SES Solar One

In Response to CURE Data Requests Set 4, Data Requests 378-402

Application for Certification (08-AFC-13)

December 2009

DOCKET
08-AFC-13
DATE
RECD DEC 03 2009

Submitted to:
Bureau of Land Management
2601 Barstow Road
Barstow, CA 92311

Submitted to:
California Energy Commission
1516 9th Street, MS 15
Sacramento, CA 95814-5504

Submitted by:
SES Solar Three, LLC
SES Solar Six, LLC

Stirling Energy Systems
4800 N. Scottsdale Road, Suite 5500
Scottsdale, AZ 85251

Tessera Solar™
power from stirling energy systems

December 2, 2009

Mr. Christopher Meyer
CEC Project Manager
Attn: Docket No. 08-AFC-13
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814-5512

Mr. Jim Stobaugh
BLM Project Manager
Attn: Docket No. 08-AFC-13
Bureau of Land Management
P.O. Box 12000
Reno, NV 89520

RE: SES Solar One Project
Applicant's Responses to CURE Data Requests Set 4
Data Requests 378-402

Dear Mr. Meyer and Mr. Stobaugh:

Tessera Solar hereby submits the Applicant's responses to CURE Data Request Set 2; Data Requests 378-402. I certify under penalty of perjury that the foregoing is true, correct, and complete to the best of my knowledge.

Sincerely,

Camille Champion
Project Manager

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 378: Please provide a map that depicts the locations of the 20 vegetation types that occur within the Project area and the locations where special-status species were detected, including:

a. A map at a sufficient scale to enable precise identification of species location in relation to Project features.

b. Geographic coordinates of the various special-status species that were detected.

Response: The maps are provided as attachment BIO-1 located behind this response. Please note that the Applicant, in these responses, is adopting CURE's terminology by referring to construction of the new 500kV transmission line and substation upgrades collectively as the "Project".

PLATES 1-38

Vegetation and Special-Status Species Maps of Proposed Transmission Line Corridor

LEGEND

- Section Line
- 50 ft Buffer
- 150 ft Buffer
- 300 ft Buffer
- Proposed Pisgah Substation Expansion

Transmission Lines
- Proposed Route
- Proposed Alternative
- Existing Line

USFWS Critical Habitats
- Desert Tortoise
- Mohave Ground Squirrel 1000ft buffer

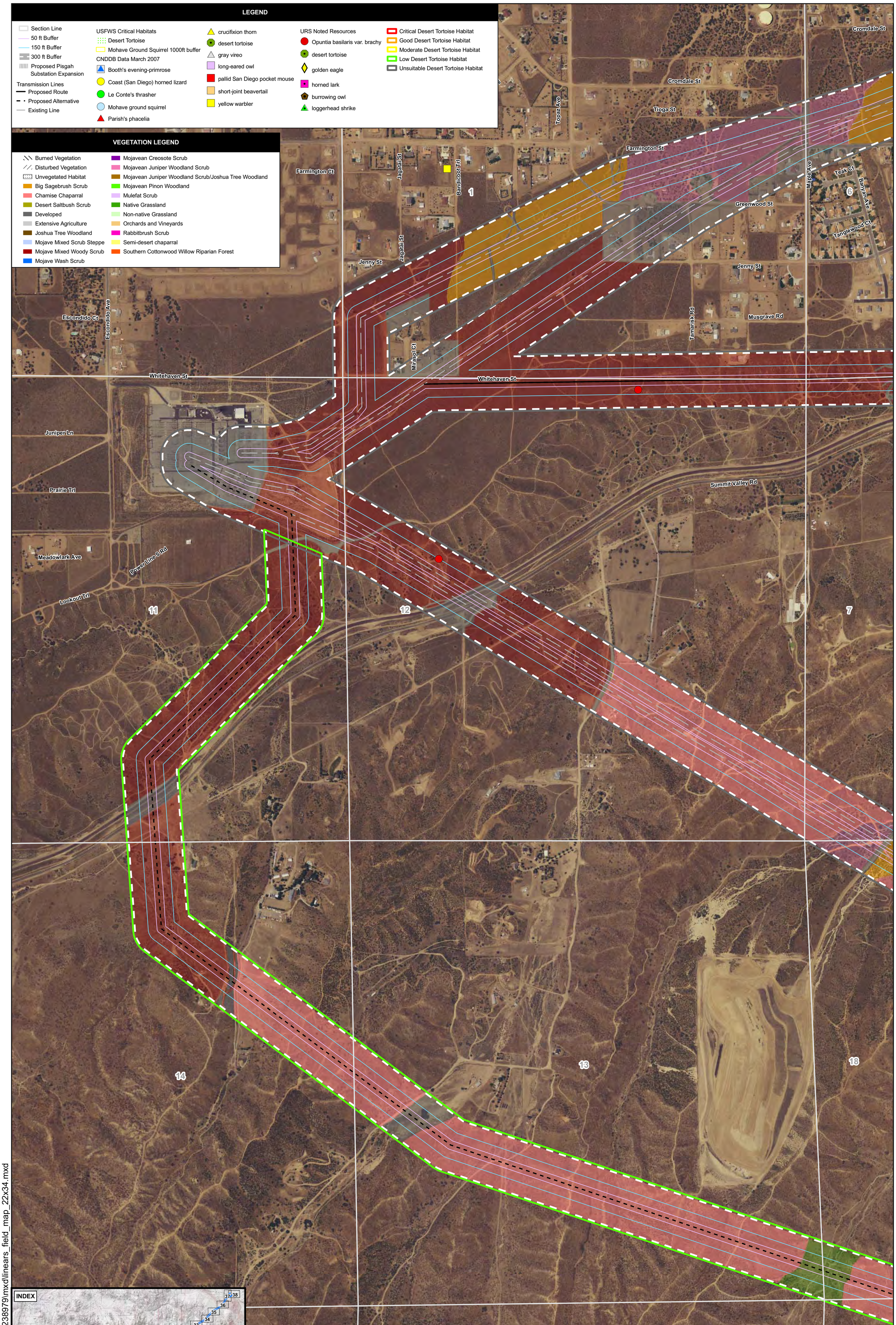
CNDDB Data March 2007
- Booth's evening-primrose
- Coast (San Diego) horned lizard
- Le Conte's thrasher
- Mohave ground squirrel
- Parish's phacelia
- crucifixion thorn
- desert tortoise
- gray vireo
- long-eared owl
- pallid San Diego pocket mouse
- short-joint beavertail
- yellow warbler

URS Noted Resources
- Opuntia basilaris var. brachy
- desert tortoise
- golden eagle
- horned lark
- burrowing owl
- loggerhead shrike

- Critical Desert Tortoise Habitat
- Good Desert Tortoise Habitat
- Moderate Desert Tortoise Habitat
- Low Desert Tortoise Habitat
- Unsuitable Desert Tortoise Habitat

VEGETATION LEGEND

- Burned Vegetation
- Disturbed Vegetation
- Unvegetated Habitat
- Big Sagebrush Scrub
- Chamise Chaparral
- Desert Saltbush Scrub
- Developed
- Extensive Agriculture
- Joshua Tree Woodland
- Mojave Mixed Scrub Steppe
- Mojave Mixed Woody Scrub
- Mojave Wash Scrub
- Mojavean Creosote Scrub
- Mojavean Juniper Woodland Scrub
- Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
- Mojavean Pinon Woodland
- Mulefat Scrub
- Native Grassland
- Non-native Grassland
- Orchards and Vineyards
- Rabbitbrush Scrub
- Semi-desert chaparral
- Southern Cottonwood Willow Riparian Forest



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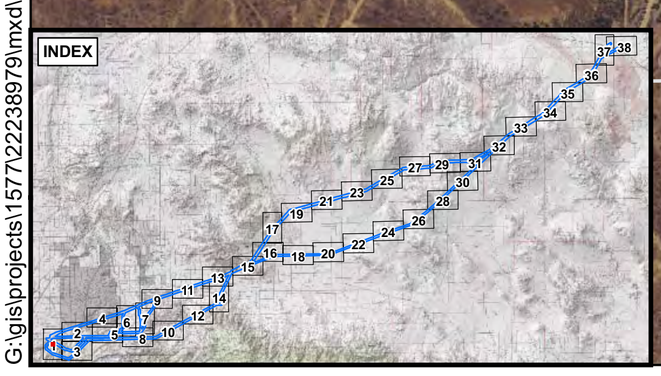

SOURCES: SEC (transmision lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

N

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 1 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 1
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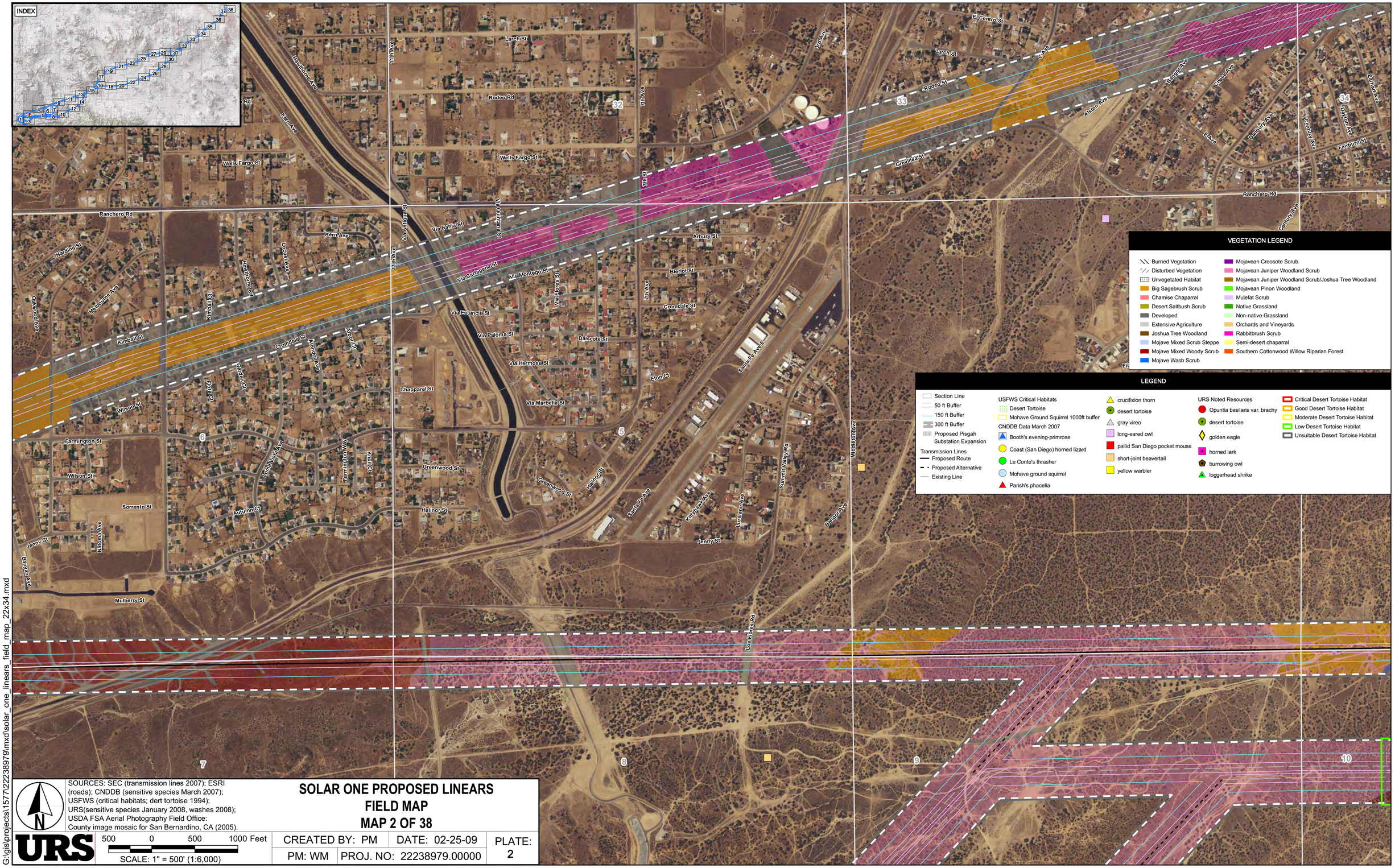

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 2 OF 38

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

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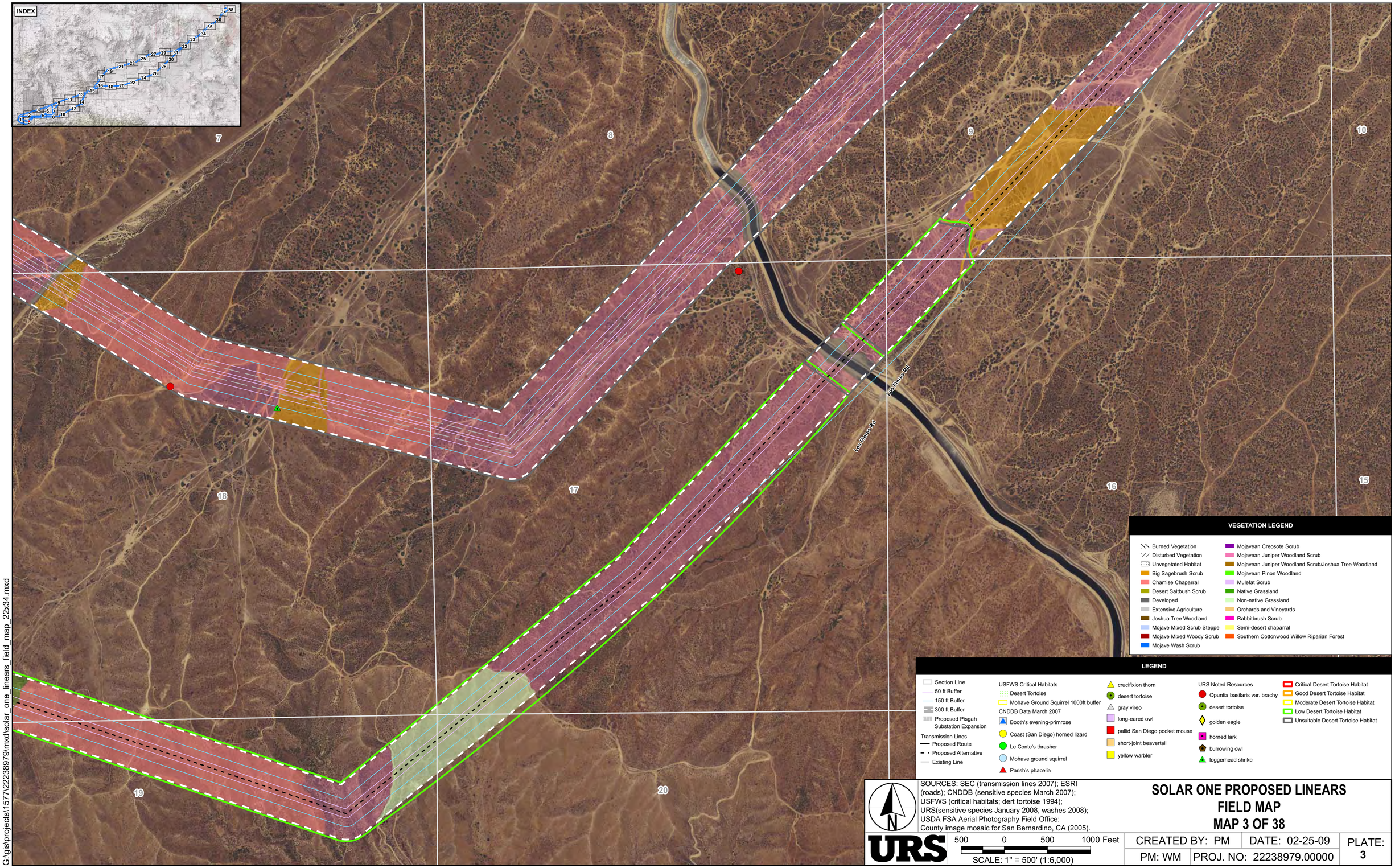

VEGETATION LEGEND

- Burned Vegetation
- Disturbed Vegetation
- Unvegetated Habitat
- Big Sagebrush Scrub
- Chamise Chaparral
- Desert Saltbush Scrub
- Developed
- Extensive Agriculture
- Joshua Tree Woodland
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- Mojave Mixed Woody Scrub
- Mojave Wash Scrub
- Mojavean Creosote Scrub
- Mojavean Juniper Woodland Scrub
- Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
- Mojavean Pinon Woodland
- Mulefat Scrub
- Native Grassland
- Non-native Grassland
- Orchards and Vineyards
- Rabbitbrush Scrub
- Semi-desert chaparral
- Southern Cottonwood Willow Riparian Forest

LEGEND

- Section Line
- 50 ft Buffer
- 150 ft Buffer
- 300 ft Buffer
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- Parish's phacelia
- crucifixion thorn
- desert tortoise
- gray vireo
- long-eared owl
- pallid San Diego pocket mouse
- short-joint beavertail
- yellow warbler

URS Noted Resources
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- golden eagle
- horned lark
- burrowing owl
- loggerhead shrike
- Critical Desert Tortoise Habitat
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SOLAR ONE PROPOSED LINEARS FIELD MAP
MAP 3 OF 38

URS

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SCALE: 1" = 500' (1:6,000)

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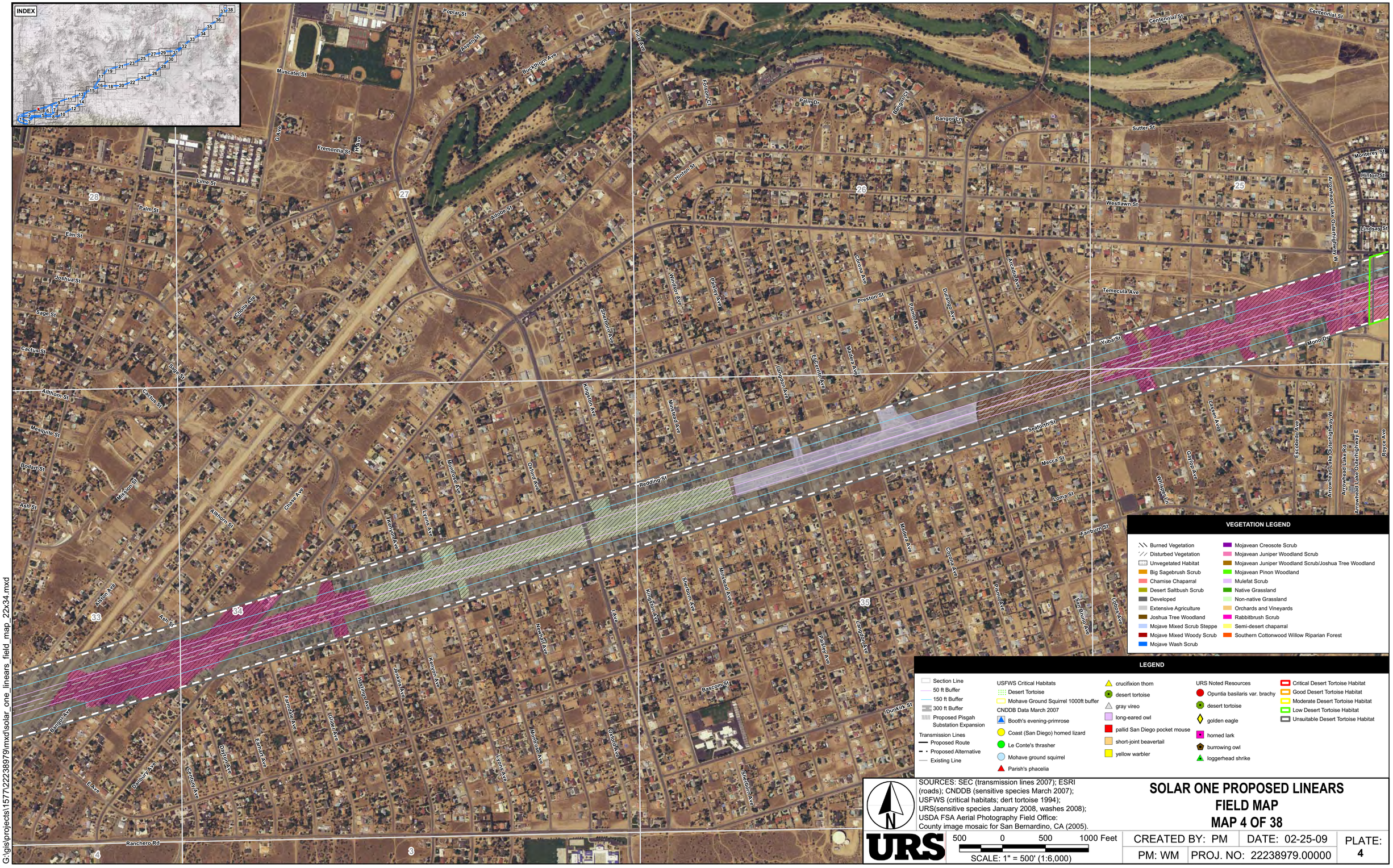
INDEX
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
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Non-native Grassland
Orchards and Vineyards
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150 ft Buffer
300 ft Buffer
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Proposed Route
Proposed Alternative
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desert tortoise
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URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 4 OF 38
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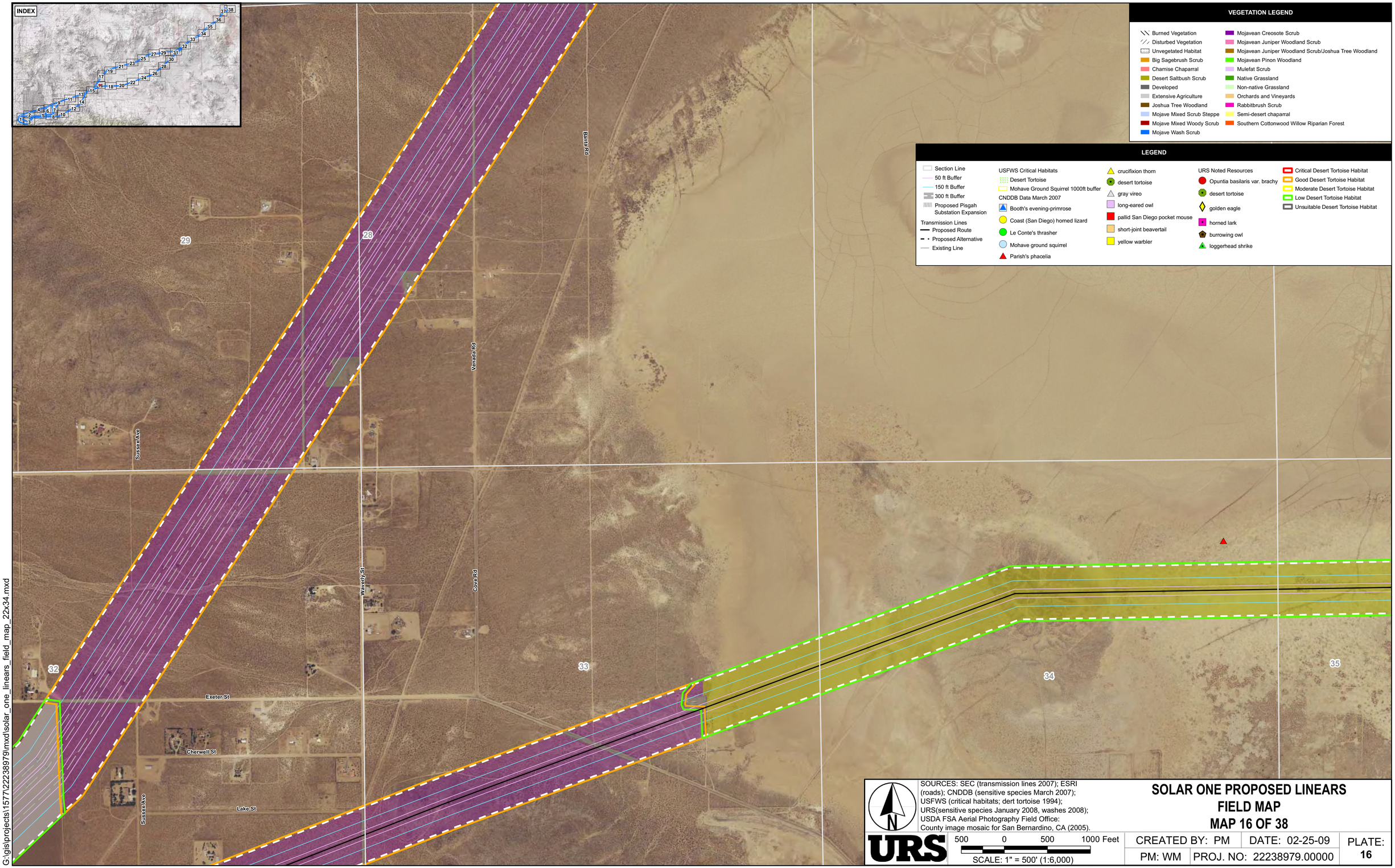

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 16 OF 38

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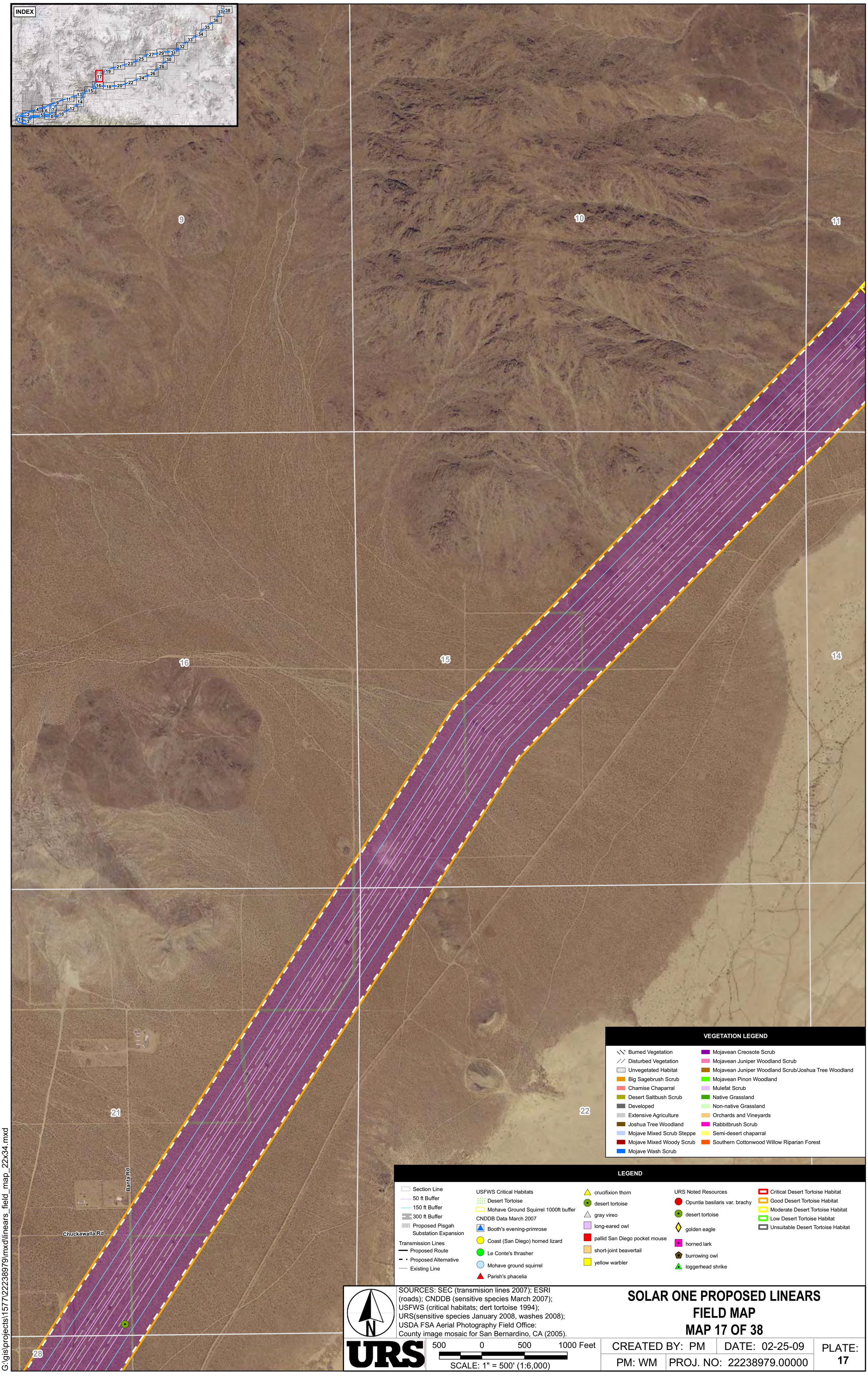
INDEX
9
10
11
16
15
14
21
22
28
Banta Rd
Chuckawalla Rd
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
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Mojave Wash Scrub
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LEGEND
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URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 17 OF 38
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VEGETATION LEGEND

- Burned Vegetation
- Disturbed Vegetation
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N

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 18 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 18
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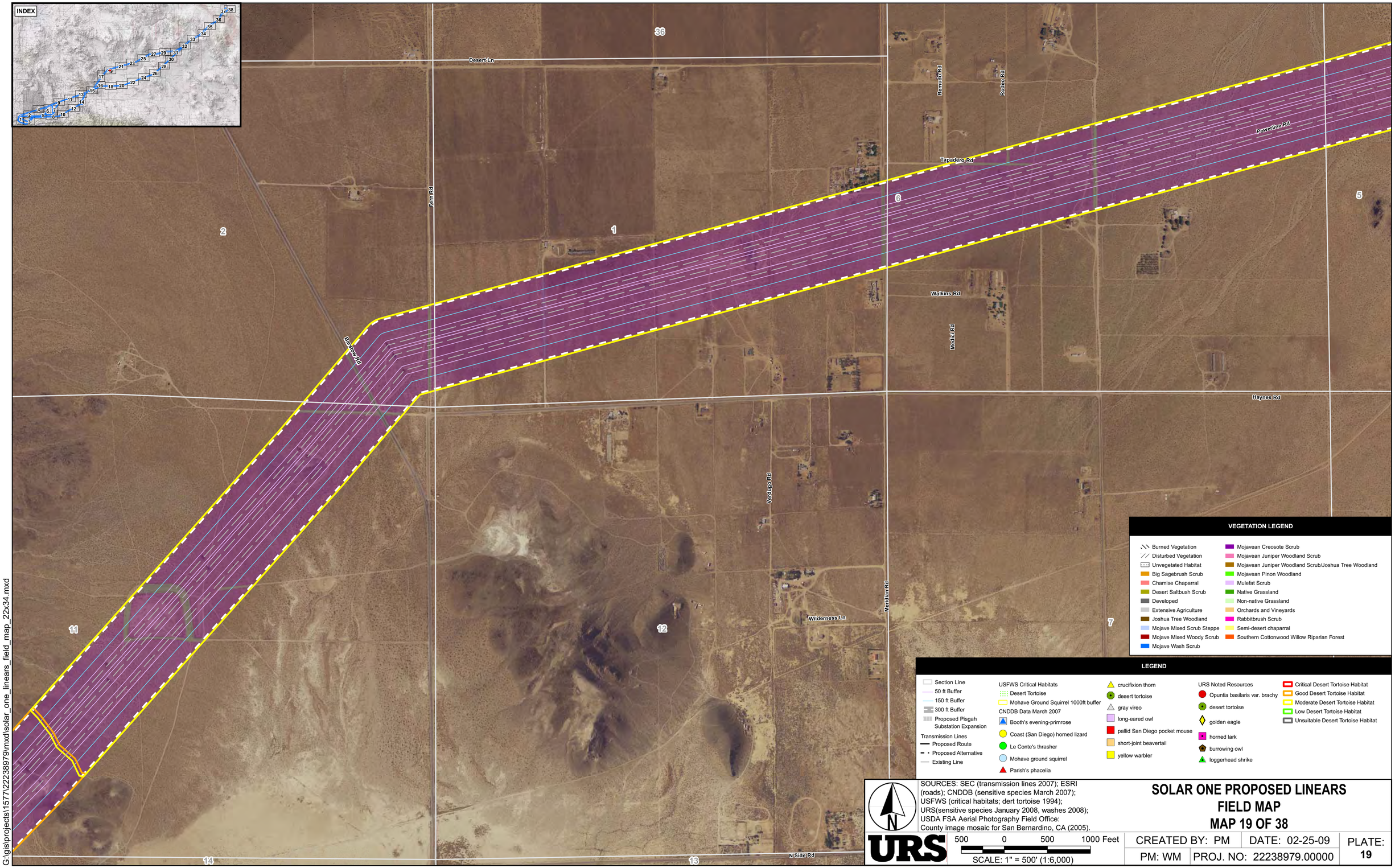

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SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 19 OF 38

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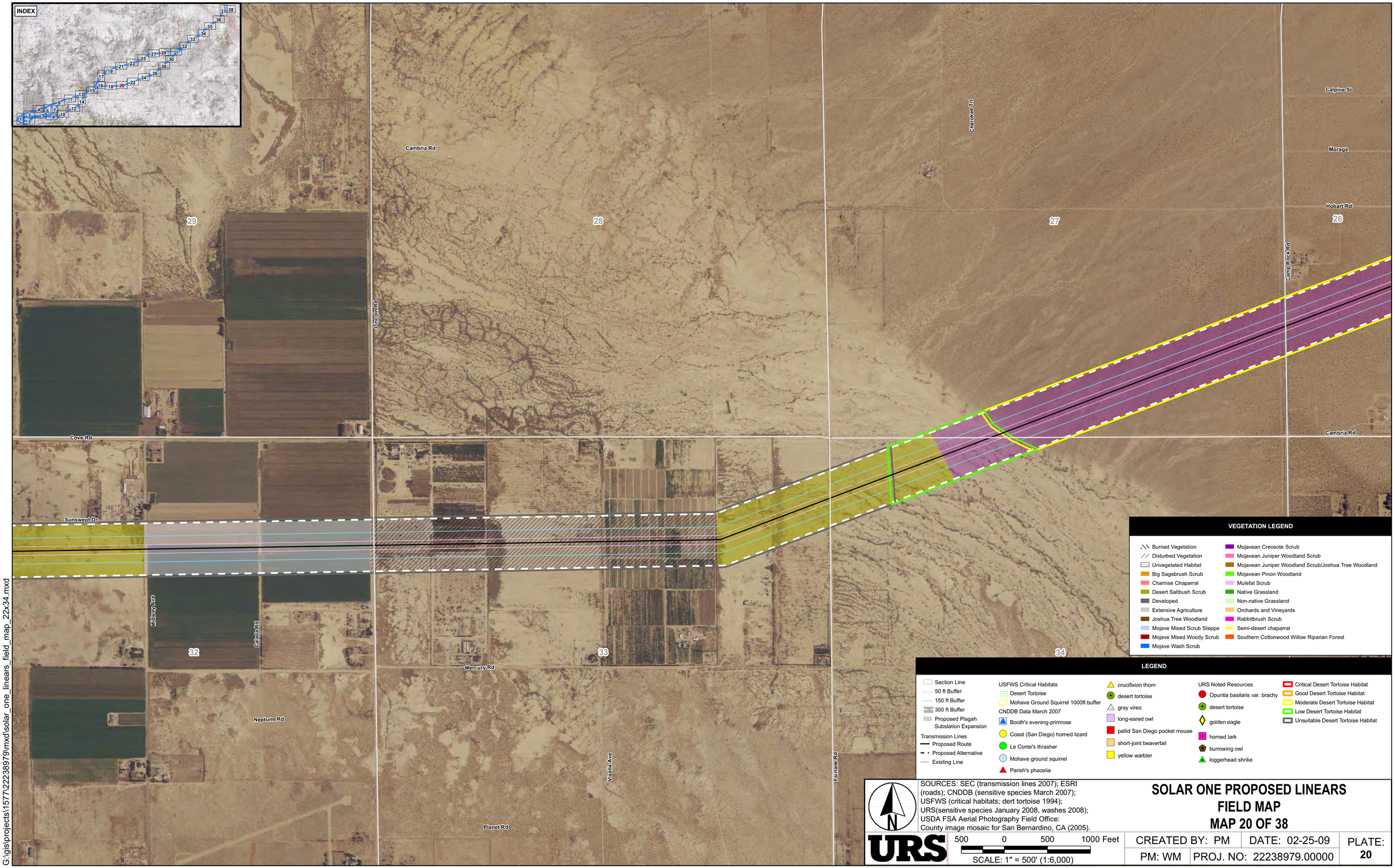

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

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URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 20 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 20
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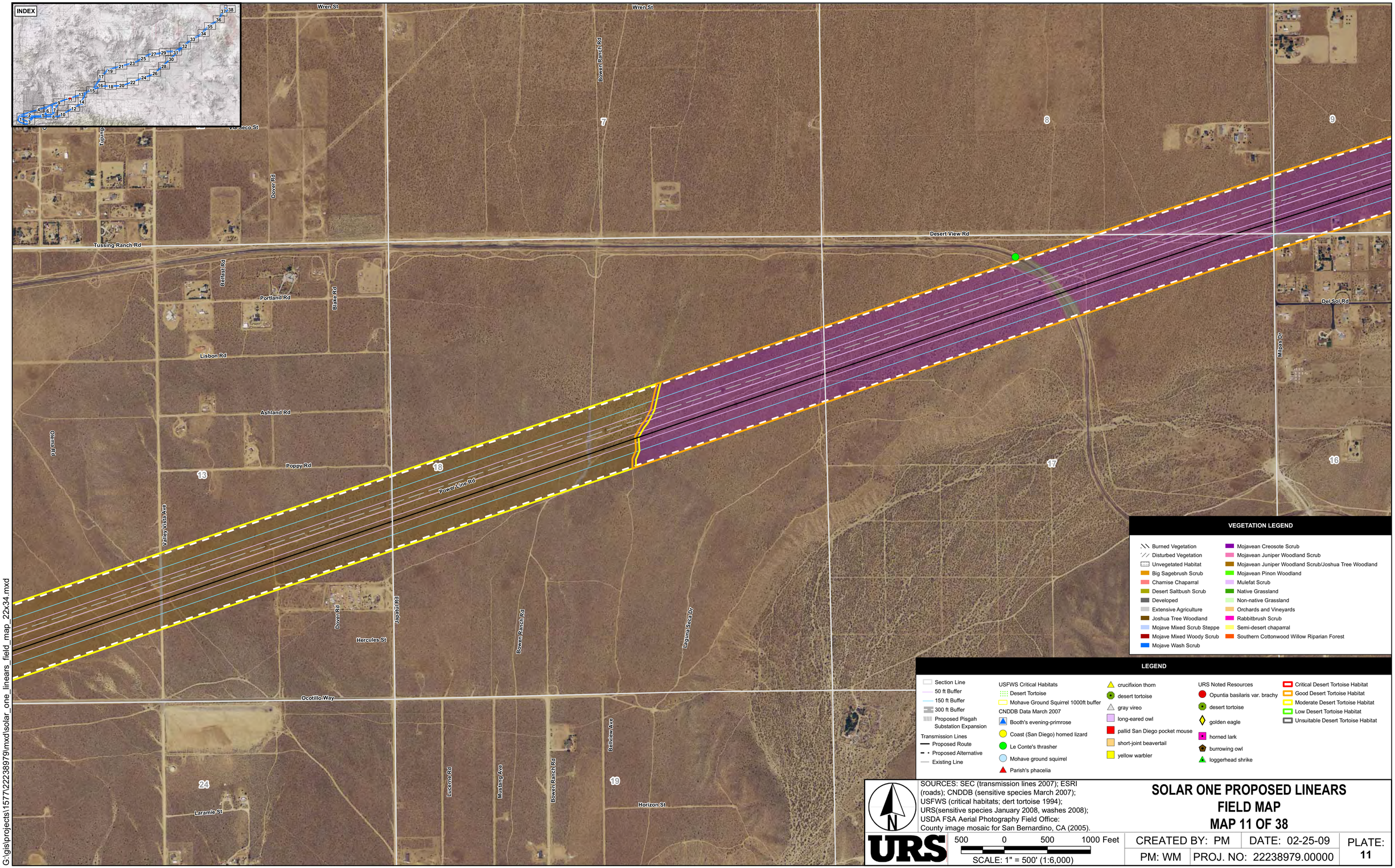

