



September 10, 2010

DOCKET	
08-AFC-13	
DATE	<u>SEP 10 2010</u>
RECD.	<u>SEP 10 2010</u>

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

RE: Calico Solar (formerly Solar One) Project (08-AFC-13)
Applicant's Submittal of Updated Reduced Project Boundary Scenarios 5.5 and 6
Information

Dear Mr. Meyer:

Tessera Solar hereby submits updated information regarding Reduced Project Boundary Scenarios 5.5 and 6. Enclosed are the following figures:

- Scenarios 5.5 and 6 Desert Tortoise Sightings and Desert Tortoise Burrow Location Figures with BLM Designated Routes (base maps)
- Scenarios 5.5 and 6 SunCatcher Layout Figures
- Scenarios 5.5 and 6 Hydrogen Compressor Layout Figures

The enclosed Scenario 6 base maps include two changes from the versions docketed on September 8, 2010: 1) desert tortoise habitat is divided between 1:1 and 1;3 mitigation areas; and 2) BLM Designated Routes are now shown.

The boundaries of Scenario 5.5 were determined as follows:

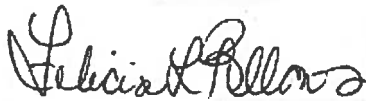
URS determined the new line for the Scenario 5.5 boundary in an effort to protect the largest number of tortoise and burrows possible while providing maximum acreage and MW's for the Project. The boundary was discussed with the BLM, CDFG and USFWS.

Because the triangle in Section 9 supports a high concentration of Desert Tortoise and Desert Tortoise burrows and is adjacent to the Pisgah ACEC, it was kept out of the proposed Scenario

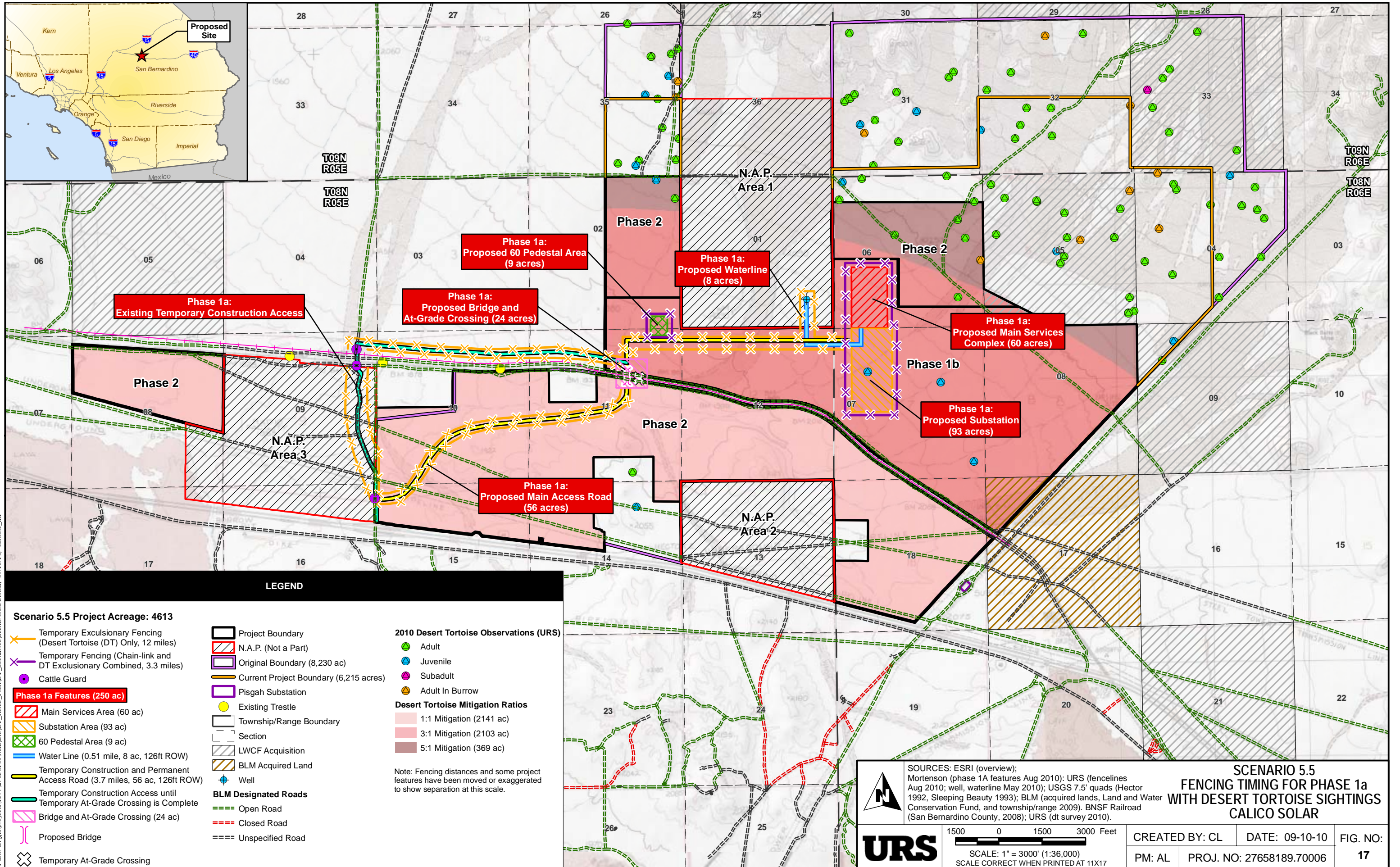
5.5 boundary to minimize additional edge effects on Desert Tortoise in this area. The triangle in Section 8 was added back to the Project boundary because there were no Desert Tortoise and much fewer burrows in this area. To make up for adding Section 8 back into the Project boundary, 60 acres (equal to the acreage of the triangle in section 8) were removed from Section 6 by moving the northern boundary of Section 6 further south. In addition, more burrows could be avoided by moving the boundary south in Section 6 instead of creating a new boundary in a southeastern, diagonal direction through Section 5, and this boundary also minimized the level of edge effects on Desert Tortoise in the newly conserved area.

