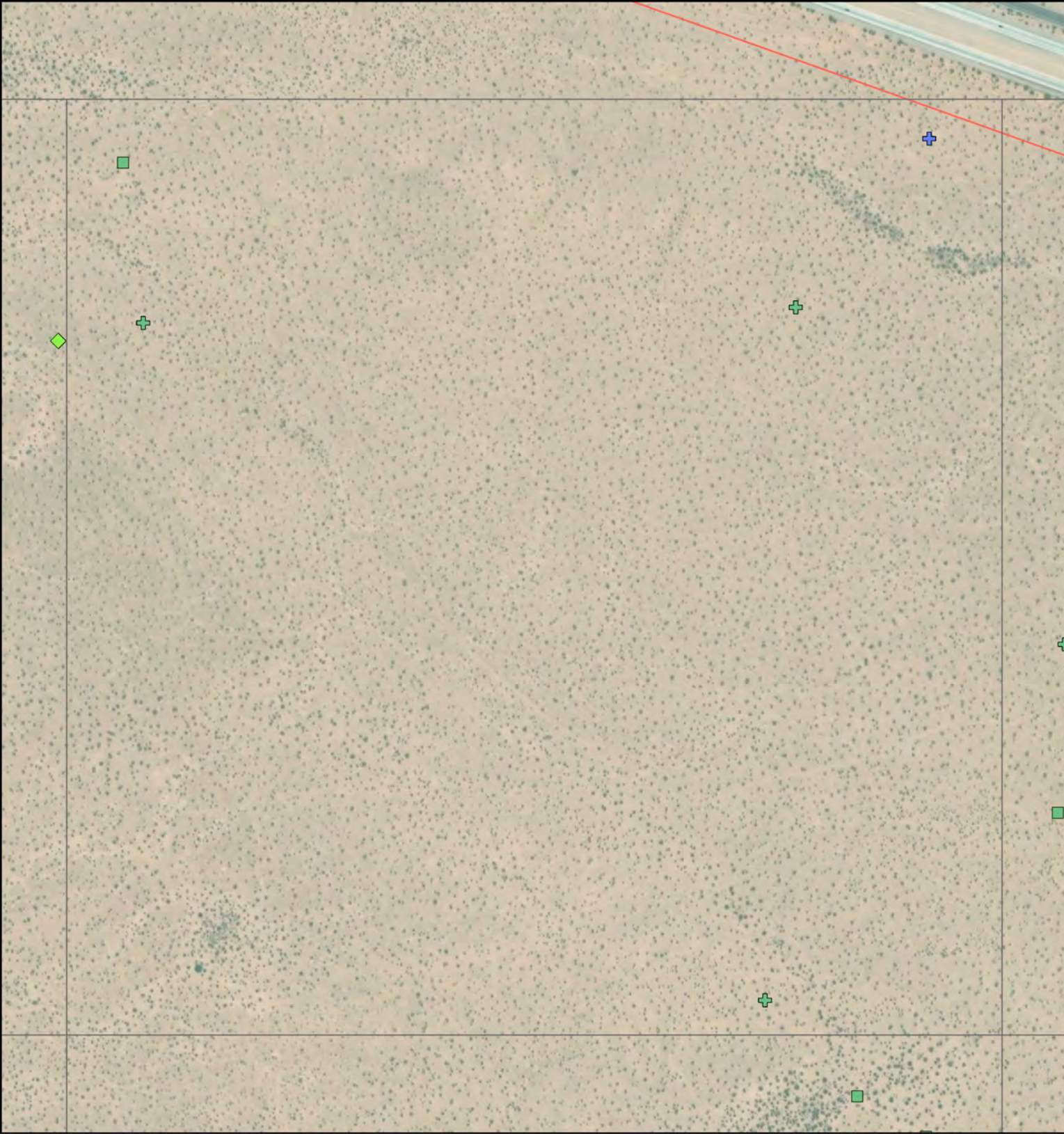


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Feet
Scale: 1:6,000

Ironwood
Consulting

Noteworthy Mammal
Observations: 22

Perkins CEC



Burro Deer

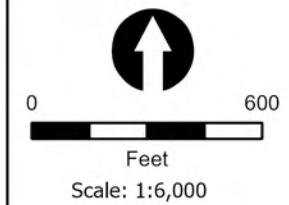
- ◆ Sign (scat or tracks)

Desert Kit Fox

- + Inactive Burrow
- + Carcass

Unidentified Canid

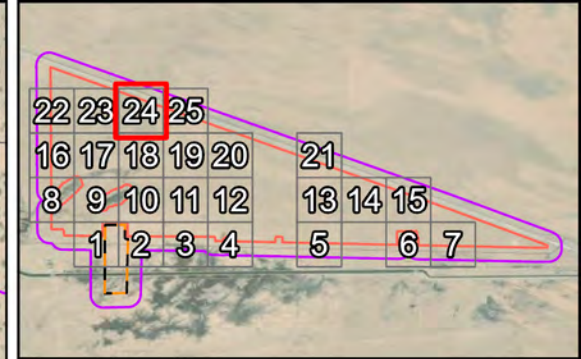
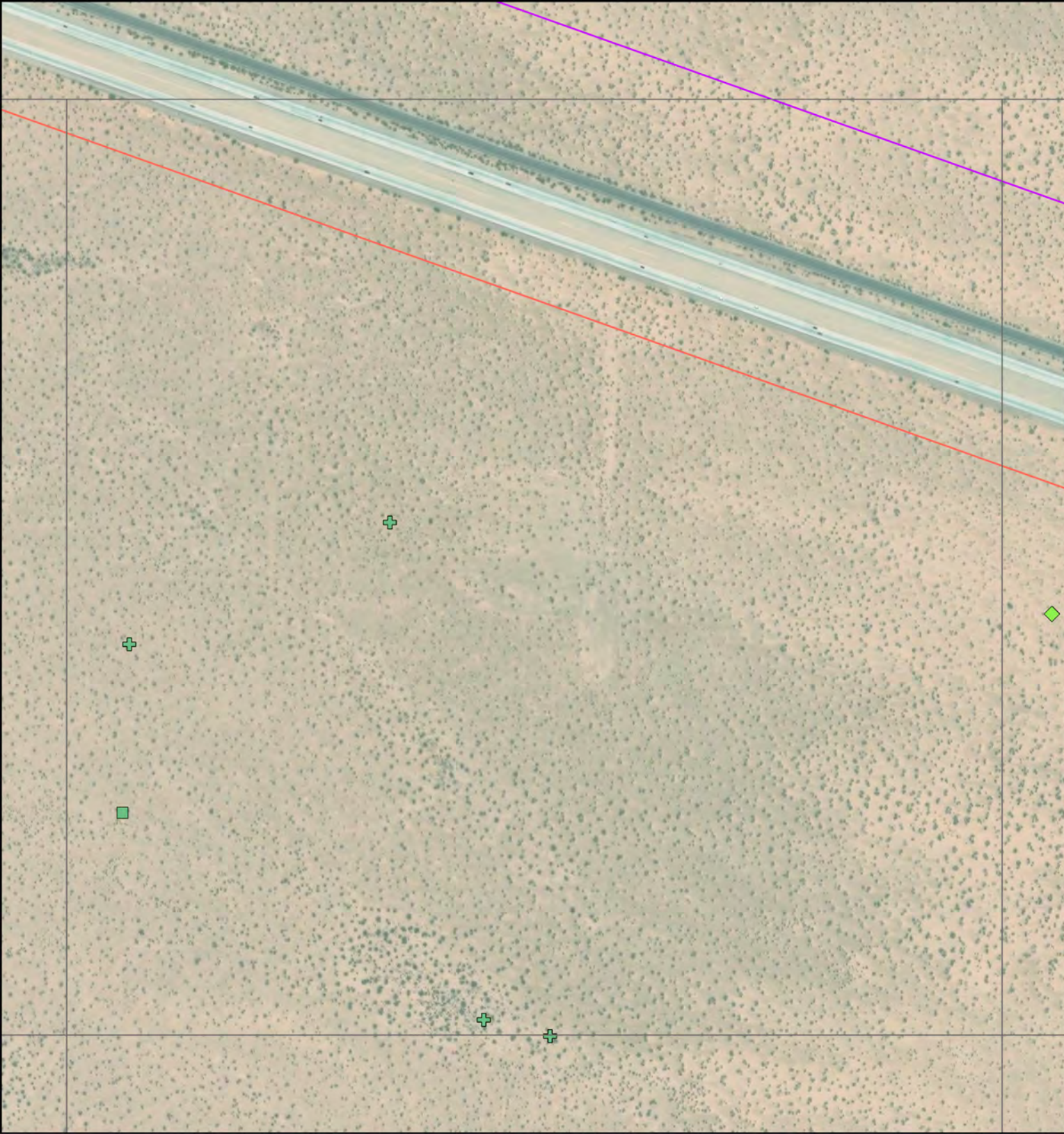
- Inactive Burrow
- Proposed Project Fence Line
- 1000 Ft Buffer From Proposed Project Fence Line



Ironwood
Consulting

Noteworthy Mammal
Observations: 23

Perkins CEC



Burro Deer

- ◆ Sign (scat or tracks)