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URS

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 11 OF 38

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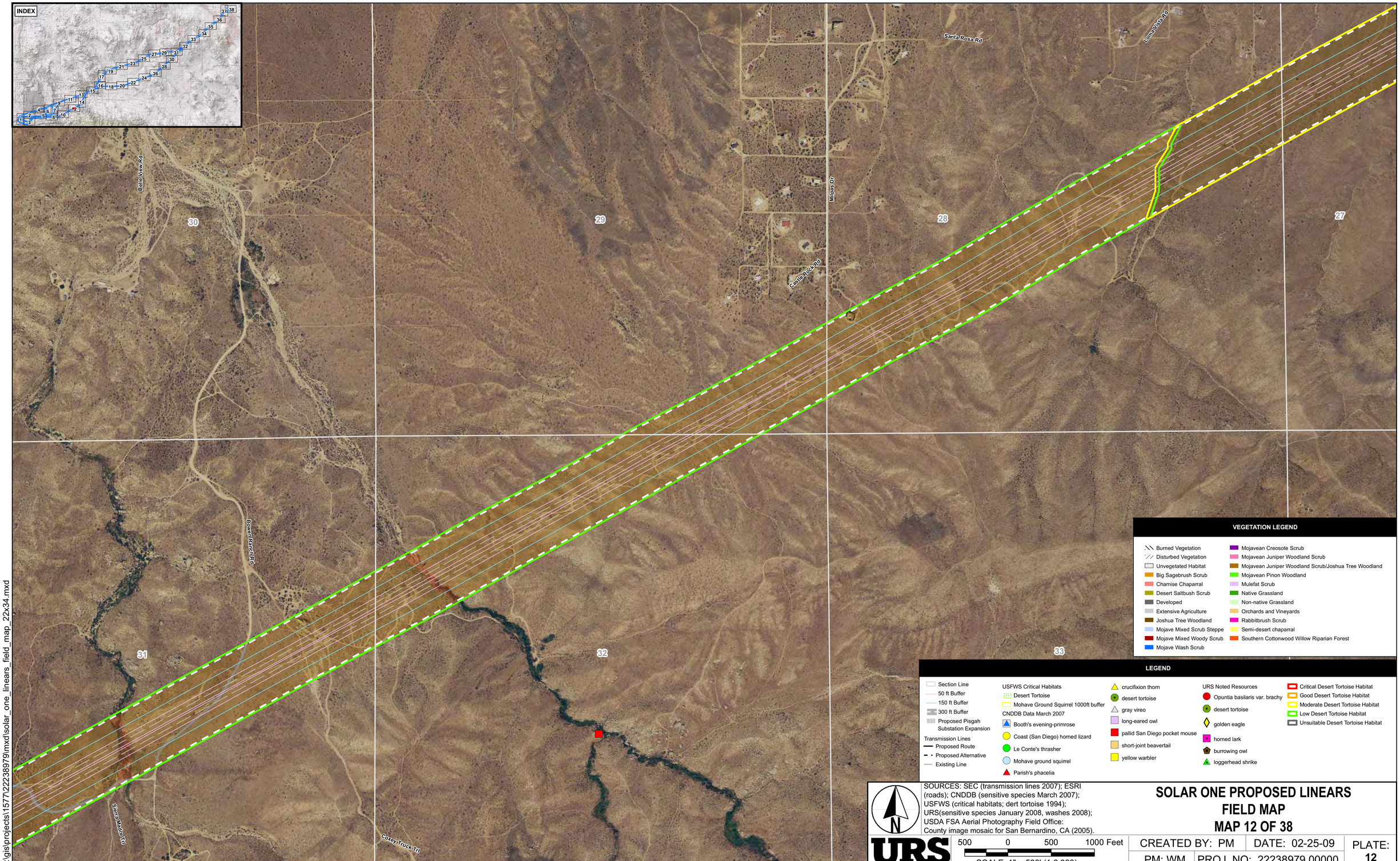

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SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

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URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP

MAP 12 OF 38

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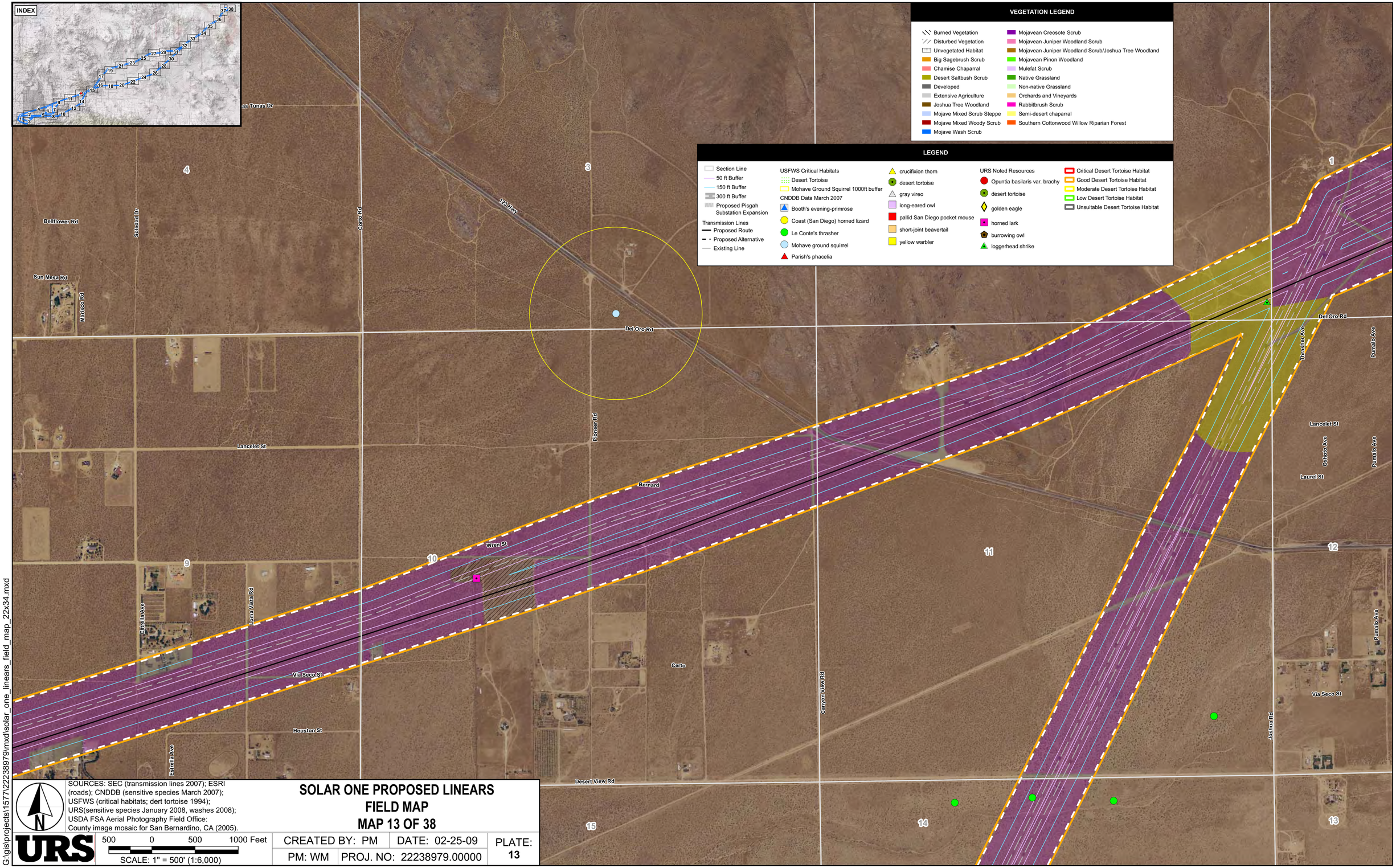

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N

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 13 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 13
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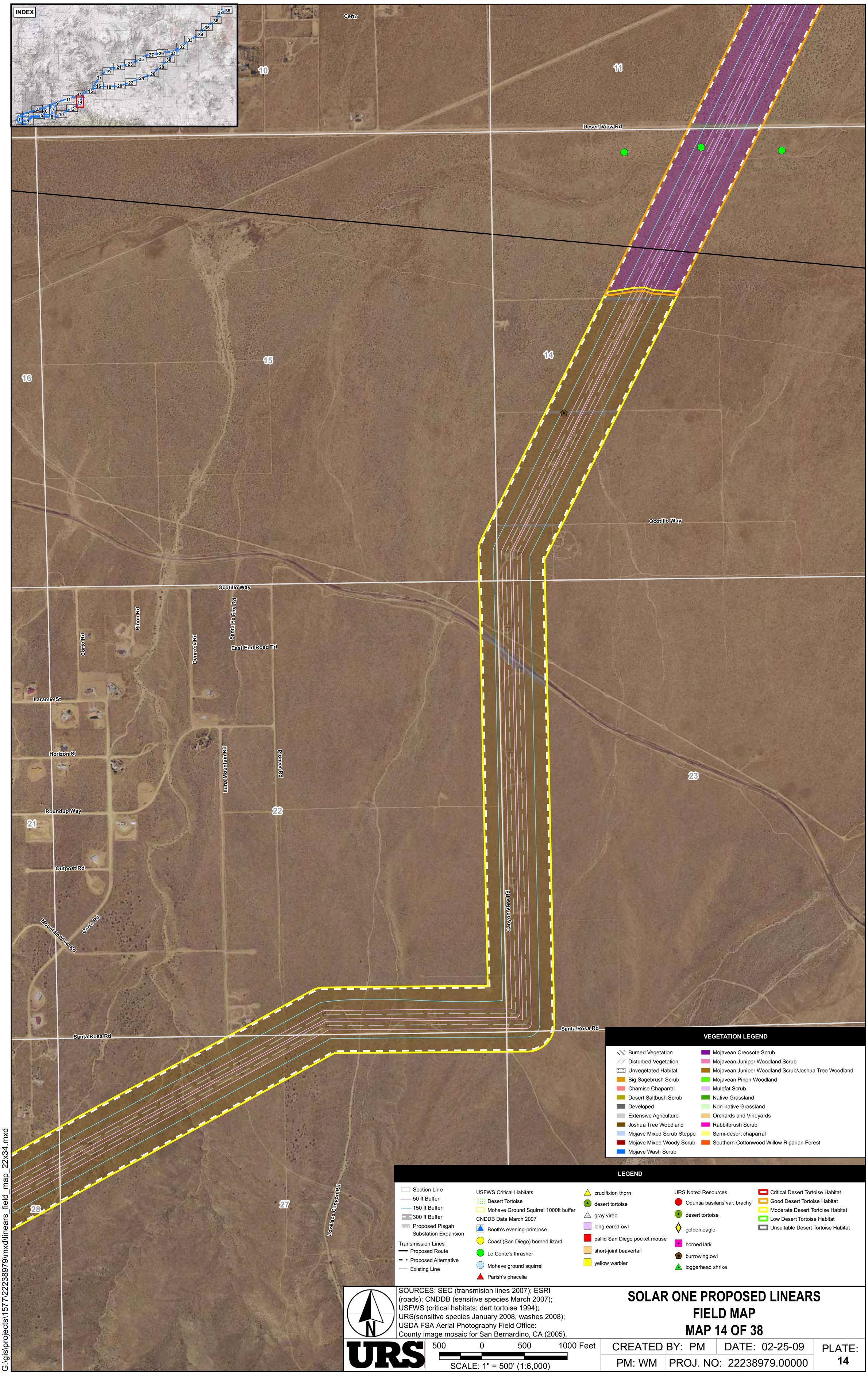
INDEX
Certo
Desert View Rd
Ocotillo Way
Santa Fe Fire Rd
Pinon Rd
Corto Rd
Denrock Rd
East End Road Trl
Laramie St
Horizon St
Luna Mountain Rd
Pioneer Rd
Roundup Way
Outpost Rd
Mountain View Rd
Corto Rd
Santa Rosa Rd
Canyon View Rd
Lovelace Canyon Rd
10
11
14
15
16
21
22
23
27
28
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
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Extensive Agriculture
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URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 14 OF 38
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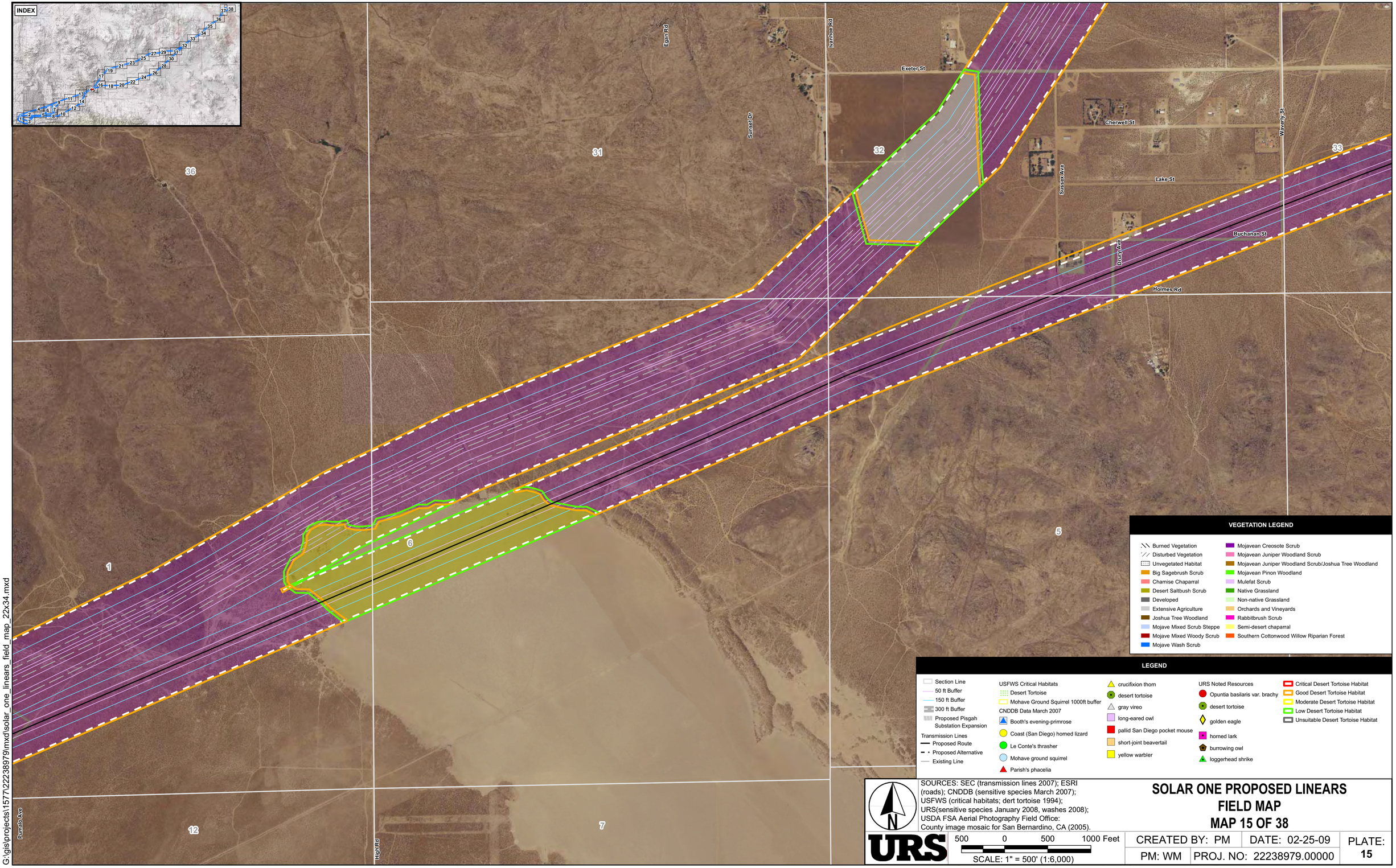

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SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

N

URS

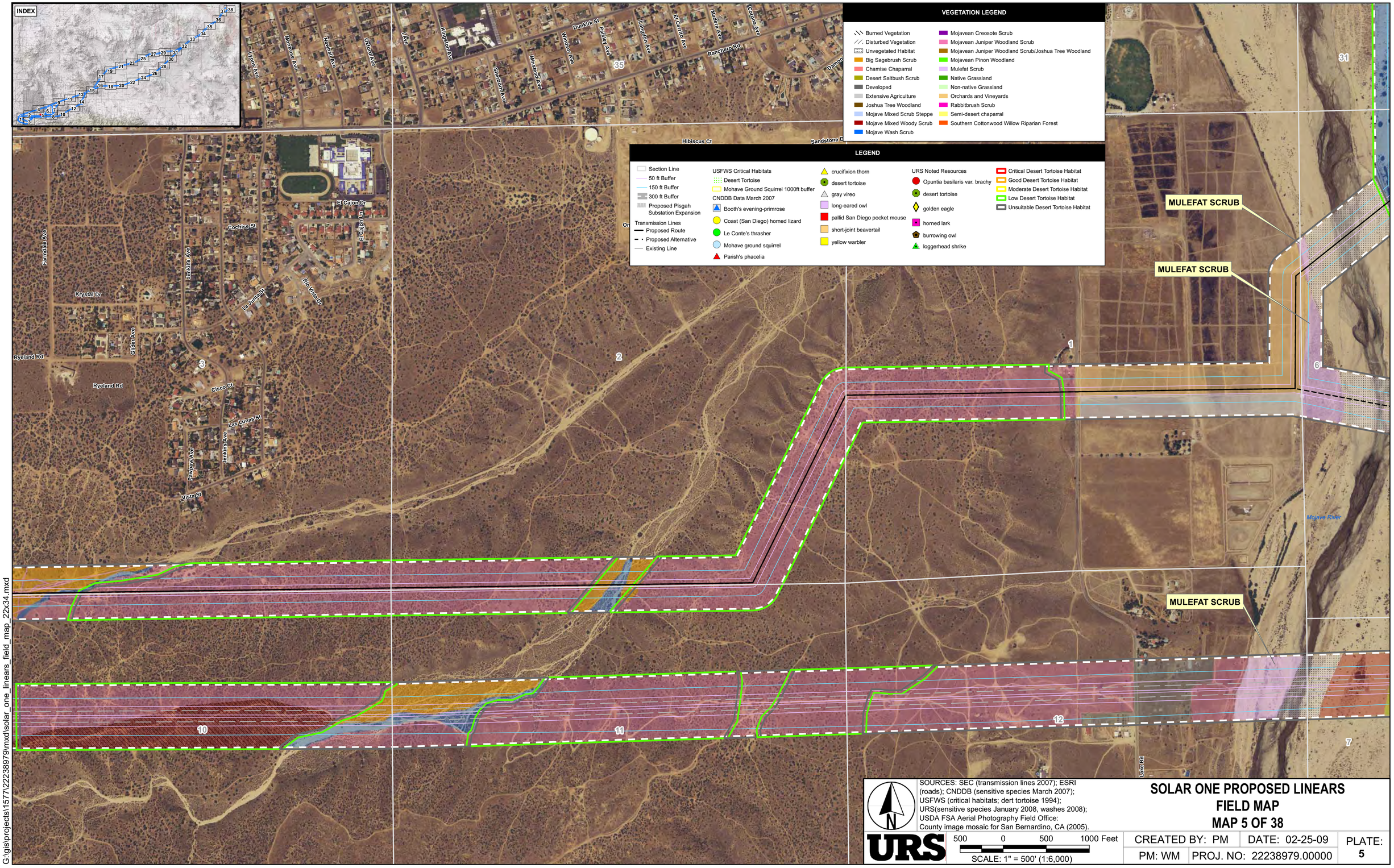
500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP

MAP 15 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 15
PM: WM	PROJ. NO: 22238979.00000	



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SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP

MAP 5 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 5
PM: WM	PROJ. NO: 22238979.00000	

LEGEND

- Section Line
- 50 ft Buffer
- 150 ft Buffer
- 300 ft Buffer
- Proposed Pisgah Substation Expansion

Transmission Lines
- Proposed Route
- Proposed Alternative
- Existing Line

USFWS Critical Habitats
- Desert Tortoise
- Mohave Ground Squirrel 1000ft buffer

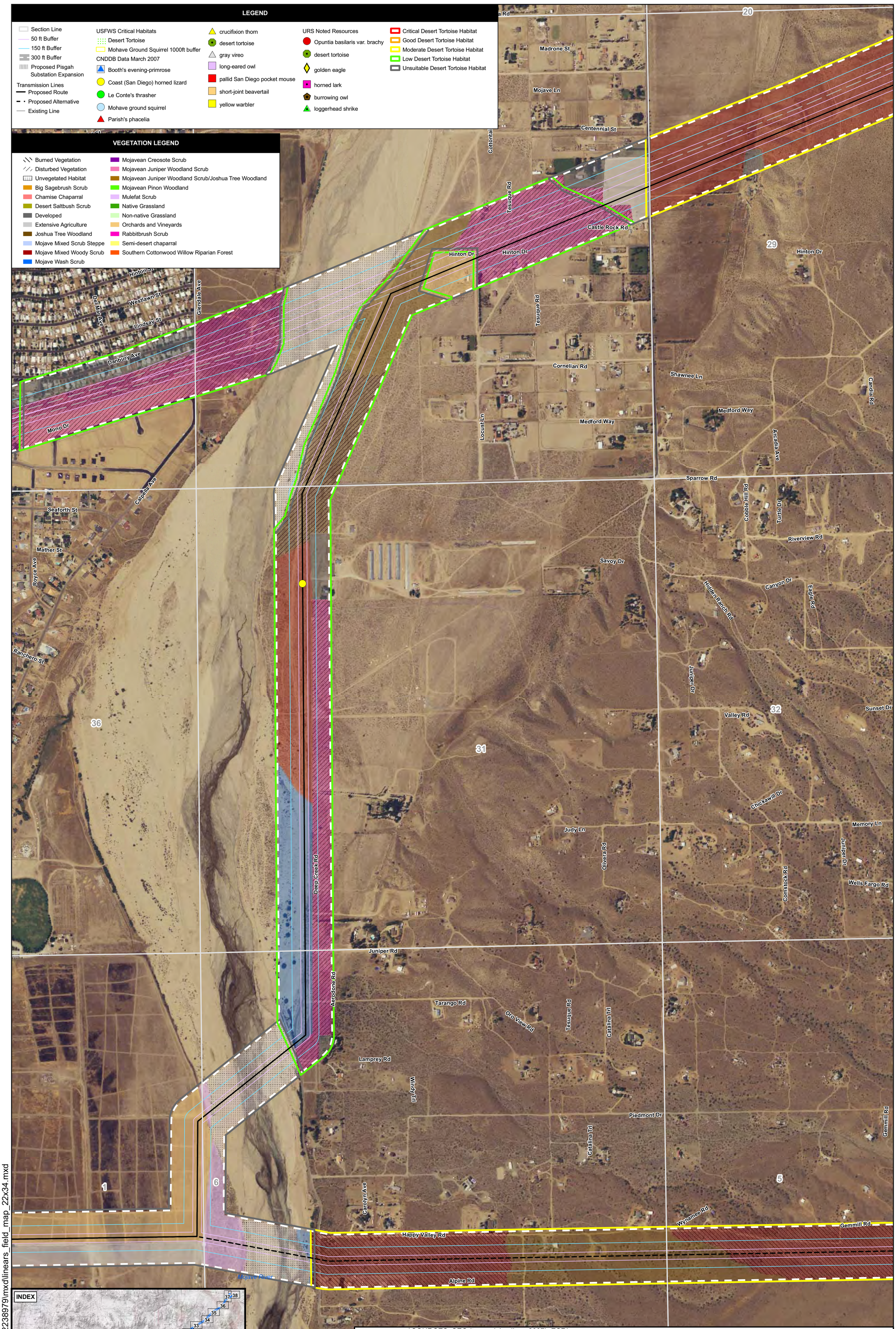
CNDDB Data March 2007
- Booth's evening-primrose
- Coast (San Diego) horned lizard
- Le Conte's thrasher
- Mohave ground squirrel
- Parish's phacelia
- crucifixion thorn
- desert tortoise
- gray vireo
- long-eared owl
- pallid San Diego pocket mouse
- short-joint beavertail
- yellow warbler

URS Noted Resources
- Opuntia basilaris var. brachy
- desert tortoise
- golden eagle
- horned lark
- burrowing owl
- loggerhead shrike

- Critical Desert Tortoise Habitat
- Good Desert Tortoise Habitat
- Moderate Desert Tortoise Habitat
- Low Desert Tortoise Habitat
- Unsuitable Desert Tortoise Habitat

VEGETATION LEGEND

- Burned Vegetation
- Disturbed Vegetation
- Unvegetated Habitat
- Big Sagebrush Scrub
- Chamise Chaparral
- Desert Saltbush Scrub
- Developed
- Extensive Agriculture
- Joshua Tree Woodland
- Mojave Mixed Scrub Steppe
- Mojave Mixed Woody Scrub
- Mojave Wash Scrub
- Mojavean Creosote Scrub
- Mojavean Juniper Woodland Scrub
- Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
- Mojavean Pinon Woodland
- Mulefat Scrub
- Native Grassland
- Non-native Grassland
- Orchards and Vineyards
- Rabbitbrush Scrub
- Semi-desert chaparral
- Southern Cottonwood Willow Riparian Forest



SOURCES: SEC (transmision lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

N

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 6 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 6
PM: WM	PROJ. NO: 22238979.00000	

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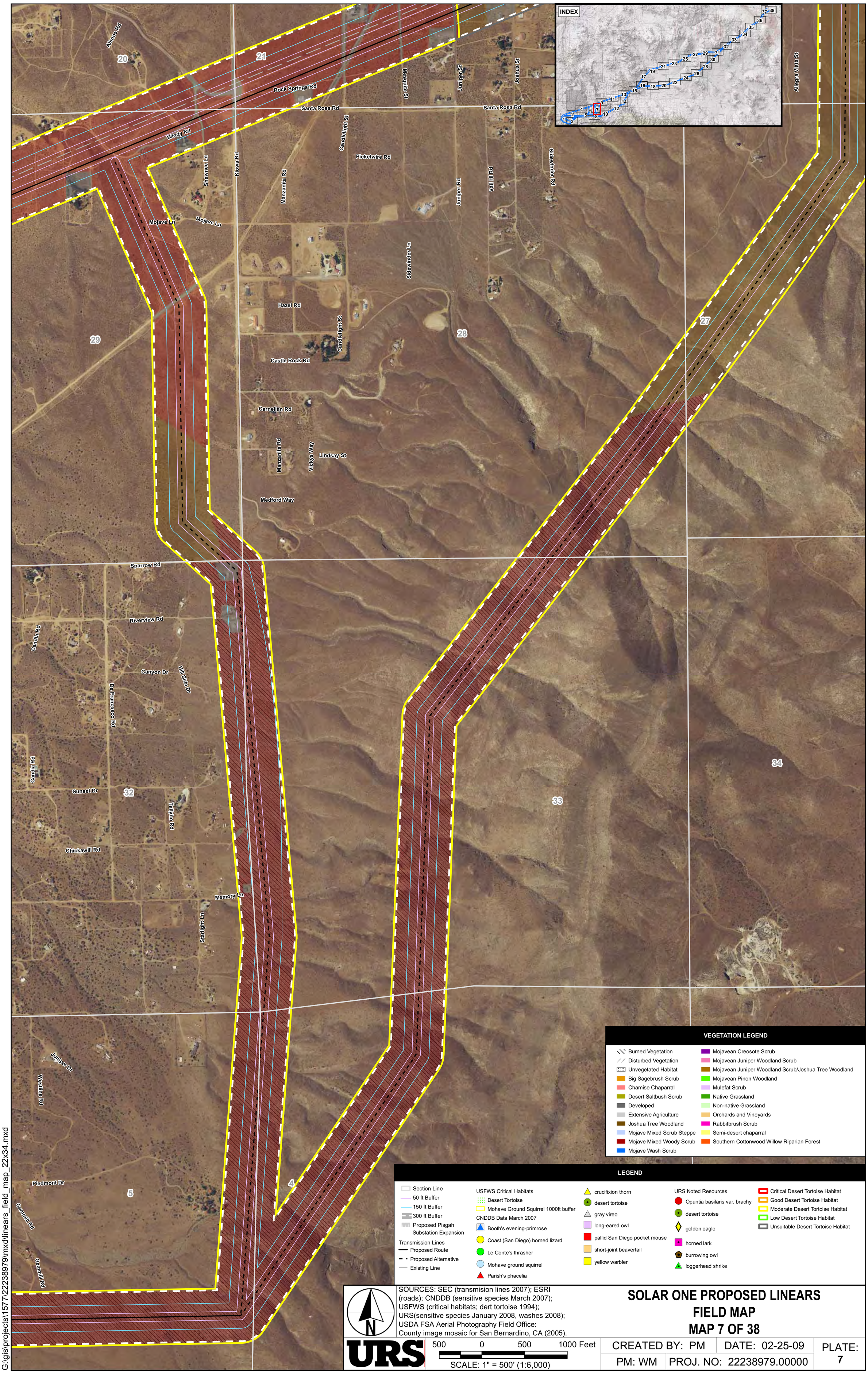
INDEX
Alimos Rd
Rock Springs Rd
Windy Rd
Santa Rosa Rd
Westline St
Juniper St
Joshua St
Allegra Vista St
Candlelight St
Picketwire Rd
Shawnee Ln
Kiowa Rd
Manzanita Rd
Juniper Rd
Vail Hi Rd
Sidewinder Rd
Mojave Ln
Sidewinder Ln
Hazel Rd
Castle Rock Rd
Carnelian Rd
Vickys Way
Lindsay St
Medford Way
Sparrow Rd
Riverview Rd
Candia Rd
Canyon Dr
Hill Side Dr
De Francesco Rd
Sunset Dr
Tallyho Rd
Chickawill Rd
Memory Ln
Starlight Ln
Juniper Dr
Westline Rd
Piedmont Dr
Gemmill Rd
20
21
27
28
29
32
33
34
4
5
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
Coast (San Diego) horned lizard
Le Conte's thrasher
Mohave ground squirrel
Parish's phacelia
crucifixion thorn
desert tortoise
gray vireo
long-eared owl
pallid San Diego pocket mouse
short-joint beavertail
yellow warbler
URS Noted Resources
Opuntia basilaris var. brachy
desert tortoise
golden eagle
horned lark
burrowing owl
loggerhead shrike
Critical Desert Tortoise Habitat
Good Desert Tortoise Habitat
Moderate Desert Tortoise Habitat
Low Desert Tortoise Habitat
Unsuitable Desert Tortoise Habitat
N
SOURCES: SEC (transmision lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 7 OF 38
CREATED BY: PM
DATE: 02-25-09
PM: WM
PROJ. NO: 22238979.00000
PLATE: 7
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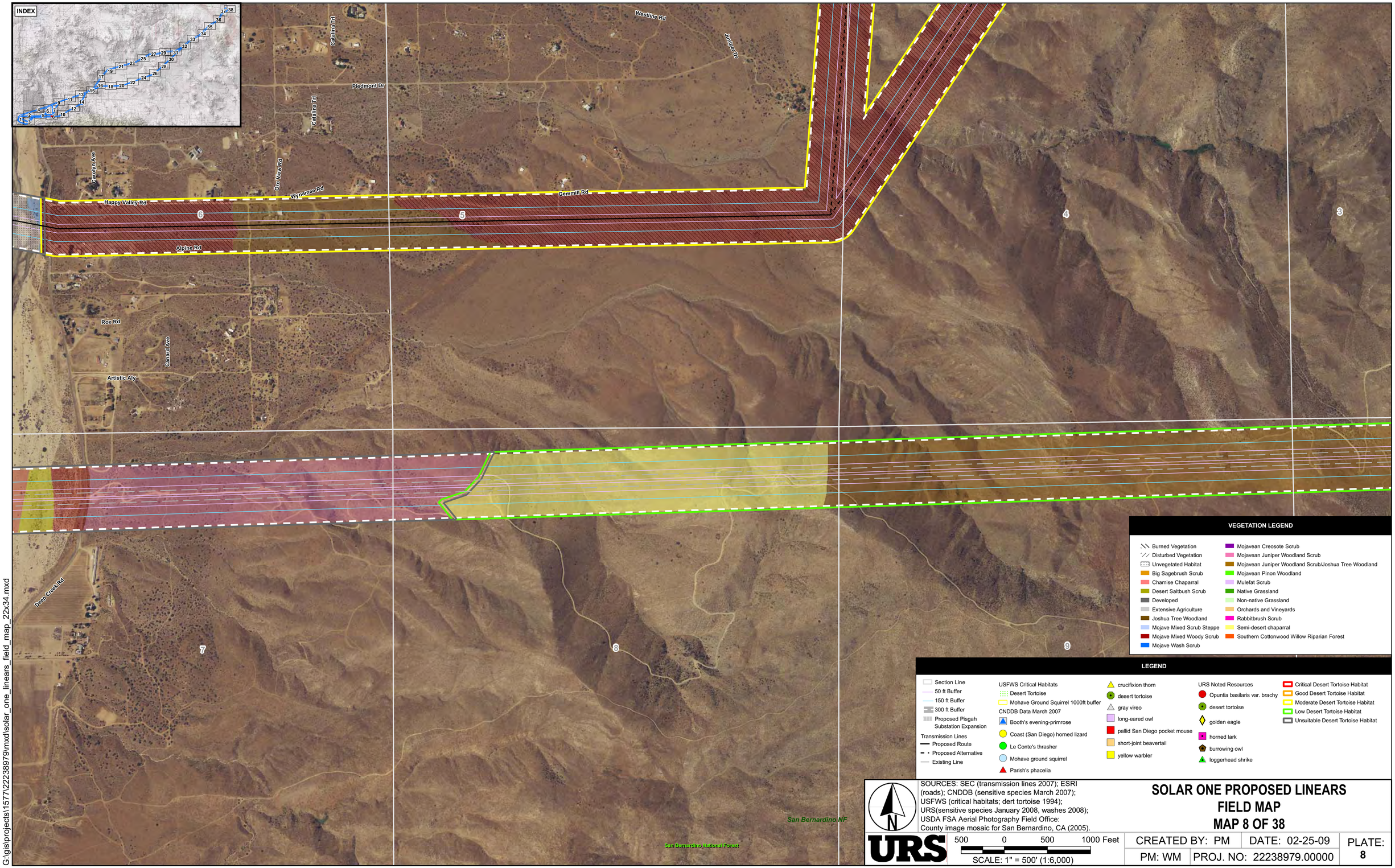
INDEX
Westline Rd
Juniper Dr
Catalina Tri
Piedmont Dr
Carolyn Ave
Oro View Rd
Wynema Rd
Gemmill Rd
Happy Valley Rd
Alpine Rd
Rox Rd
Canard Ave
Artistic Aly
Deep Creek Rd
San Bernardino NF
San Bernardino National Forest
3
4
5
6
7
8
9
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
Coast (San Diego) horned lizard
Le Conte's thrasher
Mohave ground squirrel
Parish's phacelia
crucifixion thorn
desert tortoise
gray vireo
long-eared owl
pallid San Diego pocket mouse
short-joint beavertail
yellow warbler
URS Noted Resources
Opuntia basilaris var. brachy
desert tortoise
golden eagle
horned lark
burrowing owl
loggerhead shrike
Critical Desert Tortoise Habitat
Good Desert Tortoise Habitat
Moderate Desert Tortoise Habitat
Low Desert Tortoise Habitat
Unsuitable Desert Tortoise Habitat
N
SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 8 OF 38
CREATED BY: PM
DATE: 02-25-09
PM: WM
PROJ. NO: 22238979.00000
PLATE: 8
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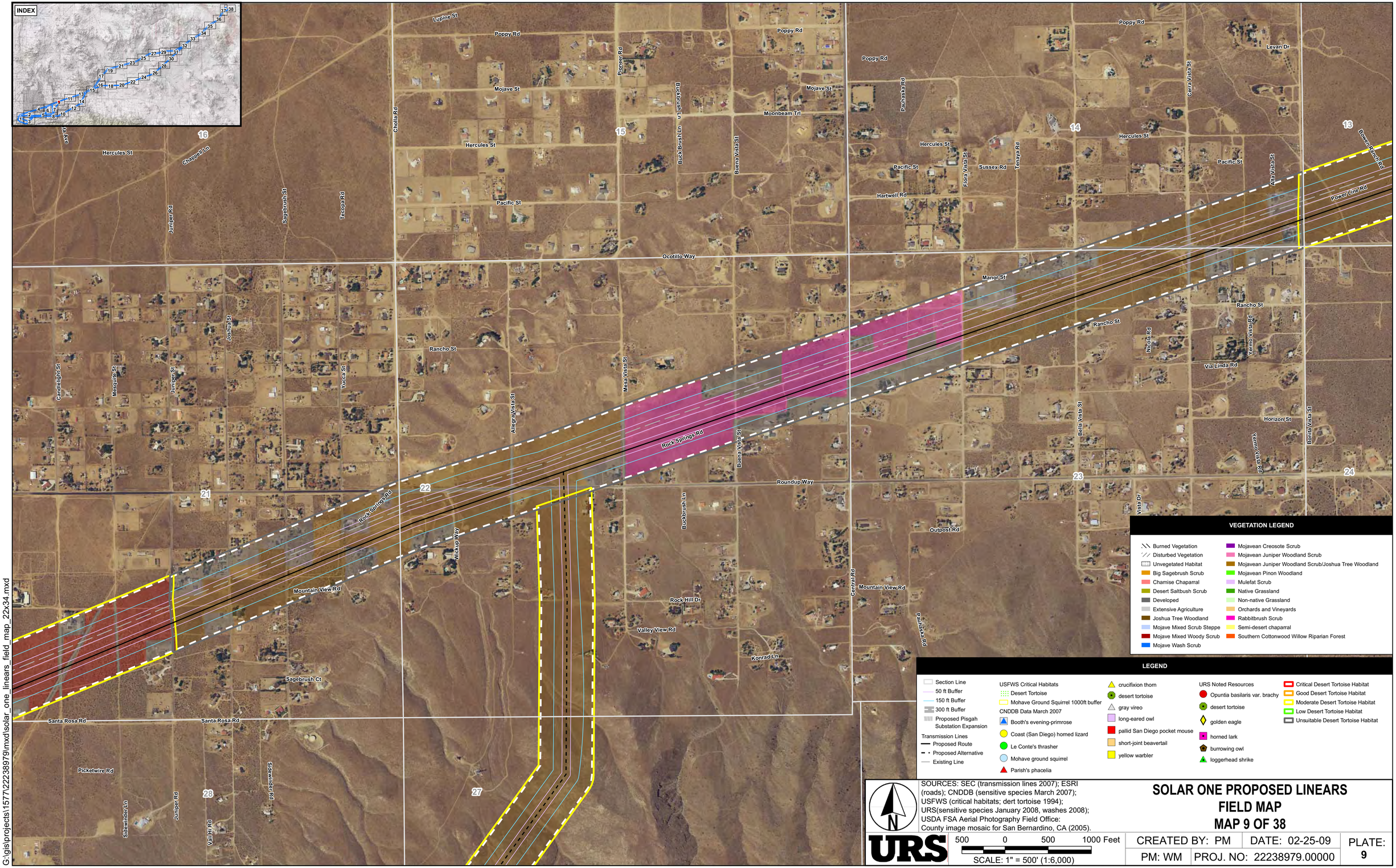
INDEX
Lupine St
Poppy Rd
Mojave St
Hercules St
Pacific St
Chuppell Ln
Juniper Rd
Sagebrush St
Tecopa Rd
Cholla Rd
Pioneer Rd
Buck Brush Ln
Buena Vista St
Moonbeam Trl
Ocotillo Way
Pashaska Rd
Sussex Rd
Tenaya Rd
Flora Vista St
Hartwell Rd
Levan Dr
Cerra Vista St
Alta Vista St
Bowen Ranch Rd
Power Line Rd
Manor St
Rancho St
Nizhoni Rd
Via Linda Rd
Yermo Vista Rd
Horizon St
Bella Vista St
Bonita Vista St
Candlelight St
Mesquite St
Joshua St
Yucca St
Mesa Vista St
Allegra Vista St
Rock Springs Rd
Roundup Way
Buckbrush Ln
Wickup Way
Mountain View Rd
Central Rd
Outpost Rd
Vista Dr
Rock Hill Dr
Valley View Rd
Konrad Ln
Sagebrush Ct
Santa Rosa Rd
Picketwire Rd
Sidewinder Ln
Sidewinder Rd
Valli H Rd
16
15
14
13
21
22
23
24
28
27
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
Coast (San Diego) horned lizard
Le Conte's thrasher
Mohave ground squirrel
Parish's phacelia
crucifixion thorn
desert tortoise
gray vireo
long-eared owl
pallid San Diego pocket mouse
short-joint beavertail
yellow warbler
URS Noted Resources
Opuntia basilaris var. brachy
desert tortoise
golden eagle
horned lark
burrowing owl
loggerhead shrike
Critical Desert Tortoise Habitat
Good Desert Tortoise Habitat
Moderate Desert Tortoise Habitat
Low Desert Tortoise Habitat
Unsuitable Desert Tortoise Habitat
N
SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 9 OF 38
CREATED BY: PM
DATE: 02-25-09
PLATE: 9
PM: WM
PROJ. NO: 22238979.00000
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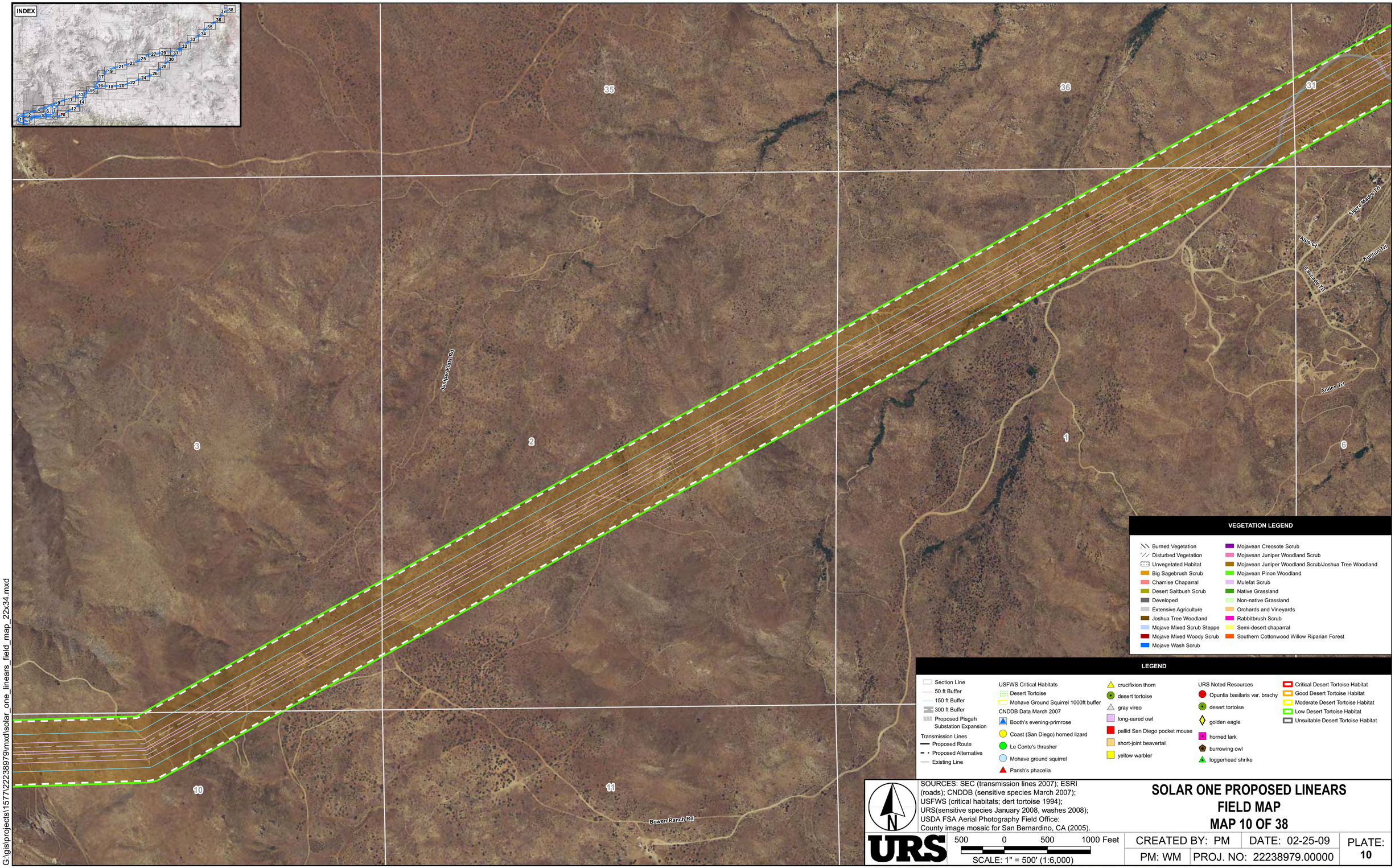