I certify under penalty of perjury that the foregoing is true, correct, and complete to the best of my knowledge.

Sincerely,

A handwritten signature in black ink, appearing to read "Felicia L. Bellows". The signature is written in a cursive style with a large initial "F".

Felicia L. Bellows
Vice President of Development



Scenario 5.5 Project Acreage: 4613

- Temporary Exclusionary Fencing (Desert Tortoise (DT) Only, 12 miles)
- Temporary Fencing (Chain-link and DT Exclusionary Combined, 3.3 miles)
- Cattle Guard
- Phase 1a Features (250 ac)**
- Main Services Area (60 ac)
- Substation Area (93 ac)
- 60 Pedestal Area (9 ac)
- Water Line (0.51 mile, 8 ac, 126ft ROW)
- Temporary Construction and Permanent Access Road (3.7 miles, 56 ac, 126ft ROW)
- Temporary Construction Access until Temporary At-Grade Crossing is Complete
- Bridge and At-Grade Crossing (24 ac)
- Proposed Bridge
- Temporary At-Grade Crossing

- Project Boundary
- N.A.P. (Not a Part)
- Original Boundary (8,230 ac)
- Current Project Boundary (6,215 acres)
- Pisgah Substation
- Existing Trestle
- Township/Range Boundary
- Section
- LWCF Acquisition
- BLM Acquired Land
- Well
- BLM Designated Roads**
- Open Road
- Closed Road
- Unspecified Road

2010 Desert Tortoise Observations (URS)

- Adult
- Juvenile
- Subadult
- Adult In Burrow

Desert Tortoise Mitigation Ratios

- 1:1 Mitigation (2141 ac)
- 3:1 Mitigation (2103 ac)
- 5:1 Mitigation (369 ac)

Note: Fencing distances and some project features have been moved or exaggerated to show separation at this scale.