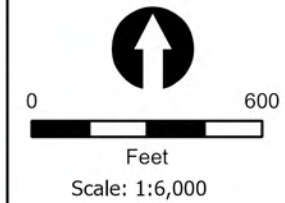
Desert Kit Fox

- + Inactive Burrow

Unidentified Canid

- Inactive Burrow

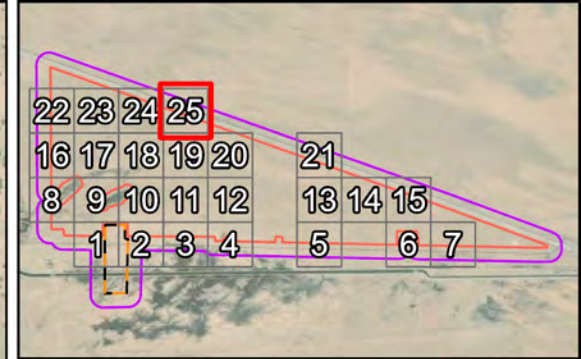
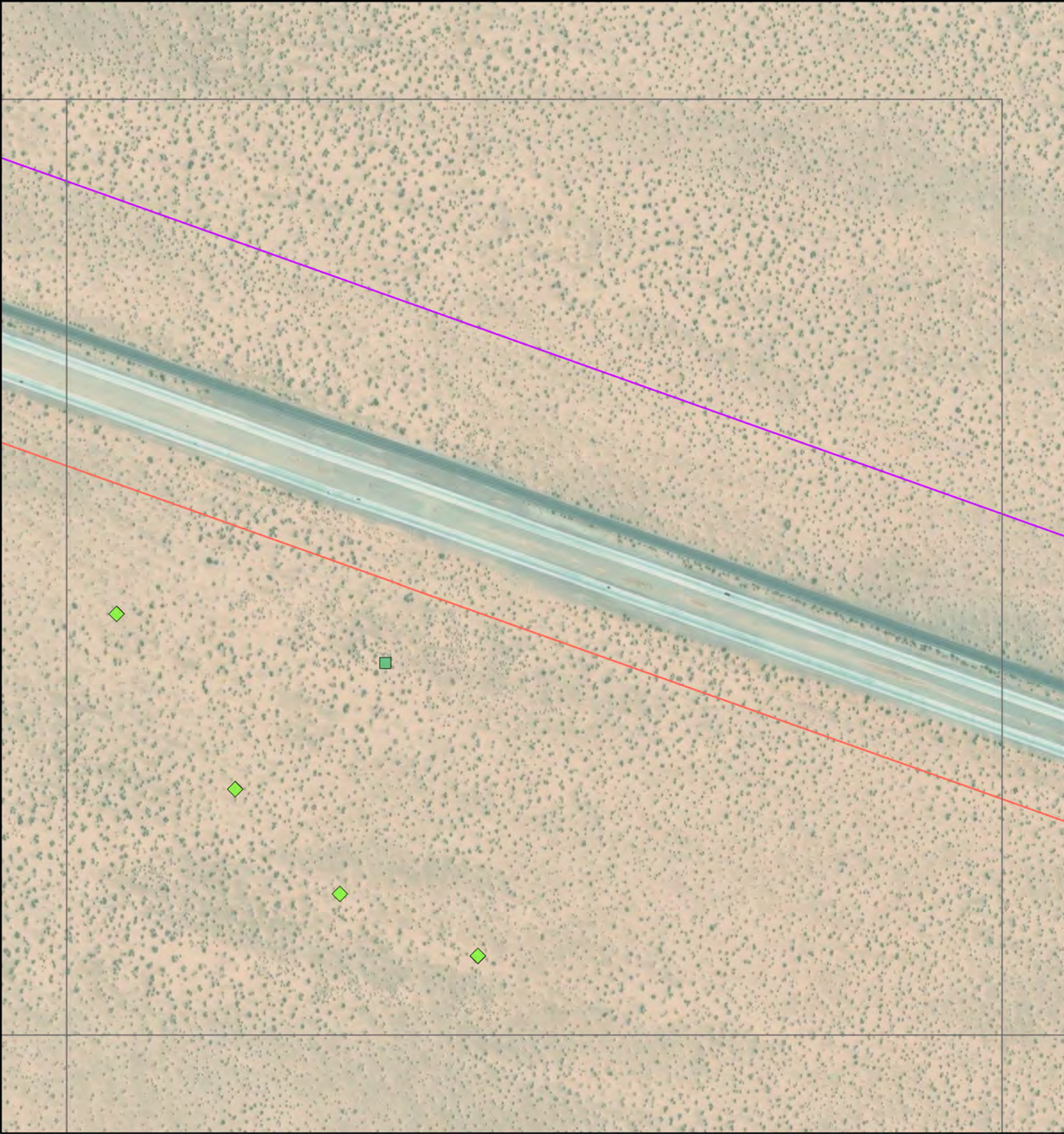
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line



**Ironwood
Consulting**

**Noteworthy Mammal
Observations: 24**

Perkins CEC

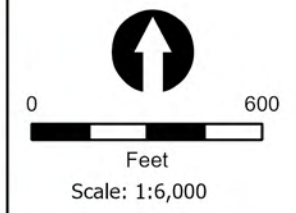


Burro Deer

- ◆ Sign (scat or tracks)

Unidentified Canid

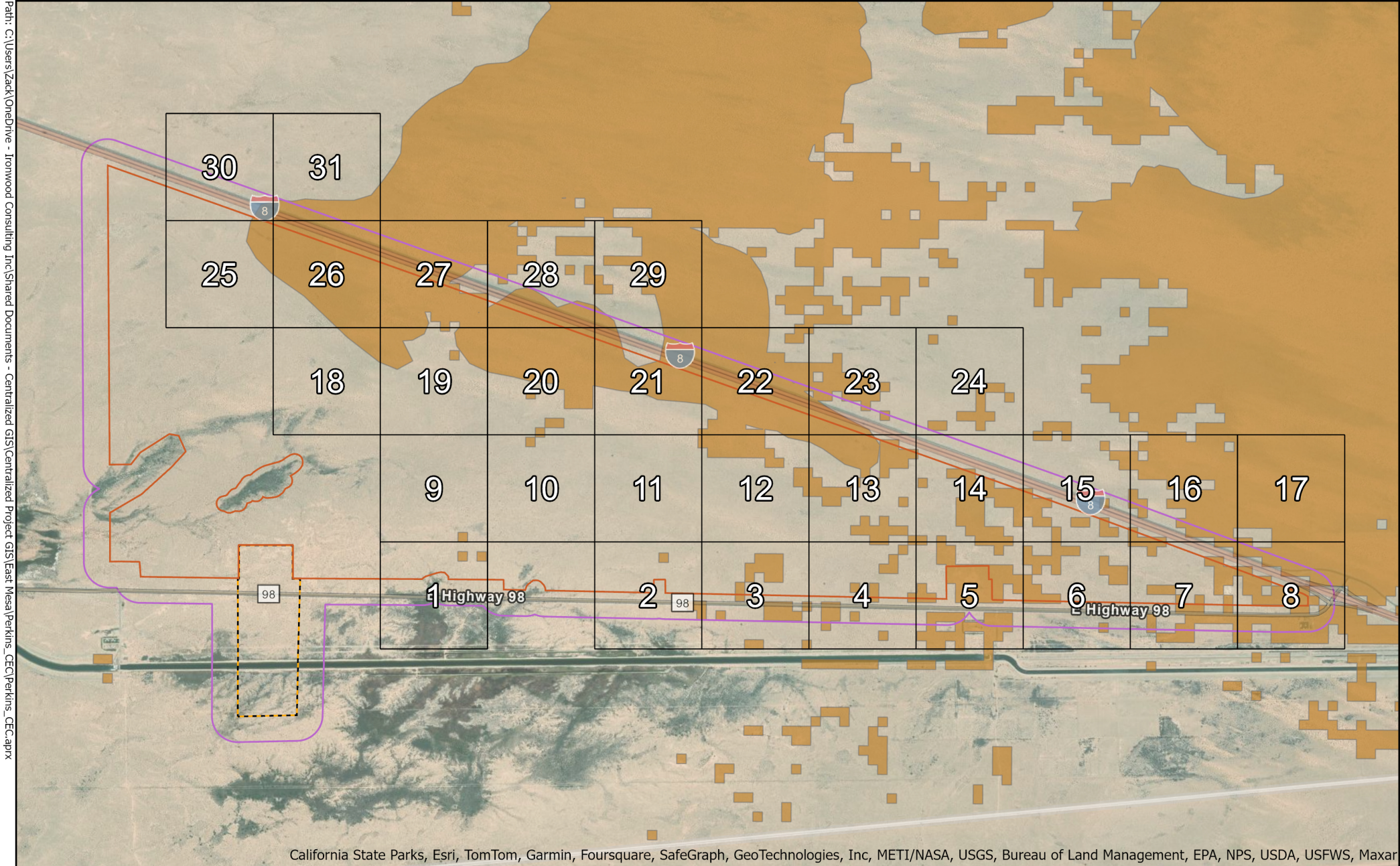
- Inactive Burrow
- ▭ Proposed Project Fence Line
- ▭ 1000 Ft Buffer From Proposed Project Fence Line