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SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

N

URS

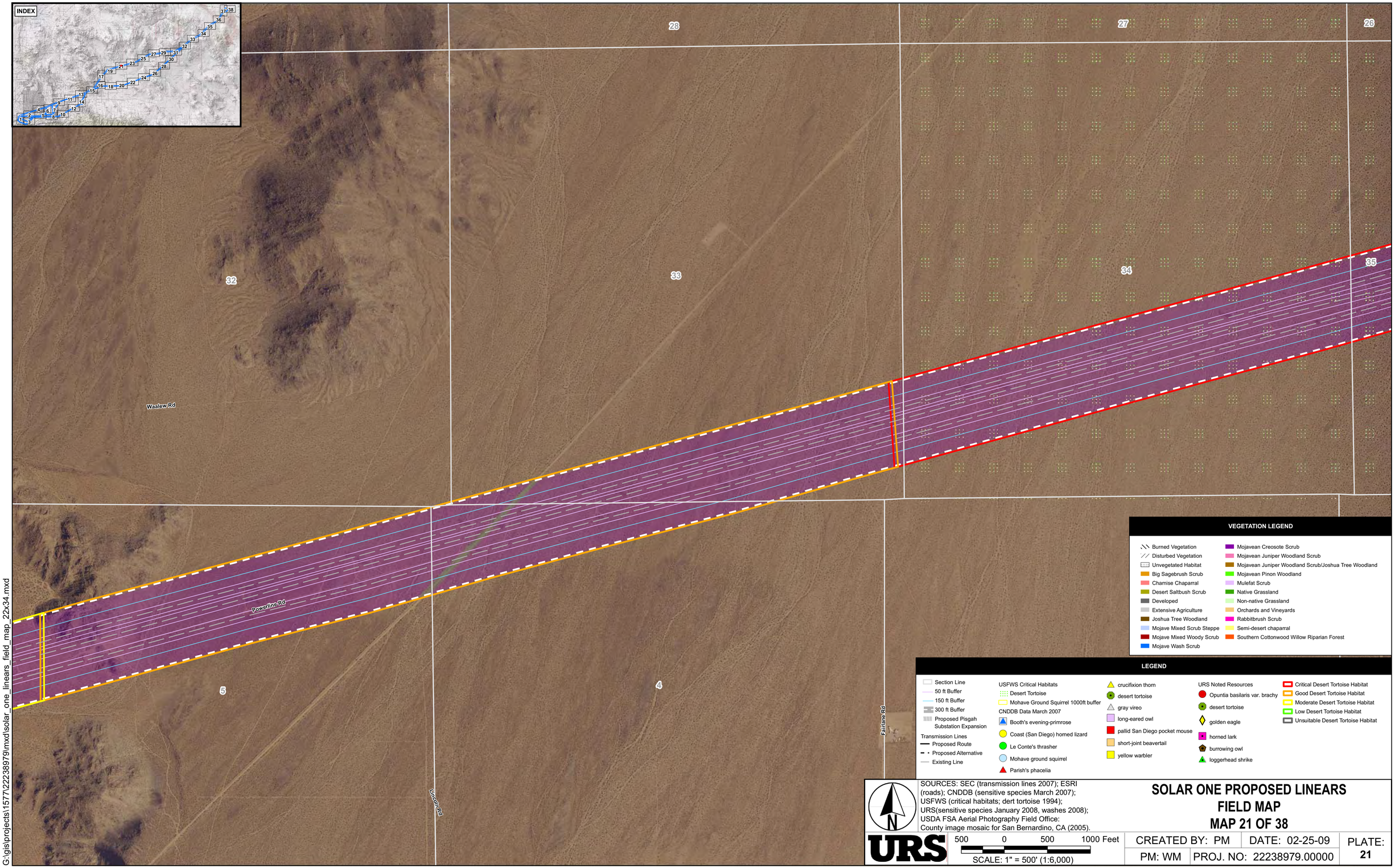
500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP

MAP 10 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 10
PM: WM	PROJ. NO: 22238979.00000	



SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP

MAP 21 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 21
PM: WM	PROJ. NO: 22238979.00000	

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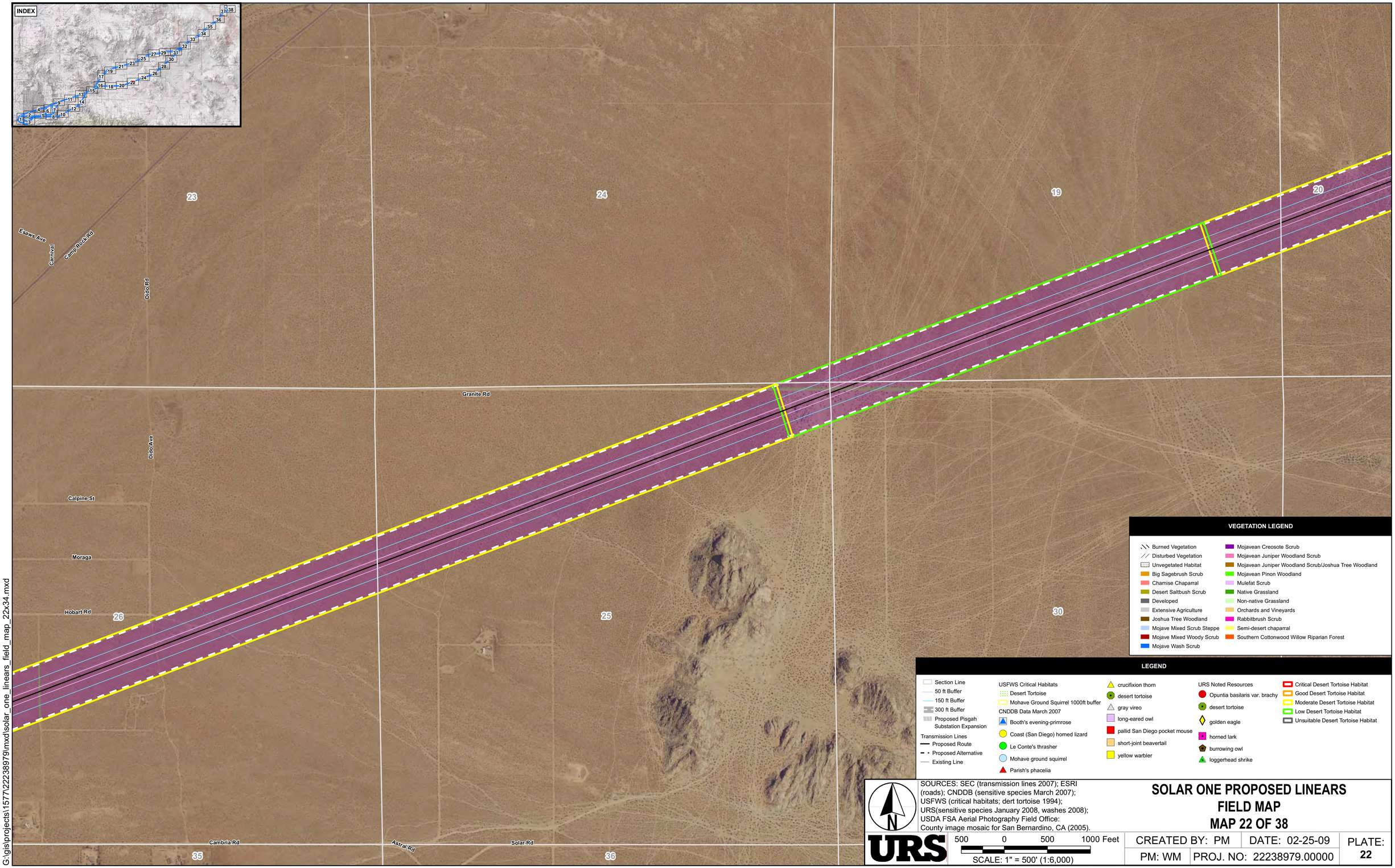

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS FIELD MAP
MAP 22 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 22
PM: WM	PROJ. NO: 22238979.00000	

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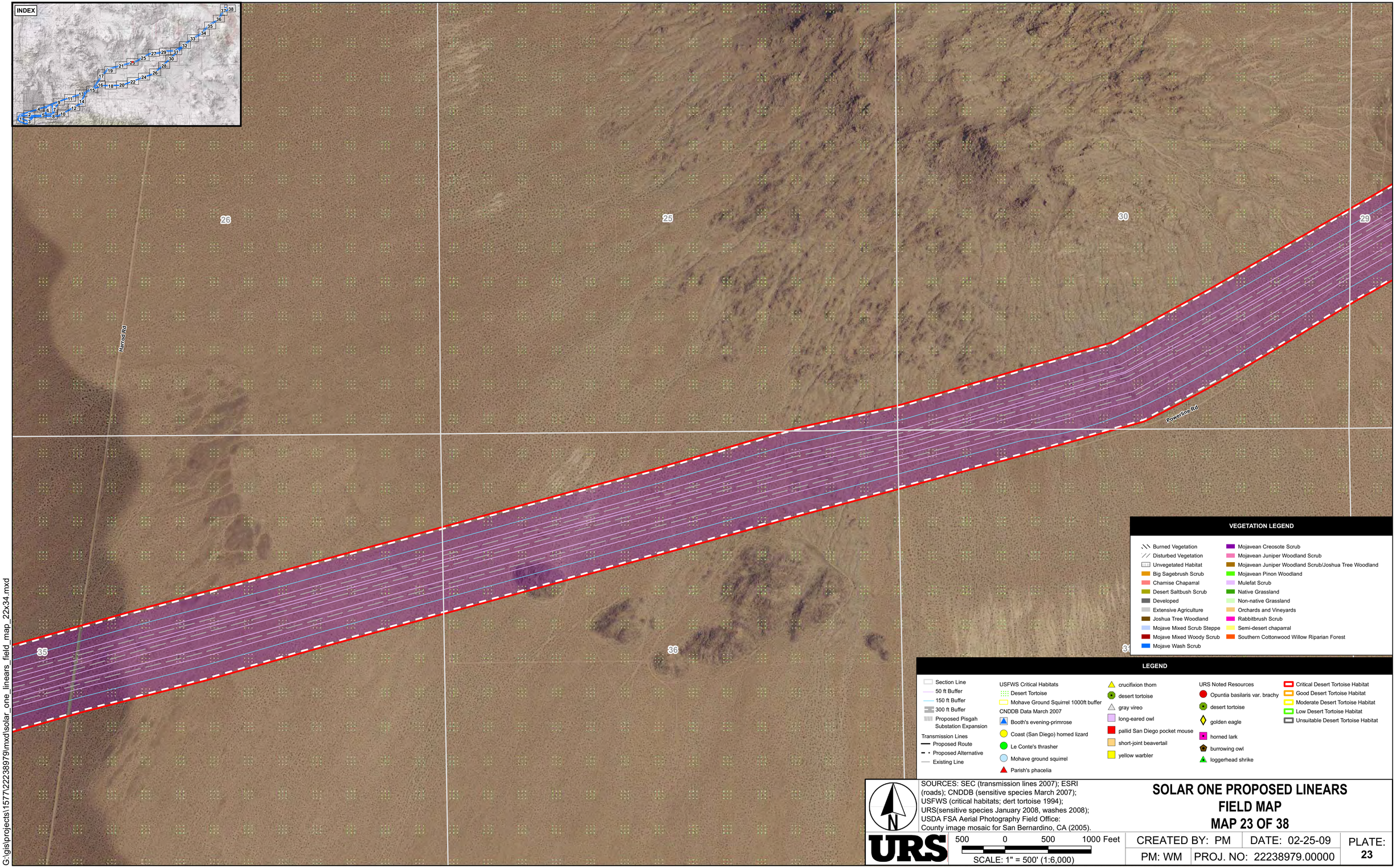
INDEX
26
25
30
29
35
36
Harrod Rd
Powerline Rd
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
Coast (San Diego) horned lizard
Le Conte's thrasher
Mohave ground squirrel
Parish's phacelia
crucifixion thorn
desert tortoise
gray vireo
long-eared owl
pallid San Diego pocket mouse
short-joint beavertail
yellow warbler
URS Noted Resources
Opuntia basilaris var. brachy
desert tortoise
golden eagle
horned lark
burrowing owl
loggerhead shrike
Critical Desert Tortoise Habitat
Good Desert Tortoise Habitat
Moderate Desert Tortoise Habitat
Low Desert Tortoise Habitat
Unsuitable Desert Tortoise Habitat
N
SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 23 OF 38
CREATED BY: PM
DATE: 02-25-09
PLATE: 23
PM: WM
PROJ. NO: 22238979.00000
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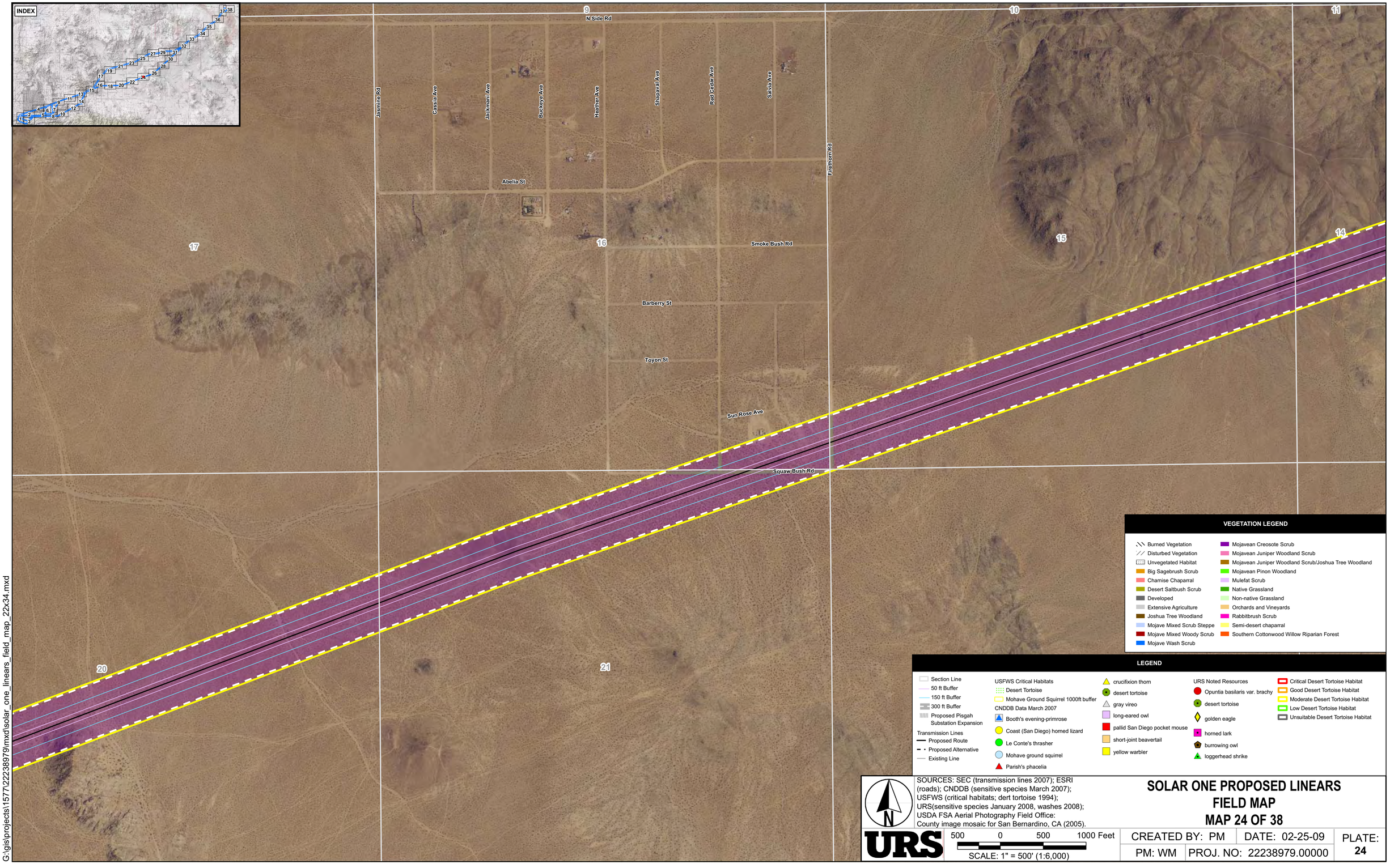
INDEX
9
10
11
N Side Rd
Jasmine Rd
Cassia Ave
Jackman Ave
Buckeye Ave
Heather Ave
Sharpavel Ave
Red Cedar Ave
Salvia Ave
Firethorn Rd
Abella St
16
17
15
14
Smoke Bush Rd
Barberry St
Toyon St
Sun Rose Ave
Squaw Bush Rd
20
21
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
Coast (San Diego) horned lizard
Le Conte's thrasher
Mohave ground squirrel
Parish's phacelia
crucifixion thorn
desert tortoise
gray vireo
long-eared owl
pallid San Diego pocket mouse
short-joint beavertail
yellow warbler
URS Noted Resources
Opuntia basilaris var. brachy
desert tortoise
golden eagle
horned lark
burrowing owl
loggerhead shrike
Critical Desert Tortoise Habitat
Good Desert Tortoise Habitat
Moderate Desert Tortoise Habitat
Low Desert Tortoise Habitat
Unsuitable Desert Tortoise Habitat
N
SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 24 OF 38
CREATED BY: PM
DATE: 02-25-09
PLATE: 24
PM: WM
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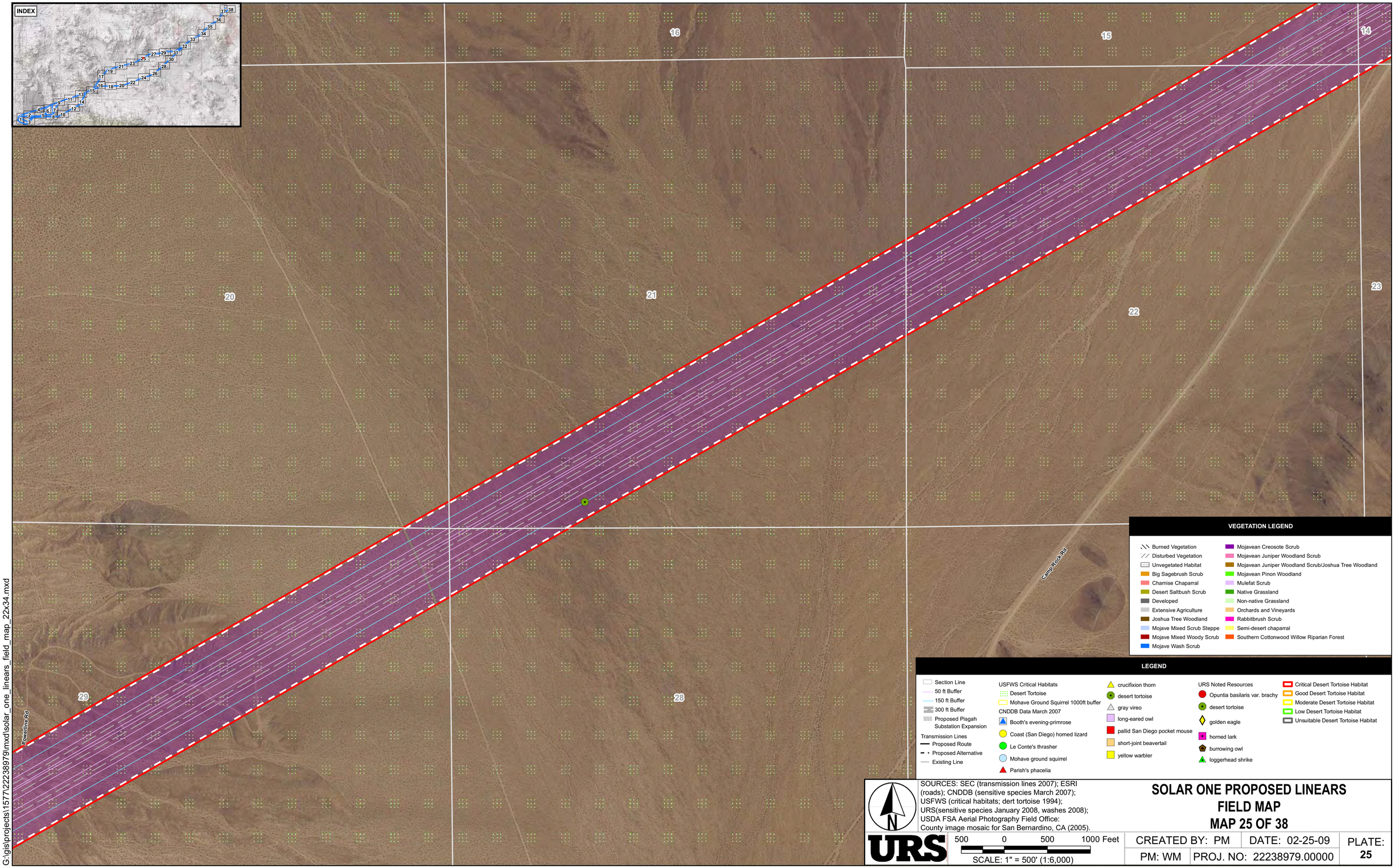

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 25 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 25
PM: WM	PROJ. NO: 22238979.00000	

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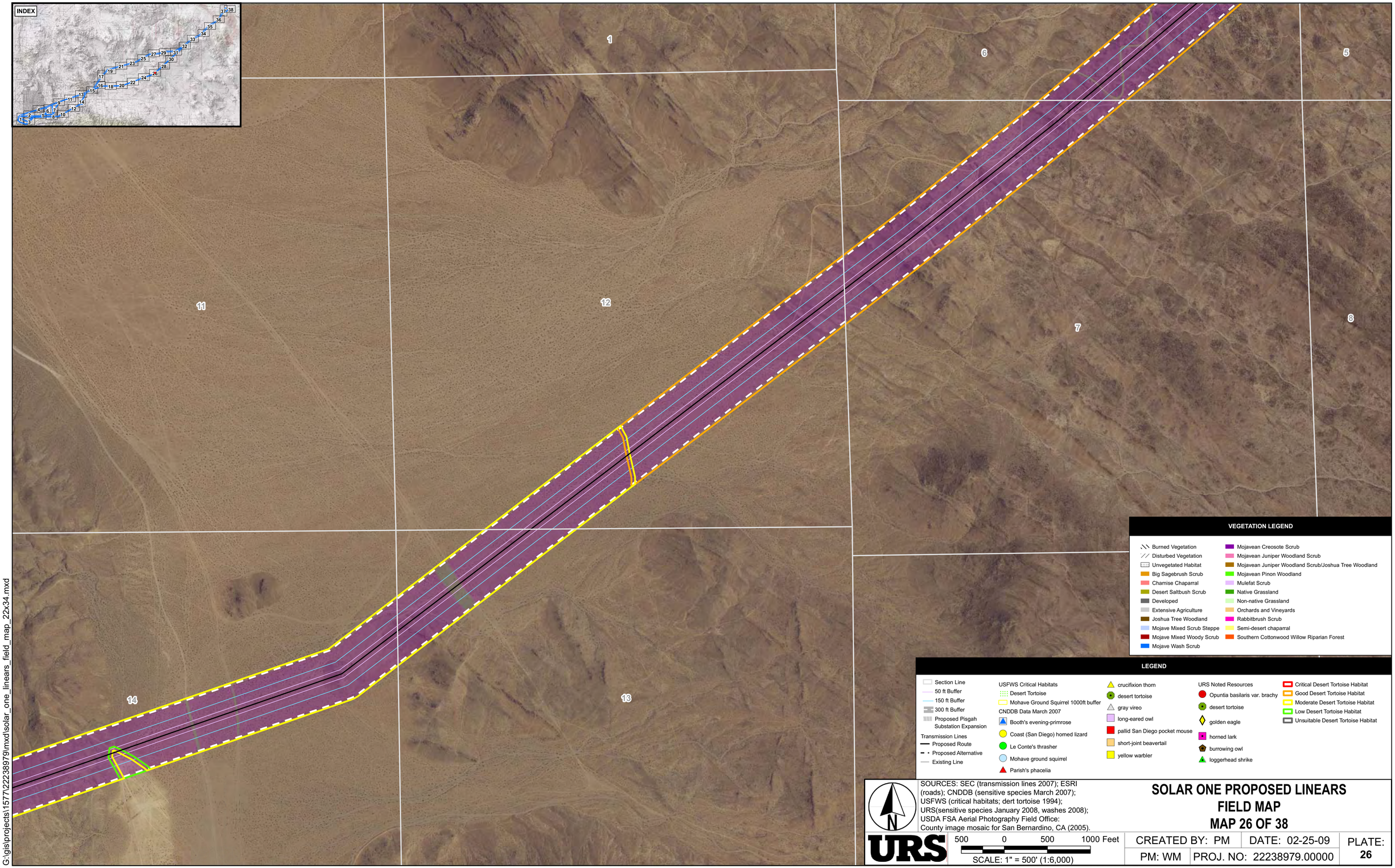

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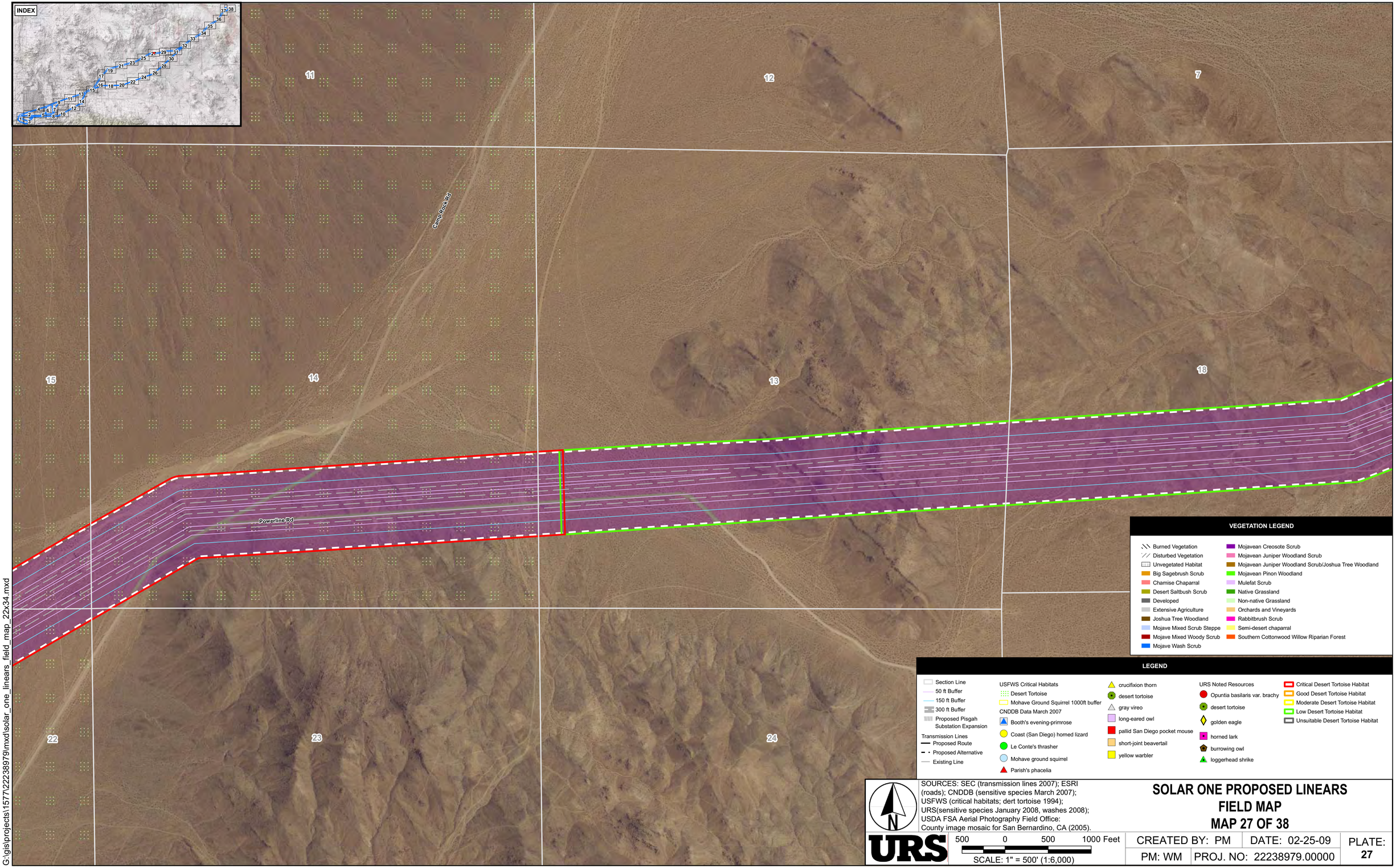
INDEX
11
12
7
15
14
13
18
22
23
24
Camp Rock Rd
Powerline Rd
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
Coast (San Diego) horned lizard
Le Conte's thrasher
Mohave ground squirrel
Parish's phacelia
crucifixion thorn
desert tortoise
gray vireo
long-eared owl
pallid San Diego pocket mouse
short-joint beavertail
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URS Noted Resources
Opuntia basilaris var. brachy
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golden eagle
horned lark
burrowing owl
loggerhead shrike
Critical Desert Tortoise Habitat
Good Desert Tortoise Habitat
Moderate Desert Tortoise Habitat
Low Desert Tortoise Habitat
Unsuitable Desert Tortoise Habitat
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SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
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SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 27 OF 38
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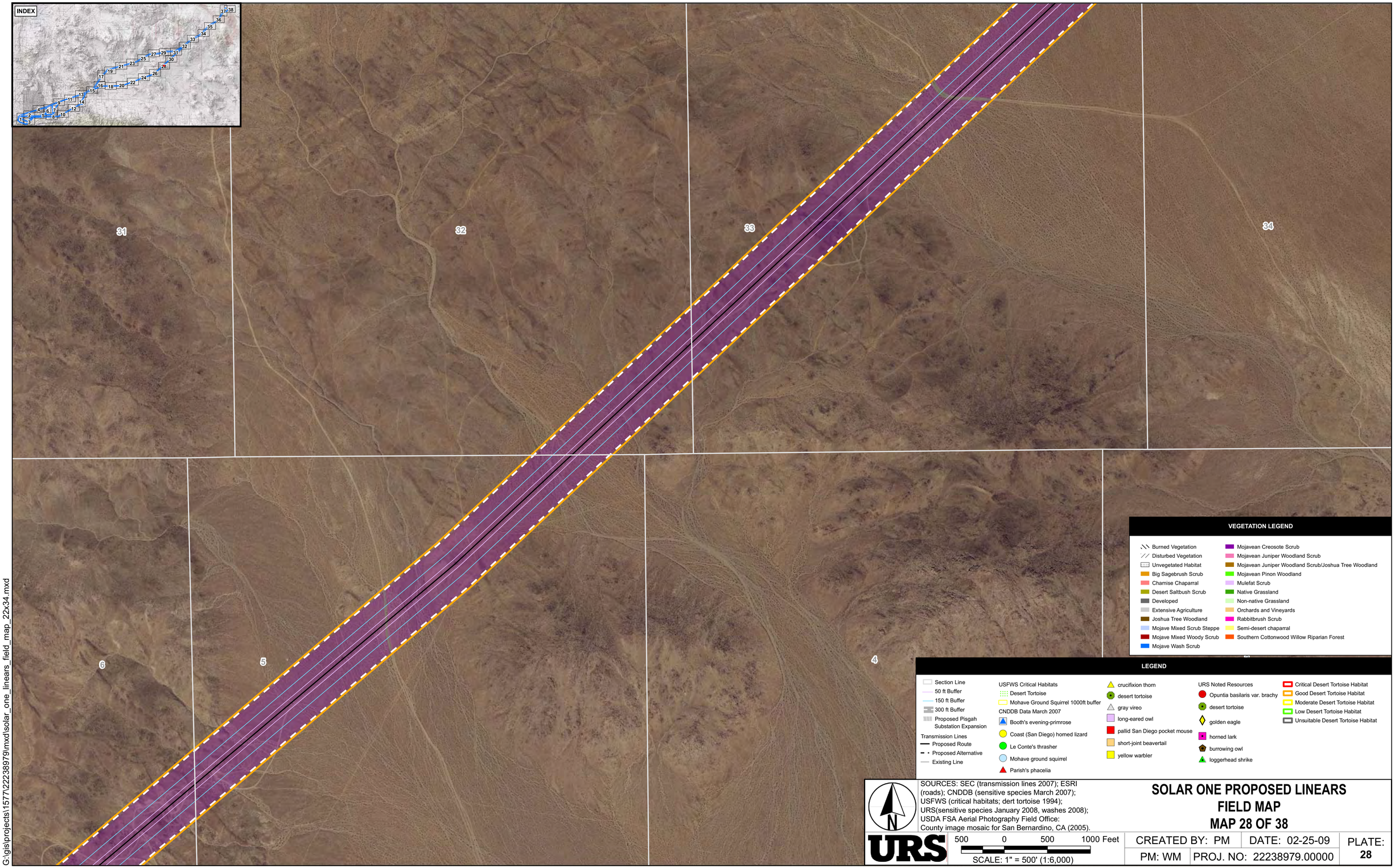