SCENARIO 5.5 FENCING TIMING FOR PHASE 1a WITH DESERT TORTOISE SIGHTINGS CALICO SOLAR

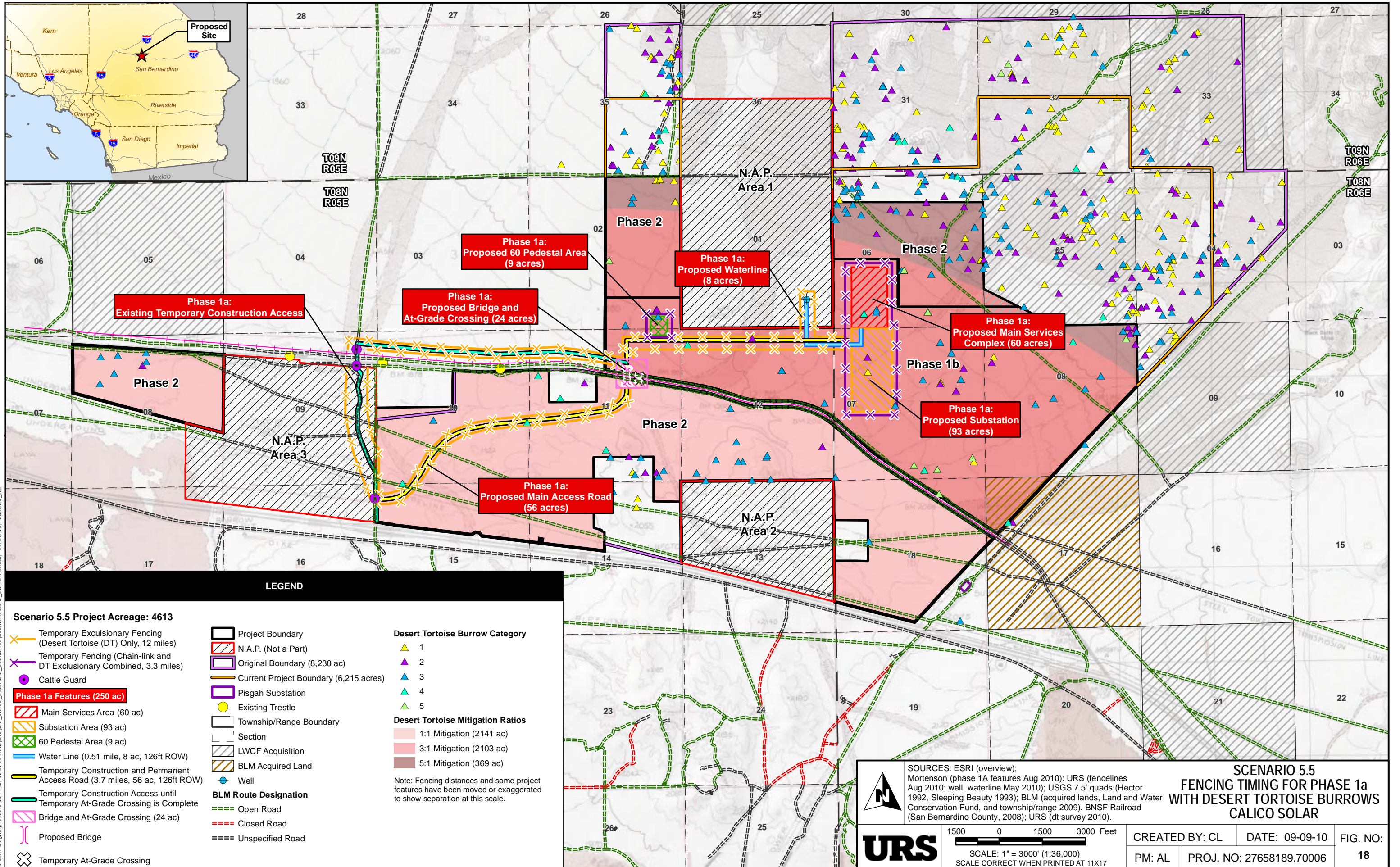
SOURCES: ESRI (overview); Mortenson (phase 1A features Aug 2010); URS (fencelines Aug 2010; well, waterline May 2010); USGS 7.5' quads (Hector 1992, Sleeping Beauty 1993); BLM (acquired lands, Land and Water Conservation Fund, and township/range 2009). BNSF Railroad (San Bernardino County, 2008); URS (dt survey 2010).