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Consulting

**Noteworthy Mammal
Observations: 25**

Perkins CEC



Scale: 1:50,437

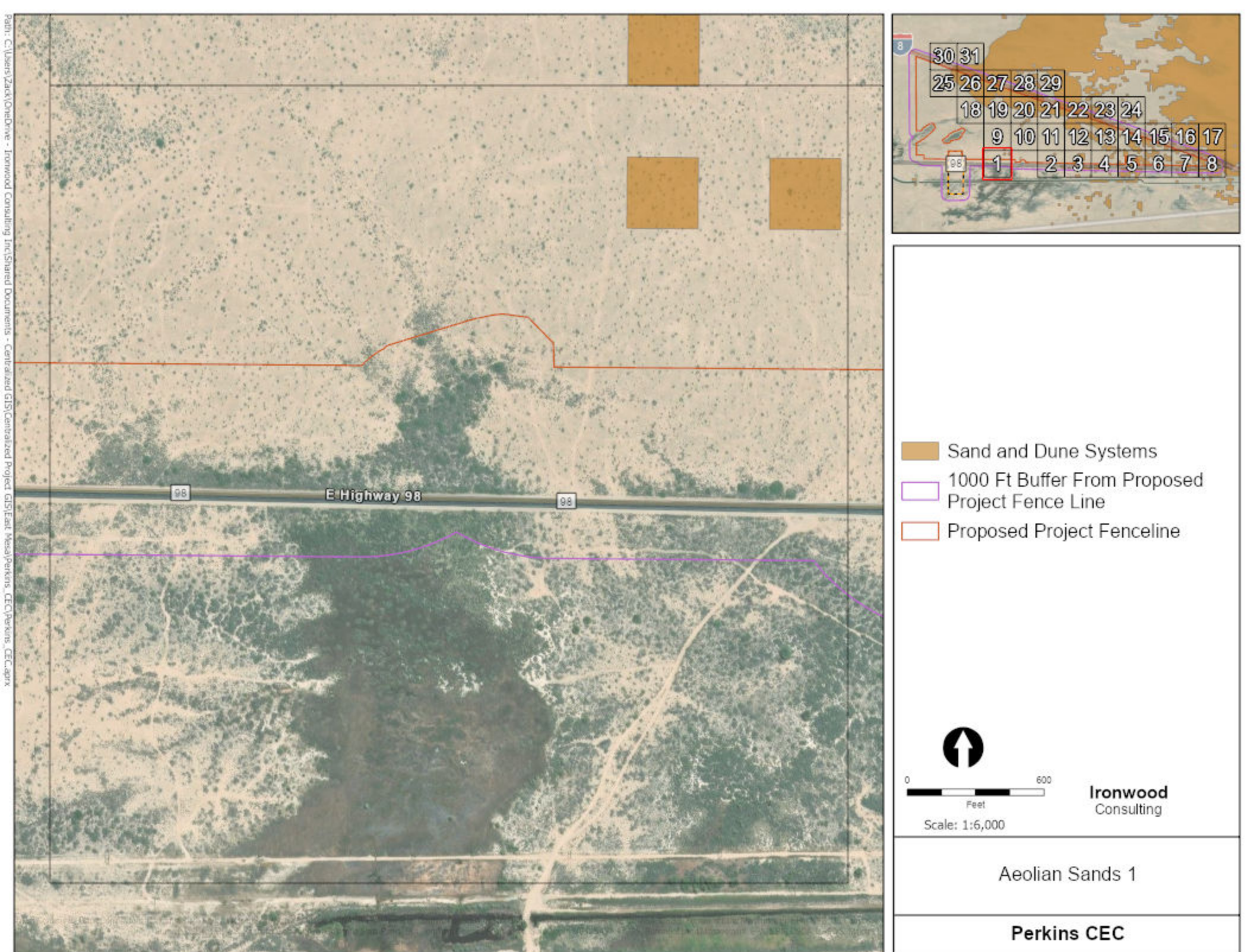


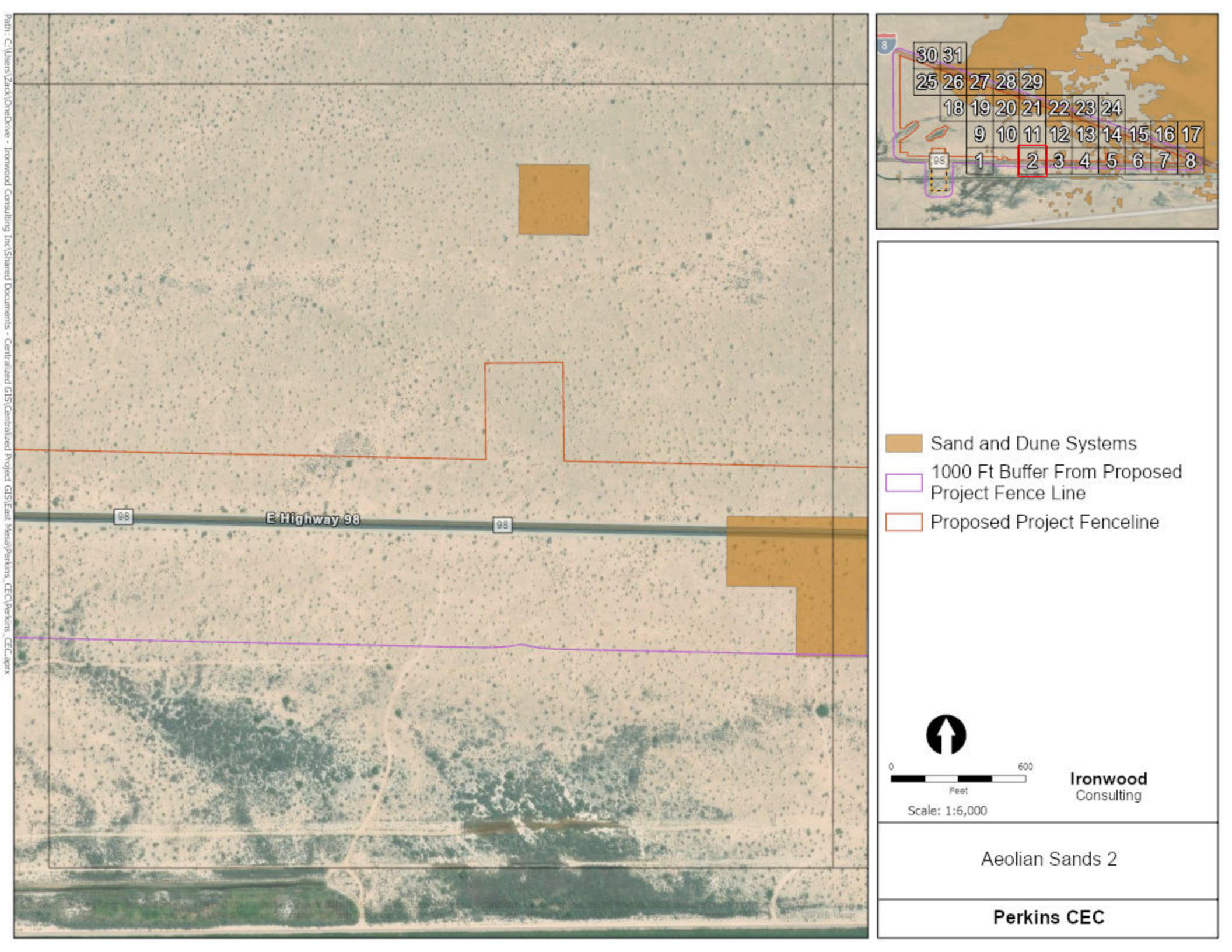
Ironwood
Consulting

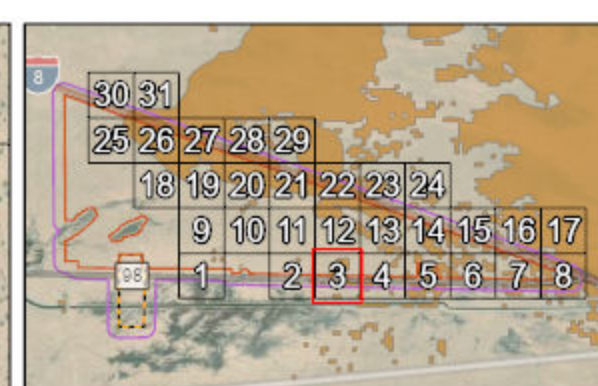
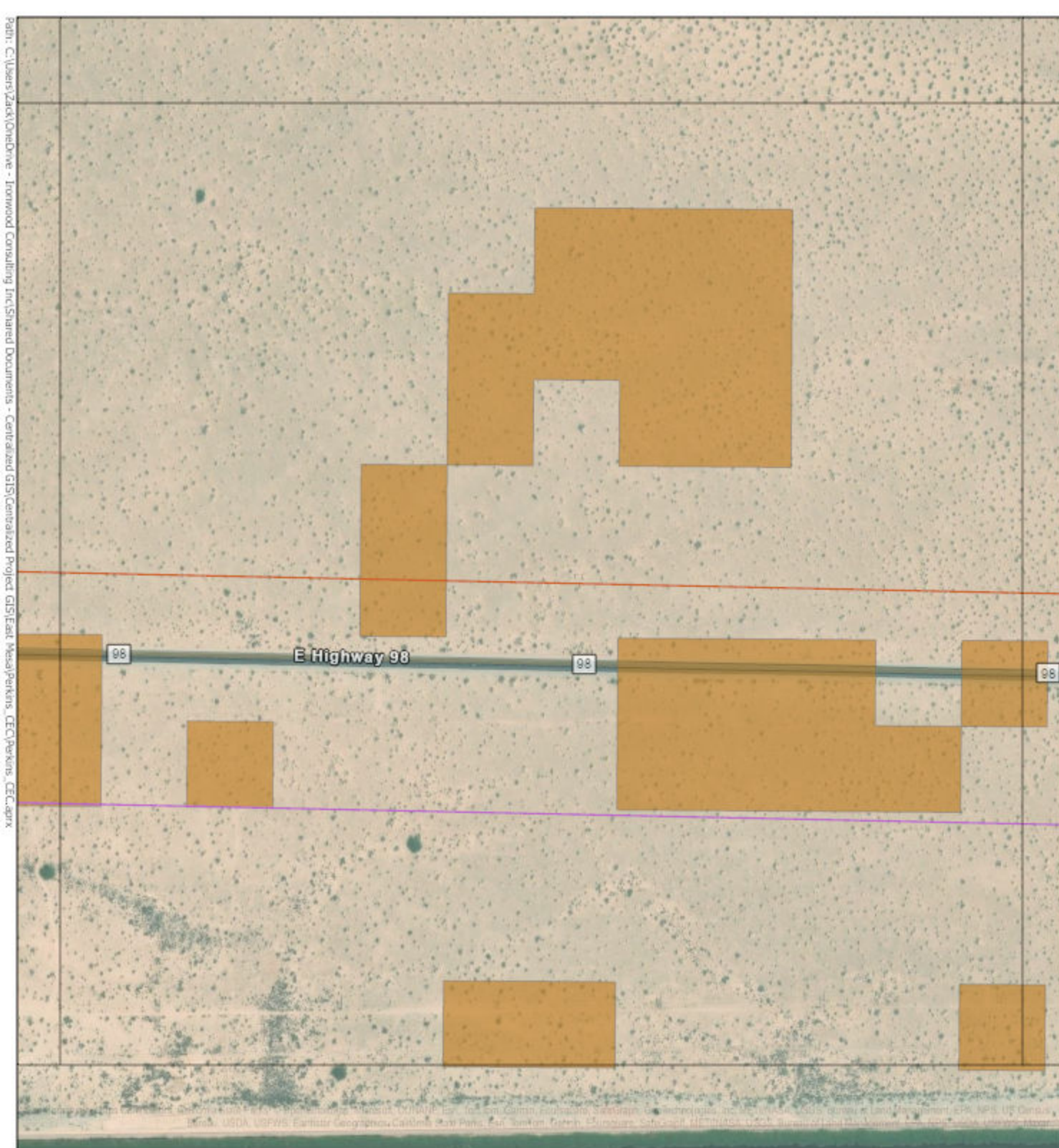
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline
-  Gen-Tie Corridor
-  Sand and Dune Systems