VEGETATION LEGEND

- Burned Vegetation
- Disturbed Vegetation
- Unvegetated Habitat
- Big Sagebrush Scrub
- Chamise Chaparral
- Desert Saltbush Scrub
- Developed
- Extensive Agriculture
- Joshua Tree Woodland
- Mojave Mixed Scrub Steppe
- Mojave Mixed Woody Scrub
- Mojave Wash Scrub
- Mojavean Creosote Scrub
- Mojavean Juniper Woodland Scrub
- Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
- Mojavean Pinon Woodland
- Mulefat Scrub
- Native Grassland
- Non-native Grassland
- Orchards and Vineyards
- Rabbitbrush Scrub
- Semi-desert chaparral
- Southern Cottonwood Willow Riparian Forest

LEGEND

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- 300 ft Buffer
- Proposed Pisgah Substation Expansion

Transmission Lines
- Proposed Route
- Proposed Alternative
- Existing Line

USFWS Critical Habitats
- Desert Tortoise
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- Booth's evening-primrose
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- Le Conte's thrasher
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SOLAR ONE PROPOSED LINEARS FIELD MAP
MAP 28 OF 38

URS

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SCALE: 1" = 500' (1:6,000)

CREATED BY: PM	DATE: 02-25-09	PLATE:
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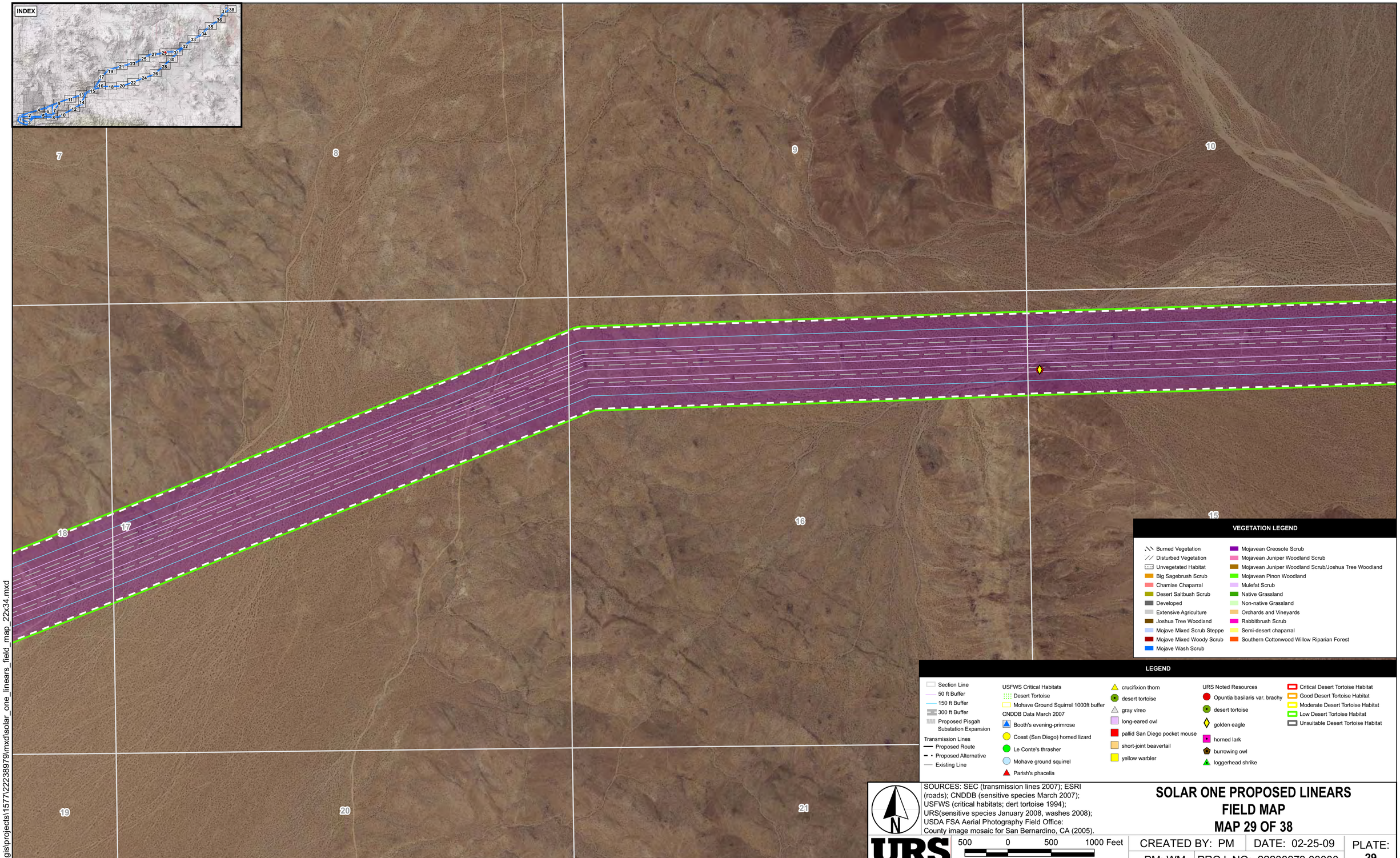
INDEX
7
8
9
10
13
17
16
15
19
20
21
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
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Mulefat Scrub
Native Grassland
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Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
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Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
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MAP 29 OF 38
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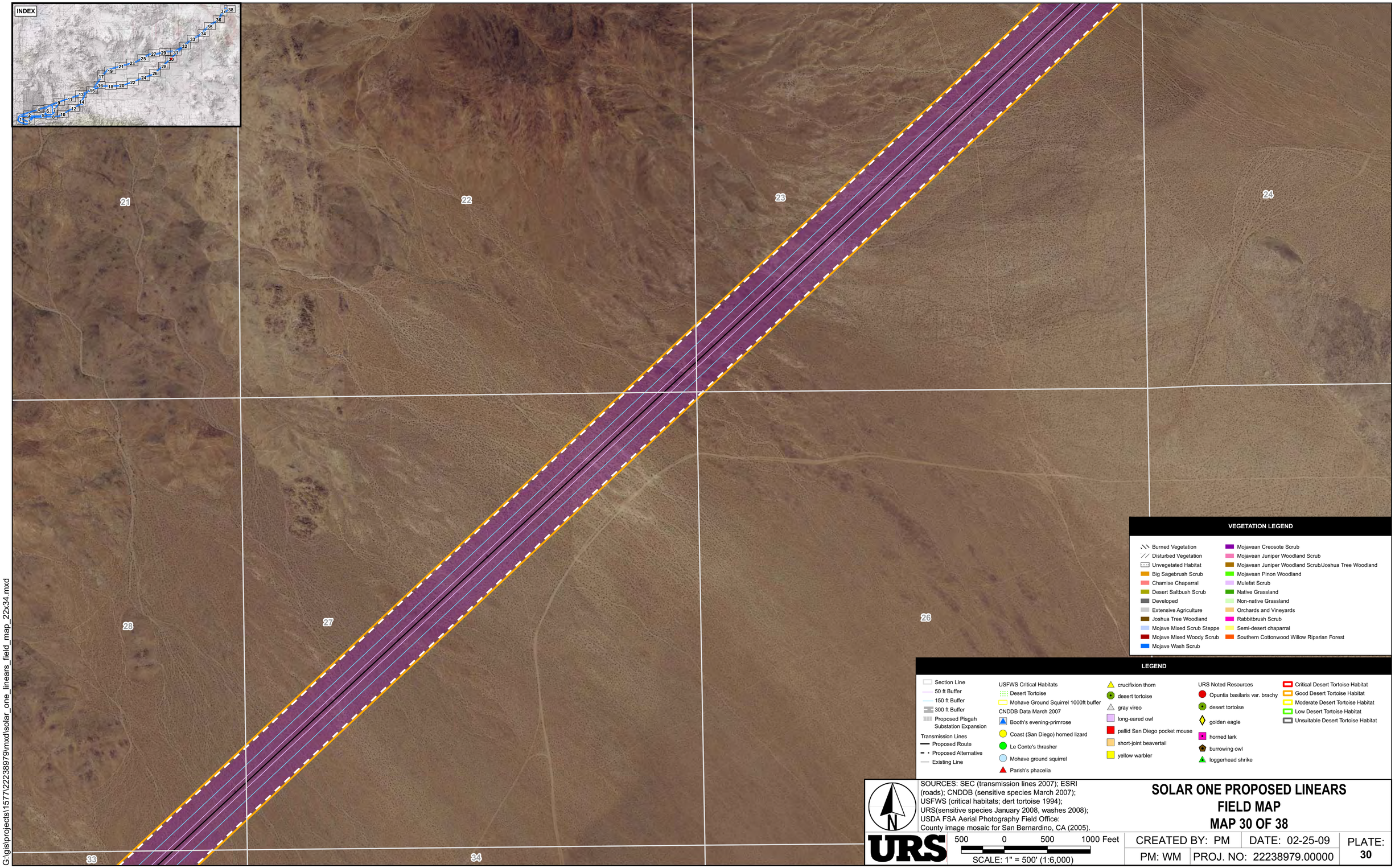

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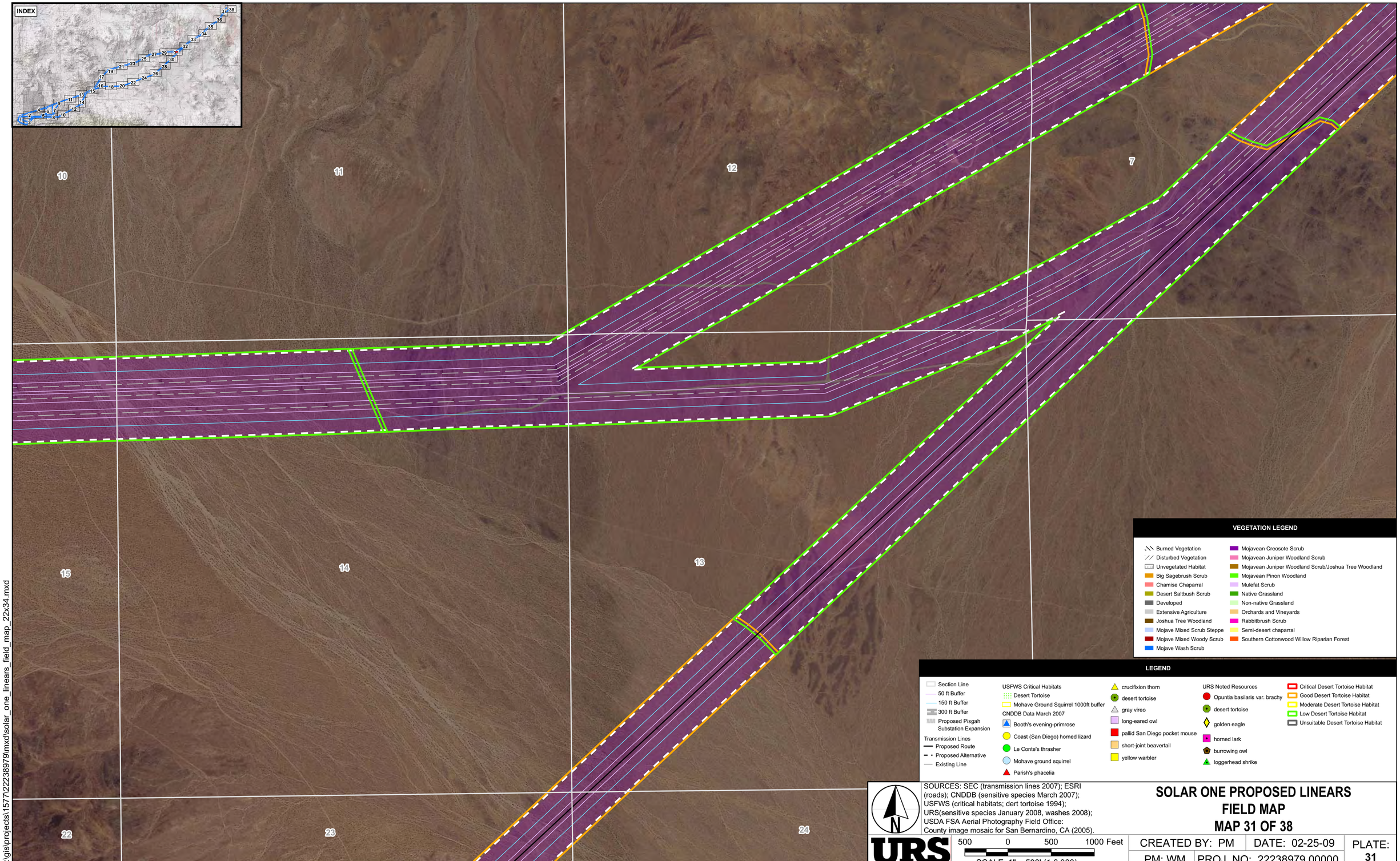

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SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 31 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 31
PM: WM	PROJ. NO: 22238979.00000	

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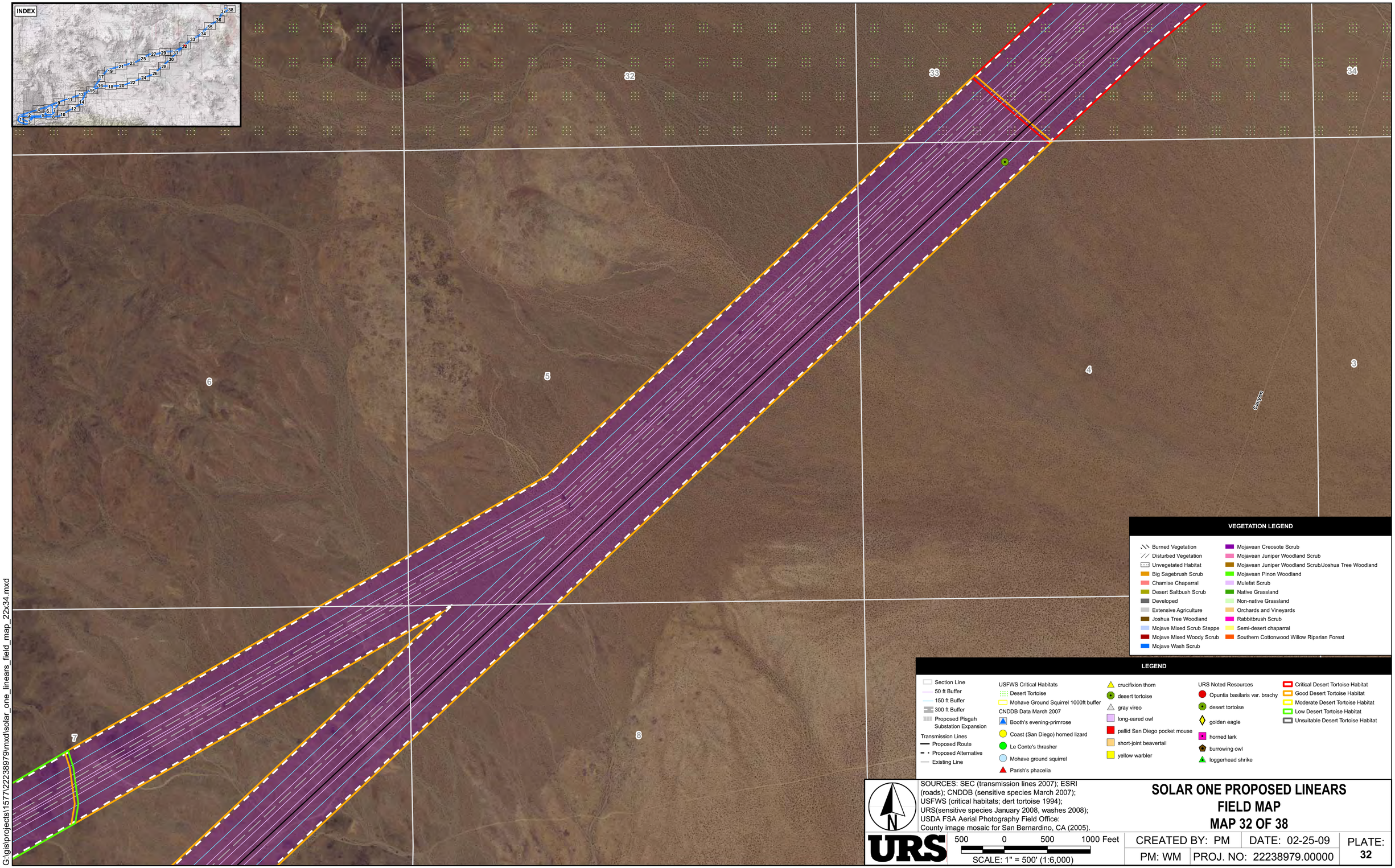

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SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 32 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 32
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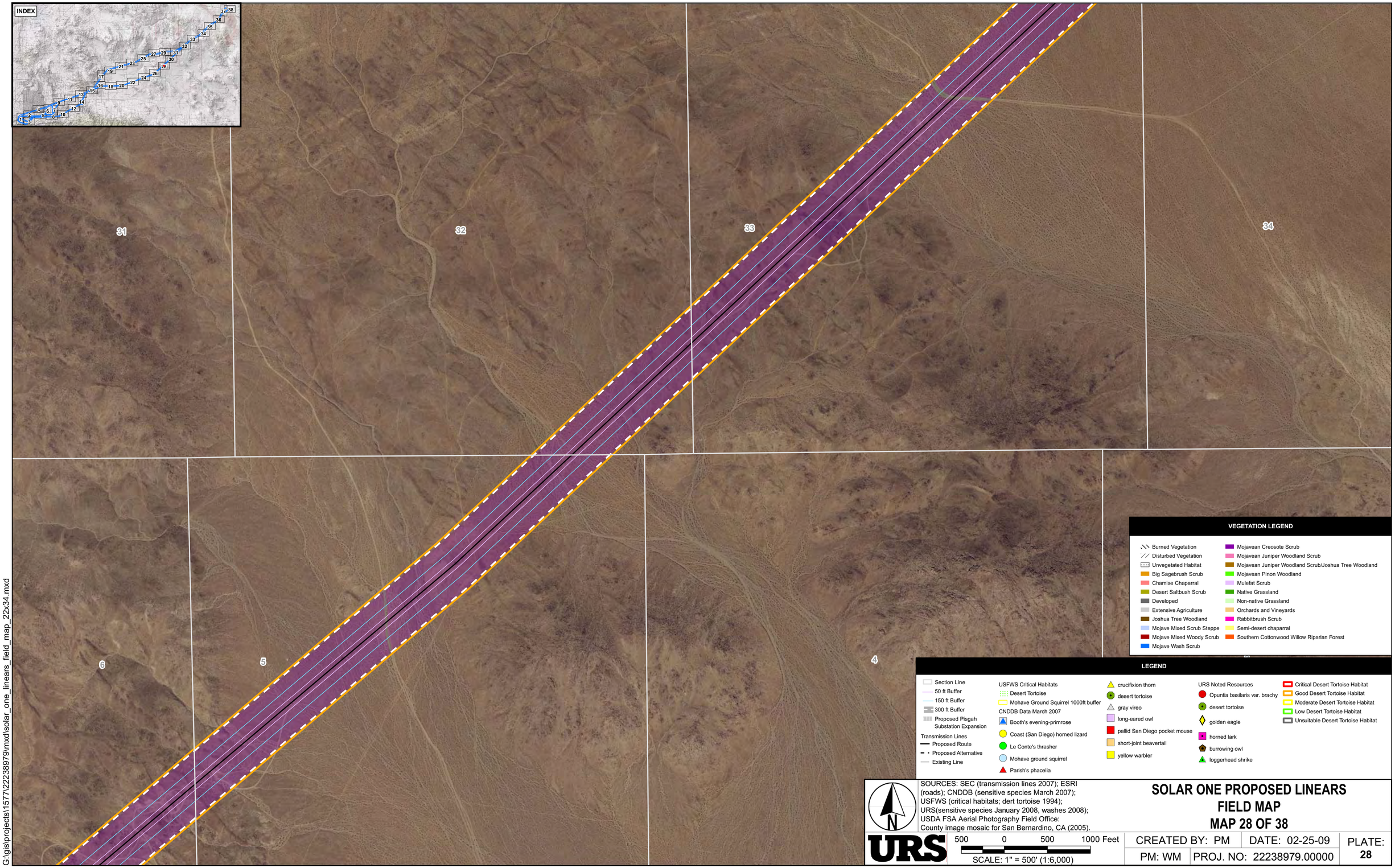

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- Rabbitbrush Scrub
- Semi-desert chaparral
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LEGEND

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- 50 ft Buffer
- 150 ft Buffer
- 300 ft Buffer
- Proposed Pisgah Substation Expansion

Transmission Lines
- Proposed Route
- Proposed Alternative
- Existing Line

USFWS Critical Habitats
- Desert Tortoise
- Mohave Ground Squirrel 1000ft buffer

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- Booth's evening-primrose
- Coast (San Diego) horned lizard
- Le Conte's thrasher
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- yellow warbler

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SOLAR ONE PROPOSED LINEARS FIELD MAP
MAP 28 OF 38

URS

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SCALE: 1" = 500' (1:6,000)

CREATED BY: PM	DATE: 02-25-09	PLATE:
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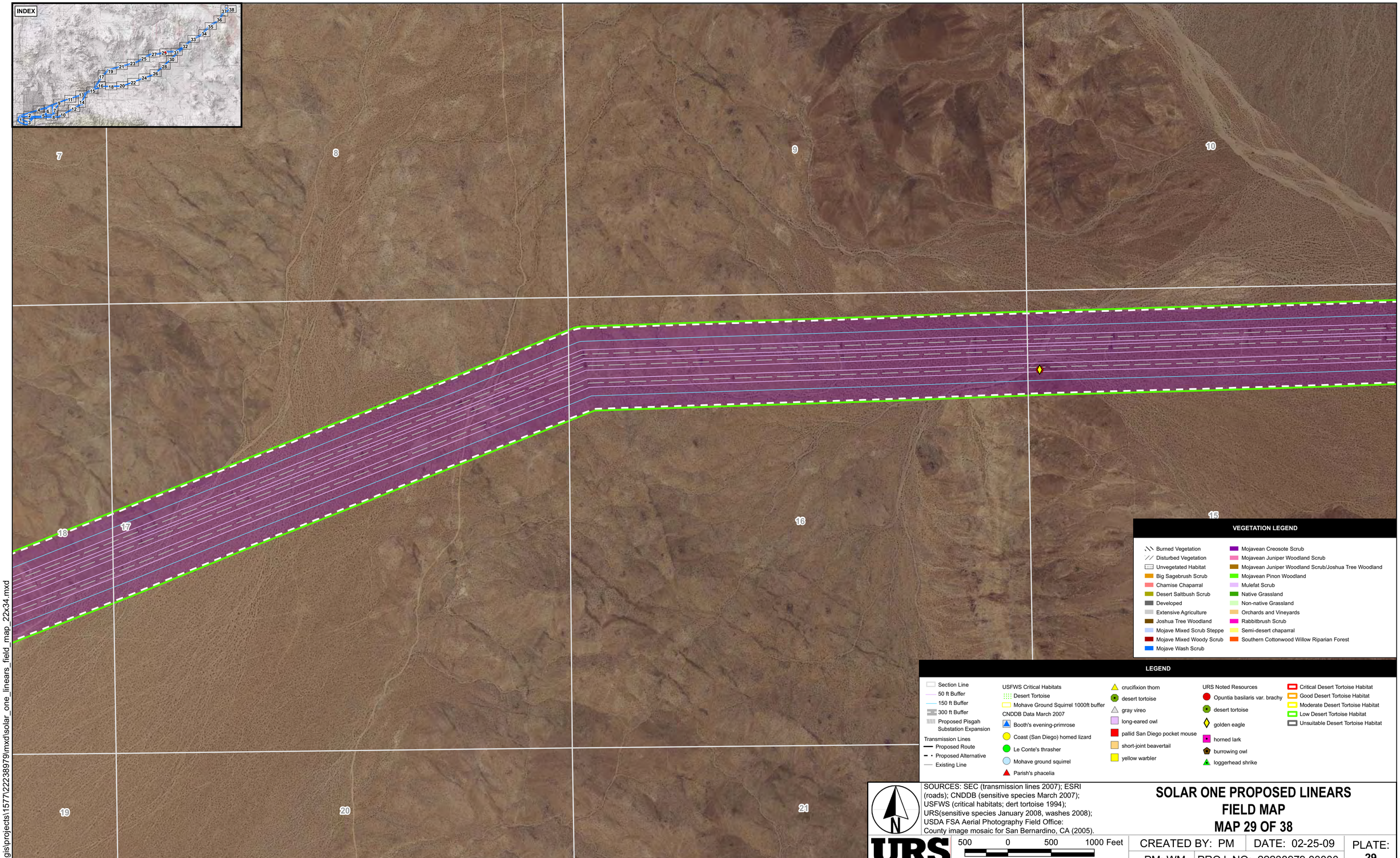
INDEX
7
8
9
10
13
17
16
15
19
20
21
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
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Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
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SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 29 OF 38
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DATE: 02-25-09
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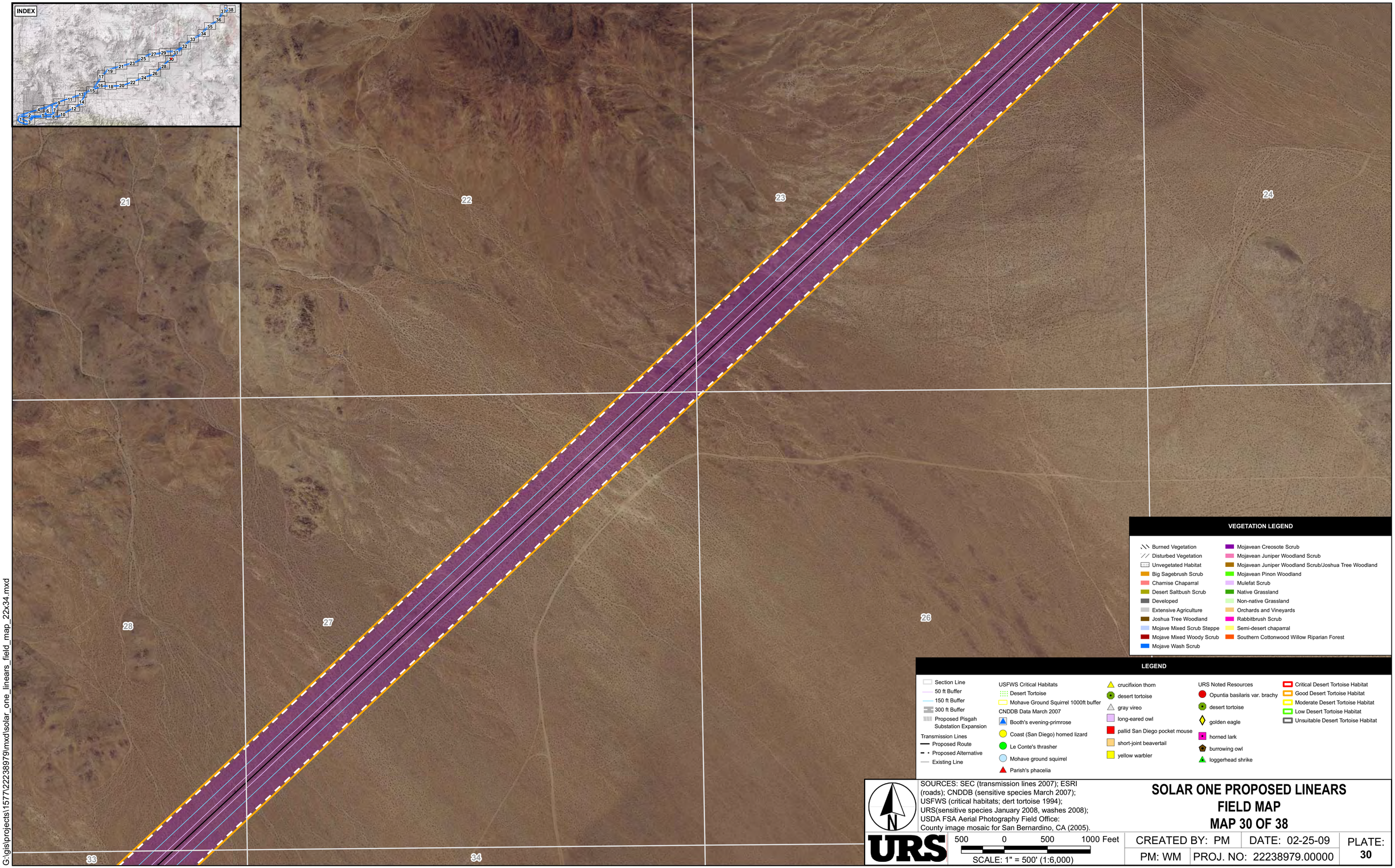

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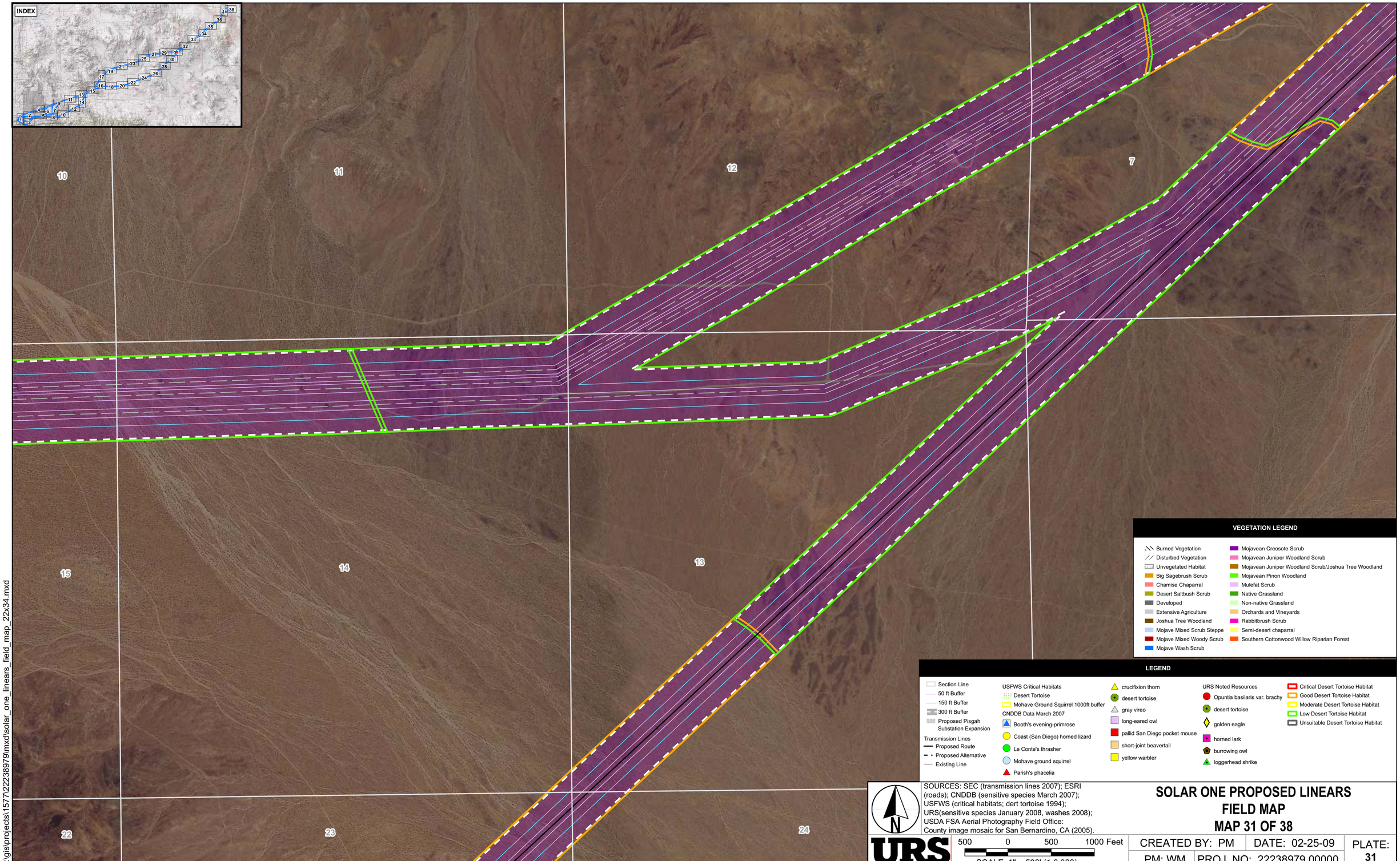

VEGETATION LEGEND

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- Disturbed Vegetation
- Unvegetated Habitat
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LEGEND

- Section Line
- 50 ft Buffer
- 150 ft Buffer
- 300 ft Buffer
- Proposed Pisgah Substation Expansion

Transmission Lines
- Proposed Route
- Proposed Alternative
- Existing Line

USFWS Critical Habitats
- Desert Tortoise
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CNDDB Data March 2007
- Booth's evening-primrose
- Coast (San Diego) horned lizard
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SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 31 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 31
PM: WM	PROJ. NO: 22238979.00000	

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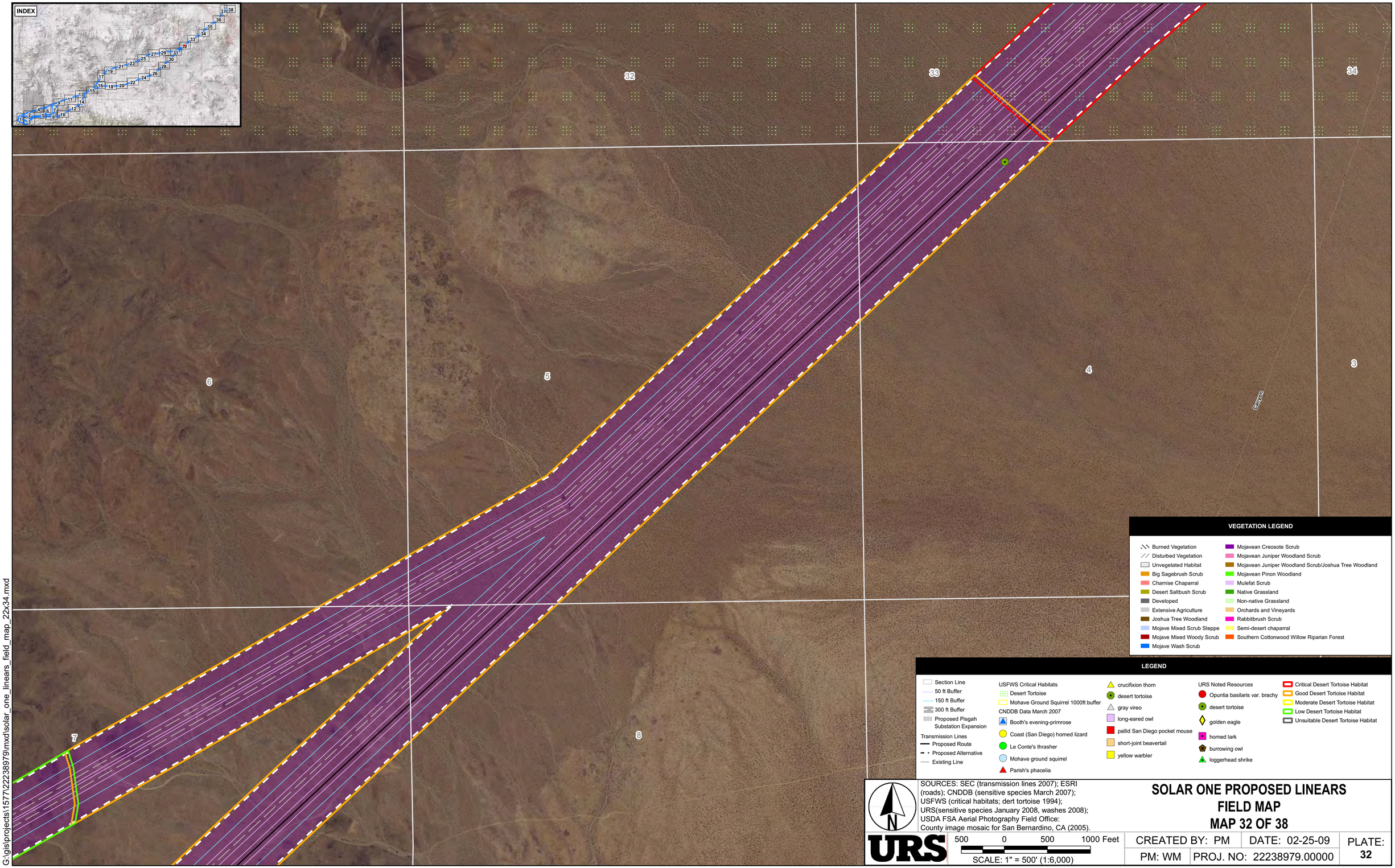

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SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 32 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 32
PM: WM	PROJ. NO: 22238979.00000	

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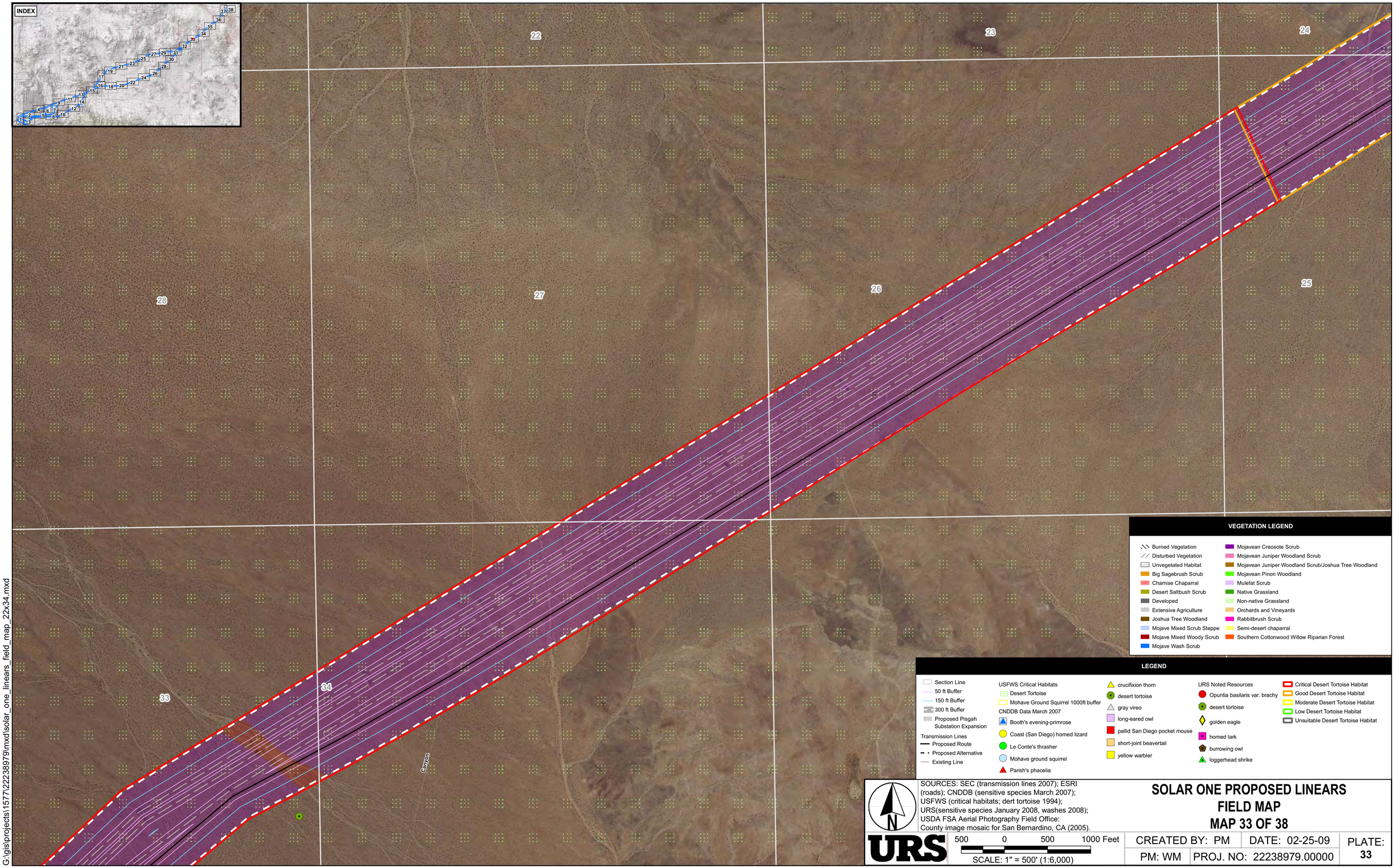