UR

1500 0 1500 3000 Feet
SCALE: 1" = 3000' (1:36,000)
SCALE CORRECT WHEN PRINTED AT 11X17

CREATED BY: CL	DATE: 09-10-10	FIG. NO:
PM: AL	PROJ. NO: 27658189.70006	17

Path: G:\gis\projects\157726581\00\mxd\Bio\DT_Reloc_Plan\DT_Scenarios\Scenario5.5C.mxd_09/10/10_camilite_lil



Scenario 5.5 Project Acreage: 4613

- Orange line with 'X' markers: Temporary Exclusionary Fencing (Desert Tortoise (DT) Only, 12 miles)
- Purple line with 'X' markers: Temporary Fencing (Chain-link and DT Exclusionary Combined, 3.3 miles)
- Purple circle: Cattle Guard
- Phase 1a Features (250 ac)**
 - Red hatched box: Main Services Area (60 ac)
 - Orange hatched box: Substation Area (93 ac)
 - Green hatched box: 60 Pedestal Area (9 ac)
 - Blue line: Water Line (0.51 mile, 8 ac, 126ft ROW)
 - Yellow line: Temporary Construction and Permanent Access Road (3.7 miles, 56 ac, 126ft ROW)
 - Green line: Temporary Construction Access until Temporary At-Grade Crossing is Complete
 - Pink line: Bridge and At-Grade Crossing (24 ac)
 - Pink line with 'X' markers: Proposed Bridge
 - Black line with 'X' markers: Temporary At-Grade Crossing

- Black outline: Project Boundary
- Red outline: N.A.P. (Not a Part)
- Purple outline: Original Boundary (8,230 ac)
- Yellow outline: Current Project Boundary (6,215 acres)
- Purple outline: Pisgah Substation
- Yellow circle: Existing Trestle
- Black outline: Township/Range Boundary
- Grey outline: Section
- Grey outline: LWCF Acquisition
- Orange outline: BLM Acquired Land
- Blue circle with cross: Well
- BLM Route Designation**
 - Green dashed line: Open Road
 - Red dashed line: Closed Road
 - Black dashed line: Unspecified Road

Desert Tortoise Burrow Category

- Yellow triangle: 1
- Purple triangle: 2
- Blue triangle: 3
- Green triangle: 4
- Light green triangle: 5

Desert Tortoise Mitigation Ratios

- Light pink box: 1:1 Mitigation (2141 ac)
- Medium pink box: 3:1 Mitigation (2103 ac)
- Dark pink box: 5:1 Mitigation (369 ac)

Note: Fencing distances and some project features have been moved or exaggerated to show separation at this scale.