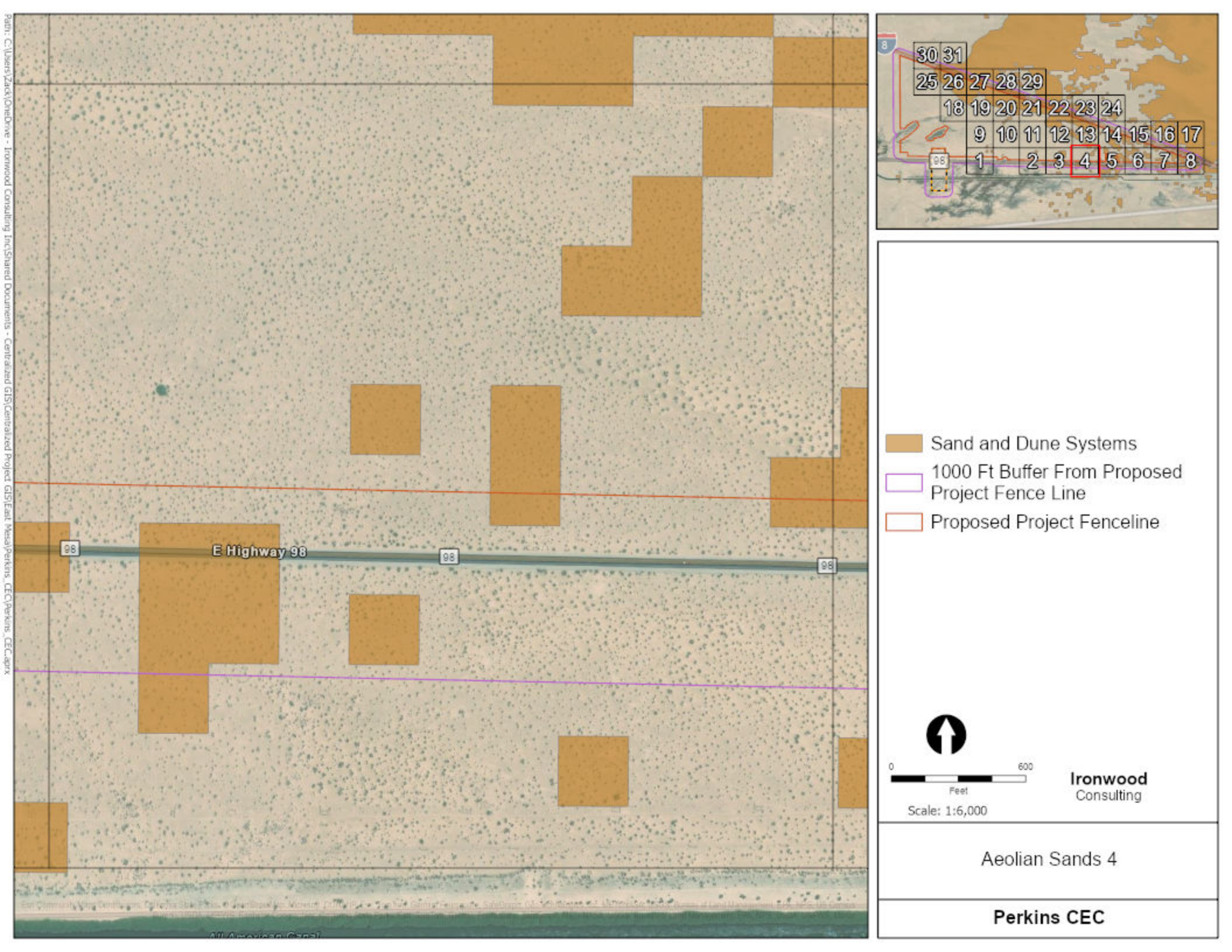
Aeolian Sands Overview

Perkins CEC

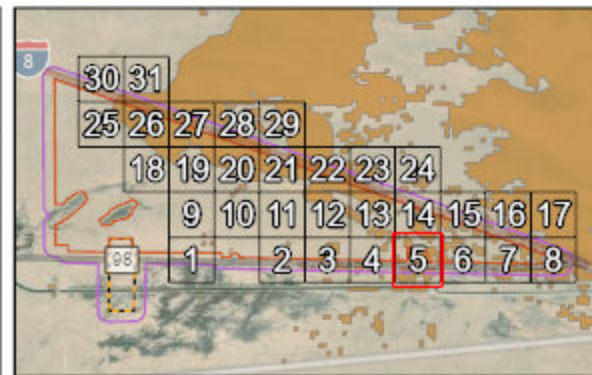




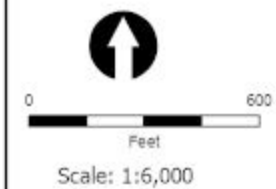




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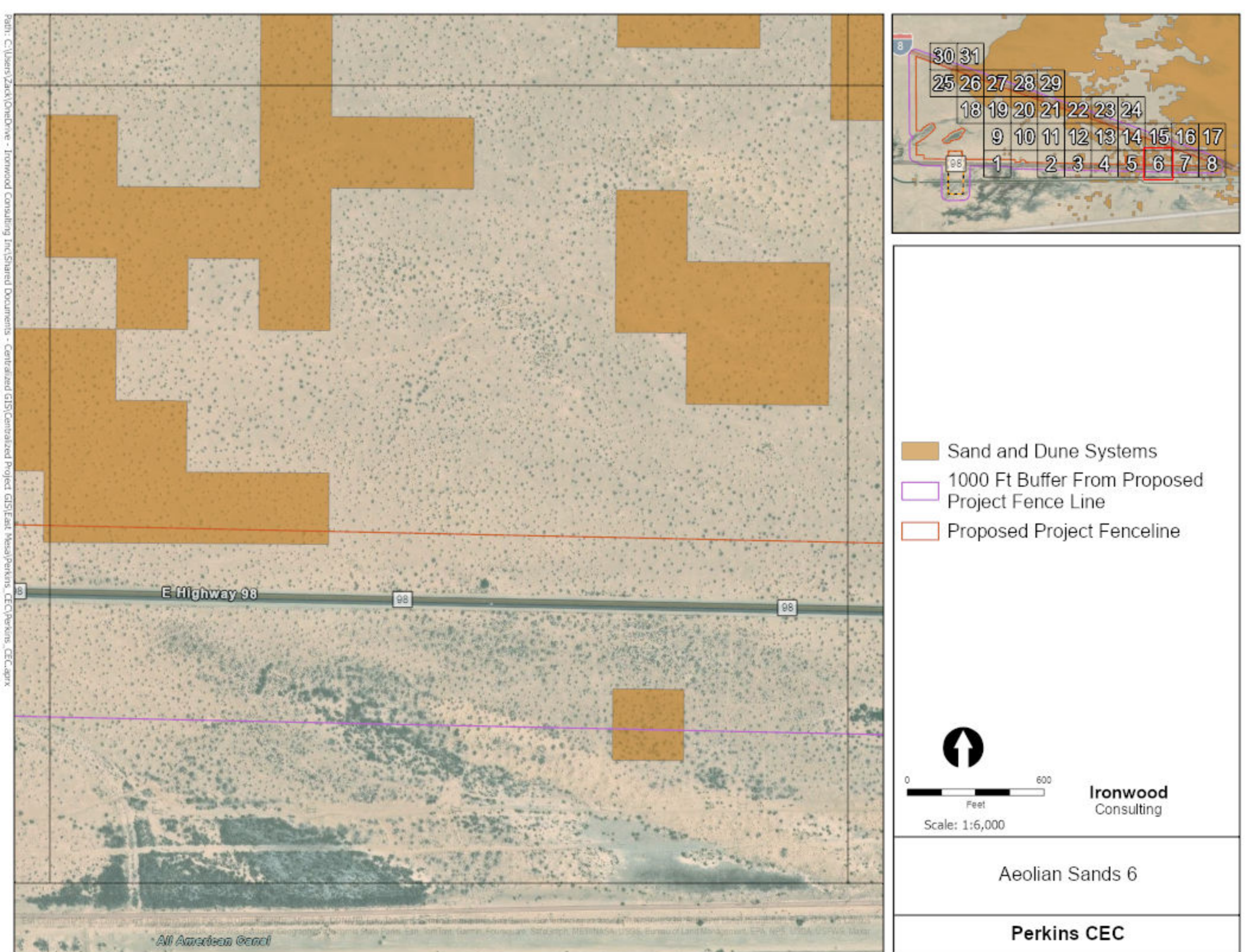
-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

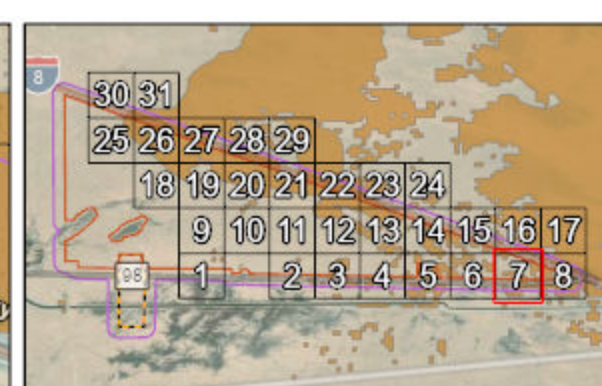
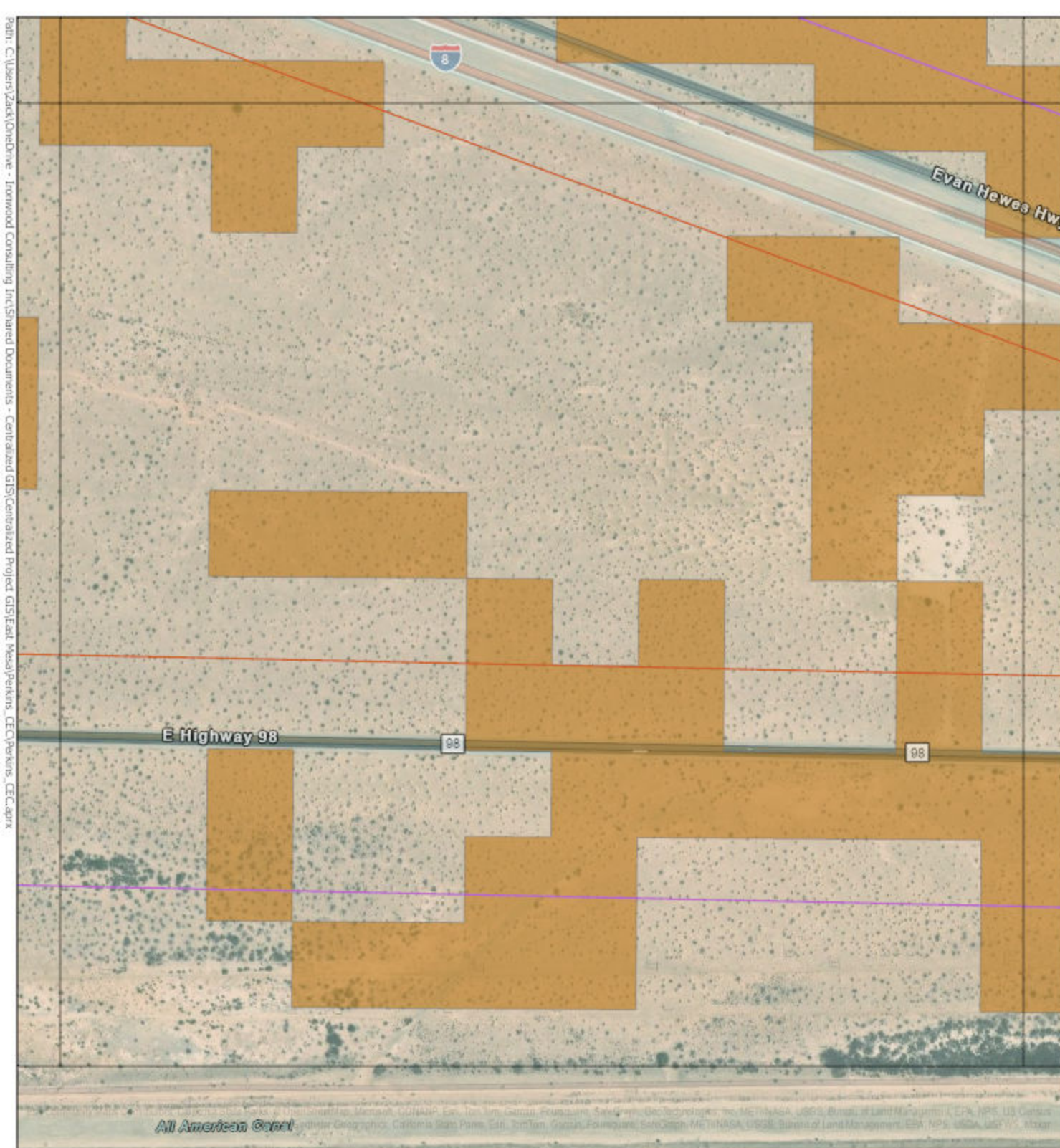