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SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 33 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 33
PM: WM	PROJ. NO: 22238979.00000	

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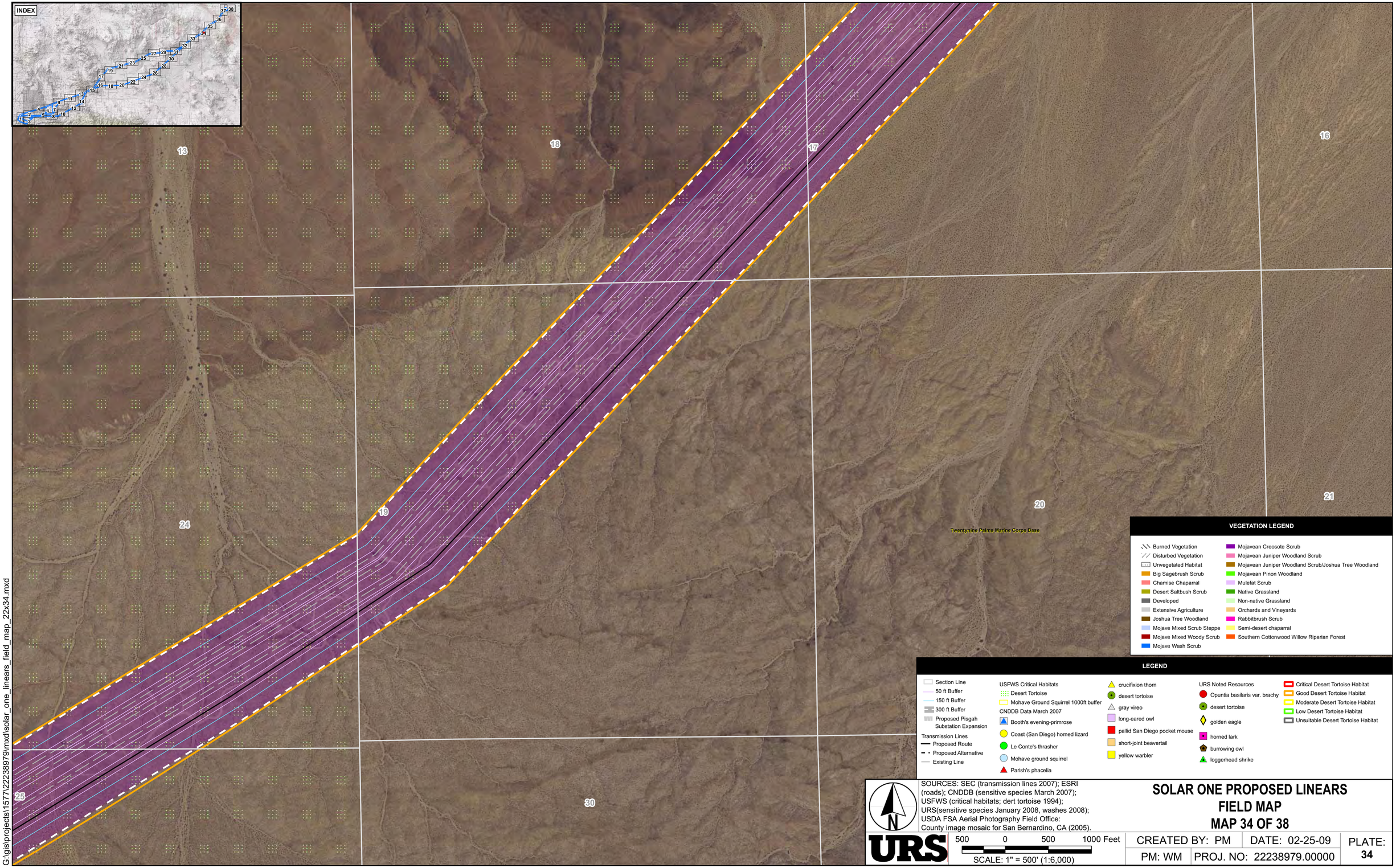

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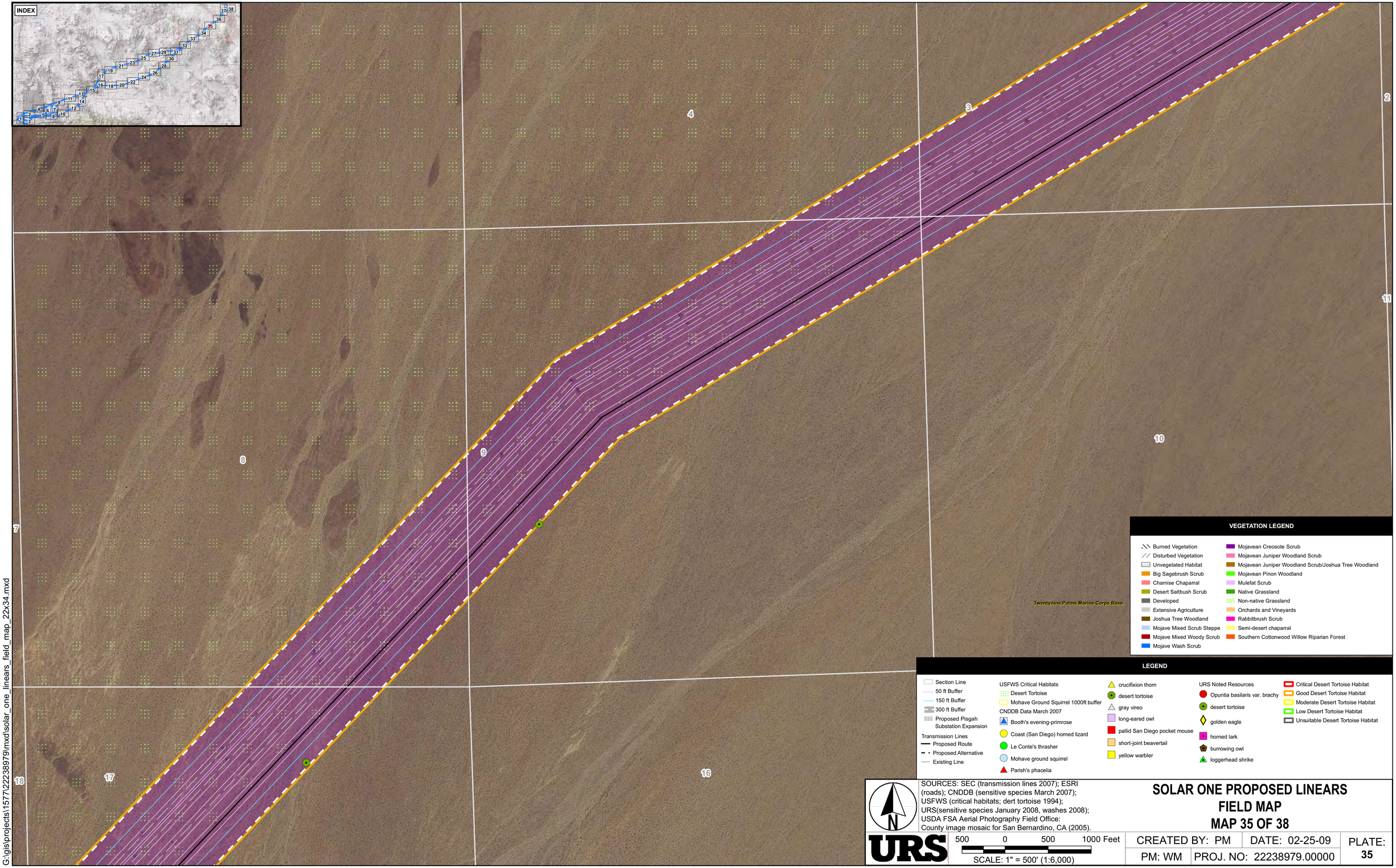

VEGETATION LEGEND

- Burned Vegetation
- Disturbed Vegetation
- Unvegetated Habitat
- Big Sagebrush Scrub
- Chamise Chaparral
- Desert Saltbush Scrub
- Developed
- Extensive Agriculture
- Joshua Tree Woodland
- Mojave Mixed Scrub Steppe
- Mojave Mixed Woody Scrub
- Mojave Wash Scrub
- Mojavean Creosote Scrub
- Mojavean Juniper Woodland Scrub
- Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
- Mojavean Pinon Woodland
- Mulefat Scrub
- Native Grassland
- Non-native Grassland
- Orchards and Vineyards
- Rabbitbrush Scrub
- Semi-desert chaparral
- Southern Cottonwood Willow Riparian Forest

LEGEND

- Section Line
- 50 ft Buffer
- 150 ft Buffer
- 300 ft Buffer
- Proposed Pisgah Substation Expansion

Transmission Lines
- Proposed Route
- Proposed Alternative
- Existing Line

USFWS Critical Habitats
- Desert Tortoise
- Mohave Ground Squirrel 1000ft buffer

CNDDB Data March 2007
- Booth's evening-primrose
- Coast (San Diego) horned lizard
- Le Conte's thrasher
- Mohave ground squirrel
- Parish's phacelia
- crucifixion thorn
- desert tortoise
- gray vireo
- long-eared owl
- pallid San Diego pocket mouse
- short-joint beavertail
- yellow warbler

URS Noted Resources
- Opuntia basilaris var. brachy
- desert tortoise
- golden eagle
- horned lark
- burrowing owl
- loggerhead shrike
- Critical Desert Tortoise Habitat
- Good Desert Tortoise Habitat
- Moderate Desert Tortoise Habitat
- Low Desert Tortoise Habitat
- Unsuitable Desert Tortoise Habitat

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

N

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP

MAP 35 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 35
PM: WM	PROJ. NO: 22238979.00000	

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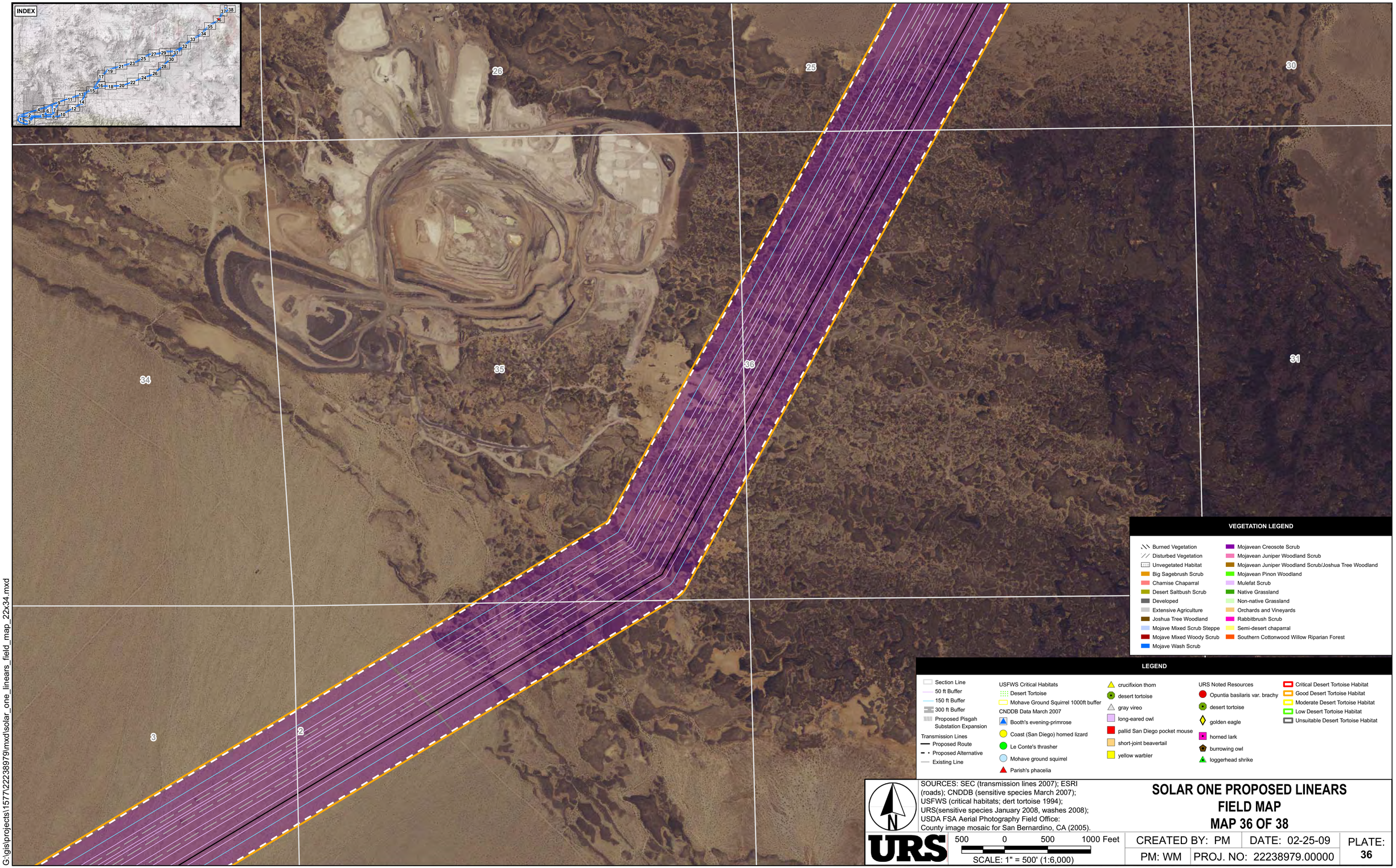

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 36 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 36
PM: WM	PROJ. NO: 22238979.00000	

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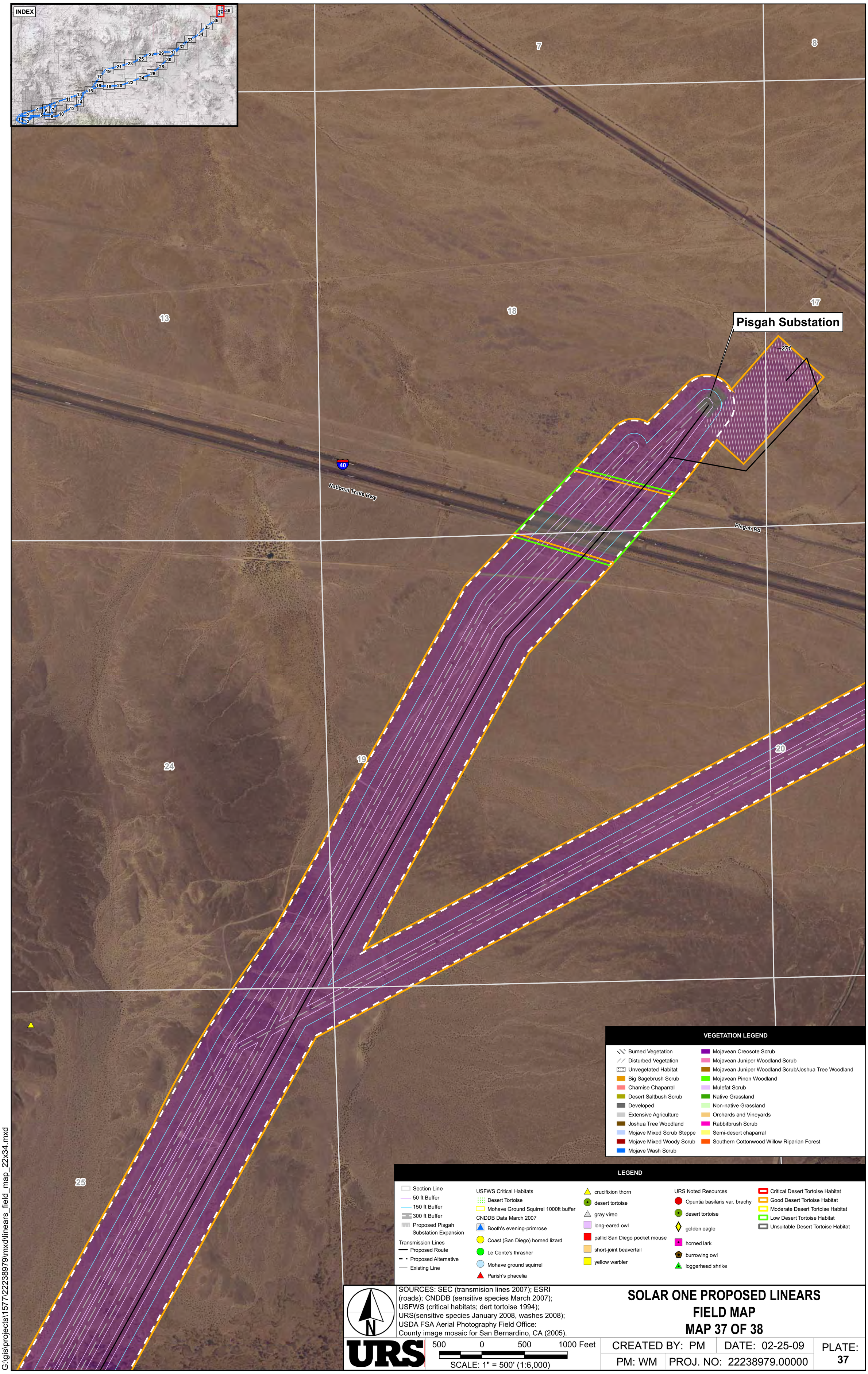
INDEX
7
8
13
18
17
Pisgah Substation
271
40
National Trails Hwy
Pisgah Rd
24
19
20
25
VEGETATION LEGEND
Burned Vegetation
Disturbed Vegetation
Unvegetated Habitat
Big Sagebrush Scrub
Chamise Chaparral
Desert Saltbush Scrub
Developed
Extensive Agriculture
Joshua Tree Woodland
Mojave Mixed Scrub Steppe
Mojave Mixed Woody Scrub
Mojave Wash Scrub
Mojavean Creosote Scrub
Mojavean Juniper Woodland Scrub
Mojavean Juniper Woodland Scrub/Joshua Tree Woodland
Mojavean Pinon Woodland
Mulefat Scrub
Native Grassland
Non-native Grassland
Orchards and Vineyards
Rabbitbrush Scrub
Semi-desert chaparral
Southern Cottonwood Willow Riparian Forest
LEGEND
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
USFWS Critical Habitats
Desert Tortoise
Mohave Ground Squirrel 1000ft buffer
CNDDB Data March 2007
Booth's evening-primrose
Coast (San Diego) horned lizard
Le Conte's thrasher
Mohave ground squirrel
Parish's phacelia
crucifixion thorn
desert tortoise
gray vireo
long-eared owl
pallid San Diego pocket mouse
short-joint beavertail
yellow warbler
URS Noted Resources
Opuntia basilaris var. brachy
desert tortoise
golden eagle
horned lark
burrowing owl
loggerhead shrike
Critical Desert Tortoise Habitat
Good Desert Tortoise Habitat
Moderate Desert Tortoise Habitat
Low Desert Tortoise Habitat
Unsuitable Desert Tortoise Habitat
N
SOURCES: SEC (transmision lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
500 0 500 1000 Feet
SCALE: 1" = 500' (1:6,000)
SOLAR ONE PROPOSED LINEARS
FIELD MAP
MAP 37 OF 38
CREATED BY: PM
DATE: 02-25-09
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PROJ. NO: 22238979.00000
PLATE: 37
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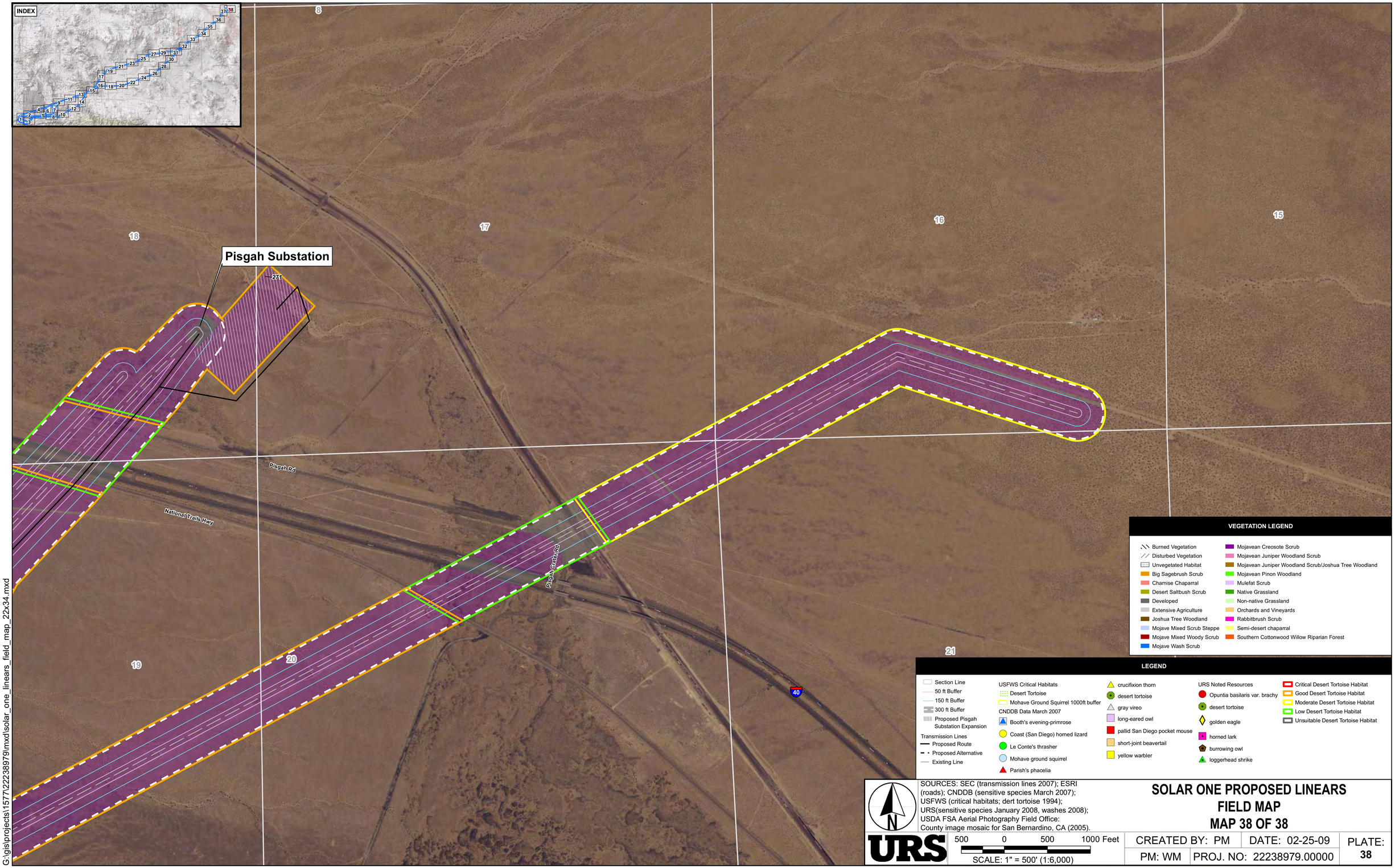

SOURCES: SEC (transmission lines 2007); ESRI (roads); CNDDB (sensitive species March 2007); USFWS (critical habitats; dert tortoise 1994); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

N

URS

500 0 500 1000 Feet

SCALE: 1" = 500' (1:6,000)

SOLAR ONE PROPOSED LINEARS FIELD MAP MAP 38 OF 38

CREATED BY: PM	DATE: 02-25-09	PLATE: 38
PM: WM	PROJ. NO: 22238979.00000	

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LEGEND

- Vegetated Waters of the U.S. within OHWM (Federal & State Jurisdictional)
- Unvegetated Waters of the U.S. within OHWM (Federal & State Jurisdictional)
- Waters of the State within OHWM (State Jurisdictional only)
- Non-Jurisdictional Drainage Features (No OHWM, such as swales)
- Section Line
- 50 ft Buffer
- 150 ft Buffer
- 300 ft Buffer
- Proposed Pisgah Substation Expansion

Transmission Lines
- Proposed Route
- Proposed Alternative
- Existing Line

SOURCES: SEC (transmission lines 2007); ESRI (roads); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS
JURISDICTIONAL WATERS SURVEY RESULTS
MAP 1 OF 6

URS

2000 0 2000 4000 Feet

SCALE: 1" = 2000' (1:24,000)

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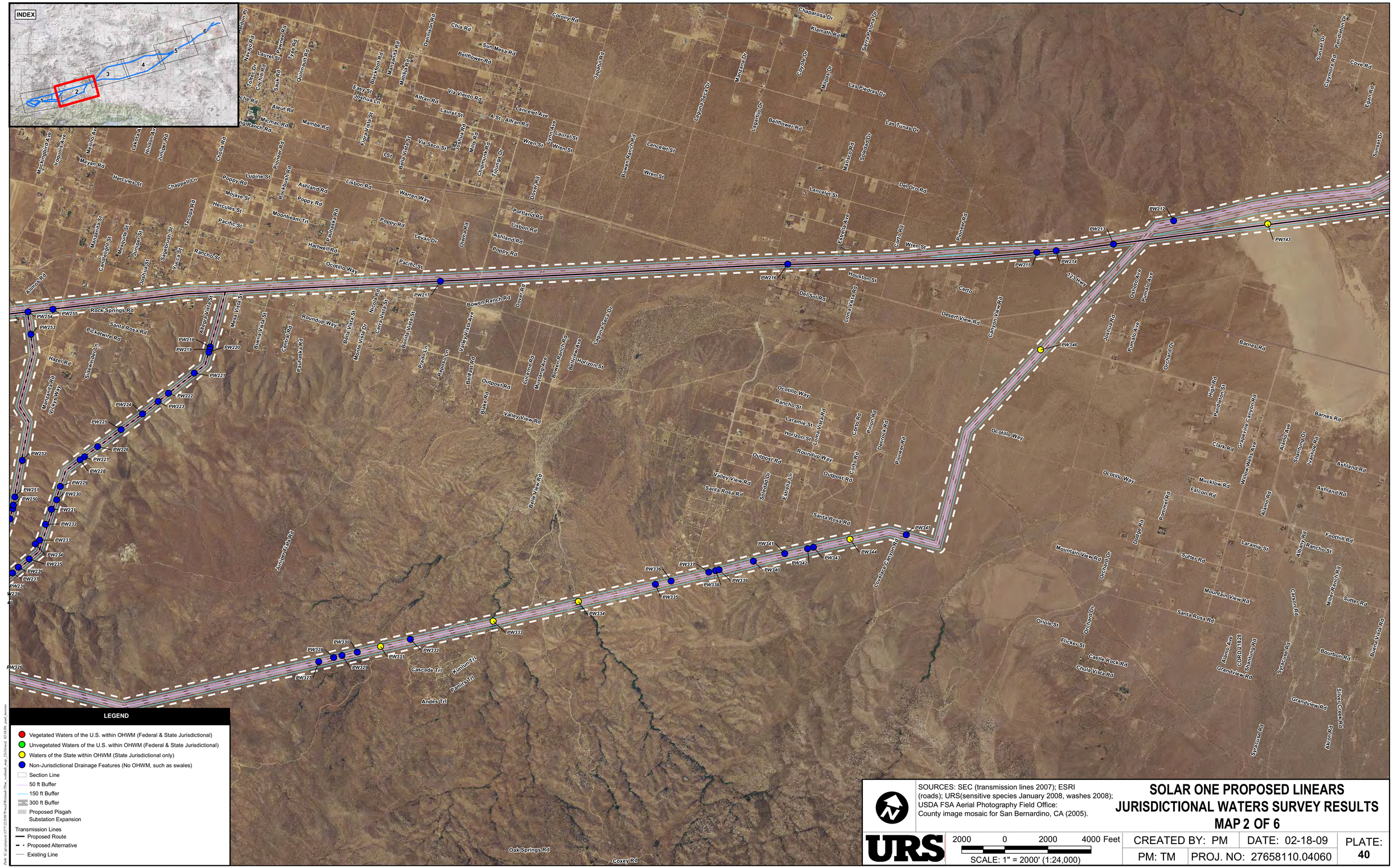

SOURCES: SEC (transmission lines 2007); ESRI (roads); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS
JURISDICTIONAL WATERS SURVEY RESULTS
MAP 2 OF 6

URS

2000 0 2000 4000 Feet

SCALE: 1" = 2000' (1:24,000)

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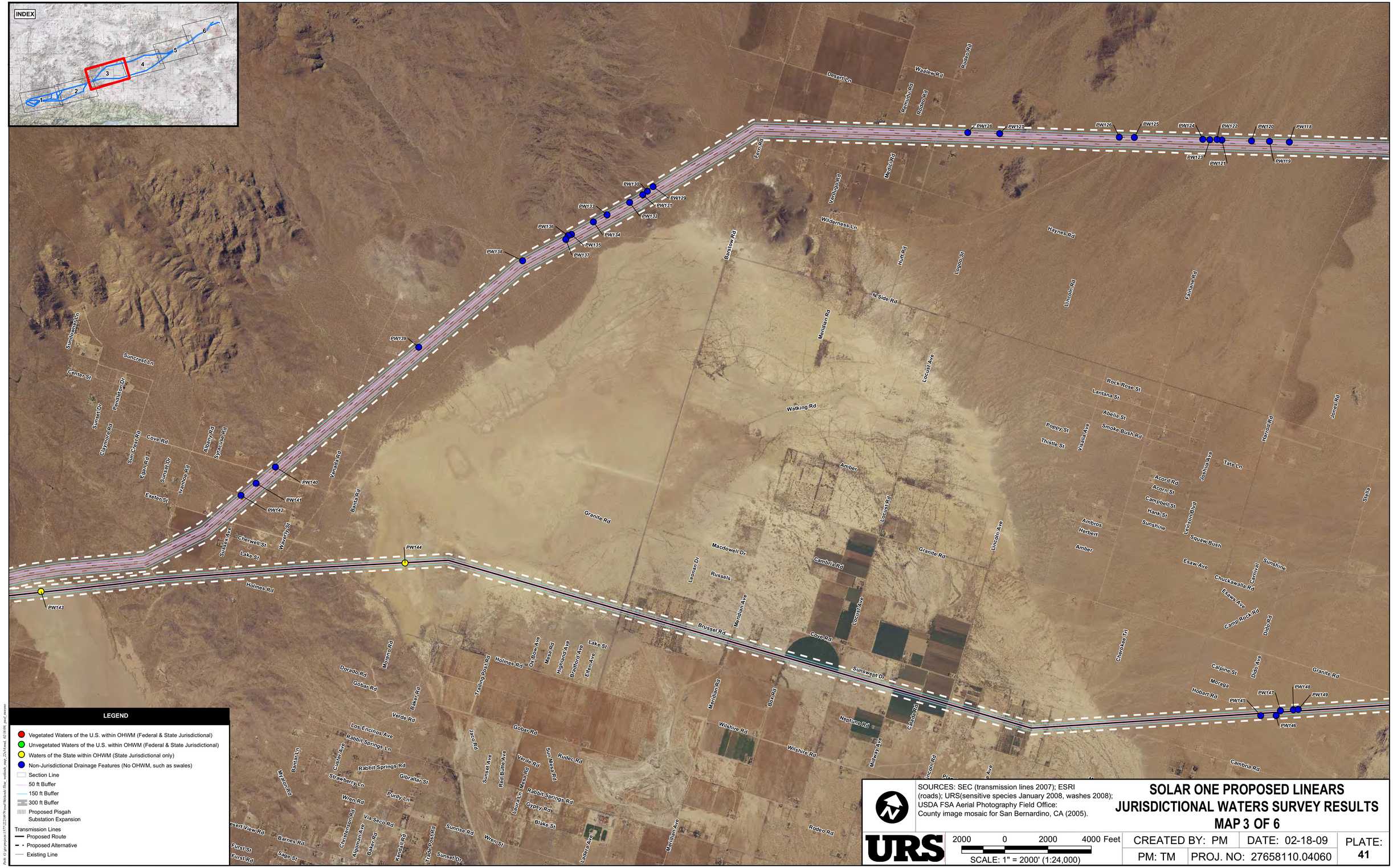
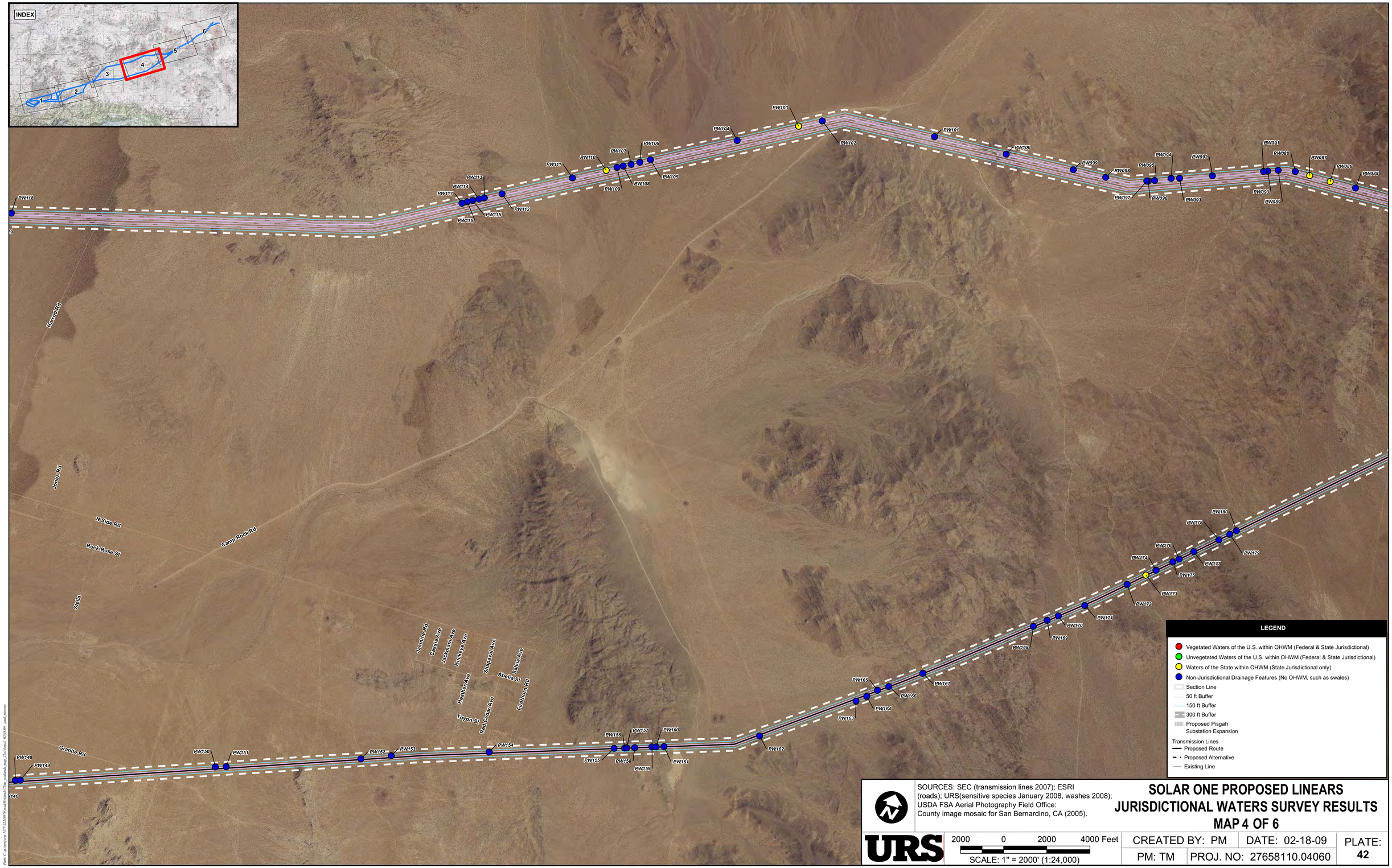

INDEX
1
2
3
4
5
6
PW118
PW119
PW120
PW121
PW122
PW123
PW124
PW125
PW126
PW127
PW128
PW129
PW130
PW131
PW132
PW133
PW134
PW135
PW136
PW137
PW138
PW139
PW140
PW141
PW142
PW143
PW144
PW145
PW146
PW147
PW148
PW149
Desert Ln
Waalew Rd
Rodeo Rd
Kenneth Rd
Rodeo Rd
Farm Rd
Medici Rd
Verdugo Rd
Wilderness Ln
Barstow Rd
Haynes Rd
Huff Rd
Legoo St
N Side Rd
Lincoln Rd
Fairfane Rd
Meridian Rd
Locust Ave
Rock Rose St
Lantana St
Abelia St
Smoke Bush Rd
Poppy St
Thistle St
Visalia Ave
Walking Rd
Jones Rd
Harrod Rd
Amber
Tate Ln
Acord Rd
Acorn St
Campbell St
Hank St
Sunshine
Joshua Ave
Levison Blvd
Squaw Bush
Ambros
Herbert
Amber
Granite Rd
Lincoln Ave
Locust Rd
Granite Rd
Macdowell Dr
Cambria Rd
Leonan Dr
Russels
Esaw Ave
Chuckawalla Rd
Carnival
Sunshine
Esaw Ave
Camp Rock Rd
Dido Rd
Brussel Rd
Meridian Ave
Locust Ave
Cove Rd
Cherokee Trl
Sunswept Dr
Calpine St
Dido Ave
Granite Rd
Moraga
Hobart Rd
Meridian Rd
Box Rd
Neptune Rd
Cambria Rd
Wilshire Rd
Wilshire Rd
Midway Ave
Lincoln Rd
Cambria Rd
Rodeo Rd
Meridian Ave
Sandowner Ln
Suncrest Ln
Center St
Pendleton Dr
Sunset Dr
Claymore Rd
Sun Crest Rd
Cove Rd
Albany Rd
Syracuse Rd
Espin Rd
Sunset Dr
Ivanhoe Rd
Exeter St
Venada Rd
Banta Rd
Strasser Ave
Cherwell St
Waverly St
Lake St
Holmes Rd
Granite Rd
Derado Rd
Morongo Rd
Gobar Rd
Baker Rd
Verde Rd
Los Encinos Ave
Rabbit Springs Ln
Rabbit Springs Rd
Banstar Ln
Chester Ave
Strawberry Ln
Gibraltar St
Myron Rd
Purdy Ln
Wren Rd
Via Seco Rd
Desert View Rd
Barnes Rd
Christenson Rd
Algoman Ave
Baker Rd
Furst St
Furst Rd
Sage St
Kendall Rd
Trails Post Rd
Sunset Dr
Sunrise Rd
Wren St
Jacob Rd
Sunset Ave
Red Butte Ave
Tarling Post Rd
Holmes Rd
Ox Bow Ave
Mesa Rd
Highland Ave
Bradford Ave
Elfin Ave
Lake St
Verde Rd
Sun Mesa Rd
Rudec Rd
Lazra Ln
Mesa Rd
Rabbit Springs Rd
Gypsy Rd
Blake St
Lazera Ave
Meridian Ave
Box Rd
Neptune Rd
Wilshire Rd
Midway Ave
Lincoln Rd
Cambria Rd
Rodeo Rd
LEGEND
Vegetated Waters of the U.S. within OHWM (Federal & State Jurisdictional)
Unvegetated Waters of the U.S. within OHWM (Federal & State Jurisdictional)
Waters of the State within OHWM (State Jurisdictional only)
Non-Jurisdictional Drainage Features (No OHWM, such as swales)
Section Line
50 ft Buffer
150 ft Buffer
300 ft Buffer
Proposed Pisgah Substation Expansion
Transmission Lines
Proposed Route
Proposed Alternative
Existing Line
SOURCES: SEC (transmission lines 2007); ESRI (roads); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).
URS
2000 0 2000 4000 Feet
SCALE: 1" = 2000' (1:24,000)
SOLAR ONE PROPOSED LINEARS
JURISDICTIONAL WATERS SURVEY RESULTS
MAP 3 OF 6
CREATED BY: PM
DATE: 02-18-09
PLATE: 41
PM: TM
PROJ. NO: 27658110.04060