SCENARIO 5.5 FENCING TIMING FOR PHASE 1a WITH DESERT TORTOISE BURROWS CALICO SOLAR

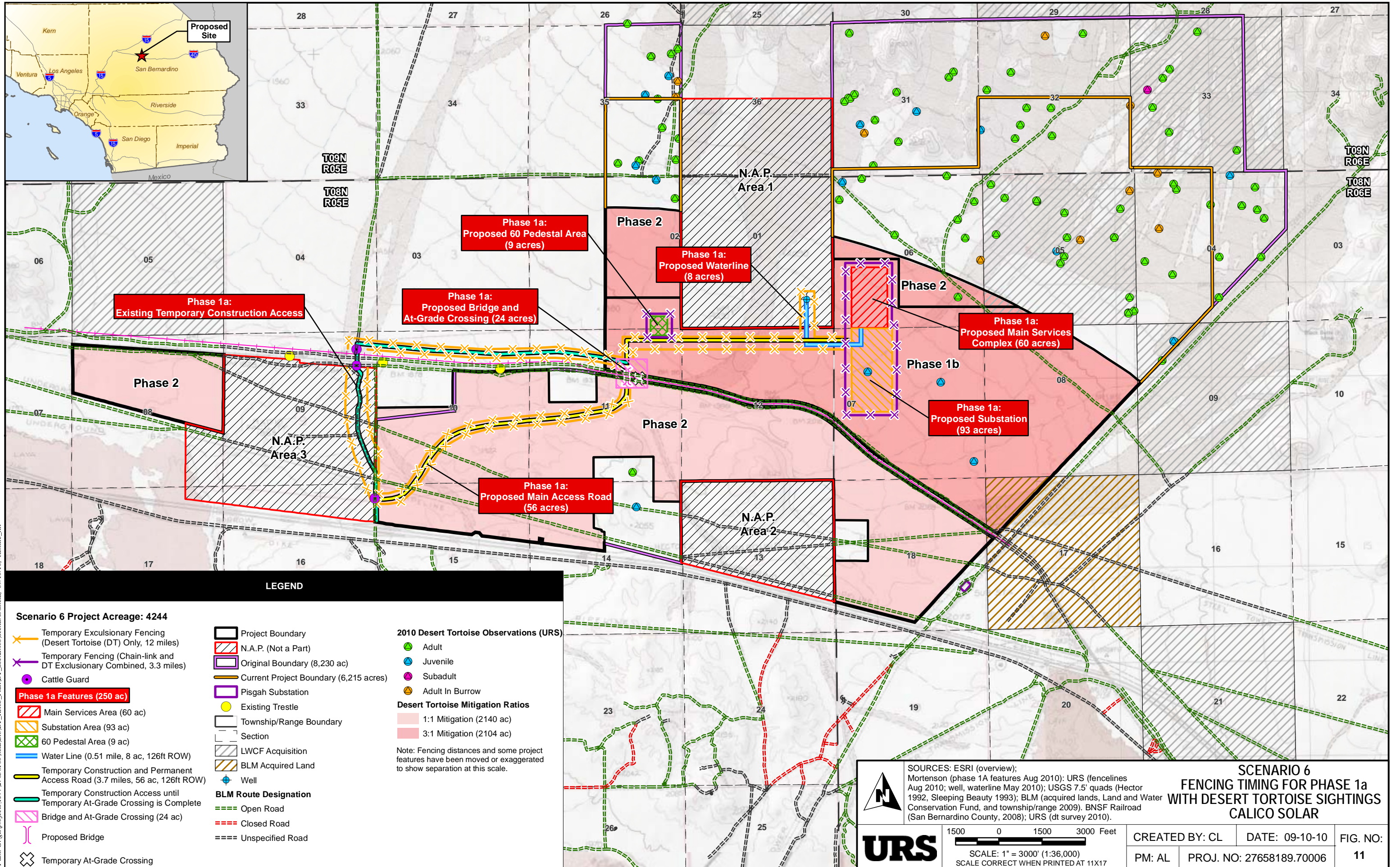
SOURCES: ESRI (overview); Mortenson (phase 1A features Aug 2010); URS (fencelines Aug 2010; well, waterline May 2010); USGS 7.5' quads (Hector 1992, Sleeping Beauty 1993); BLM (acquired lands, Land and Water Conservation Fund, and township/range 2009). BNSF Railroad (San Bernardino County, 2008); URS (dt survey 2010).