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Aeolian Sands 5

Perkins CEC





-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



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Aeolian Sands 7

Perkins CEC



- 0.11 0.50

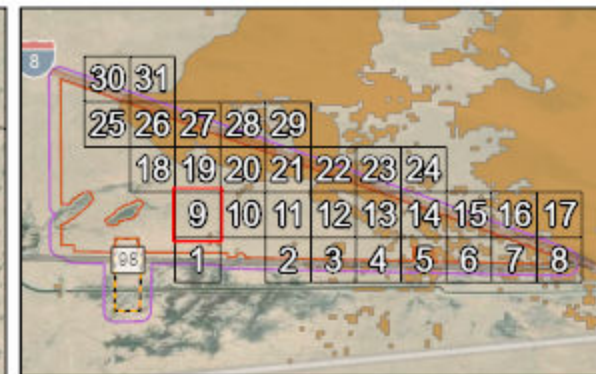


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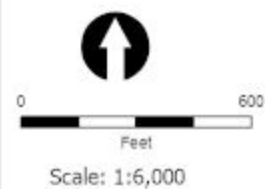
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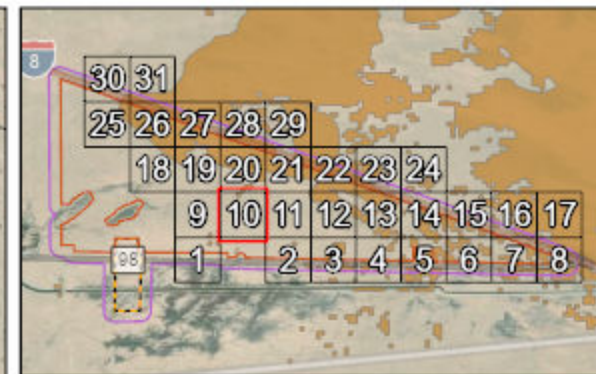
-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



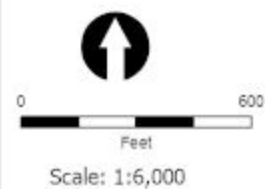
Ironwood
Consulting

Aeolian Sands 9

Perkins CEC



-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

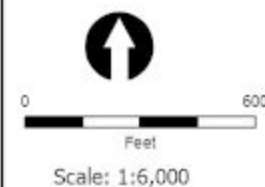
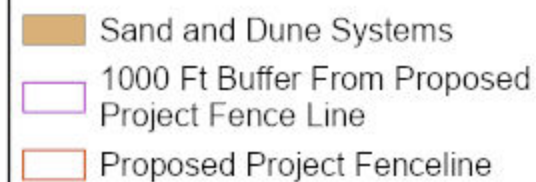


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Consulting

Aeolian Sands 10

Perkins CEC

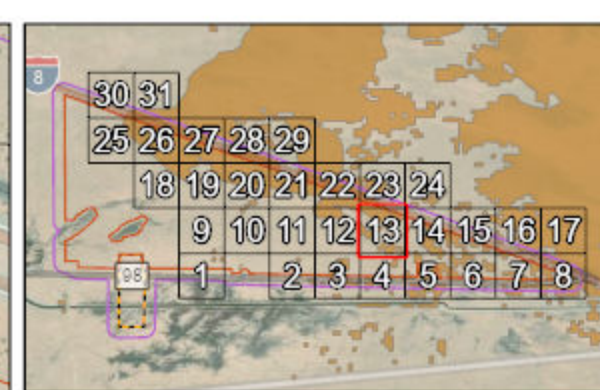
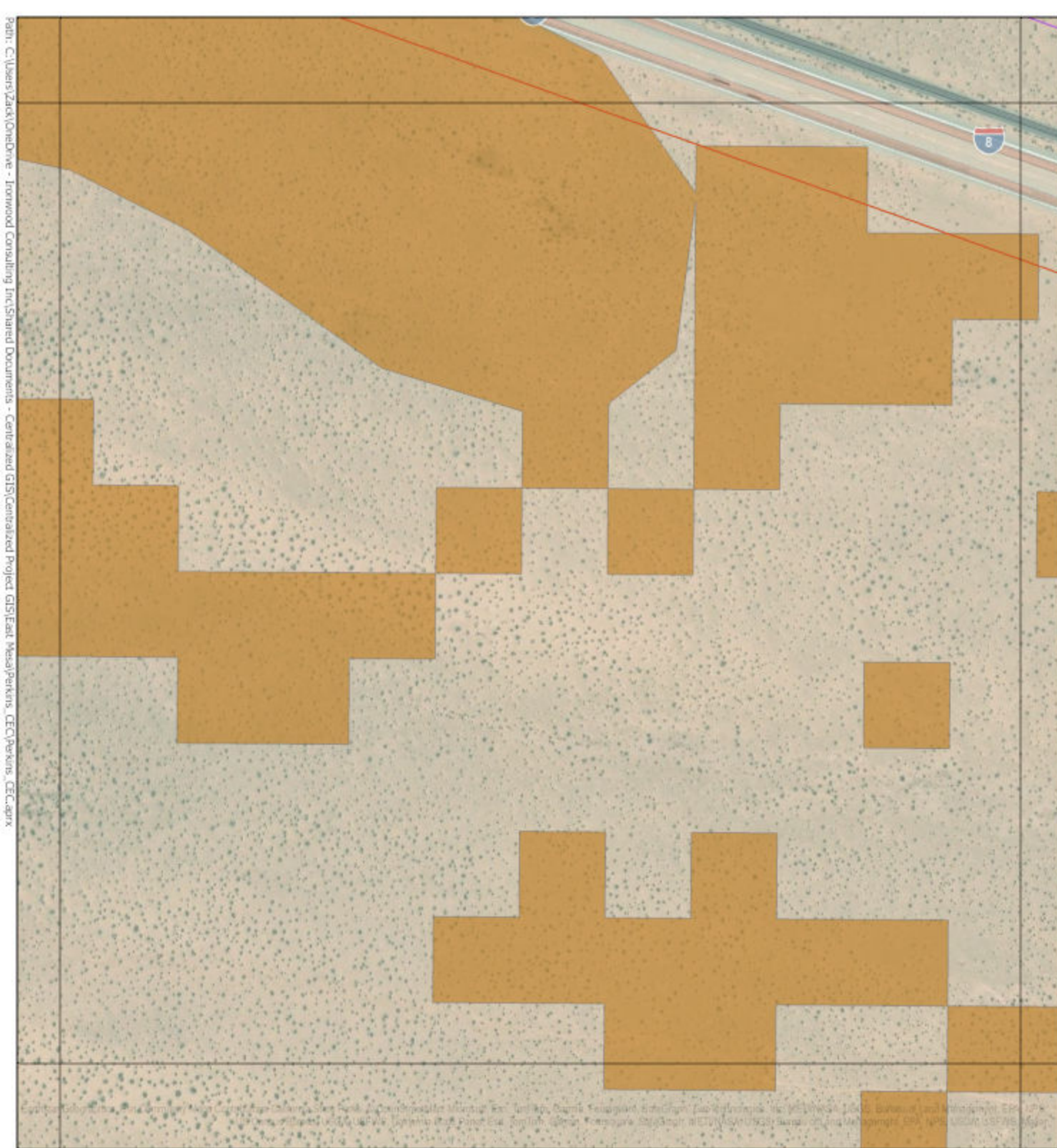




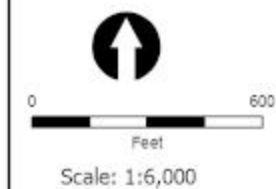
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Aeolian Sands 12