SOURCES: SEC (transmission lines 2007); ESRI (roads); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS
JURISDICTIONAL WATERS SURVEY RESULTS
MAP 4 OF 6

URS

2000 0 2000 4000 Feet

SCALE: 1" = 2000' (1:24,000)

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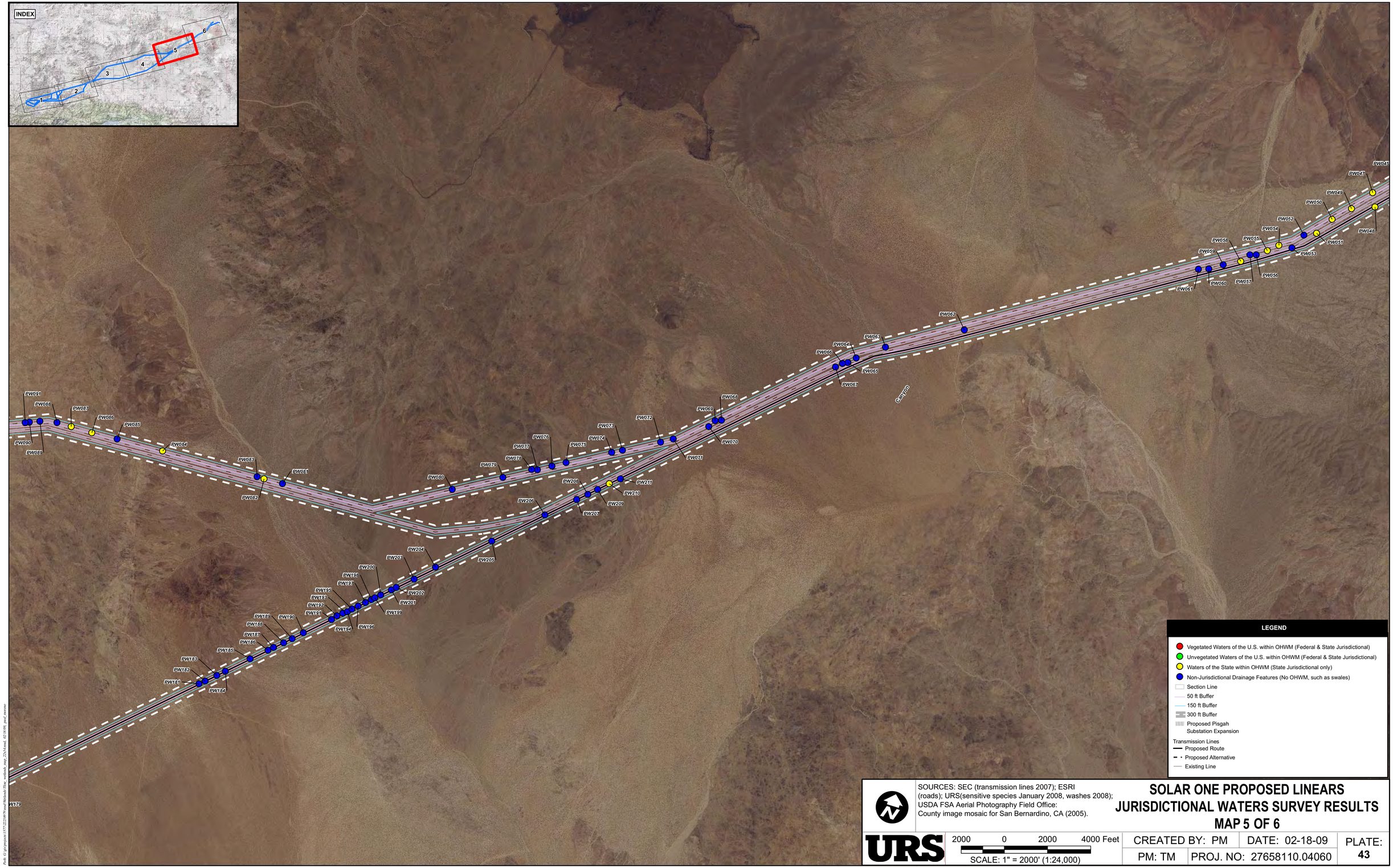

SOURCES: SEC (transmission lines 2007); ESRI (roads); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS
JURISDICTIONAL WATERS SURVEY RESULTS
MAP 5 OF 6

URS

2000 0 2000 4000 Feet

SCALE: 1" = 2000' (1:24,000)

CREATED BY: PM	DATE: 02-18-09	PLATE:
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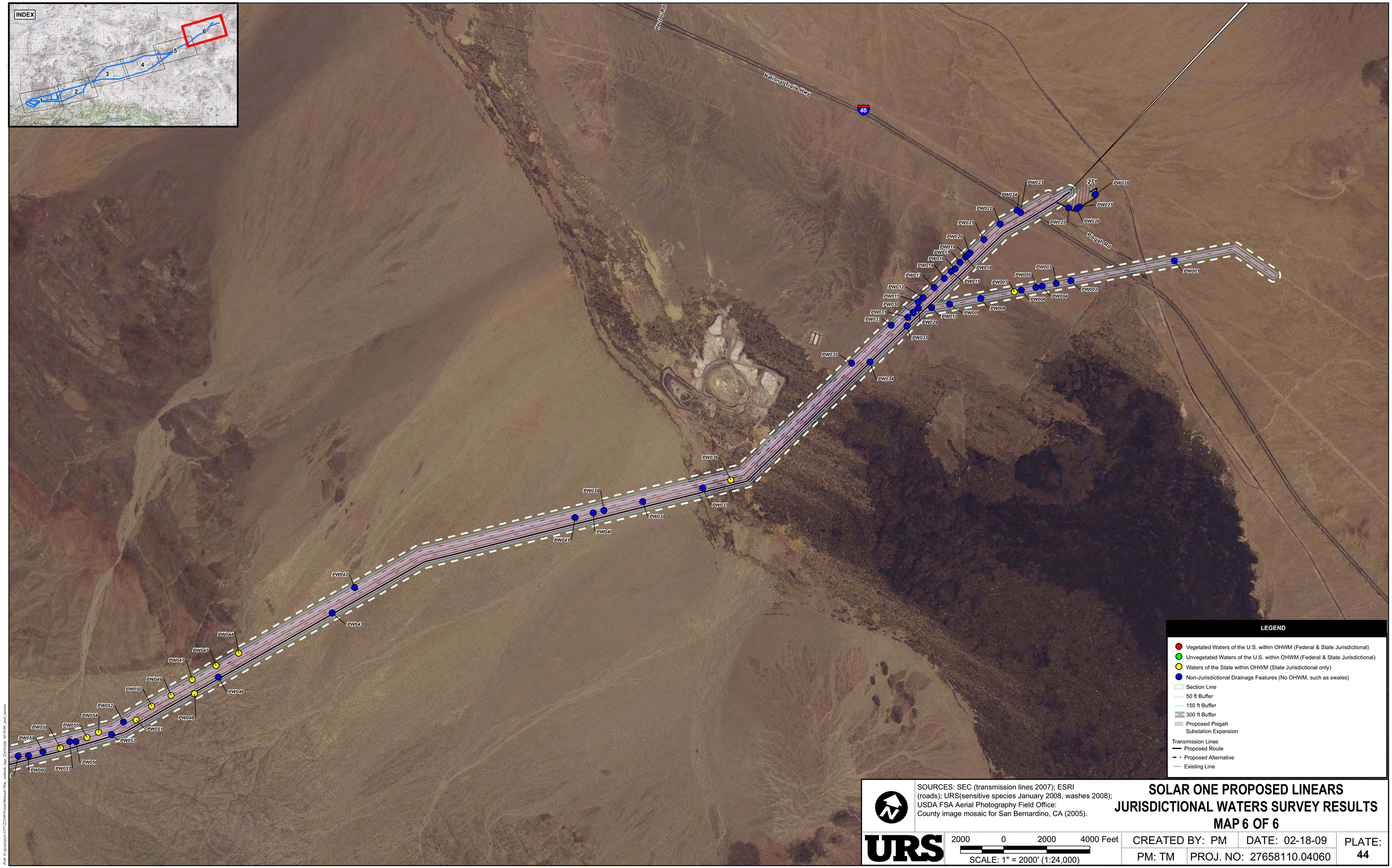

SOURCES: SEC (transmission lines 2007); ESRI (roads); URS(sensitive species January 2008, washes 2008); USDA FSA Aerial Photography Field Office: County image mosaic for San Bernardino, CA (2005).

SOLAR ONE PROPOSED LINEARS
JURISDICTIONAL WATERS SURVEY RESULTS
MAP 6 OF 6

URS

2000 0 2000 4000 Feet

SCALE: 1" = 2000' (1:24,000)

CREATED BY: PM	DATE: 02-18-09	PLATE: 44
PM: TM	PROJ. NO: 27658110.04060	

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 379: Please provide information on the abundance of each special-status species that was detected. For the special-status plant species that were detected, please indicate whether each reported occurrence represents an individual plant or multiple plants.

Response: The requested information is included in the table below.

Table 1
Special-Status Species Detected

Common Name	Scientific Name	Field Notes	Easting	Northing
Plants				
short-joint beavertail cactus	*Opuntia basilaris* var. *brachyclada*	Individual	467574	3803055
short-joint beavertail cactus	*Opuntia basilaris* var. *brachyclada*	Individual	466880	3802477
short-joint beavertail cactus	*Opuntia basilaris* var. *brachyclada*	Individual	470835	3801472
short-joint beavertail cactus	*Opuntia basilaris* var. *brachyclada*	Individual	468821	3801084
short-joint beavertail cactus	*Opuntia basilaris* var. *brachyclada*	Individual	470835	3801472
short-joint beavertail cactus	*Opuntia basilaris* var. *brachyclada*	Individual	530927	3830431
White-margined beardtongue	*Penstemmon albomarginata*	Individual	Not Recorded	Not Recorded
Birds				
golden eagle	*Aquila chrysaetosi*	pair	530927	3830431
burrowing owl	*Athene cunicularia*	verified active nest	493960	3810278
loggerhead shrike	*Lanius ludovicianus*	Individual	469197	3801005
loggerhead shrike	*Lanius ludovicianus*	Individual	495303	3812962
Reptiles				
desert tortoise	*Gopherus agassizi*	Individual	520035	3827573
desert tortoise	*Gopherus agassizi*	Individual	539458	3833934
desert tortoise	*Gopherus agassizi*	Individual	540473	3834594
desert tortoise	*Gopherus agassizi*	Individual	531109	3830456
desert tortoise	*Gopherus agassizi*	Individual	552743	3843611
desert tortoise	*Gopherus agassizi*	Individual	539458	3833934
desert tortoise	*Gopherus agassizi*	Individual	547964	3840192
desert tortoise	*Gopherus agassizi*	Individual	548795	3841026

*Coordinates are in NAD 1983 UTM Zone 11 meters

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 380: Please provide the survey dates. For each date, indicate the portion(s) of the Project area surveyed, the resources surveyed, and the corresponding surveyors.

Response: The requested information is included in the table below.

Table 2
Survey Dates and Field Personnel

Date	Field Personnel	Survey Type
3/15/2007	Glen Kinoshita, Paul Brenner	General Survey, site assessment
3/16/2007	Glen Kinoshita, Paul Brenner	General Survey, site assessment
3/19/2007	Glen Kinoshita, Brooke McDonald, Wayne Vogler, David Silverman	General Survey, site assessment
3/20/2007	Glen Kinoshita, Brooke McDonald, Wayne Vogler, David Silverman	General Survey, site assessment
3/21/2007	Glen Kinoshita, Brooke McDonald, Wayne Vogler, David Silverman	General Survey, site assessment
3/22/2007	Brooke McDonald, Wayne Vogler, David Silverman, Cindy Hopkins	General Survey, site assessment
3/23/2007	Brooke McDonald, Wayne Vogler, David Silverman, Cindy Hopkins	General Survey, site assessment
3/26/2007	Ellen Howard, Brooke McDonald, Greg Hoisington, Sage Jensen, Bridget Canty	General Survey, site assessment
3/27/2007	Ellen Howard, Brooke McDonald, Greg Hoisington, Sage Jensen, Bridget Canty	General Survey, site assessment
3/28/2007	Ellen Howard, Brooke McDonald, Greg Hoisington, Sage Jensen, Bridget Canty, David Silverman, Cindy Hopkins	General Survey, site assessment
3/29/2007	Ellen Howard, Brooke McDonald, Greg Hoisington, Sage Jensen, Bridget Canty, David Silverman, Cindy Hopkins	General Survey, site assessment
3/30/2007	Ellen Howard, Brooke McDonald, Greg Hoisington, Sage Jensen, Bridget Canty, David Silverman, Cindy Hopkins	General Survey, site assessment

Table 2
Survey Dates and Field Personnel
(Continued)

Date	Field Personnel	Survey Type
3/15/2007	Glen Kinoshita, Paul Brenner	General Survey, site assessment
4/2/2007	Theresa Miller, Ken McDonald, Greg Hoisington, Dallas Pugh, David Silverman, Michael Honer, Cheryl Rustin	General Survey, site assessment, Desert tortoise protocol survey
4/3/2007	Theresa Miller, Ken McDonald, Greg Hoisington, Dallas Pugh, Michael Honer, Cheryl Rustin	General Survey, site assessment, Desert tortoise protocol survey
4/4/2007	Theresa Miller, Ken McDonald, Greg Hoisington, Dallas Pugh, Michael Honer, Cheryl Rustin	General Survey, site assessment. Desert tortoise protocol survey
4/5/2007	Ken McDonald, Greg Hoisington, Dallas Pugh, Michael Honer	Desert tortoise protocol survey
4/6/2007	Ken McDonald, Greg Hoisington, Dallas Pugh, Michael Honer	Desert tortoise protocol survey
4/9/2007	Glen Kinoshita, Dallas Pugh, Sage Jensen	Desert tortoise protocol survey
4/10/2007	Glen Kinoshita, Dallas Pugh, Sage Jensen	Desert tortoise protocol survey
4/11/2007	Glen Kinoshita, Dallas Pugh, Sage Jensen	Desert tortoise protocol survey
4/12/2007	Dallas Pugh, Sage Jensen	Desert tortoise protocol survey
6/11/2007	Glen Kinoshita, Dallas Pugh	Mojave ground squirrel presence/absence survey
6/12/2007	Glen Kinoshita, Dallas Pugh	Mojave ground squirrel presence/absence survey
3/21/2008	Glen Kinoshita, Kristen Marsh, Michael Honer, Marc Baker	Focused rare plant surveys
3/22/2008	Kristen Marsh, Michael Honer, Marc Baker, Dave Erikson, Eric Klein, Rich Kleinleder, Mike Wood, Yancey Bissonnette, Lech Naumovich, Neal Kramer	Focused rare plant surveys
3/23/2008	Kristen Marsh, Michael Honer, Marc Baker, Dave Erikson, Eric Klein, Rich Kleinleder, Mike Wood, Yancey	Focused rare plant surveys

Table 2
Survey Dates and Field Personnel
(Continued)

Date	Field Personnel	Survey Type
3/15/2007	Glen Kinoshita, Paul Brenner	General Survey, site assessment
	Bissonnette, Lech Naumovich, Neal Kramer	
5/12/2008	Glen Kinoshita, Yancey Bissonnette	Focused rare plant surveys
5/13/2008	Glen Kinoshita, Yancey Bissonnette	Focused rare plant surveys
5/14/2008	Glen Kinoshita, Yancey Bissonnette	Focused rare plant surveys
5/15/2008	Glen Kinoshita, Yancey Bissonnette	Focused rare plant surveys
12/14/2008	Dallas Pugh, Shanti Santulli, Rick Bailey, Sundeep Amin	Jurisdictional Waters of the US Surveys
12/15/2008	Dallas Pugh, Shanti Santulli, Rick Bailey, Sundeep Amin	Jurisdictional Waters of the US Surveys
12/16/2008	Dallas Pugh, Shanti Santulli, Rick Bailey, Sundeep Amin	Jurisdictional Waters of the US Surveys
1/5/2009	Dallas Pugh, Shanti Santulli, Brittany Benson, Sundeep Amin	Jurisdictional Waters of the US Surveys
1/6/2009	Dallas Pugh, Shanti Santulli, Brittany Benson, Sundeep Amin	Jurisdictional Waters of the US Surveys
1/7/2009	Dallas Pugh, Shanti Santulli, Brittany Benson, Sundeep Amin	Jurisdictional Waters of the US Surveys

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 381: Please indicate whether the surveys adhered to any established survey guidelines. If the answer is yes, please cite the guidelines and indicate whether the surveys deviated from the guidelines in any way.

Response: The surveys adhered to all applicable survey guidelines, as described in detail below.

Vegetation and Wildlife

In March 2007, URS biologists conducted a habitat assessment to characterize the vegetation within the Project area and determine the fitness of the habitat for sensitive species. A California Natural Diversity Database (CNDDB) search revealed a number of historical sensitive plant and animal locations along the transmission line corridor, including several species of rare plants, burrowing owl (*Athene cunicularia*), desert tortoise (*Gopherus agassizii,* state and federal Threatened), southwestern willow flycatcher (*Empidonax traillii extimus,* state and federal Endangered), and Mohave ground squirrel (*Spermophilus mohavensis,* BLM Sensitive, CDFG Threatened). In addition, United States Fish and Wildlife Service (USFWS) Critical Habitat and Bureau of Land management (BLM) Category 1 and 2 habitats for the desert tortoise occur within the Project area. USFWS Critical Habitat for southwestern willow flycatcher occurs along the Mojave River, north of where the transmission line route crosses the river.

It was determined that USFWS-protocol surveys for desert tortoise would be necessary because a portion of the proposed route crosses designated USFWS Critical Habitat. The survey assessment width was 300 feet: 150 feet on each side of existing transmission lines, and a 300-foot corridor within proposed or alternative routes lacking transmission lines. Vegetation mapping was documented within an 800-foot wide right-of-way (ROW) to buffer the area being surveyed for focal species.

From March 15, 2007 through April 4, 2007, March 21-23, 2008, and May 12-15, 2008, URS biologists conducted vegetation assessments and rare plant surveys within the Project area. These surveys were conducted on foot. Biological resources were mapped with the aid of handheld GPS units (5 meter accuracy) and plotted on 1-inch = 200 feet rectified 2005 aerial photographs.

From April 1, 2007 through April 13, 2007, URS biologists conducted USFWS protocol surveys for desert tortoise. During the protocol surveys, teams of biologists trained in desert tortoise survey protocols surveyed 100 percent coverage at 30-foot intervals. Sections were surveyed for tortoise sign, burrows, or live tortoise. Tortoise sign included scat, tracks, or carapaces (parts or whole). GPS locations and photographs were taken of desert tortoise and the habitat they were detected in, and survey forms were completed for each tortoise sighting. Incidental observations of all other wildlife species and sign were also recorded during the tortoise surveys.

From June 11-12, 2007, URS biologists conducted presence/absence surveys for Mohave ground squirrel, focusing on a historical CNDDB locality near a potential transmission line alternative route (Plate 13 provided per DR-378).

During these surveys, all animals, potential burrows and sign were observed with the aid of binoculars and recorded.

During all of the URS biological surveys, the proposed corridor was surveyed on foot, and all areas were visible from the survey routes. Animals were identified using scat, tracks, burrows, vocalizations, or direct observations with the aid of binoculars. Biological resources were mapped in the field with the aid of handheld GPS units (5-meter accuracy) and plotted on a 1-inch = 200 feet rectified 2005 aerial photographs.

Vegetation surveys were conducted by URS biologists Glen Kinoshita, Ellen Howard, Paul Brenner, Brooke McDonald, Wayne Vogler, Dallas Pugh, Ken McDonald, Greg Hoisington, Kristen Marsh, Eric Klein, Rich Kleinleder, Dave Erikson, and Sage Jensen; Xeric Specialties biologists David Silverman and Cindy Hopkins; biologist Michael Honer from Botanical Consulting; and biologists Marc Baker, Mike Wood, Lech Naumovich, Neal Kramer. Focused surveys for desert tortoise were performed by URS biologists Glen Kinoshita, Theresa Miller, Cheryl Rustin, Greg Hoisington, Dallas Pugh, Sage Jensen, and Ken McDonald, and Michael Honer of Michael Honer Botanical Consulting. Mohave ground squirrel surveys were performed by URS biologists Glen Kinoshita and Dallas Pugh. A list of survey dates and personnel is provided in the response to DR-380 above.

Jurisdictional Waters
From December 14-16, 2008 and January 5-7, 2009, URS biologists conducted field surveys for potential jurisdictional waters of the U.S. and waters of the state. Prior to conducting the surveys, high resolution aerial images of the Project area were analyzed for the locations of potential jurisdictional waters, and potentially jurisdictional drainage features were identified and mapped using Google Earth. Using GPS location data for each point, along with aerial images, each drainage feature was analyzed in the field for its potential jurisdiction.

Waters of the United States
Non-wetland waters or other waters of the U.S. subject to jurisdiction pursuant to Section 404 of the Federal Clean Water Act were evaluated based on the presence of an ordinary high water mark (OHWM) or the boundary of adjacent wetlands defining their limits as provided at 33 CFR 328.3 and 328.4.

Guidance from the U.S. Army Corps of Engineers (Corps) (2001), *Final Summary Report: Guidelines for Jurisdictional Determinations for Waters of the United States in the Arid Southwest*, was also used. Guidance of relevance to this delineation includes consideration that:

"In dryland fluvial systems typical of the desert areas, the most common physical characteristics indicating the OHWM for a channel usually include, but are not limited to: a clear natural scour line impressed on the bank; recent bank erosion; destruction of native terrestrial vegetation; and the presence of litter and debris. For many small desert wash systems, the presence of continuous well-developed upland vegetation in the stream channel is a good indicator that it only conveys surface flow during extremely large storm events and, as a result, would not usually constitute a jurisdictional water of the United States."

This guidance has been further elaborated by the Corps (2004 and 2008a), and that elaboration is implemented herein. The potential for federal wetlands was

evaluated based on the presence of wetland hydrology, wetland vegetation, and hydric soils pursuant to guidance from the Federal Manual for Delineating Wetlands (Corps 1987) as augmented by the Corps (2008b). The Project area does not exhibit features demonstrative of wetland hydrology, wetland vegetation, and/or hydric soils, so no wetland data points were selected and no wetland datasheets were recorded.

Lakes and Streambeds
Areas subject to jurisdiction pursuant to Section 1600 of the California Fish and Game Code were delineated. Section 1602(a) describes areas subject to its jurisdiction within the following text:

1602 (a) An entity may not substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake, unless all of the following occur…

Section 1602(a) is based on Title 14 CCR 720:
For the purpose of implementing Sections 1601 and 1603 of the Fish and Game Code which requires submission to the department of general plans sufficient to indicate the nature of a project for construction by or on behalf of any person, governmental agency, state or local, and any public utility, of any project which will divert, obstruct or change the natural flow or bed of any river, stream or lake designated by the department, or will use material from the streambeds designated by the department, all rivers, streams, lakes, and streambeds in the State of California, including all rivers, streams and streambeds which may have intermittent flows of water, are hereby designated for such purpose.

Streams, including creeks and rivers, are defined at Title 14 CCR 1.72 as:
A stream is a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation.

Lakes are defined at Title 14 CCR 1.56 as:
Lakes: Includes natural lakes or man-made reservoirs.

URS understands that these state regulations define the jurisdiction of the California Department of Fish and Game (CDFG) for the purpose of administering Section 1600 of the Fish and Game Code as within the bed, bank, and channel of stream, including intermittent streams, which are equivalent to the areas within the OHWM of a stream or watercourse. URS also understands that the CDFG routinely asserts jurisdiction on areas that may be adjacent to a stream with an OHWM that demonstrate: a dominance of hydrophytic vegetation, hydric soils, and/or wetland hydrology. Therefore, URS has evaluated such conditions as potentially subject to CDFG jurisdiction.

Waters of the State
Waters of the state include surface and ground waters pursuant to the Porter Cologne Water Quality Control Act. The following definitions of waters of the state and related items from Porter Cologne (§13050 Definitions) used in this report include:

(d) “Waste” includes sewage and any and all other waste substances, liquid, solid, gaseous, or radioactive, associated with human habitation, or of human or animal origin, or from any producing, manufacturing, or processing operation, including waste placed within containers of whatever nature prior to, and for purposes of, disposal.

(e) “Waters of the state” means any surface water or groundwater, including saline waters, within the boundaries of the state.

(f) “Beneficial uses” of the waters of the state that may be protected against quality degradation include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.

(g) “Quality of the water” refers to chemical, physical, biological, bacteriological, radiological, and other properties and characteristics of water that affect its use.

(h) “Water quality objectives” means the limits or levels of water quality constituents or characteristics which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area.

(k) “Contamination” means an impairment of the quality of the waters of the state by waste to a degree that creates a hazard to the public health through poisoning or through the spread of disease. “Contamination” includes any equivalent effect resulting from the disposal of waste, whether or not waters of the state are affected.

(l)(1) “Pollution” means an alteration of the quality of the waters of the state by waste to a degree that unreasonably affects either of the following:

(A) The waters for beneficial uses.

(B) Facilities which serve these beneficial uses.

(2) “Pollution” may include “contamination.”

Additionally, potential beneficial uses that may occur on-site have been evaluated.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 382: Please provide a list of any other special-status species that may be affected by the Project, provide an assessment of Project impacts on these species, and discuss whether any additional species-specific mitigation will be implemented to offset Project impacts.

Response: The requested information is provided below and includes all special-status species with potential to occur within the transmission line corridor based on the presence of appropriate habitat and known occurrences within a 5-mile radius. The list of species was compiled from official database queries of the CNDDB, CNPS, and BLM. The potential Project impacts cannot be assessed at this time because a final Project design has not been engineered. While the majority of the alignment is proposed along existing transmission lines with existing access roads, portions of each alternative will require new access roads as part of the project. Impacts to natural communities, and mitigation to offset those impacts, will therefore depend on the transmission line alignment alternative that is ultimately chosen.

Table 3
Special-Status Species

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Plants							
Small-flowered androstephium	*Androstephium breviflorum*	None	None	2	Mojave desert scrub (bajadas), blooms March-April.	Moderate potential. Habitat in north-eastern portion of study area.	Not observed in Project area in 2007 or 2008
White bearpoppy	*Arctomecon merriamii*	None	None	2	Chenopod scrub, Mojave desert scrub, blooms April-May.	Moderate potential. Habitat in north-eastern portion of study area.	Not observed in Project area in 2007 or 2008
Plummer's mariposa lily	*Calochortus plummerae*	None	None	1B	Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, valley and foothill grassland, blooms May-July.	Moderate potential. Habitat in south-western portion of study area.	Not observed in Project area in 2007 or 2008

Table 3
Special-Status Species
(Continued)

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Alkalai mariposa lily	*Calochortus striatus*	None	None	1B	Chaparral, chenopod scrub, Mojave desert scrub, meadows and seeps at north base of San Bernardino Mts., blooms April-June.	Moderate potential. Habitat in south-western portion of study area.	Not observed in Project area in 2007 or 2008
Booth's evening primrose	*Camissonia boothii* var. *boothii*	None	None	2	Joshua tree woodland, pinion and juniper woodland, blooms April-September.	High potential. Habitat in south-western portion of study area in Joshua tree woodland areas. Historical observation in Mojave River near Antelope Valley.	Observed in 2008 in Project area.
Crucifixion thorn	*Castela emoryi*	SC	None	2	Dry, rocky desert washes, slopes and plains, blooms June-July.	High potential in north-eastern portion of Project area, historical location near Pisgah Crater.	Observed in 2008 in Project area.
White-bracted spineflower	*Chorizanthe xanti* var. *leucotheca*	None	None	1B	Mojave desert scrub, pinion and juniper woodland, blooms April-June.	Moderate potential. Habitat in woodlands in south-western portion of Project area.	Not observed in Project area in 2007 or 2008
Mojave Tarplant	*Deinandra mojavensis*	None	SE	1B	Chaparral, coastal scrub, riparian scrub, blooms June-October.	Moderate potential. Scrub habitat in south-western portion of Project area.	Not observed in Project area in 2007 or 2008
Slender-horned spineflower	*Dodecahema leptoceras*	CE	None	1B	Chaparral, cismontane woodland, coastal scrub (alluvial fan), blooms April-June.	Low potential. Most scrub habitat too dry for species.	Not observed in Project area in 2007 or 2008
Barstow wooly sunflower	*Eriophyllum mojavense*	None	None	1B	Chenopod scrub, Mojave desert scrub, playas, bloom April-May.	Moderate potential. Desert scrub habitat found throughout survey area.	Not observed in Project area in 2007 or 2008
Viviparous foxtail cactus	*Escobaria vivipara* var. *rosea*	None	None	2	Mojave desert scrub, pinyon and juniper woodland, blooms May-June.	Moderate potential. Desert scrub and juniper woodland found in south-western and throughout Project area.	Not observed in Project area in 2007 or 2008

Table 3
Special-Status Species
(Continued)

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Sagebrush loeflingia	*Loeflingia squarrosa* var. *artemisiarum*	None	None	2	Desert dunes, Great Basin scrub, Sonoran desert scrub, blooms April-May.	Moderate potential. Dune habitat in north-eastern portion of Project area.	Not observed in Project area in 2007 or 2008
Creamy blazing star	*Mentzelia tridentata*	None	None	1B	Mojave desert scrub, bloom March-May.	Moderate potential. Desert scrub habitat found throughout survey area.	Not observed in Project area in 2007 or 2008
Mojave monkey flower	*Mimulus mojavensis*	None	None	1B	Joshua tree woodland, Mojave desert scrub, blooms April-June.	Moderate potential. Joshua tree woodland areas found in south-western portion of Project area.	Not observed in Project area in 2007 or 2008
Short-joint beavertail cactus	*Opuntia basilaris var. brachyclada*	None	None	1B	Chaparral, Joshua tree woodland, Mojave desert scrub, pinion and juniper woodland, blooms April-June.	High Potential. Suitable habitat found throughout Project area. Historical observations in south-western and north-eastern portions of study area.	Observed in 2007 and 2008 in Project area.
White-margined beardtongue	*Penstemon albomarginatus*	None	None	1B	Mojave desert scrub, blooms March-May.	High potential. Scrub habitat found throughout survey area. Historical observations near Project area in the Antelope Valley and near Pisgah Crater.	Observed in Project area in 2008.
Sky-blue phacelia	*Phacelia coerulea*	None	None	2	Mojave desert scrub, pinyon and juniper woodland, blooms April-May.	Moderate potential. Scrub habitat found throughout Project area.	Not observed in 2007 Project area.
Parish's phacelia	*Phacelia parishii*	None	None	1B	Mojave desert scrub, blooms April-May.	High potential. Scrub habitat found throughout Project area. Historical observation near Lucerne Lake.	Not observed in Project area in 2007 or 2008

Table 3
Special-Status Species
(Continued)

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Parish's popcornflower	*Plagiobothrys parishii*	None	None	1B	Desert scrub, Joshua tree woodland, blooms March-June.	High potential. Desert scrub found throughout Project area and Joshua tree woodland found in south-western portion. Historical observation near Rabbit Springs.	Not observed in Project area in 2007 or 2008
Thorny milkwort	*Polygala acanthoclada*	None	None	2	Chenopod scrub, Joshua tree woodland, pinyon and juniper woodland, blooms May-August.	Moderate potential. Juniper and pinyon-juniper woodland habitat in south-western portion of study area.	Not observed in Project area in 2007 or 2008
Parish's alkali grass	*Puccinellia parishii*	None	None	1B	Desert seeps, springs, wet meadows, blooms April-May.	High potential. Desert seeps are scattered along Project area. Historical observation near Rabbit Springs.	Not observed in Project area in 2007 or 2008
Black sedge	*Schoenus nigricans*	None	None	2	Marshes, swamps, springs, generally alkaline soils, blooms August-September.	Moderate potential. Areas of alkaline soils in Project area such as in the Lucerne Valley.	Not observed in Project area in 2007 or 2008
Salt spring checkerbloom	*Sidalcea neomexicana*	None	None	1B	Alkaline springs and marshes, blooms March-April.	High potential. Springs and seeps are located along survey corridor. Historical observation located at Rabbit Springs.	Not observed in Project area in 2007 or 2008
Rusby's desert mallow	*Sphaeralcea rusbyi* var. *eremicola*	None	None	1B	Joshua tree woodland, Mojave desert scrub, blooms May-June.	Moderate potential. Joshua tree habitat in south-western portion of Project area.	Not observed in Project area in 2007 or 2008.
Golden violet	*Viola aurea*	None	None	2	Sandy slopes, blooms April-June.	Moderate potential. Sandy areas located throughout Project area.	Not observed in Project area in 2007 or 2008

Table 3
Special-Status Species
(Continued)

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Amphibians							
California red-legged frog	*Rana aurora draytonii*	T	None	N/A	Dense, shrubby or emergent riparian vegetation associated with deep still or slow moving water.	Moderate potential. Riparian habitat in south-western portion of Project area. Historical observation in Mojave River Forks Reservoir.	Not observed in Project area in 2007 or 2008
Reptiles							
Desert tortoise	*Gopherus agassizii*	T	T	N/A	river washes, rocky hillsides, and flat desert having sandy or gravelly soil with creosote bush, burro bush, saltbush, Joshua tree, Mojave yucca, cacti, other shrubs, grasses, and wildflowers	High potential. Habitat in north-eastern portion of Project area in and around the desert tortoise conservation area.	Observed in 2007 and 2008 in Project area.
Rosy boa	*Lichanura trivirgata*	None	None	N/A	Arid scrublands, semi-arid shrublands, rocky deserts, desert oases, canyons, and rocky areas.	Moderate potential. Arid scrubland habitat in south-western portion of Project area.	Not observed in Project area in 2007 or 2008
Coast horned lizard	*Phrynosoma coronatum*	SC	SC	N/A	Chaparral and coastal sage scrub with open spaces in abundant vegetation	Moderate potential. Scrub habitat in south-western portion of Project area. Historic observations along the Mojave River and Mojave River West Fork.	Not observed in Project area in 2007 or 2008
Chuckwalla	*Sauromalus obesus*	SC	None	N/A	Desert rock outcrops surrounded by creosote brush scrub.	High potential. Numerous rocky outcrops in north-eastern portion of Project area.	Not observed in 2007 Project area.

Table 3
Special-Status Species
(Continued)

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Mojave fringe-toed lizard	*Uma scoparia*	SC	SC	N/A	Areas of Aeolian sands including dunes, flats with sandy hummocks, washes and banks of rivers.	High potential. Dune habitat in north-eastern portion of Project area. Historical observation in Pisgah Crater.	Observed in Project area in 2008.
Birds							
Cooper's hawk	*Accipiter cooperii*	None	SC	N/A	Woodlands, suburban landscapes.	High potential. Pinyon-juniper woodlands and suburban areas in south-western portion of Project area. Historical observation near Hesperia.	Not observed in Project area in 2007 or 2008
Golden Eagle	*Aquila chrysaetos*	None	SC	N/A	Desert scrub near cliff nest sites.	Moderate potential. Suitable habitat in south-western portion of Project area.	Observed in 2007 in Project area.
Long-eared owl	*Asio otus*	None	None	N/A	Woodlands, forest edges, riparian strips along rivers.	High potential. Suitable habitat in south-western portion of Project area. Historical observation in Antelope Valley near Hesperia.	Not observed in 2007 Project area.
Western burrowing owl	*Athene cunicularia*	SC	SC	N/A	Found in open grasslands and agricultural areas with suitable fossorial mammal burrows for nesting.	High potential. Suitable habitat and burrows observed along survey corridor.	Observed in 2007 and 2008 in Project area.
Yellow warbler	*Dendroica petechia*	None	None	N/A	Farmlands, forest edges, suburban yards and gardens, areas of scattered trees and shrubbery.	High potential. Suitable suburban habitat in south-western portion of Project area. Historical observation near Hesperia.	Observed in 2007 and 2008 in Project area.
Southwestern willow flycatcher	*Empidonax traillii extimus*	E	E	N/A	Riparian woodland/forest; Mojave River.	Moderate potential. Suitable habitat around Mojave River in south-western portion of Project area.	Not observed in Project area in 2007 or 2008

Table 3
Special-Status Species
(Continued)

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Prairie falcon	*Falco mexicanus*	None	SC	N/A	Desert scrub near cliff nest sites.	Moderate potential. Suitable scrub habitat along survey route.	Not observed in Project area in 2007 or 2008
Loggerhead shrike	*Lanius ludovicianus*	SC	None	N/A	Desert, farmland; nests in cholla and thorny bushes.	Moderate potential. Suitable habitat in south-western portion of Project area.	Observed in 2007 and 2008 in Project area.
Black-tailed gnatcatcher	*Polioptila melanura*	None	SC	N/A	Occurs in dry washes in low desert and arid country.	Moderate potential. Suitable habitat in south-western portion of Project area.	Not observed in Project area in 2007 or 2008
Vermillion flycatcher	*Pyrocephalus rubinus*	SC	SC	N/A	Riparian drainages adjacent to open habitats.	Low potential. Little potential habitat in Project area, mostly in south-western area near Hesperia.	Not observed in Project area in 2007 or 2008.
Bendire's thrasher	*Toxostoma bendirei*	None	SC	N/A	Desert wash vegetation	Moderate potential. Suitable habitat throughout Project area, such as the Mojave River and other washes along survey corridor.	Not observed in Project area in 2007 or 2008
Le Conte's thrasher	*Toxostoma lecontei*	None	SC	N/A	Desert washes where large shrubs occur for nesting.	High potential. Suitable habitat throughout Project area. Historical observations in Hesperia, Apple Valley, Lucerne Valley.	Not observed in Project area in 2007 or 2008
Gray vireo	*Vireo vaccinator*	None	None	N/A	Chaparral, pinyon-juniper woodland, oak-juniper woodland.	Moderate potential. Suitable habitat in south-western portion of Project area.	Not observed in Project area in 2007 or 2008
Mammals							
Pallid San Diego pocket mouse	*Chaetodipus fallax pallidus*	None	SC	N/A	Chaparral, sage scrub communities with sandy open spaces.	High potential. Scrub habitat in the south-western portion of Project area. Historical observation in Arrastre Canyon near Apple Valley.	Not observed in Project area in 2007 or 2008

Table 3
Special-Status Species
(Continued)

SPECIES		STATUS			HABITAT ASSOCIATIONS	POTENTIAL TO OCCUR	STATUS ONSITE
Common Name	*Scientific Name*	Federal	State	CNPS			
Spotted bat	*Euderma maculatum*	SC	None	N/A	Associated with patchy vegetation with prominent rocky features, pinyon juniper and riparian forests.	High potential. Pinyon-juniper habitat in south-western portion of survey area.	Not observed in Project area in 2007 or 2008
Western mastiff bat	Eumops perotis	None	None	N/A	Rocky areas and cliff faces, roosts in cliff crevices, buildings.	High potential. Numerous exposed, rocky slopes and hills along survey route. Historical observation in Lucerne Lake.	Not observed in Project area in 2007 or 2008
Townsend's big-eared bat	*Plecotus townsendii*	None	None	N/A	Desert scrub and coniferous forests, roosts in caves, abandoned mines, and buildings.	High potential. Desert scrub habitat in south-western portion of Project area. Historical observation in Apple Valley.	Not observed in Project area in 2007 or 2008
Mohave ground squirrel	*Spermophilus mohavensis*	SC	ST	N/A	Mojave desert scrub west of Barstow.	High potential. Desert scrub habitat in south-western portion of Project area. Historical observations in Hesperia, Apple Valley, and Rabbit Springs.	Not observed in Project area in 2007 or 2008
American badger	*Taxidea taxus*	None	SC	N/A	Grasslands, savannas, and mountain meadows near timberline are preferred, but also occur in desert scrub areas.	High potential. Desert scrub habitat in south-western portion of Project area.	Observed in 2007 in Project area.