UR

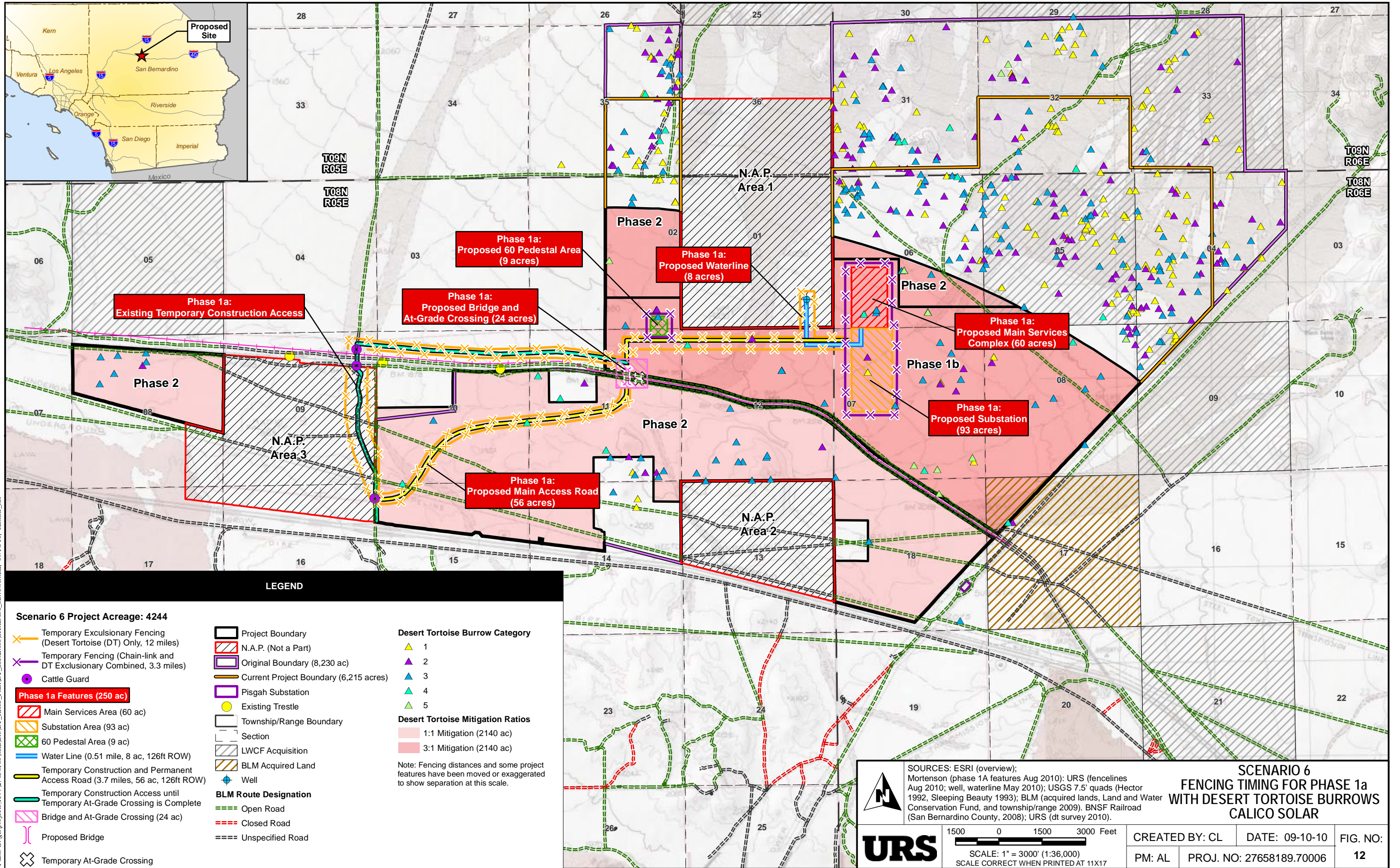
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SCALE CORRECT WHEN PRINTED AT 11X17

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Path: G:\gis\projects\1577276581\00\mxd\Bio\DT_Reloc_Plan\DT_Scenarios\Scenario6.mxd, 09/10/10, camille_bill



Path: G:\gis\projects\1577276581\00\mxd\Bio\DT_Reloc_Plan\DT_Scenarios\Scenario6_burrows.mxd, 09/10/10, camille_hill

Scenario 6 Project Acreage: 4244

- Orange line with 'x' markers: Temporary Exclosureary Fencing (Desert Tortoise (DT) Only, 12 miles)
- Purple line with 'x' markers: Temporary Fencing (Chain-link and DT Exclusionary Combined, 3.3 miles)
- Purple circle: Cattle Guard
- Phase 1a Features (250 ac)**
- Red hatched box: Main Services Area (60 ac)
- Orange hatched box: Substation Area (93 ac)
- Green hatched box: 60 Pedestal Area (9 ac)
- Blue line: Water Line (0.51 mile, 8 ac, 126ft ROW)
- Yellow line: Temporary Construction and Permanent Access Road (3.7 miles, 56 ac, 126ft ROW)
- Green line: Temporary Construction Access until Temporary At-Grade Crossing is Complete
- Pink hatched box: Bridge and At-Grade Crossing (24 ac)
- Pink line: Proposed Bridge
- Black 'x' in a square: Temporary At-Grade Crossing