Perkins CEC



-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



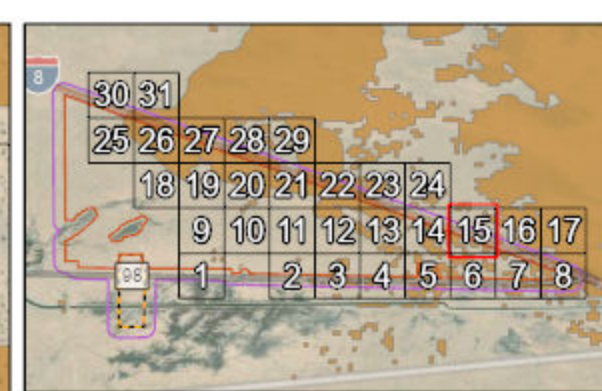
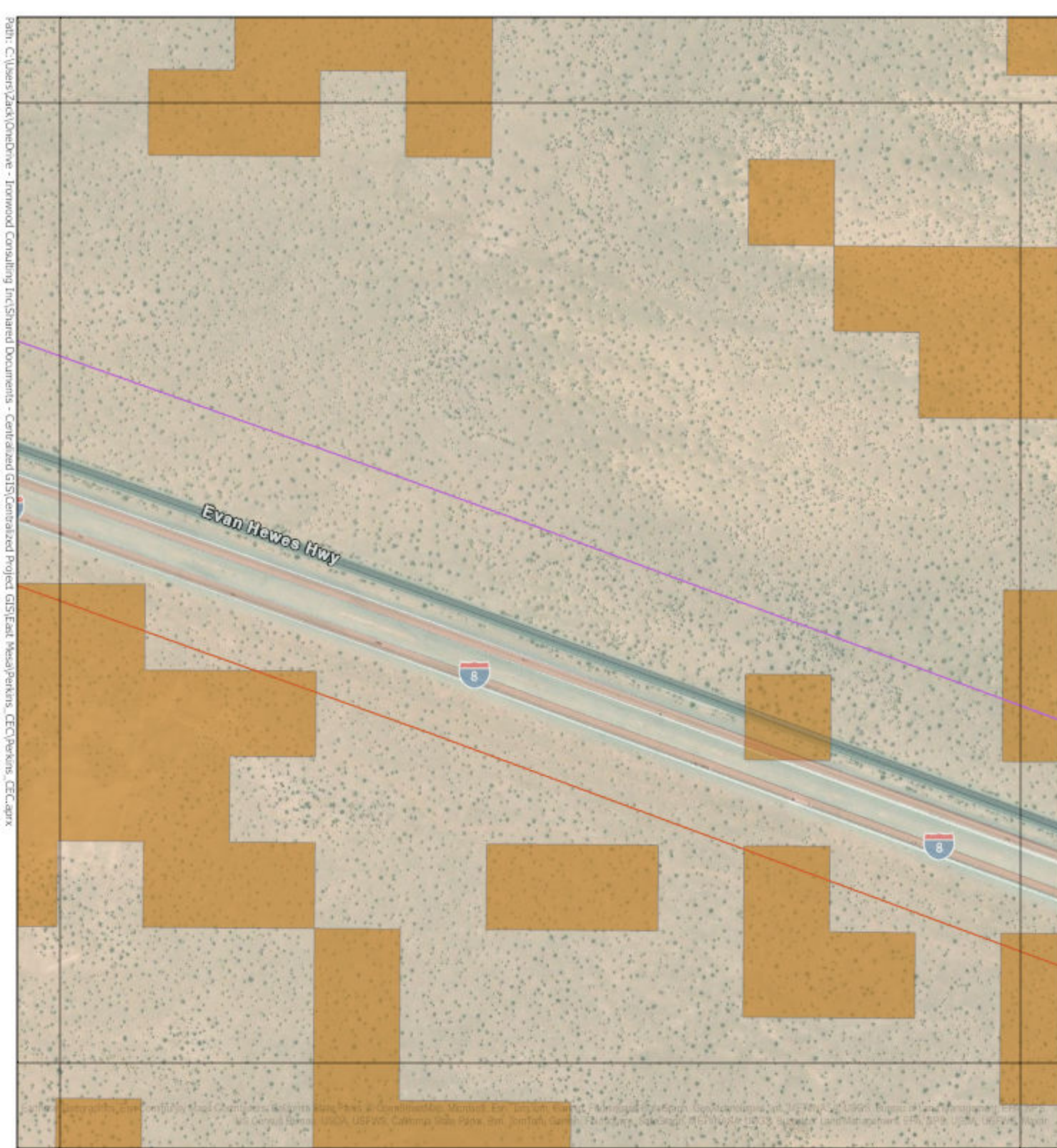
Ironwood
Consulting

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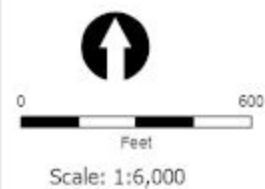
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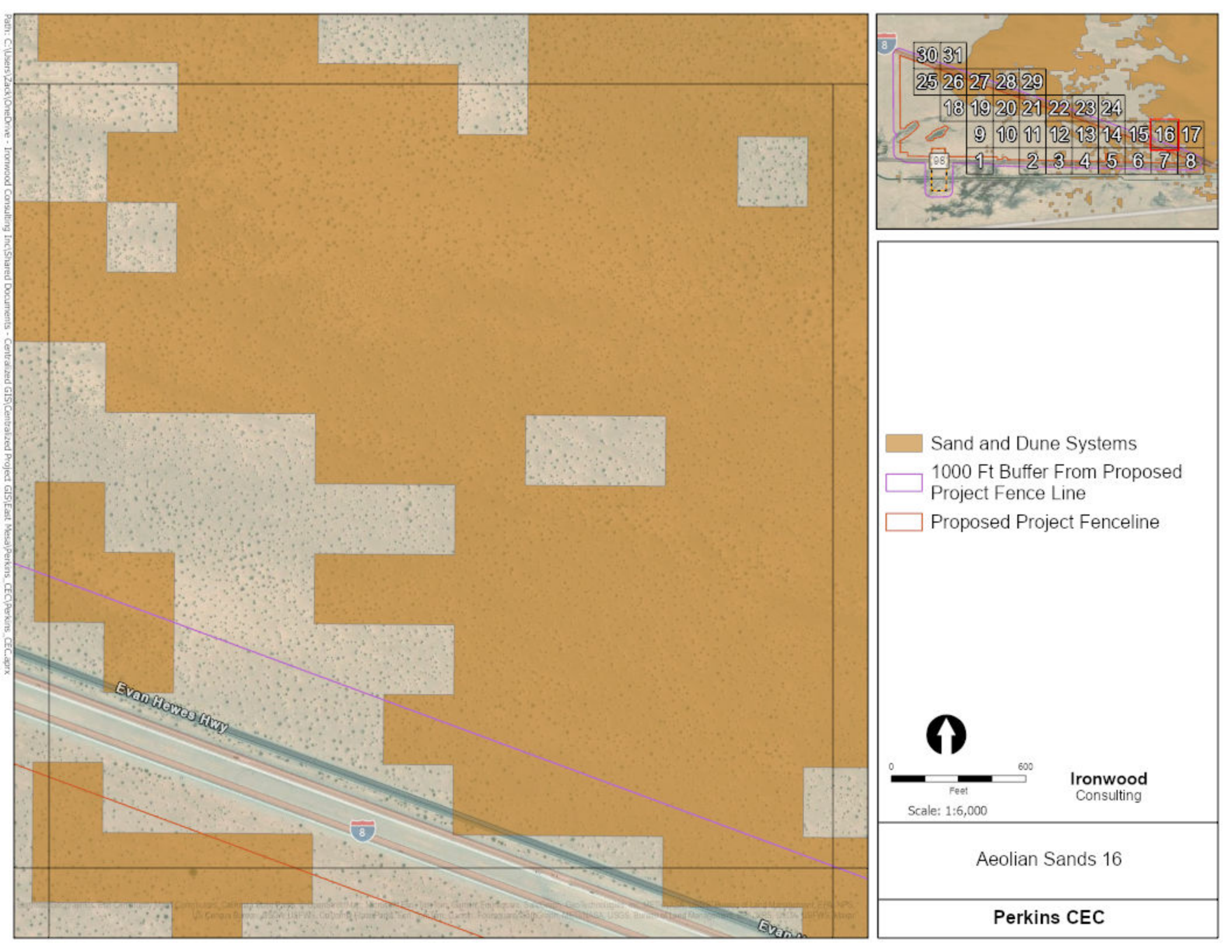
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-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline

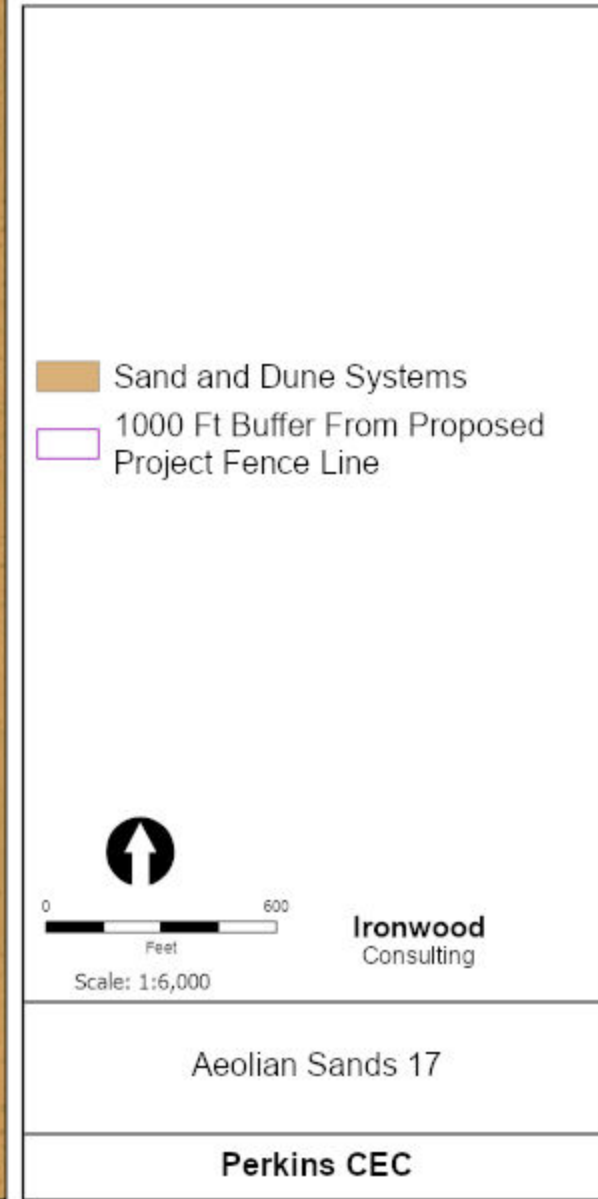


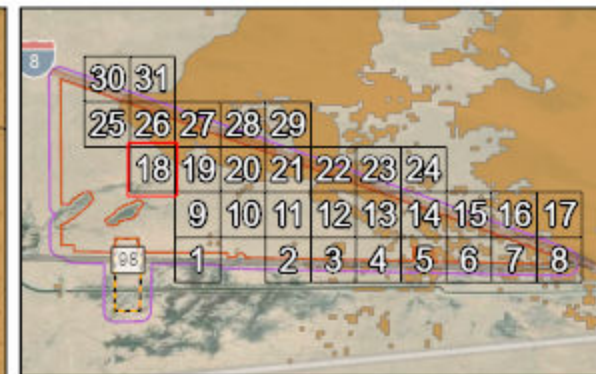
Ironwood
Consulting

Aeolian Sands 15

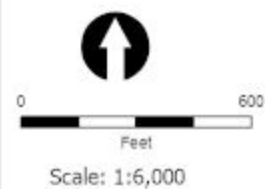
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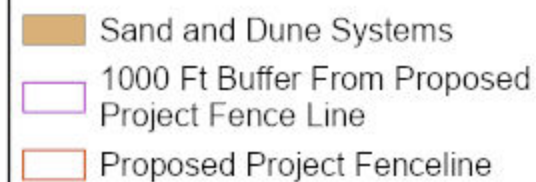
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-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