REFERENCES

California Native Plant Society (CNPS). 2008. Inventory of Rare and Endangered Plants (online edition, v7-08c-interim). California Native Plant Society. Sacramento, CA. Accessed from http://www.cnps.org/inventory.

(CNDDB) California Department of Fish and Game (CDFG). 2008. California Natural Diversity Data Base. Sacramento, CA.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 383: Please indicate why numerous species discussed in the West Mojave Plan that are listed as sensitive by the BLM were omitted from Table 3 of the report.

Response: The table provided in the response to Data Request 382 includes all special-status species with potential to occur within the transmission line corridor based on the presence of appropriate habitat and known occurrences within a 5-mile radius. The list of species was compiled from database queries of the CNDDB and CNPS.

REFERENCES

California Native Plant Society (CNPS). 2008. Inventory of Rare and Endangered Plants (online edition, v7-08c-interim). California Native Plant Society. Sacramento, CA. Accessed from http://www.cnps.org/inventory.

(CNDDB) California Department of Fish and Game (CDFG). 2008. California Natural Diversity Data Base. Sacramento, CA.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 384: Please provide justification for, and cite the sources used, to conclude the Project area is outside the known range of the following species:

a. Least Bell's vireo
b. Yellow-billed cuckoo
c. California leaf-nosed bat
d. Pallid bat
e. Spotted bat
f. Townsend's big-eared bat
g. Western mastiff bat
h. Mojave tarplant

Response:

a. Least Bell's vireo: The Mojave River is within the range of the Least Bell's vireo; however, the areas where the transmission line crosses the Mojave River lack the habitat attributes required for this species and no records of the species occur within the vicinity according to the CNDDB. In addition, the proposed transmission line will not damage suitable habitat associated with the Mojave River; it will simply pass over it.

b. Yellow-billed cuckoo: The Mojave River is within the range of the Yellow-billed cuckoo; however, the areas where the transmission line crosses the Mojave River lack the habitat attributes required for this species and no records of the species occur within the vicinity according to the CNDDB. In addition, the proposed transmission line will not damage suitable habitat associated with the Mojave River; it will simply pass over it.

c. California leaf-nosed bat: The Project area is not outside of the known range for the species and there is potential for the species to occur based on existing habitat requirements; however, according to the CNDDB no records occur within the vicinity of the alignment and none were observed during the surveys. Should the species occupy the Project area in the future, foraging and roosting opportunities would not be disturbed by a transmission line.

d. Pallid bat: The Project area is not outside of the known range for the species and there is potential for the species to occur based on existing habitat requirements; however, according to the CNDDB no records occur within the vicinity of the alignment and none were observed during the surveys. Should the species occupy the Project area in the future, foraging and roosting opportunities would not be disturbed by a transmission line.

e. Spotted bat: According to the Biological Resources Baseline Report for the Transmission Line Corridor Between Lugo and Pisgah Substations (URS 2009) originally provided to Ecosphere, the Project area is not outside of the known range for the species and there is potential for the species to occur based on existing habitat requirements; however, according to the CNDDB no records occur within the vicinity of the alignment and none were observed during the surveys. Should the

species occupy the Project area in the future, foraging and roosting opportunities would not be disturbed by a transmission line.

f. Townsend's big-eared bat: According to the Biological Resources Baseline Report for the Transmission Line Corridor Between Lugo and Pisgah Substations (URS 2009) originally provided to Ecosphere, the Project area is not outside of the known range for the species and there is potential for the species to occur based on existing habitat requirements; however, according to the CNDDB no records occur within the vicinity of the alignment and none were observed during the surveys. Should the species occupy the Project area in the future, foraging and roosting opportunities would not be disturbed by a transmission line.

g. Western mastiff bat: According to the Biological Resources Baseline Report for the Transmission Line Corridor Between Lugo and Pisgah Substations (URS 2009) originally provided to Ecosphere, the Project area is not outside of the known range for the species and there is potential for the species to occur based on existing habitat requirements; however, according to the CNDDB no records occur within the vicinity of the alignment and none were observed during the surveys. Should the species occupy the Project area in the future, foraging and roosting opportunities would not be disturbed by a transmission line.

h. Mojave tarplant: The source used to conclude that it was outside the range of this species was the CNDDB. The nearest know location is 45 miles away (Jepson Interchange Berkeley Mapper http://berkeleymapper.berkeley.edu).

REFERENCES

(CNDDB) California Department of Fish and Game (CDFG). 2008. California Natural Diversity Data Base. Sacramento, CA.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 385: Please discuss the potential for the following species to occur in the Project area:

a. Southwestern willow flycatcher
b. Arroyo toad

Response:

a. Southwestern willow flycatcher: The Mojave River is within the range of the southwestern willow flycatcher; however, the areas where the transmission line crosses the Mojave River lack the habitat attributes required for this species (i.e., dense stands of willows and cottonwoods) and no records of the species occur within the vicinity according to the CNDDB. In addition, the proposed transmission line will not damage suitable habitat associated with the Mojave River; it will simply pass over it.

b. Arroyo toad: The only suitable habitat for this species occurs along the Mojave River; however, the arroyo toad has not been documented at the Mojave River for some time (Stebbins 1951; CNDDB 2008) and the habitat at the locations where the alignment crosses the river is degraded. Numerous known arroyo toad predators are also known to occupy the area, including non-native fish, crayfish (*Procambarus* spp.), and bullfrogs (*Rana catesbieana*). The uplands adjacent to the areas that cross the river are disturbed and receive a fair amount of recreational use, with off-highway vehicle tracks, trash, and campsites throughout.

REFERENCES

California Native Plant Society (CNPS). 2008. Inventory of Rare and Endangered Plants (online edition, v7-08c-interim). California Native Plant Society. Sacramento, CA. Accessed from http://www.cnps.org/inventory.

(CNDDB) California Department of Fish and Game (CDFG). 2008. California Natural Diversity Data Base. Sacramento, CA.

Stebbins, R.C. 1951. Amphibians of Western North America. Houghton Mifflin Company, Boston. pp 539.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 386: Please provide information on aquatic resources in the Project area and discuss potential Project impacts on these resources (including number of acres potentially impacted).

Response: The potential Project impacts cannot be assessed at this time because a final Project design has not been engineered. While the majority of the alignment is proposed along existing transmission lines with existing access roads, portions of each alternative will require new access roads as part of the project. Impacts to natural communities, and mitigation to offset those impacts, will therefore depend on the transmission line alignment alternative that is ultimately chosen. However, the analysis below has been prepared to address potential alignments.

Waters of the United States and State Jurisdictional Waters
The Project area encompasses four regional watershed hydrologic units: Bessemer, Johnson, Lucerne Lake, and Mojave (Table 4). During the site survey and habitat assessment, 346 drainage features were identified that cross the existing and/or proposed transmission lines using Google Earth aerial images. Further examination of the drainage features on the ground yielded the following results.

Table 4
Regional Watershed Hydrologic Units of Proposed Transmission Line Corridor

Regional Hydrologic Unit	Acreage
Bessemer	1,546
Johnson	491
Lucerne Lake	5,385
Mojave	6,057
Total Acreage:	13,479

Waters of the U.S.
The Mojave River is an intrastate water that may be considered jurisdictional by the Corps. Four crossings of the Mojave River are vegetated waters that may be federal jurisdictional waters of the U.S. within an OHWM as defined by 33 CFR 328.3(e). These four areas are sparsely vegetated (<1%) along the fringe of the river with willow (*Salix* sp.) and other riparian vegetation. These locations include PW257, PW260, PW266, and PW315 on Plate 39 of attachment BIO-1, provided behind the response to Data Request 378. Each of these four crossings is described in attachment BIO-2. While final jurisdiction over the Mojave River has not yet been determined by the Corps, a preliminary jurisdictional determination was implemented and it is assumed that the Corps will take jurisdiction over this feature.

The Corps may also want to assert jurisdiction over three locations at crossings of the California Aqueduct. These locations include PW271, PW290, and PW296 on Plate 39, in attachment BIO-1, and are indicated in green.

A total of 339 other drainage features were determined to be federally non-jurisdictional because they are isolated waters and there is no apparent or likely significant nexus to foreign or interstate commerce. Many of these drainage features also lack an OHWM. Each of these drainage features is described in Appendix H and can be found on Plates 39-44 in attachment BIO-1.

Waters of the State

A total of 41 drainage features were determined to be waters of the state pursuant to Section 1600 of the California Fish and Game Code and the Porter Cologne Water Quality Act. These include the four aforementioned locations that cross sparsely vegetated (<1%) areas of the Mojave River (indicated in red on Plate 39), the three aforementioned locations that traverse sections of the California Aqueduct (indicated in green on Plate 39), and 34 isolated, intrastate waters that fall under CDFG and Regional Water Quality Control Board (RWQCB) jurisdiction because of the presence of riparian vegetation (*e.g.,* willows) and/or an OHWM. Each of the 34 isolated drainage features can be found on Plates 39-44, provided as attachment BIO-1, indicated in yellow. Descriptions of all 41 state-jurisdictional drainage features can be found in attachment BIO-2.

Other Drainage Features

A total of 305 other drainage features (*e.g.,* swales) were determined to be non-jurisdictional under federal and state regulations because they lacked an OHWM and/or well-defined bed, bank, and channel. These 305 drainage features are indicated in blue on Plates 1-6, provided as attachment BIO-1.

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW001	557988	3848483	No	No	Drainage feature running east to west across transmission line road ending at access road turn-off	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW002	556664	3847798	No	No	Drainage feature running southeast to northwest across transmission line road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW003	556475	3847702	No	No	Drainage feature running southeast to northwest across transmission line road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW004	556299	3847608	No	No	Drainage feature running southeast to northwest across transmission line road then continuing parallel to the transmission line access road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW005	556217	3847565	No	No	Tributary to PW004 running southeast to northwest across transmission line road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW006	556030	3847470	No	No	Tributary to PW004 running southeast to northwest	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW007	555942	3847421	No	**Yes**	Drainage feature running southeast to northwest	Width at OHWM = 16 feet; Depth = 4 inches. No wetland vegetation.
PW008	555514	3847195	No	No	Drainage feature running east to west across transmission line road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW009	555114	3846993	No	No	Drainage feature and alluvial deposit area running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW010	554884	3846874	No	No	Alluvial tributary to PW009 running northwest to southeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW011	554679	3846898	No	No	Drainage feature/tributary to PW009 running northwest to southeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW012	554726	3846977	No	No	Drainage feature/tributary to PW009 running west to east	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW013	554840	3847158	No	No	Drainage feature/tributary to PW009 running west to east	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW014	554937	3847322	No	No	Tributary to PW015 running west to east	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW015	555003	3847443	No	No	Drainage feature/northern portion of PW009 running south to north across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW016	555047	3847495	No	No	Tributary to PW015 running east to west across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW017	555086	3847604	No	No	Tributary to PW015 running east to west across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW018	555143	3847699	No	No	Braided drainage feature / northern portion of PW007 running east to west across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW019	555158	3847724	No	No	Braided drainage feature / northern portion of PW007 running east to west across the transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW020	555183	3847768	No	No	Braided drainage feature / northern portion of PW007 running east to west across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW021	555320	3848007	No	No	Sandy drainage feature running east to west across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW022	555477	3848282	No	No	Braided drainage features running southeast to northwest across transmission line. Appear to be shallow braids.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW023	555709	3848519	No	No	Drainage feature running off onto National Trails Hwy Runs southeast to northwest	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW024	555652	3848536	No	No	Drainage feature running off onto National Trails Hwy from transmission tower. Runs southeast to northwest	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW025	556343	3848776	No	No	Shallow braided drainage features running southeast to northwest	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW026	556457	3848797	No	No	Drainage feature running east to west across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW027	556485	3848830	No	No	Drainage feature running east to west across transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW028	556651	3849062	No	No	Prominent sandy drainage feature running southeast to northwest crossing the transmission line two times	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW029	554706	3846814	No	No	Drainage feature and tributary to PW009 running west to east	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW030	554655	3846732	No	No	Drainage feature / tributary to PW009 running northwest to southeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW031	554601	3846651	No	No	Alluvial drainage feature / tributary to PW009 running northwest to southeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW032	554623	3846528	No	No	Drainage feature running west to east across the southern transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW033	554406	3846475	No	No	Alluvial drainage feature area running east to west across northern transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW034	554267	3845892	No	No	Braided drainage feature running east to west across southern transmission line	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW035	554023	3845803	No	No	Braided drainage feature running north to south	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW036	552851	3843735	No	**Yes**	Braided drainage feature running south to north	Width at OHWM = 1 foot; Depth = 3 inches. No wetland vegetation.
PW037	552503	3843515	No	No	Braided drainage features running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW038	551743	3843088	No	No	Braided drainage feature running southwest to northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW039	551252	3842814	No	No	Braided drainage feature running southwest to northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW040	551117	3842739	No	No	Braided drainage feature running southwest to northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW041	550888	3842602	No	No	Braided drainage feature running southwest to northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW042	548180	3840773	No	No	Braided drainage feature running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW043	547978	3840339	No	No	Braided drainage feature running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW044	546869	3839419	No	**Yes**	Sandy drainage feature running south to north	Width at OHWM = 1 - 3 feet; Depth = 6 inches. No wetland vegetation.
PW045	546613	3839161	No	**Yes**	Sandy drainage feature running southwest to northeast	Continuation of PW044: Same OHWM and Depth data. No wetland vegetation.
PW046	546690	3839012	No	No	Drainage feature running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW047	546345	3838875	No	**Yes**	Drainage feature running south to north	Braided drainage feature. OHWM = 4 feet; Depth = 4 inches. No wetland vegetation.
PW048	546434	3838693	No	**Yes**	Drainage feature running south to north	Erosional drainage feature. Width at OHWM = 8 - 10 feet; Depth = 2 inches. No wetland vegetation.
PW049	546123	3838576	No	**Yes**	Drainage feature running south to north	Width at OHWM = 2 feet; Depth = 2 inches. No wetland vegetation.
PW050	545902	3838353	No	**Yes**	Drainage feature running southeast to northwest	Gully. Width at OHWM = 2 feet; Depth = 2 inches. No wetland vegetation.
PW051	545748	3838103	No	**Yes**	Drainage feature running southeast to northwest	Width at OHWM = 1.5 feet; Depth = 2-3 inches. No wetland vegetation.
PW052	545584	3838027	No	No	Off-shoot of PW051 running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW053	545473	3837806	No	No	Drainage feature running east to west	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW054	545285	3837788	No	**Yes**	Drainage feature running southeast to northwest	Width at OHWM = 3 feet; Depth = 2-4 inches. No wetland vegetation.
PW055	545151	3837671	No	**Yes**	Drainage feature running southeast to northwest	Width at OHWM = 4 feet; Depth = 6 inches. No wetland vegetation.
PW056	545018	3837570	No	No	Drainage feature running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW057	544931	3837545	No	No	Drainage feature running south to north connecting with PW058	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW058	544833	3837420	No	**Yes**	Drainage feature running south to north through the mountains eventually emptying out onto a large alluvial fan	Sandy with little to no vegetation. Width at OHWM = 3 feet; Depth = 4 inches
PW059	544609	3837303	No	No	Drainage feature running south to north	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW060	544431	3837190	No	No	Drainage feature running south to north eventually connecting to PW061	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW061	544292	3837144	No	No	Drainage feature running south to north through the mountains eventually emptying out into a large alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW062	541361	3835385	No	No	Drainage feature running north to south connecting to larger drainage feature and eventually emptying out into a large alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW063	540363	3834838	No	No	Braided drainage feature running northwest to southeast connecting with PW062 in the south and then eventually emptying out into a large alluvial fan.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW064	540009	3834575	No	No	Braided drainage feature running north to south eventually dissipating into the adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW065	539915	3834478	No	No	Drainage feature running north to south connecting with PW064 and eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW066	539843	3834445	No	No	Drainage feature running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW067	539764	3834369	No	No	Drainage feature running northwest to southeast connecting with PW066 and eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW068	538432	3833192	No	No	Braided drainage feature running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW069	538348	3833161	No	No	Braided drainage feature and alluvial outflow from a larger drainage feature running northwest to southeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW070	538285	3833055	No	No	Drainage feature running northwest to southeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW071	537853	3832747	No	No	Braided drainage feature and alluvial outflow from larger drainage feature running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW072	537695	3832653	No	No	Braided drainage feature running northwest to southeast eventually dissipating into adjacent habitat further south	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW073	537212	3832390	No	No	Braided drainage feature running north to south eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW074	537073	3832317	No	No	Canyon with drainage feature along the bottom running northwest to southeast connecting with PW073 and eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW075	536496	3831997	No	No	Drainage feature running northwest to southeast connecting with PW073 and PW074 eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW076	536318	3831893	No	No	Drainage feature running northwest to southeast along the bottom of a small valley connecting with PW075 and eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW077	536136	3831784	No	No	Braided drainage feature with some vegetation scouring running north to south from the mountains down to a large alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW078	536057	3831766	No	No	Drainage feature running north to south along the bottom of a small valley connecting with PW077	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW079	535699	3831543	No	No	Drainage feature running west to east across the transmission line into an alluvial drainage feature area with evidence of vegetation scouring and watermarks. Connects with PW077 and eventually empties out into a large alluvial fan.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW080	535060	3831180	No	No	Alluvial drainage feature running north to south from the mountains eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW081	532739	3830579	No	No	Braided drainage feature associated with larger drainage feature (PW082). Runs northwest to southeast eventually dissipating into a large alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW082	532467	3830570	No	**Yes**	Sandy drainage feature running northwest to southeast eventually emptying into a large alluvial fan	Some cut banks, unvegtetated with evidence of sheetflow. Width at OHWM = 40 feet; Depth = 10 inches
PW083	532367	3830571	No	No	Braided drainage feature associated with larger drainage feature (PW082). Run northwest to southeast eventually dissipating into a large alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW084	530984	3830542	No	**Yes**	Numerous braided drainage feature running southwest to northeast eventually connecting with PW82	Width at OHWM = 3 feet; Depth = 6 inches. No wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW085	530320	3830524	No	No	Shallow braided drainage feature running northwest to southeast eventually dissipating into adjacent habitat with the exception of smaller capillary-like drainage features connecting to the southwestern portion of PW084	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW086	529951	3830508	No	**Yes**	Tributary to PW084 running west to east off of the mountains	Width at OHWM = 5 inches; Depth = 2 inches. No wetland vegetation.
PW087	529649	3830509	No	**Yes**	Drainage feature running northwest to southeast eventually connecting to PW084	Width at OHWM = 1-3 feet; Depth = 4 inches. No wetland vegetation.
PW088	529439	3830506	No	No	Drainage feature running north to south eventually connecting with PW087 to feed into PW084	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW089	529202	3830455	No	No	Drainage feature running northeast to southwest to eventually connect to PW091 which dissipates out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW090	529063	3830401	No	No	Braided tributary to PW091 running northeast to southwest which eventually dissipates into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW091	529008	3830380	No	No	Sandy drainage feature running north to south across the transmission line before heading southwest where it eventually dissipates into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW092	528332	3830117	No	No	Series of braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW093	527896	3829953	No	No	Series of braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW094	527782	3829918	No	No	Drainage feature running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW095	527567	3829822	No	No	Drainage feature running northeast to southwest eventually dissipating into an alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW096	527484	3829790	No	No	Drainage feature running north to south eventually dissipating into an alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW097	527463	3829782	No	No	Drainage feature running northwest to southeast across the transmission line eventually dissipating into an alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW098	526890	3829669	No	No	Drainage feature running north to south across the transmission line before heading west then dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW099	526422	3829643	No	No	Drainage feature running north to south across the transmission line before winding southwest then dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW100	525449	3829585	No	No	Drainage feature at the bottom of a valley running north to south eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW101	524409	3829537	No	No	Braided drainage feature most likely a result of runoff from the Powerline Road however it does seem to connect to a larger drainage feature in the northwest	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW102	522822	3829300	No	No	Series of braided drainage features associated with larger drainage feature (PW103) begin here. Running northeast to southwest eventually dissipating into adjacent habitat.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW103	522521	3829135	No	**Yes**	Sandy drainage feature running northeast to southwest eventually dissipating into adjacent habitat.	Width at OHWM = 4 feet; Depth = 4 inches. No wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW104	521747	3828695	No	No	Series of braided drainage features associated with PW103 end here. Running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW105	520649	3828088	No	No	Series of braided drainage features running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW106	520514	3828011	No	No	Series of braided drainage features running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW107	520404	3827947	No	No	Series of braided drainage features running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW108	520304	3827892	No	No	Series of braided drainage features running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW109	520226	3827850	No	No	Series of braided drainage features running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW110	520091	3827767	No	**Yes**	Sandy drainage feature running northwest to southeast eventually dissipating into adjacent habitat	Width at OHWM = 8 inches; Depth = 1-2 inches. No wetland vegetation.
PW111	519663	3827530	No	No	Series of braided drainage features running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW112	518773	3827032	No	No	Drainage feature running northwest to southeast along the bottom of a small valley eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW113	518549	3826906	No	No	Drainage feature running northwest to southeast along the bottom of a small valley eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW114	518479	3826868	No	No	Drainage feature running northwest to southeast along the bottom of a small valley eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW115	518401	3826825	No	No	Drainage feature running northwest to southeast along the bottom of a small valley eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW116	518332	3826786	No	No	Braided drainage features running northwest to southeast along the bottom of a small valley eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW117	518266	3826744	No	No	Braided drainage features running northwest to southeast eventually dissipating into adjacent habitat via a large alluvial fan	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW118	512198	3824810	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW119	511926	3824741	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW120	511680	3824675	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW121	511275	3824569	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW122	511207	3824556	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW123	511111	3824525	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW124	511013	3824501	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW125	510079	3824254	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW126	509872	3824198	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW127	508238	3823769	No	No	Drainage feature running north to south eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW128	507802	3823654	No	No	Braided drainage features running northeast to southwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW129	503755	3821665	No	No	Drainage feature / alluvial outflow running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW130	503696	3821580	No	No	Drainage feature / alluvial outflow running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW131	503648	3821515	No	No	Drainage feature running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW132	503501	3821357	No	No	Drainage feature running northwest to southeast with evidence of vegetation scouring and watermarks	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW133	503244	3821099	No	No	Drainage feature runs north to south within a small valley and eventually dissipates into the habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW134	503088	3820950	No	No	Drainage feature runs northwest to southeast within a small valley and eventually dissipates into the habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW135	502841	3820693	No	No	Drainage feature runs northwest to southeast within a small valley and eventually dissipates into the habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW136	502800	3820663	No	No	Drainage feature runs northwest to southeast and eventually dissipates into the habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW137	502784	3820601	No	No	Sandy/alluvial drainage feature running north to south eventually dissipating into the habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW138	502283	3820139	No	No	Sandy braided drainage feature running west to east eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW139	501220	3818554	No	No	Series of braided alluvial drainage features and alluvial washout running northwest to southeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW140	499759	3816356	No	No	Braided drainage feature running west to east eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW141	499562	3816060	No	No	Drainage feature running west to east emptying into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW142	499405	3815836	No	No	Drainage feature running west to east eventually dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW143	497080	3813735	No	**Yes**	Dry lake bed	Dry lake bed
PW144	501898	3815574	No	**Yes**	Dry lake bed	Dry lake bed
PW145	514101	3816926	No	No	Drainage feature running southeast to northwest ending at Dido Road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW146	514308	3816988	No	No	Drainage feature running southeast to northwest ending just past Powerline Road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW147	514349	3817071	No	No	Drainage feature running southeast to northwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW148	514519	3817135	No	No	Drainage feature running southeast to northwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW149	514585	3817159	No	No	Drainage feature running southeast to northwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW150	517177	3818117	No	No	Shallow braided drainage features running southeast to northwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW151	517321	3818163	No	No	Shallow braided drainage features running southeast to northwest eventually dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW152	519118	3818809	No	No	Sandy drainage feature running south to north before connecting with another large drainage feature running east to west. Drainage feature then dissipates out into adjacent habitat.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW153	519516	3818972	No	No	Braided drainage feature running southeast to northwest before connecting to another large drainage feature running east to west. Drainage feature then dissipates out into adjacent habitat.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW154	520828	3819413	No	No	Braided drainage features running southeast to northwest before connecting to a larger drainage feature running east to west. Drainage feature then dissipates out into adjacent habitat.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW155	522509	3819962	No	No	Drainage feature running from the mountains in the north south out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW156	522650	3820009	No	No	Drainage feature running from the mountains in the north south into adjacent habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW157	522677	3820018	No	No	Drainage feature running from the mountains in the north south into adjacent habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW158	522786	3820054	No	No	Drainage feature running from the mountains in the north south into adjacent habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW159	523015	3820133	No	No	Drainage feature running from the mountains in the north south into adjacent habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW160	523073	3820150	No	No	Drainage feature running from the mountains in the north south into adjacent habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW161	523178	3820186	No	No	Drainage feature running from the mountains in the west east into adjacent habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW162	524432	3820712	No	No	Drainage feature running southeast to northwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW163	525600	3821570	No	No	Braided drainage feature running southeast to northwest dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW164	525727	3821676	No	No	Braided drainage feature running southeast to northwest dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW165	525849	3821804	No	No	Braided drainage feature running southeast to northwest dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW166	525987	3821899	No	No	Drainage feature running southeast to northwest eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW167	526395	3822215	No	No	Braided drainage feature running south to north before heading west and emptying out into adjacent habitat off of the mountains	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW168	527705	3823293	No	No	Wide braided alluvial drainage feature running off the mountains in the northwest southeast into the habitat below where it dissipates	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW169	527869	3823428	No	No	Braided drainage feature running north to south dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW170	528002	3823534	No	No	Series of braided alluvial drainage features running north to south before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW171	528320	3823779	No	No	Drainage feature running north to south before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW172	528808	3824232	No	No	Drainage feature running north to south before connecting with larger drainage features that empty out into a large alluvial fan.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW173	529026	3824436	No	**Yes**	Drainage feature running north to south before connecting with larger drainage features that empty out into a large alluvial fan.	Drainage feature has OHWM, but no connection. Alluvial with high OHV impacts. Width at OHWM = 3 feet; Depth = 5 inches. No wetland vegetation.
PW174	529144	3824543	No	No	Drainage feature running north to south before connecting with larger drainage features that empty out into a large alluvial fan.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW175	529339	3824723	No	No	Drainage feature running north to south before connecting with larger drainage features that empty out into a large alluvial fan.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW176	529414	3824789	No	No	Drainage feature running north to south before connecting with larger drainage features that empty out into a large alluvial fan.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW177	529583	3824947	No	No	Drainage feature running north to south before connecting with larger drainage features that empty out into a large alluvial fan.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW178	529874	3825205	No	No	Drainage feature running west to east from the mountains down into habitat below where it dissipates out	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW179	530001	3825326	No	No	Braided drainage feature running northwest to southeast before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW180	530075	3825401	No	No	Braided drainage feature running northwest to southeast before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW181	532407	3827533	No	No	Sandy drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW182	532479	3827595	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW183	532615	3827718	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW184	532712	3827808	No	No	Braided drainage features running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW185	532998	3828076	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW186	533208	3828264	No	No	Braided sandy drainage feature running west to east before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW187	533273	3828324	No	No	Braided drainage feature running west to east before connecting with PW186 and dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW188	533390	3828427	No	No	Braided drainage feature running west to east before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW189	533488	3828518	No	No	Braided drainage feature running west to east before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW190	533616	3828641	No	No	Braided drainage feature running west to east before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW191	533945	3828933	No	No	Sandy drainage feature running northwest to southeast before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW192	534004	3829006	No	No	Braided sandy drainage feature running northwest to southeast before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW193	534072	3829064	No	No	Braided sandy drainage feature running northwest to southeast before dissipating out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW194	534130	3829102	No	No	Series of braided drainage features running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW195	534181	3829157	No	No	Series of braided drainage features running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW196	534252	3829222	No	No	Braided drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW197	534338	3829299	No	No	Braided drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW198	534406	3829364	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW199	534446	3829401	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW200	534514	3829463	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW201	534637	3829575	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW202	534694	3829626	No	No	Drainage feature running northwest to southeast before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW203	534902	3829811	No	No	Drainage feature running north to south through the hills before emptying out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW204	535145	3830058	No	No	Braided drainage features running north to south before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW205	535803	3830636	No	No	Wide braided drainage feature running northeast to southwest then dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW206	536418	3831202	No	No	Drainage feature running north to south through the mountains before dissipating out into the habitat below	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW207	536788	3831538	No	No	Braided drainage feature running west to east before connecting with PW208 and heading south to dissipate into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW208	536918	3831654	No	No	Sandy drainage feature running northwest to southeast before heading south and dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW209	537030	3831758	No	No	Drainage feature running northwest to southeast before connecting to larger drainage features in the south that empty into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW210	537166	3831883	No	**Yes**	Drainage feature running northwest to southeast before connecting to larger drainage features in the south that empty into adjacent habitat	Width at OHWM = 1.5 feet; Depth = 2 inches. No wetland vegetation.
PW211	537298	3831993	No	No	Drainage feature running north to south before connecting to larger drainage features that empty into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW212	495788	3813424	No	No	Drainage feature running west to east toward the dry lake bed to the east. No connectivity. Drainage feature dissipates into adjacent habitat.	Erosional with no OHWM or wetland vegetation
PW213	495054	3812879	No	No	Drainage running south to north eventually connecting to PW212, heading toward the dry lake bed to the east. No connectivity. Drainage feature dissipates into adjacent habitat.	Erosional with no OHWM or wetland vegetation
PW214	494301	3812574	No	No	Drainage running off the mountains in the northwest southeast where it eventually connects with PW213	Erosional with no OHWM or wetland vegetation
PW215	494043	3812479	No	No	Drainage dissipates into adjacent habitat	Erosional with no OHWM or wetland vegetation
PW216	490693	3811383	No	No	Drainage feature running south to north	Erosional with no OHWM or wetland vegetation
PW217	486026	3809844	No	No	Drainage running southeast to northwest	Erosional with no OHWM or wetland vegetation
PW218	483138	3808082	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below but ultimately dissipates into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW219	483140	3808052	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW220	483139	3808006	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW221	483020	3807666	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present
PW222	482745	3807295	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW223	482635	3807145	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW224	482468	3806917	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW225	482235	3806622	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW226	481980	3806301	No	No	Drainage running southeast to northwest eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW227	481838	3806112	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW228	481791	3806054	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW229	481623	3805618	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW230	481622	3805423	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW231	481586	3805273	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW232	481565	3805046	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW233	481543	3804809	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW234	481498	3804741	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW235	481470	3804513	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW236	481356	3804360	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW237	481297	3804259	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW238	481178	3804067	No	No	Drainage running east to west ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW239	481073	3803903	No	No	Drainage running east to west eventually connecting to PW238 then ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW240	481025	3803770	No	No	Drainage running east to west eventually connecting to PW238 then ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW241	480942	3803737	No	No	Drainage running east to west eventually connecting to PW238 then ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW242	480951	3803821	No	No	Drainage running east to west eventually connecting to PW238 then ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW243	480966	3803983	No	No	Drainage running east to west eventually connecting to PW238 then ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW244	480966	3804084	No	No	Drainage running east to west ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW245	480999	3804451	No	No	Drainage running east to west ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW246	481012	3804623	No	No	Drainage running east to west ultimately dissipating into adjacent habitat	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW247	481033	3804811	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW248	481060	3804986	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW249	481058	3805136	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW250	481052	3805189	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW251	481041	3805305	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW252	481006	3805829	No	No	Drainage running east to west eventually dissipating into residencies and habitat below	Headwaters running off of mountains, dissipating quickly into small alluvial fans behind residencies. No culverts or other connectivity present. No wetland vegetation present.
PW253	480650	3807581	No	No	Drainage running south to north eventually dissipating into adjacent residencies and habitat	Erosional, no OHWM or wetland vegetation.
PW254	480525	3807875	No	No	Drainage running south to north eventually dissipating into adjacent residencies and habitat. Downstream section of PW253	Erosional, no OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW255	480855	3808005	No	No	Drainage running south to north eventually dissipating into adjacent habitat	Erosional, no OHWM or wetland vegetation.
PW256	478137	3805212	No	No	Eastern edge of the Mojave River	Eastern edge of the greater Mojave River floodplain
PW257	477940	3804326	**Yes**	**Yes**	Here the transmission line crosses the Mojave River	Width at OHWM = 214 feet; Depth = 1-3 feet. Vegetation is present and covers less than 1% of the area where the transmission line crosses.
PW258	477797	3804215	No	No	Western edge of the Mojave River	Western edge of the greater Mojave River floodplain.
PW259	477923	3803756	No	No	Western edge of the Mojave River	Western edge of the greater Mojave River floodplain
PW260	478055	3803729	**Yes**	**Yes**	Here the transmission line crosses the Mojave River	Width at OHWM = 155 feet; Depth = 1-3 feet. Vegetation is present and covers less than 1% of the area where the transmission line crosses the river.
PW261	478156	3803711	No	No	Eastern edge of the Mojave River	Eastern edge of the greater Mojave River floodplain.
PW262	479623	3803711	No	No	Drainage feature running east to west quickly dissipating into adjacent habitat.	Erosional drainages that dissipate quickly into adjacent habitat. No OHWM or wetland vegetation.
PW263	480538	3803718	No	No	Drainage running south to north into larger drainage (PW244) which ultimately dissipates into adjacent habitat	Erosional drainages that dissipate quickly into adjacent habitat. No OHWM or wetland vegetation

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW264	480684	3803722	No	No	Drainage running south to north into larger drainage (PW244) which ultimately dissipates into adjacent habitat	Erosional drainages that dissipate quickly into adjacent habitat. No OHWM or wetland vegetation
PW265	478367	3807004	No	No	Eastern edge of the Mojave River	Eastern edge of the greater Mojave River floodplain.
PW266	478213	3806941	**Yes**	**Yes**	Here the transmission line crosses the Mojave River	Width at OHWM = 213 feet; Depth = 1-3 feet. Vegetation is present and covers less than 1% of the area where the transmission line crosses the river.
PW267	478079	3806890	No	No	Western edge of the Mojave River	Western edge of the greater Mojave River floodplain.
PW268	477044	3806578	No	No	Believed to be a drainage feature from Google Earth aerials	Not a wash - access road.
PW269	475939	3806248	No	**Yes**	Drainage/culvert running south to north connecting with PW268 which drains toward the Mojave River	Sandy wash with distinct OHWM with well defined bed and banks. Debris present. Width at OHWM = 3 feet; Depth = 5 feet. No wetland vegetation present.
PW270	472418	3805207	No	**Yes**	Drainage/culvert draining from the southwest to the northeast through a golf course toward the Mojave River.	Man-made, distinct banks and clear OHWM. Width at OHWM = 10 feet; Depth = 1 foot
PW271	469914	3804468	**Yes**	**Yes**	California Aqueduct	California Aqueduct

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW272	467415	3803703	No	No	Drainage feature running southwest to northeast eventually dissipating out into adjacent habitat	Erosional with no OHWM or wetland vegetation
PW273	470330	3803094	No	No	From Google Earth aerials, it appears that the California Aqueduct is underground	Above-ground it is erosional with no OHWM or wetland vegetation
PW274	473350	3803110	No	No	Drainage feature running west to east eventually emptying around the Mojave River in what appears to be a reservoir	Erosional with no OHWM or wetland vegetation
PW275	473941	3803116	No	No	Drainage feature running south to north eventually draining into larger drainage feature (PW274) which eventually dissipates into adjacent habitat	Erosional with no OHWM or wetland vegetation
PW276	474058	3803117	No	No	Drainage feature running south to north eventually draining into larger drainage feature (PW274) which eventually dissipates into adjacent habitat	Erosional with no OHWM or wetland vegetation
PW277	475371	3803120	No	No	Braided drainage feature running southwest to northeast eventually dissipating into adjacent habitat	Erosional with no OHWM or wetland vegetation

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW278	476038	3803538	No	No	Drainage feature running east to west eventually draining into larger drainage feature (PW277) which eventually dissipates into adjacent habitat	Erosional with no OHWM or wetland vegetation
PW279	466505	3802647	No	No	Flood water detention basin associated with power substation	Large flood water detention basin associated with power substation.
PW280	466818	3802461	No	No	From Google Earth aerials, it appears to be a drainage feature due to road runoff. Runs northwest to southeast and dissipates into habitat below	Not a drainage feature - access road.
PW281	467049	3802318	No	No	From Google Earth aerials, it appears to be a drainage feature due to road runoff. Runs northwest to southeast and dissipates into habitat below	Not a drainage feature - access road.
PW282	467828	3801840	No	No	Drainage running southwest to northeast eventually draining into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW283	468139	3801655	No	**Yes**	Drainage feature running southwest to northeast along the bottom of a valley eventually connecting to other small drainage features in the northeast which dissipate into adjacent habitat	Sandy with evidence of sheet flow and shelving. Drains all water off of 2 hillsides. Width at OHWM = 2-3 feet; Depth = 1 foot

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW284	468402	3801478	No	No	Braided drainage feature running southwest to northeast eventually connecting to smaller drainage features in the northeast which dissipate into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW285	468719	3801297	No	**Yes**	Drainage feature running southwest to northeast along the bottom of a small valley eventually connecting to other small drainage features in the northeast which dissipate into adjacent habitat	Rocky drainage feature, grass in drainage feature is water stained and wet at the OHWM. Width at OHWM = 2 feet; Depth = 6 inches
PW286	469473	3801021	No	No	Drainage feature running southeast to northwest along the bottom of a small valley eventually dissipating into adjacent habitat	Erosional runoff from adjacent hillsides. Dissipates into adjacent habitat. No OHWM or wetland vegetation.
PW287	469777	3800943	No	**Yes**	Drainage feature running southwest to northeast along the bottom of a small valley eventually connecting to other small drainage features in the northeast which dissipate into adjacent habitat	Drainage feature with very steeply cut banks. Water is present within the channel. Width at OHWM = 2-4 feet; Depth = 1-20 feet
PW288	470677	3801558	No	No	Drainage running west to east eventually dissipating in adjacent habitat near California Aqueduct	Erosional runoff from adjacent hillsides and access roads. Dissipates into adjacent habitat. No OHWM or wetland vegetation.