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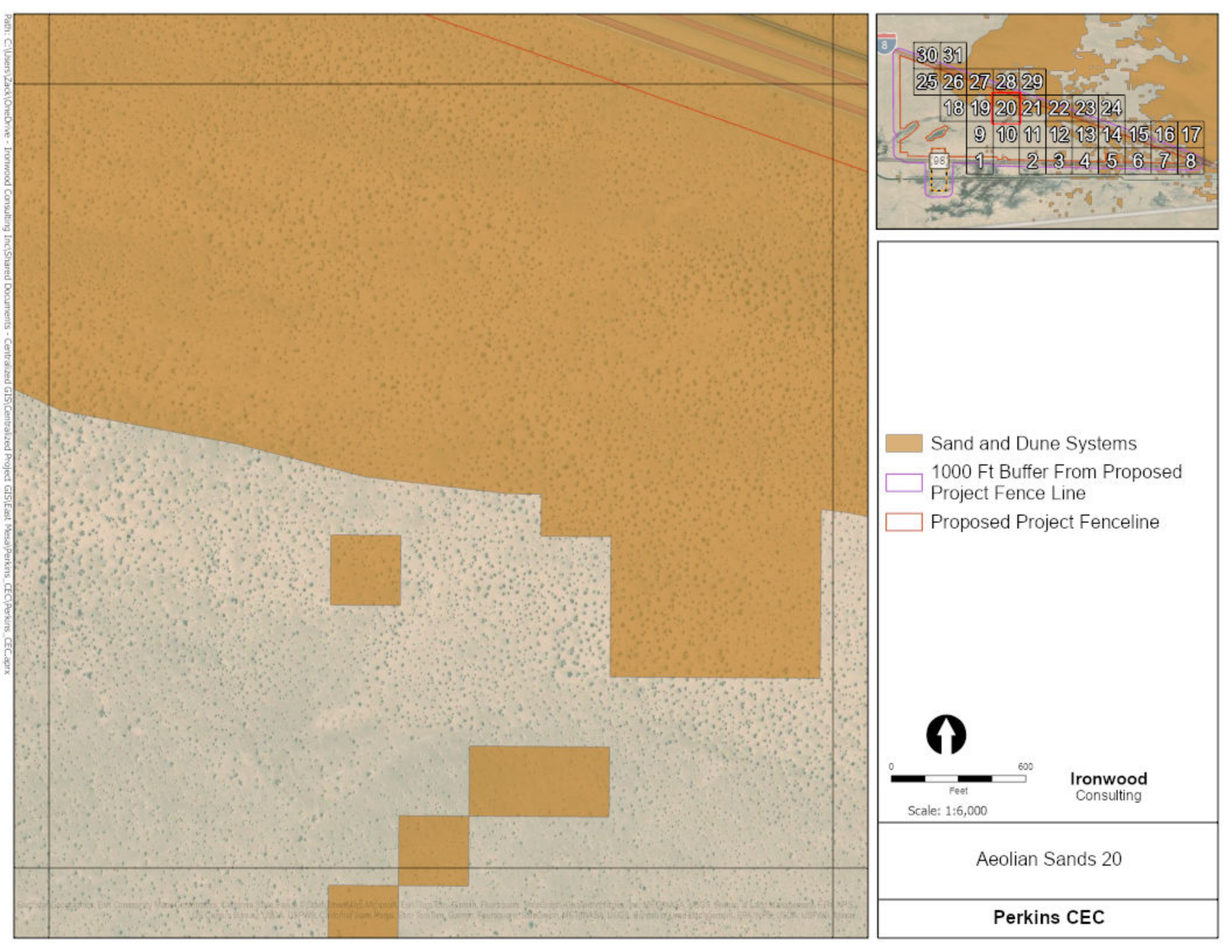
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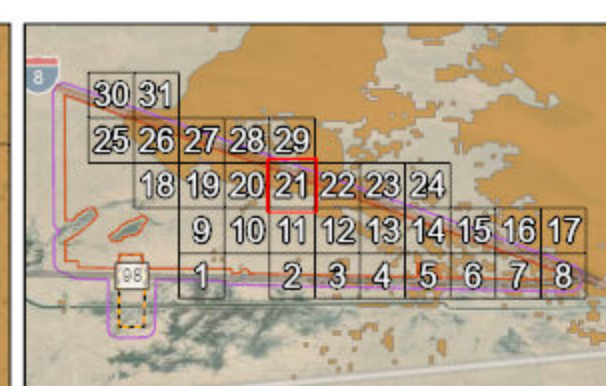
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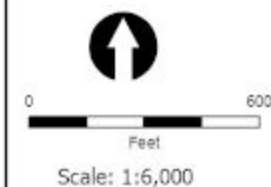
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Perkins CEC





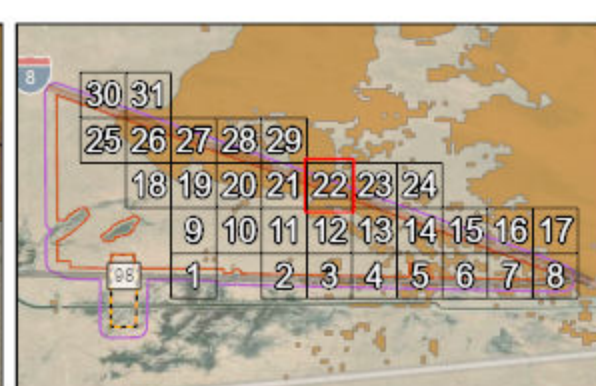
-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



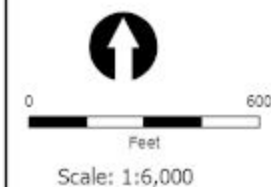
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Aeolian Sands 21

Perkins CEC



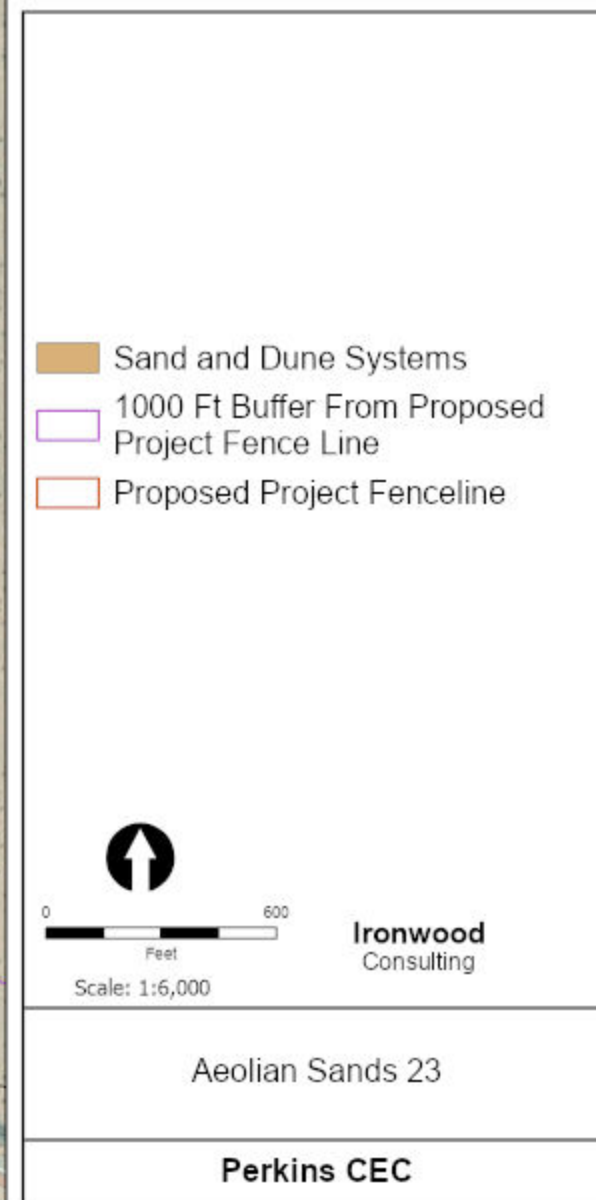
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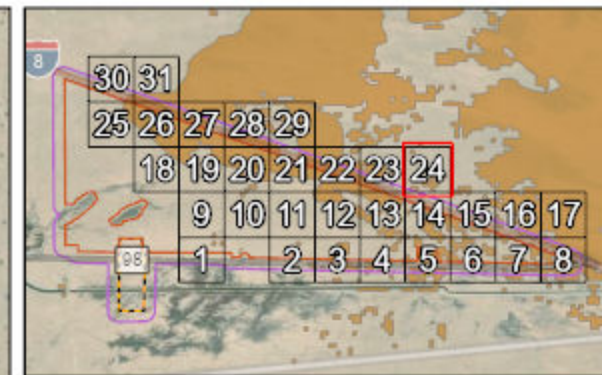


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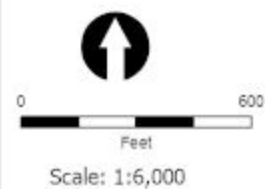
Aeolian Sands 22