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW289	470726	3801612	No	No	Drainage running west to east eventually dissipating in adjacent habitat near California Aqueduct	Erosional runoff from adjacent hillsides and access roads. Dissipates into adjacent habitat. No OHWM or wetland vegetation.
PW290	470854	3801743	**Yes**	**Yes**	California Aqueduct	California Aqueduct
PW291	470908	3801798	No	No	Drainage running west to east along the bottom of a small valley eventually dissipating into adjacent habitat	Erosional runoff from the aqueduct/transmission line access road. No OHWM or wetland vegetation
PW292	471012	3801905	No	No	Drainage running northwest to southeast along the bottom of a small valley eventually connecting with PW291 which dissipates into adjacent habitat in the northeast	Erosional runoff from adjacent hillsides. Dissipates into adjacent habitat. No OHWM or wetland vegetation.
PW293	471723	3802629	No	No	From Google Earth aerials, it appears to be a drainage feature running west to east eventually connecting with PW274 which eventually empties around the Mojave River into what appears to be a reservoir	Not a drainage feature - access road.
PW294	471876	3802685	No	No	Drainage feature running west to east eventually connecting with PW274 which eventually empties around the Mojave River in what appears to be a reservoir	Not a drainage feature - access road.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW295	472171	3802153	No	No	Sandy braided drainage feature running west to east eventually connecting with smaller drainage features which dissipate into adjacent habitat in the northeast.	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW296	471205	3801155	**Yes**	**Yes**	California Aqueduct	California Aqueduct
PW297	470936	3800889	No	No	Drainage running southwest to northeast eventually dissipating in adjacent habitat near California Aqueduct	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW298	470721	3800668	No	No	Drainage running southwest to northeast eventually dissipating in adjacent habitat near California Aqueduct	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW299	470565	3800502	No	No	Drainage running southwest to northeast eventually dissipating in adjacent habitat near California Aqueduct	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW300	469813	3799887	No	No	Drainage running north to south off of the mountain eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW301	469636	3799735	No	No	Drainage running north to south off of the mountain eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW302	469388	3799581	No	No	Drainage running north to south off of the mountain eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW303	468893	3799756	No	No	Drainage running northwest to southeast off of the mountain eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW304	468604	3799867	No	No	Drainage running south to north off of the mountains eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW305	468242	3799977	No	No	Drainage running south to north off of the mountains eventually connecting with a larger drainage feature which dissipates in adjacent habitat in the northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW306	468205	3800000	No	No	Braided drainage feature running southwest to northeast eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW307	467390	3800278	No	No	Drainage running south to north eventually connecting with a larger drainage feature (PW284) which dissipates in adjacent habitat in the northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW308	467097	3800366	No	No	Drainage running south to north off of the mountains eventually dissipating into adjacent habitat in the northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW309	467015	3800402	No	No	Drainage running southwest to northeast off of the mountains eventually dissipating into adjacent habitat in the northeast	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW310	466806	3800525	No	No	Small sandy drainage feature running southwest to northeast dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW311	465941	3801179	No	No	Drainage feature running south to north eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW312	466011	3801927	No	No	Sandy braided drainage feature running north to south ending at the railroads and Summit Valley Road	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW313	474589	3802685	No	**Yes**	Braided sandy drainage feature running southwest to northeast dissipating into adjacent habitat	Very large floodplain within flat sandy canyon. No consistent OHWM; Bank to Bank = 400 ± 100 feet; Depth = 1 foot
PW314	477554	3802748	No	No	Western edge of the Mojave River	Western edge of the greater Mojave River floodplain
PW315	477784	3802751	**Yes**	**Yes**	Here the transmission line crosses the Mojave River	Width at OHWM = 84 feet; Depth = 1-3 feet. Vegetation is present and covers less than 1% of the area where the transmission line crosses the river.
PW316	478283	3802766	No	No	Eastern edge of the Mojave River	Eastern edge of the greater Mojave River floodplain

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW317	478985	3802783	No	**Yes**	Drainage running from east to west into a larger drainage feature which drains into adjacent habitat	Sandy drainage feature with evidence of shelving and recent flow. Dissipates into adjacent habitat. Width at OHWM = 1-4 feet; Depth = 7 inches
PW318	479117	3802785	No	No	Drainage running from south to north before heading west into a larger drainage feature which drains into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW319	479352	3802787	No	No	Drainage running from south to north before heading west into a larger drainage feature which drains into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW320	479574	3802793	No	No	Drainage running from east to west into a larger drainage feature which drains into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW321	479908	3802798	No	No	Drainage running south to north before heading west into a larger drainage feature which drains into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW322	480033	3802802	No	No	Drainage running south to north before heading west into a larger drainage feature which drains into adjacent habitat	Erosional, drains access roads at the bottom of a very steep incline. No OHWM or wetland vegetation
PW323	480655	3802818	No	No	Drainage running south to north off mountains into a drainage feature which drains into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW324	481139	3802826	No	No	Drainage running south to north before heading west into a larger drainage feature which drains into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW325	481295	3802820	No	No	Drainage running south to north before heading west into a larger drainage feature which drains toward the Mojave River	Erosional, drains access roads. No OHWM or wetland vegetation
PW326	481479	3802828	No	No	Drainage running southeast to northwest before heading west into a larger drainage feature which drains into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW327	485801	3804204	No	No	Drainage running west to east before heading northeast into a larger drainage feature which dissipates out into habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW328	485989	3804315	No	No	Drainage running northwest to southeast before heading northeast into a larger drainage feature which dissipates out into habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW329	486094	3804374	No	No	Drainage running west to east before heading northeast into a larger drainage feature which dissipates out into habitat	Erosional, drains access roads. No OHWM or wetland vegetation

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW330	486290	3804478	No	No	Drainage running northwest to southeast before heading northeast into a larger drainage feature which dissipates out into adjacent habitat	Erosional, drains access roads. No OHWM or wetland vegetation
PW331	486586	3804642	No	**Yes**	Braided drainage feature running northeast into a larger drainage feature which dissipates out into adjacent habitat	Willows present in small seep-like area under power line. Width at OHWM = 2 feet; Bank to Bank = 15 feet; Depth = 1 inch
PW332	486963	3804853	No	No	Drainage running south to north before heading northeast into a larger drainage feature (PW331) which dissipates out into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW333	488024	3805411	No	**Yes**	Drainage feature running south to north through the mountains before connecting with PW331 which dissipates into adjacent habitat in the northeast	Willows present and other riparian vegetation. Width at OHWM = 14 feet; Depth = 1 inch
PW334	489112	3805997	No	**Yes**	Drainage feature running southeast to northwest through the mountains before connecting with PW331 which dissipates into adjacent habitat in the northeast	Running water, riparian area supporting willows and other riparian vegetation. Upland vegetation just outside narrow stream banks. Width at OHWM = 3 feet; Depth = 1 foot
PW335	490096	3806522	No	No	Drainage running south to north before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW336	490296	3806626	No	No	Drainage running southeast to northwest before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW337	490776	3806888	No	No	Drainage running south to north before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW338	490863	3806934	No	No	Drainage feature area running south to north before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW339	490909	3806960	No	No	Drainage feature area running south to north before dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW340	491342	3807206	No	No	Drainage feature area running southeast to northwest before connecting to a larger drainage feature which dissipates into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW341	491741	3807428	No	No	Drainage feature running south to north along the bottom of a steep valley eventually dissipating into adjacent habitat	Not a drainage feature - OHV trail along the bottom of a canyon
PW342	492033	3807580	No	No	Drainage feature running south to north before connecting to a larger drainage feature eventually dissipating into adjacent habitat	Erosional sheetflow dissipating into adjacent habitat. No OHWM or wetland vegetation.

APPENDIX H Potential Jurisdictional Waters of US Locations along Solar I Proposed Transmission Corridor

Potential Wash #	Location (WGS84 UTM Zone 11S)		Federally Jurisdictional	State Jurisdictional	General Description	Reasoning for Jurisdictional Determinations
	Easting	Northing				
PW343	492108	3807622	No	No	Drainage feature running south to north before connecting to a larger drainage feature eventually dissipating into adjacent habitat	Erosional sheetflow from the surrounding hills, dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW344	492575	3807867	No	**Yes**	Drainage feature running south to north before connecting to a larger drainage feature eventually dissipating into adjacent habitat	Drainage feature within a large canyon. Width at OHWM = 20 feet; Depth = 6 inches
PW345	493327	3808140	No	No	Drainage feature running south to north before dissipating into adjacent habitat	Erosional runoff from Santa Rosa Road, dissipating into adjacent habitat. No OHWM or wetland vegetation.
PW346	494459	3811166	No	**Yes**	Drainage feature running west to east before dissipating into adjacent habitat	Evidence of sheet flow, damp soils, and recent flow. Width at OHWM = 1-2 feet; Depth = 1 inch.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 387: Please discuss potential Project impacts on natural communities listed as rare by the California Department of Fish and Game, and discuss the mitigation that will be implemented to offset Project impacts to these communities.

Response: The potential Project impacts cannot be assessed at this time because a final Project design has not been engineered. While the majority of the alignment is proposed along existing transmission lines with existing access roads, portions of each alternative will require new access roads as part of the project. Impacts to natural communities, and mitigation to offset those impacts, will therefore depend on the transmission line alignment alternative that is ultimately chosen.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 388: Please clarify the report's statement that the closest documented occurrence of Mohave ground squirrel is greater than 5 miles from the Project area.

Response: The statement that Mohave ground squirrel (MGS) was documented greater than five miles from the Project alignment was an error. A segment of the transmission corridor analyzed falls within five miles of a known MGH siting. Surveys were performed along that part of the corridor but did not detect any individuals. Instead, antelope ground squirrels were detected, which may indicate a lack of MGS.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 389: Please provide a copy of the CDFG guidance that waives the requirement for protocol surveys for projects greater than 5 miles from documented Mohave ground squirrel locations.

Response: The protocol survey requirement was not waived by CDFG, nor was there a request to waive the protocol. The first phase of the 3-phase survey protocol was conducted in the Project area where potential MGS were recorded in the vicinity. The first phase of the protocol involves conducting a habitat assessment and presence/absence surveys. Additional protocol-level surveys will be coordinated with CDFG and conducted based on the initial survey results once the final Project design is determined.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 390: Please clarify the need to conduct surveys for the Mohave ground squirrel in the area covered by the West Mojave Plan.

Response: Per the CDFG MGS Survey Guidelines (January 2003), surveys are required if the proposed site has potential habitat and the presence of the species on the project site is unknown, unless the project proponent prefers to assume that the Mohave ground squirrel is present on the Project site and applies for a California Endangered Species Act incidental take permit (Fish and Game Code 2081b) requiring mitigation and compensation.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 391: Please provide sufficiently detailed maps that show:

a. areas where ground disturbance will occur when the Pisgah Substation is expanded.
b. the two new transmission line loops in the vicinity of the Pisgah Substation.
c. a distinction between existing and new right-of-ways.
d. areas where grading will occur.
e. areas where ground disturbance will occur to construct new access road or redevelop existing roads.
f. the location of the transmission line in relation to the Mojave River and any associated riparian vegetation.

Response: **Overview of SES Solar One Interconnection Request (including early interconnection proposal for 275MW):** The following supplemental information is provided in relation to the early interconnection request made by Stirling Energy Systems (SES) to Southern California Edison (SCE). As discussed below, SES requested SCE to review how much latent system capacity is available for use on SCE's existing system prior to completion of the system facilities proposed for interconnection of the 850MW for the SES Solar One Project.

SES Solar One Generation Interconnection Study Overview:
Stirling Energy System, Inc. (SES) applied to the California Independent System Operator (CAISO) for the interconnection of their 850MW Solar One Project to the CAISO Grid at the existing SCE Pisgah Substation 220kV Bus under the terms of SCE's Transmission Owner (TO) Tariff.

SCE prepared a System Impact Study (SIS) dated March 7, 2006, to analyze the impact of the 850MW Project to the SCE Transmission System.
In addition, SCE prepared a Technical Study (TAS I) to evaluate transient stability associated with the interconnection of the 850MW SES Solar One Project.

Subsequent to these two studies, a number of queued ahead generation projects withdrew from the CAISO Interconnection Queue resulting in a need to perform a reassessment of the impacts originally identified in the SIS and the TAS I.
SCE prepared a new Technical Assessment II (TAS II) dated June 13, 2008, to analyze the impact of the 850MW Project to the SCE Transmission System reflecting the withdrawal of previously-queued projects.

The Interconnection Facilities Study dated November 6, 2008, addressed the scope of work and the cost estimate for the construction of all the Interconnection Facilities and System Upgrades required for the interconnection of the 850MW Project.

During the preparation of the several reports discussed above, SES Solar requested SCE to investigate the possibility of interconnection a portion of its 850MW generation to the existing Pisgah Substation and the related 220kV system before the completion of the 500kV upgrades.

In compliance with this request, SCE prepared an LGIP Optional Interconnection Study Report ("Optional Study") to analyze the maximum amount of generation

that could be interconnected to the existing Pisgah 220kV Bus and related 220kV Transmission Lines and transmitted the CAISO on January 2008.

On January 9, 2008, the CAISO issued the Optional Study Report indicating that that SES Solar One Project could be allowed to interconnect up to 275MW generation to the existing Pisgah 220kV Bus and related 220kV Transmission System contingent on the installation of a new Special Protection Scheme to drop the SES Solar One Project's generation under certain contingencies.

The intent of the early interconnection of up to 275MW is that it would be a temporary interconnection until the 500kV upgrades identified in the Interconnection Facilities Study are in service, and the full requested generation output of 850MW could be connected to the upgraded transmission system. When completed, the 500kV upgrades will allow the export of approximately 1,400 MW of additional generating capacity between the Lugo and Pisgah substations. This will accommodate not only all of the power produced by Solar One but other proposed generation facilities.

A second Optional Study Agreement ("Interconnection Optional Study") dated October 12, 2009, detailed the scope of work and cost estimate for the early interconnection of 275MW of the SES Solar One generation to the existing Pisgah Substation 220kV Bus and related 220kV Transmission Lines.

a. Provided as attachment BIO-3 behind this response, is a map that represents the area at the Pisgah Substation where SCE anticipates ground disturbance for the early interconnection of up to 275MW. For reasons discussed above, it is unknown where the substation ground disturbance to support the system facilities required for SES Solar One's full 850MW generation request will occur.

b. The two new transmission line loops are required only to support the full 850MW and not the 275MW early interconnection.

c. It is anticipated that the interconnection facilities necessary to accommodate the 275MW early interconnection will be contained within existing SCE right-of-way. However, SCE will upgrade SCE's existing rights or acquire new rights where necessary based upon the proposed final engineering of the 275MW early interconnection. Please note, however, final engineering has not been performed for the 275MW early interconnection, and is pending the execution of a Large Generator Interconnection Agreement ("LGIA") for the proposed SES Solar One Project. Negotiations for the LGIA are underway.

   For the system facilities required to interconnect SES Solar One's 850MW Project, SCE will review what real estate rights will need to be obtained upon completion of the final siting analysis. Such siting analysis will commence subsequent to the execution of the LGIA.

d. For the 275MW early interconnection, it is anticipated that the majority of grading activities will occur at Pisgah Substation in order to construct the facilities necessary to interconnect Stirling Solar One's generation tie-line as noted on attachment BIO-3. Please note, however, final engineering has not been performed for the 275MW early interconnection and will be performed subsequent to the execution of the LGIA. Additional grading

may be required for other project system elements of the 275MW early interconnection, i.e., the 220kV loop-in to be constructed by SCE and the Optical Protection Ground Wire installation on the Eldorado-Lugo 500kV Transmission Line.

For the system facilities required to interconnect SES Solar One's 850MW Project, SCE will review what real estate rights will need to be obtained upon completion of the final siting analysis. Such final siting analysis will commence subsequent to the execution of the LGIA.

e. For the system facilities required to interconnect SES Solar One's 850MW Project, SCE will review what real estate rights will need to be obtained upon completion of the final siting analysis. Such final siting analysis will commence subsequent to the execution of the LGIA.

f. For the system facilities required to interconnect SES Solar One's 850MW Project, SCE will review what real estate rights will need to be obtained upon completion of the final siting analysis. Such final siting analysis will commence subsequent to the execution of the LGIA.

Please note, in reference to Data Request 391 above, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

SES Solar One Power Plant
CUREs Data Requests, Set Four (No. 378-402)

BIOLOGICAL RESOURCES

Background: ENVIRONMENTAL IMPACTS ASSOCIATED WITH THE LUGO-PISGAH NO. 2 500KV TRANSMISSION LINE AND PISGAH SUBSTATION EXPANSION

The SES Solar One Project requires construction of approximately 67 miles of 500kV transmission line between the existing Pisgah and Lugo substations.[1] In addition, the existing Pisgah Substation would require expansion from approximately 5 acres to approximately 40 acres to accommodate new electrical and communication facilities.[2] Appendix EE of the AFC provides a summary report that describes the environmental resources in these two project areas, as well as their potential environmental impacts. For clarity, we hereafter refer to construction of the new 500kV transmission line and substation upgrades collectively as the "Project," and the associated environmental summary report as the "report."

In 2007 and 2008, URS biologists conducted a habitat assessment to characterize the vegetation within the Project area and to determine potential habitats for sensitive species.[3] The Project area was surveyed by vehicle and on foot.[4] Seventeen native and 3 non-native (or disturbance-related) vegetation types were observed during the surveys, and 10 special-status species were detected.[5] However, the report provides very little information on where these biological resources occurred, including whether any of them were within the Project footprint. It also provides very little information on how the surveys were conducted, including whether established survey guidelines were followed.

Data Requests

378. Please provide a map that depicts the locations of the 20 vegetation types that occur within the Project area and the locations where special-status species were detected, including:

    a. A map at a sufficient scale to enable precise identification of species location in relation to Project features.

    b. Geographic coordinates of the various special-status species that were detected.

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[1] *See* AFC, Appendix EE: Environmental Summary Report for the Proposed Lugo-Pisgah 500kV Transmission Line and Substation Upgrades.
[2] *Id.*
[3] *Id:* p. 13.
[4] *Id.*
[5] *Id.*

379. Please provide information on the abundance of each special-status species that was detected. For the special-status plant species that were detected, please indicate whether each reported occurrence represents an individual plant or multiple plants.

380. Please provide the survey dates. For each date, indicate the portion(s) of the Project area surveyed, the resources surveyed, and the corresponding surveyors.

381. Please indicate whether the surveys adhered to any established survey guidelines. If the answer is yes, please cite the guidelines and indicate whether the surveys deviated from the guidelines in any way.

Background: ASSESSMENT OF POTENTIALLY OCCURRING SPECIAL-STATUS SPECIES AND OTHER SENSITIVE BIOLOGICAL RESOURCES

Table 2 of the report identifies federally listed fish and wildlife species known to occur in San Bernardino County. Table 3 identifies species discussed in the West Mojave Plan that are listed as sensitive by the BLM. Both tables present the author's assessment of each species' potential to occur in the Project area. However, the report does not indicate whether other special-status species may be impacted by the Project (e.g., State of California listed species), and Table 3 omits many of the plant and animal species covered by the West Mojave Plan.[6] These include Emory's crucifixion thorn, Mojave fringe-toed lizard, San Diego horned lizard, burrowing owl, ferruginous hawk, and Le Conte's thrasher (among others).

The report indicates the Project area is "outside of the species' known range" for most of the species considered.[7] Such a statement does not provide a clear assessment of each species' potential to occur in the Project area.[8] Furthermore, California Natural Diversity Database (CNDDB) records directly contradict the report by indicating the Project area is <u>within</u> the range of many of the species considered, not outside of it as indicated by the report.[9] For the southwestern willow flycatcher and arroyo toad, the report indicates the location of designated Critical Habitat in relation to the Project area, but it does not discuss the potential for either species to occur in the Project area.[10]

Data Requests

382. Please provide a list of any other special-status species that may be affected by the Project, provide an assessment of Project impacts on these species, and

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[6] *See* Appendix Y of U.S. Dept. of the Interior, Bureau of Land Management. 2005. Final Environmental Impact Report and Statement for the West Mojave Plan: a habitat conservation plan and California desert conservation area plan amendment. Moreno Valley (CA): U.S. Dept. of the Interior, Bureau of Land Management, California Desert District.
[7] *See* AFC, Appendix EE: Tables 2 and 3.
[8] E.g., Range expansion is not uncommon when new populations of a plant species are detected.
[9] California Natural Diversity Database. 2009. Rarefind [computer program]. Version 3.1.0. Oct 3, 2009. Sacramento (CA): Wildlife & Habitat Data Analysis Branch. California Department of Fish and Game.
[10] AFC, Appendix EE: Table 2.

discuss whether any additional species-specific mitigation will be implemented to offset Project impacts.

383. Please indicate why numerous species discussed in the West Mojave Plan that are listed as sensitive by the BLM were omitted from Table 3 of the report.

384. Please provide justification for, and cite the sources used, to conclude the Project area is outside the known range of the following species:

   a. Least Bell's vireo
   b. Yellow-billed cuckoo
   c. California leaf-nosed bat
   d. Pallid bat
   e. Spotted bat
   f. Townsend's big-eared bat
   g. Western mastiff bat
   h. Mojave tarplant

385. Please discuss the potential for the following species to occur in the Project area:

   a. Southwestern willow flycatcher
   b. Arroyo toad

386. Please provide information on aquatic resources in the Project area and discuss potential Project impacts on these resources (including number of acres potentially impacted).

387. Please discuss potential Project impacts on natural communities listed as rare by the California Department of Fish and Game, and discuss the mitigation that will be implemented to offset Project impacts to these communities.

Background: MOHAVE GROUND SQUIRREL

The report states "[t]he closest documented location of the Mojave ground squirrel is greater than five miles from the project area which precludes the requirement for protocol surveys for this species."[11] The CNDDB has several records of Mohave ground squirrel occurrence within 5 miles of the Project area (Figure 1). Although the records are relatively old, the Mohave ground squirrel is presumed extant at these locations.[12]

[11] AFC, Appendix EE: p. 19.
[12] California Natural Diversity Database. 2009. Rarefind [computer program]. Version 3.1.0. Oct 3, 2009. Sacramento (CA): Wildlife & Habitat Data Analysis Branch. California Department of Fish and Game.

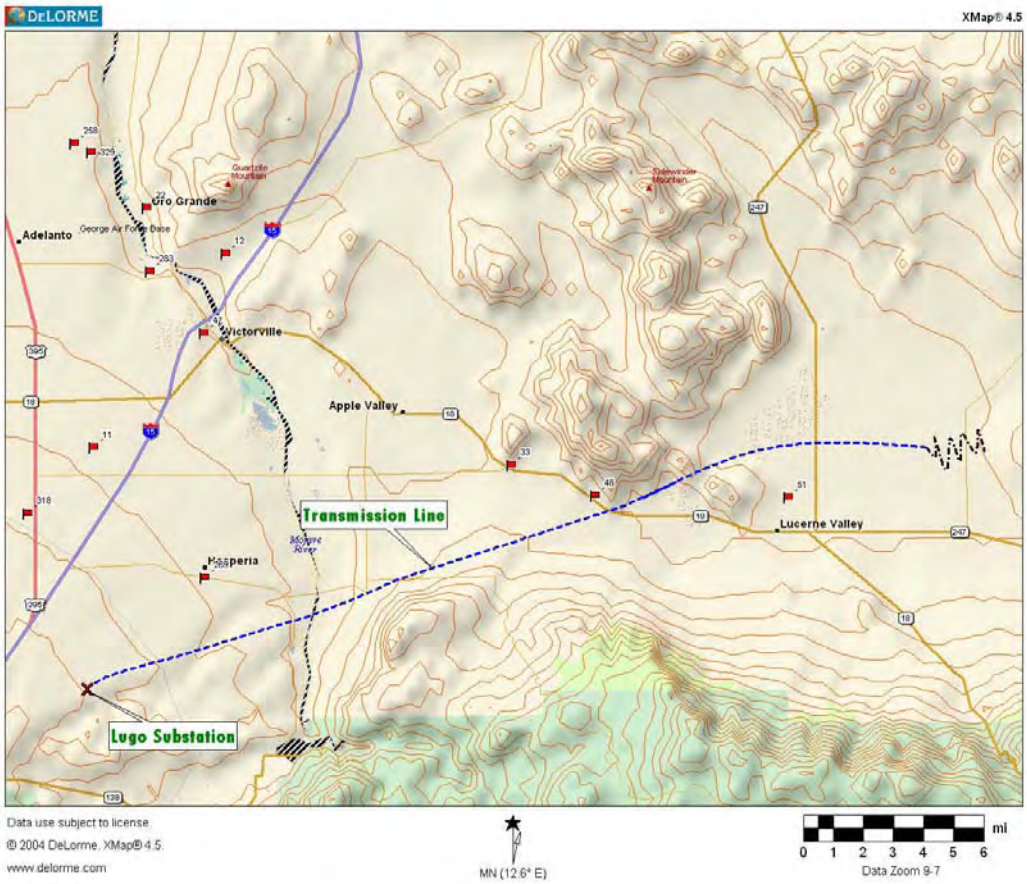

Figure 1. Documented Mohave ground squirrel occurrences in the vicinity of the Project area. Numbers with flags correspond to CNDDB occurrence numbers.

Data Requests

388. Please clarify the report's statement that the closest documented occurrence of Mohave ground squirrel is greater than 5 miles from the Project area.

389. Please provide a copy of the CDFG guidance that waives the requirement for protocol surveys for projects greater than 5 miles from documented Mohave ground squirrel locations.

390. Please clarify the need to conduct surveys for the Mohave ground squirrel in the area covered by the West Mojave Plan.

Background: PROJECT DESCRIPTION AND ANALYSIS OF ENVIRONMENTAL IMPACTS

The Project would require: (a) expansion of the Pisgah Substation;[13] (b) two new transmission line loops in the vicinity of the existing Pisgah Substation;[14] (c) 9.8 miles of new right-of-way;[15] and, (d) grading and construction of new roads.[16] Although the report indicates more detailed environmental analysis of the proposed project will be completed in the future,[17] it lacks sufficient information to attain even a general understanding of environmental impacts associated with Project features.

Data Requests

391. Please provide sufficiently detailed maps that show:
    a. areas where ground disturbance will occur when the Pisgah Substation is expanded.
    b. the two new transmission line loops in the vicinity of the Pisgah Substation.
    c. a distinction between existing and new right-of-ways.
    d. areas where grading will occur.
    e. areas where ground disturbance will occur to construct new access road or redevelop existing roads.
    f. the location of the transmission line in relation to the Mojave River and any associated riparian vegetation.
392. Please provide Plat Maps 1 through 58 referenced in the report.[18]
393. Please discuss the status of additional environmental analysis conducted for the Project and provide any environmental documents that have been prepared for the new transmission lines and substation upgrades (i.e., besides Appendix EE).

Background: PROJECT COMPLIANCE WITH THE WEST MOJAVE PLAN

The Project is within the West Mojave Plan (Plan) area. However, the report does not provide sufficient information to determine whether the Project will comply with the Plan's requirements. The Plan establishes a "one percent" threshold for new ground disturbance within the Habitat Conservation Area, which includes the DWMAs (Desert Wildlife Management Areas) and the conservation areas bearing the name of the species

[13] AFC, Appendix EE: p. 5.
[14] *Id.*
[15] AFC, Appendix EE: p. 6.
[16] *Id.*
[17] AFC, Appendix EE: p. 5.
[18] *Id.*

being protected (e.g., Mojave Monkeyflower Conservation Area).[19] The Plan suggests the Pisgah ACEC (Area Critical Environmental Concern) is also subject to the 1% limitation on new allowable ground disturbance.[20] The Project will impact the Ord-Rodman DWMA, the Pisgah ACEC, and the Upper Johnson Valley Yucca Rings ACEC.[21] The report does not specify the extent of impacts (i.e., acreage and linear distance) to the Ord-Rodman DWMA, and with respect to the Upper Johnson Valley Yucca Rings ACEC, it states the existing right-of-way corridor "is presumed to be included in the ACEC management plan."[22]

In addition to meeting the cumulative limitation on ground disturbance, activities on lands covered by the Plan are required to a pay a mitigation fee.[23] Mitigation proposed in the report does not specifically address this requirement.

Under the Plan, incidental take of white-margined beardtongue is limited to 50 acres of occupied and potential habitat.[24] In addition, take as a result of utility construction is only allowed where avoidance is infeasible.[25] It's not clear that the Project will comply with these requirements of the Plan.

It appears that the Project transmission line will go directly through the Upper Johnson Valley Yucca Rings ACEC.[26] The report does not discuss the impacts of the Project on protected resources within this ACEC, or whether the Project will comply with the California Desert Conservation Area Plan Amendment that protects the ACEC.

Data Requests

394. Please clarify the amount of new ground disturbance that will occur within the Pisgah ACEC.

395. Please indicate how much ground disturbance will occur in the Ord-Rodman DWMA and clarify whether any Project activities will occur in the Juniper Flats ACEC.

396. Please discuss the Project's contribution to the 1% cumulative limitation on new ground disturbance.

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[19] *See* p. 2-32 of U.S. Dept. of the Interior, Bureau of Land Management. 2005. Final Environmental Impact Report and Statement for the West Mojave Plan: a habitat conservation plan and California desert conservation area plan amendment. Moreno Valley (CA): U.S. Dept. of the Interior, Bureau of Land Management, California Desert District.
[20] *See* Appendix D of *Id.*
[21] AFC, Appendix EE: p. 31.
[22] *Id.*
[23] *See* p. 2-34 of U.S. Dept. of the Interior, Bureau of Land Management. 2005. Final Environmental Impact Report and Statement for the West Mojave Plan: a habitat conservation plan and California desert conservation area plan amendment. Moreno Valley (CA): U.S. Dept. of the Interior, Bureau of Land Management, California Desert District.
[24] *See* p. 2-116 of *Id.*
[25] *See* p. 4-79 of *Id.*
[26] AFC, Appendix EE: Figure 7.

397. Please indicate the mitigation fee that will be provided for Project impacts to areas covered by the Plan and demonstrate that the compensation ratios used comply with provisions of the Plan.

398. Please provide additional information on potential Project impacts to the white-margined beardtongue. Specifically, please

   a. discuss the anticipated level of take on the species and its habitat.

   b. provide the amount of incidental take that has already occurred under the Plan.

   c. discuss the avoidance measures that have been (or will be) implemented.

399. Please discuss Project impacts on the Upper Johnson Valley Yucca Rings ACEC and the Project's compliance with the California Desert Conservation Area Plan Amendment that protects it.

400. Please provide a definitive statement on whether the right-of-way corridor is included in the Upper Johnson Valley Yucca Rings ACEC Management Plan and discuss whether the Project will adhere to the conservation strategy of the Management Plan.

401. Please clarify whether an existing transmission line currently passes through the Upper Johnson Valley Yucca Rings ACEC.

Background: ELECTROCUTION AND COLLISION HAZARDS TO BIRDS

The Project transmission line will present an electrocution and collision hazard to raptors and other birds.[27] The report indicates design and construction standards such as those outlined by the Avian Power Line Interaction Committee (APLIC) would minimize the risk of bird electrocution.[28] However, mitigation measures proposed in the report do not include raptor safe transmission lines, nor does the report specify whether the Project will actually adhere to APLIC standards. The West Mojave Plan requires raptor-safe electrical distribution lines for all new construction.[29]

Data Request

402. Please clarify whether the Project will adhere to the guidelines established by APLIC.

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[27] AFC, Appendix EE: p. 21.
[28] *Id.*
[29] *See* Table 2-1 of U.S. Dept. of the Interior, Bureau of Land Management. 2005. Final Environmental Impact Report and Statement for the West Mojave Plan: a habitat conservation plan and California desert conservation area plan amendment. Moreno Valley (CA): U.S. Dept. of the Interior, Bureau of Land Management, California Desert District.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 392: Please provide Plate Maps 1 through 58 referenced in the report.

Response: Forty-four (44) Plate Maps are provided as attachment BIO-1, located behind the response to Data Request 378. Referencing Plate Maps 45-58 appears to be an error.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 393: Please discuss the status of additional environmental analysis conducted for the Project and provide any environmental documents that have been prepared for the new transmission lines and substation upgrades (i.e., besides Appendix EE).

Response: SCE has stated that only existing information (i.e., Appendix EE) has been reviewed thus far. SCE anticipates commencing thorough environmental reviews upon execution of the LGIA. A detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 394: Please clarify the amount of new ground disturbance that will occur within the Pisgah ACEC.

Response: According to SCE, the expansion of Pisgah Substation as necessary to integrate SES Solar One's generation tie-line to facilitate SES' early interconnection of up to 275MW is not located in, and is not expected to impact the Pisgah ACEC. Please note, however, final engineering has not been performed for the 275MW early interconnection and is pending the execution of a LGIA.

Please note, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 395: Please indicate how much ground disturbance will occur in the Ord-Rodman DWMA and clarify whether any Project activities will occur in the Juniper Flats ACEC.

Response: According to SCE, the telecommunication system proposed for the early 275MW interconnection includes the installation of Optical Protection Ground Wire on the existing Eldorado-Lugo 500 kV Transmission Line. It is estimated that approximately 70 lattice steel towers located on the Eldorado-Lugo 500kV Transmission Line will have to be strengthened in order to accommodate the addition of the Optical Protection Ground Wire. Approximately 17 miles of the Eldorado-Lugo 500kV Transmission Line crosses the Ord-Rodman DWMA. Also about 0.5 miles of the Eldorado-Lugo 500kV Transmission Line crosses the Juniper Flats ACEC. Strengthening towers and installation of the Optical Protection Ground Wire in these areas may result in some temporary ground disturbance. In addition, SCE anticipates installing a repeater station shelter for the Optical Protection Ground Wire, the likely size of which could be 15' x 20', within the Eldorado-Lugo 500kV Transmission Line right-of-way. This repeater station shelter will likely require a distribution power connection that could involve the installation of several wood distribution poles. The repeater station and distribution poles will involve minimal permanent ground disturbance in addition to temporary ground disturbance during construction. However, because final engineering has not yet been completed, the exact location for these facilities has not been determined.

Please note, however, final engineering will not be performed until after the execution of a LGIA. As a result, SCE has yet to determine which towers on the Eldorado-Lugo 500kV Transmission Line will need to be strengthened to accommodate the installation of the Optical Protection Ground Wire.

In addition, please note, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 396: Please discuss the Project's contribution to the 1% cumulative limitation on new ground disturbance.

Response: As previously discussed in Question 395, the telecommunication system proposed for the 275MW interconnection includes the installation of Optical Protection Ground Wire on the existing Eldorado-Lugo 500 kV Transmission Line. It is estimated that approximately 70 lattice steel towers located on the Eldorado-Lugo 500kV will have to be strengthened to accommodate the Optical Protection Ground Wire. Strengthening towers in these areas may result in some temporary ground disturbance. In addition, as also previously discussed in Question 395, SCE anticipates installing a repeater station shelter for the Optical Protection Ground Wire, the likely size of which could be 15' x 20', within the Eldorado-Lugo 500kV Transmission Line right-of-way. This repeater station shelter will likely require a distribution power connection that could involve the installation of several wood distribution poles. The repeater station and distribution poles will involve minimal permanent ground disturbance in addition to temporary ground disturbance during construction. However, because final engineering has not yet been completed, the exact location for these facilities has not been determined.

Please note, however, final engineering will not be performed until the execution of the LGIA. As a result, SCE has yet to determine which towers on the Eldorado-Lugo 500kV Transmission Line will need to be strengthened. As engineering has not begun on the early 275MW interconnection project, it is not known the location of or how much ground disturbance will be caused by strengthening the Eldorado-Lugo Transmission Line towers. Mitigation measures will be reviewed upon completion of additional engineering.

In addition, please note, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 397: Please indicate the mitigation fee that will be provided for Project impacts to areas covered by the Plan and demonstrate that the compensation ratios used comply with provisions of the Plan.

Response: SCE has stated that because engineering has not begun on the early interconnection 275 MW project, it is not known the location of or how much ground will be disturbed by strengthening the Eldorado-Lugo Transmission Line towers which may cause a need for mitigation measures.

Please note, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 398: Please provide additional information on potential Project impacts to the white-margined beardtongue. Specifically, please

a. discuss the anticipated level of take on the species and its habitat.
b. provide the amount of incidental take that has already occurred under the Plan.
c. discuss the avoidance measures that have been (or will be) implemented.

Response: According to SCE, the existing Eldorado-Lugo 500 kV Transmission Line crosses white-margined beardtongue habitat identified in the California Natural Diversity Database north of the Pisgah Substation. However, this section of the Eldorado-Lugo 500 kV transmission line is not anticipated to be impacted by the 275MW early interconnection project.

Please note, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 399: Please discuss Project impacts on the Upper Johnson Valley Yucca Rings ACEC and the Project's compliance with the California Desert Conservation Area Plan Amendment that protects it.

Response: According to SCE, the 275MW early interconnection project does not cross the Upper Johnson Valley Yucca Rings ACEC and therefore no impact will occur.

Please note, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 400: Please provide a definitive statement on whether the right-of-way corridor is included in the Upper Johnson Valley Yucca Rings ACEC Management Plan and discuss whether the Project will adhere to the conservation strategy of the Management Plan.

Response: According to SCE, the 275MW early interconnection project does not cross the Upper Johnson Valley Yucca Rings ACEC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 401: Please clarify whether an existing transmission line currently passes through the Upper Johnson Valley Yucca Rings ACEC.

Response: SCE has stated that the existing SCE Pisgah – Lugo #2 220 kV transmission line passes through the Upper Johnson Valley Yucca Rings ACEC. This line is not included in the 275MW early connection project.

Please note, a detailed assessment of the environmental impacts and requirements for mitigation associated with the substation and transmission line upgrades associated with the 850MW interconnection is expected to be included in the CPCN application that will be submitted by SCE to the CPUC.

TECHNICAL AREA: BIOLOGICAL RESOURCES

Data Request 402: Please clarify whether the Project will adhere to the guidelines established by APLIC.

Response: As previously noted, SCE has not yet commenced final engineering for the early 275 MW interconnection facilities or the full 850 MW interconnection facilities. However, SCE, which is a member of the Edison Electric Institute's Avian Power Line Interaction Committee (APLIC), anticipates its design will adhere, where appropriate and feasible, to APLIC's ***Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006.***

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA
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APPLICATION FOR CERTIFICATION
For the SES SOLAR ONE PROJECT

Docket No. 08-AFC-13

PROOF OF SERVICE
(Revised 11/5/09)

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DECLARATION OF SERVICE

I, Corinne Lytle, declare that on December 2, 2009, I served and filed copies of the attached, Applicant's Responses to CURE Data Requests Set Four, Data Requests 378-402. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: **[www.energy.ca.gov/sitingcases/solarone]**.

The documents have been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(***Check all that Apply***)

FOR SERVICE TO ALL OTHER PARTIES:

_____ sent electronically to all email addresses on the Proof of Service list;

_____ by personal delivery or by depositing in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

_____ sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (***preferred method***);

OR

_____ depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 08-AFC-13
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Original Signed By

Corinne Lytle