Perkins CEC





-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line



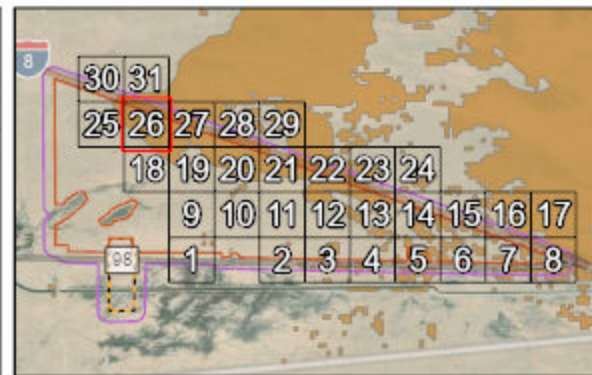
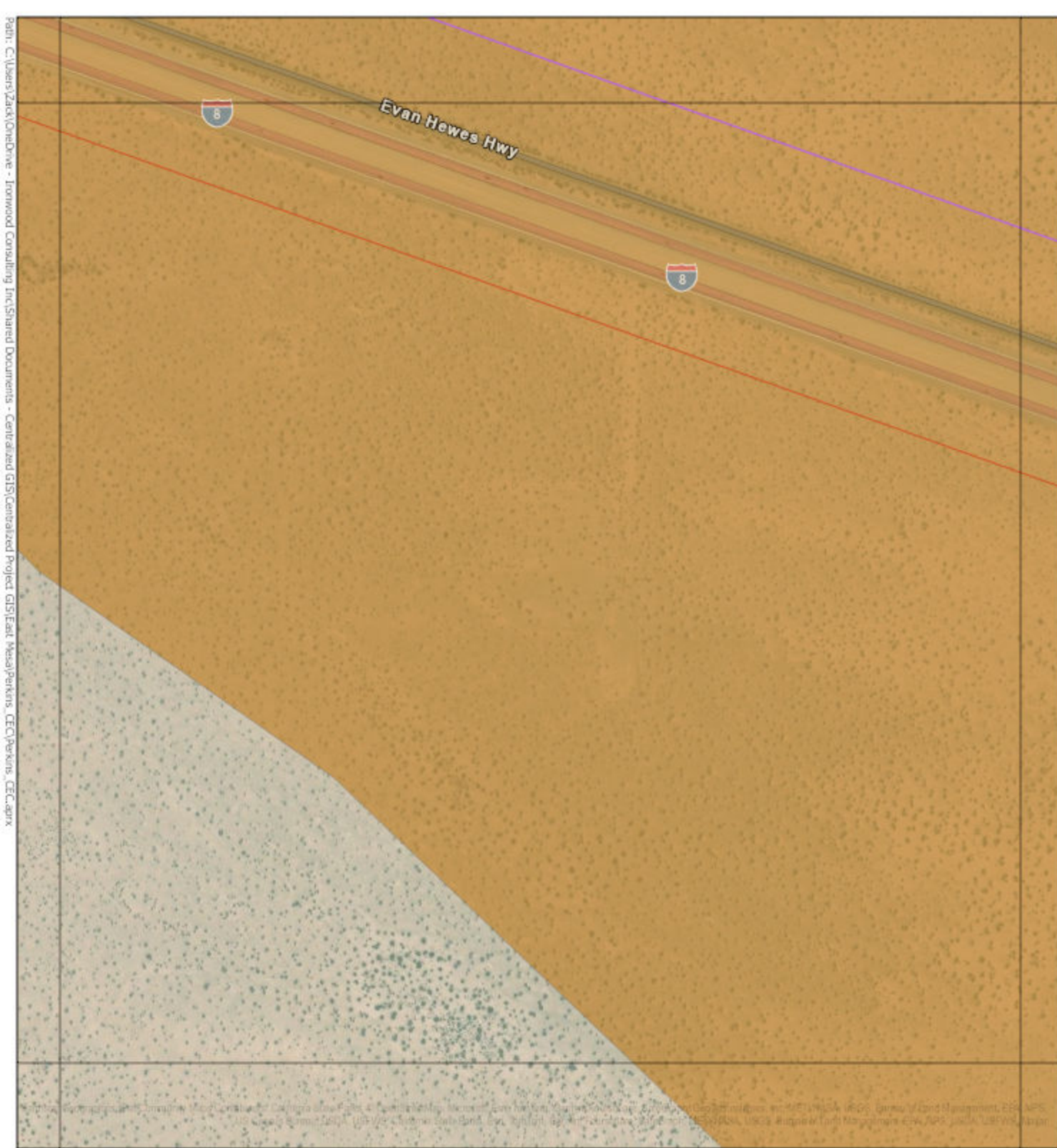
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Aeolian Sands 24

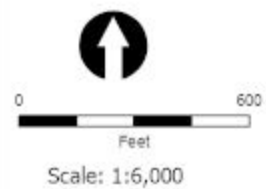
Perkins CEC



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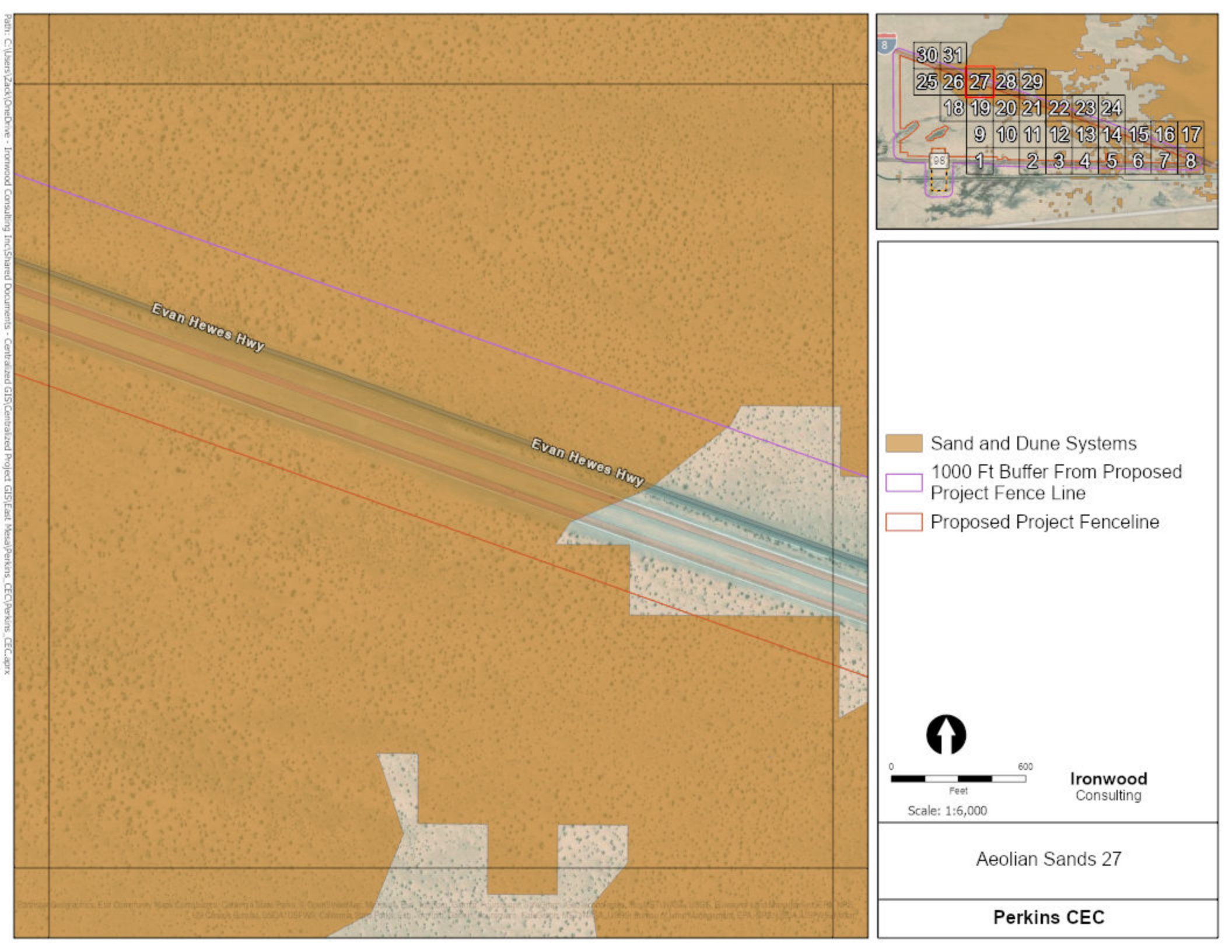
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-  1000 Ft Buffer From Proposed Project Fence Line
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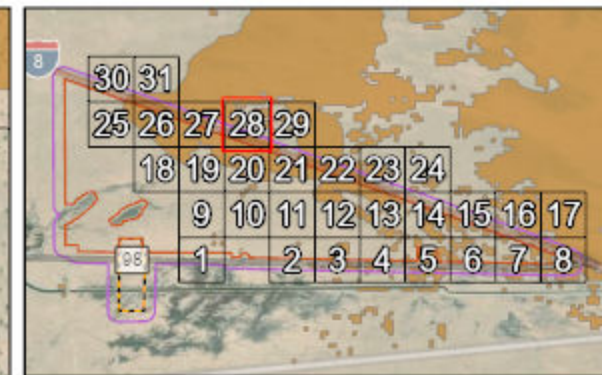
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Consulting

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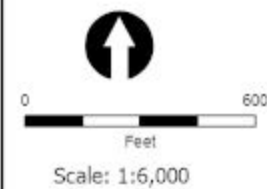
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-  Sand and Dune Systems
-  1000 Ft Buffer From Proposed Project Fence Line
-  Proposed Project Fenceline



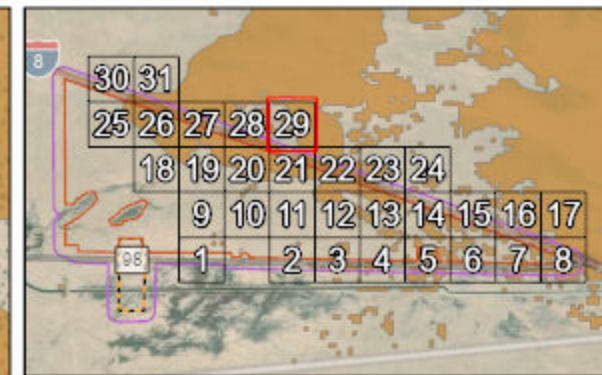
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Consulting

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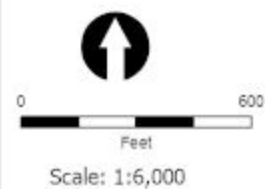
Perkins CEC

Perkins CEC is a project of the California High-Speed Rail Authority. The project is located in the Central Valley of California, near the city of Fresno. The project is a proposed high-speed rail line that will connect Fresno to Los Angeles. The project is currently in the planning phase and is expected to be completed by 2025. The project is a major transportation project that will significantly improve travel time between Fresno and Los Angeles. The project is a key component of the California High-Speed Rail system. The project is a major transportation project that will significantly improve travel time between Fresno and Los Angeles. The project is a key component of the California High-Speed Rail system.

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-  Sand and Dune Systems
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-  Proposed Project Fenceline



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Aeolian Sands 29

Perkins CEC

Evan Hewes Hwy