- Black outline: Project Boundary
- Red hatched box: N.A.P. (Not a Part)
- Purple outline: Original Boundary (8,230 ac)
- Orange outline: Current Project Boundary (6,215 acres)
- Purple outline: Pisgah Substation
- Yellow circle: Existing Trestle
- Black dashed line: Township/Range Boundary
- Black dashed line: Section
- Black dashed line: LWCF Acquisition
- Orange hatched box: BLM Acquired Land
- Blue circle with cross: Well
- BLM Route Designation**
- Green dashed line: Open Road
- Red dashed line: Closed Road
- Black dashed line: Unspecified Road


Desert Tortoise Burrow Category

- Yellow triangle: 1
- Purple triangle: 2
- Blue triangle: 3
- Green triangle: 4
- Light green triangle: 5

Desert Tortoise Mitigation Ratios

- Light pink box: 1:1 Mitigation (2140 ac)
- Dark pink box: 3:1 Mitigation (2140 ac)

Note: Fencing distances and some project features have been moved or exaggerated to show separation at this scale.



URS

SOURCES: ESRI (overview); Mortenson (phase 1A features Aug 2010); URS (fencelines Aug 2010; well, waterline May 2010); USGS 7.5' quads (Hector 1992, Sleeping Beauty 1993); BLM (acquired lands, Land and Water Conservation Fund, and township/range 2009). BNSF Railroad (San Bernardino County, 2008); URS (dt survey 2010).

SCENARIO 6
FENCING TIMING FOR PHASE 1a
WITH DESERT TORTOISE BURROWS
CALICO SOLAR

1500 0 1500 3000 Feet

SCALE: 1" = 3000' (1:36,000)

SCALE CORRECT WHEN PRINTED AT 11X17

CREATED BY: CL DATE: 09-10-10 FIG. NO: 12

PM: AL PROJ. NO: 27658189.70006



Westwood

Westwood Professional Services, Inc.
7699 Anagram Drive
Eden Prairie, MN 55344

PHONE 952-937-5150
FAX 952-937-5822
TOLL FREE 1-888-937-5150

www.westwoodps.com

Designed: ADC
Checked: DDB
Drawn: ADC

Record Drawing by/date:

Revisions:
DATE DESCRIPTION

Prepared for:



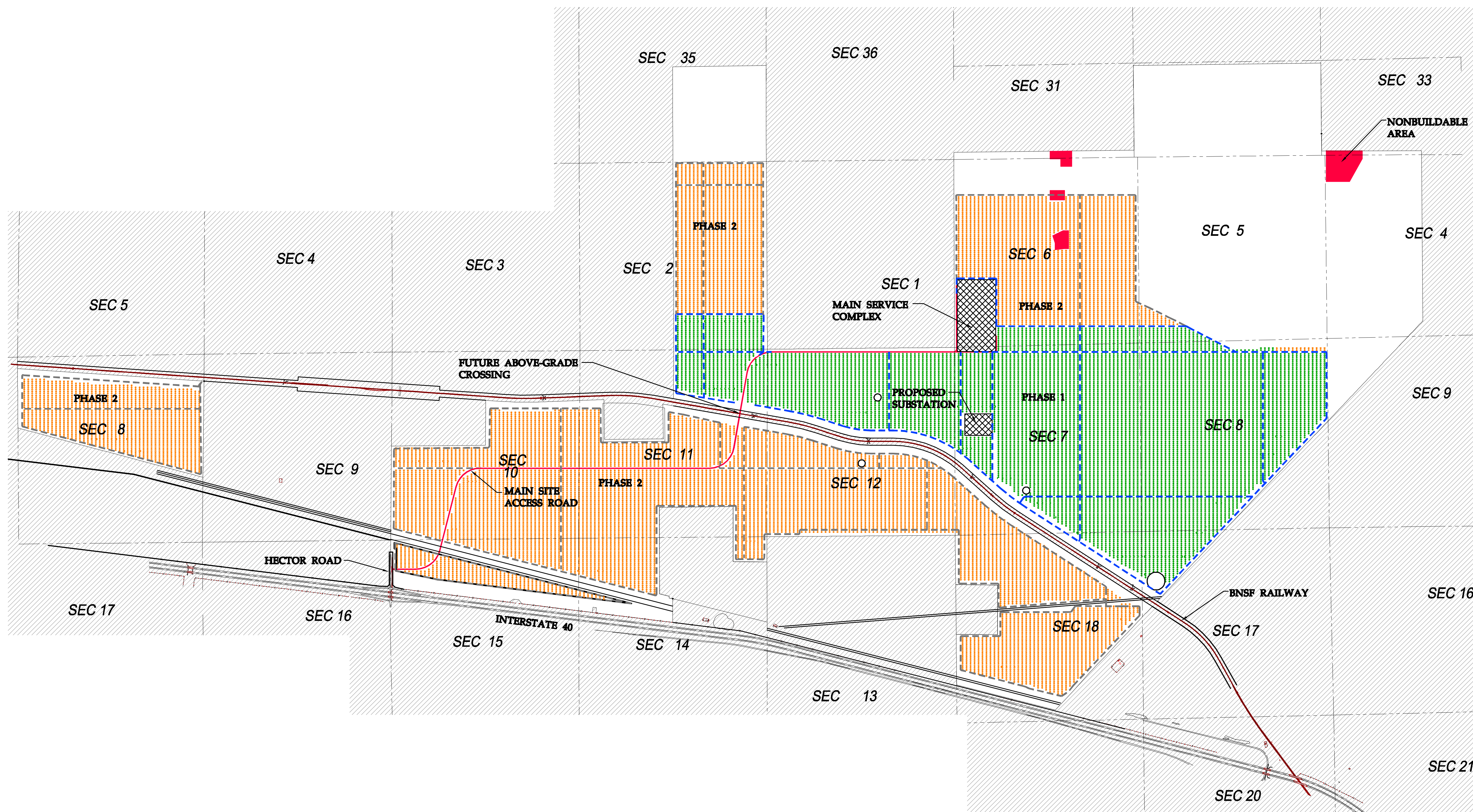
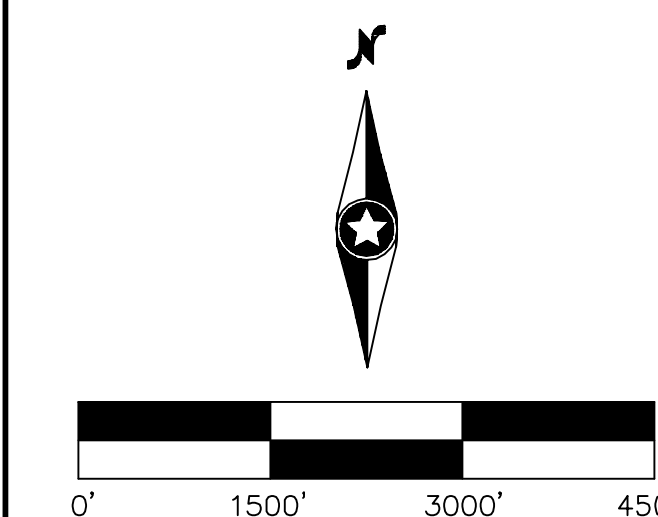
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- SUNCATCHER ARRAY-PHASE 1
- SUNCATCHER ARRAY-PHASE 2
- PROPOSED PROJECT BOUNDARY - NAP
- PROPOSED MAIN SITE ACCESS ROAD
- PROPOSED ACCESS ROAD-PHASE 1
- PROPOSED ACCESS ROAD-PHASE 2

PROJECT MW

Phase 1 = 264.4 MW
Phase 2 = 399.1 MW

Total = 663.5 MW

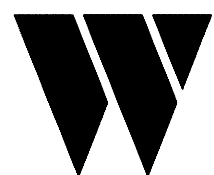


Calico Solar
San Bernardino County,
California

Solar Layout -
Scenario 5.5

NOT FOR CONSTRUCTION

Date: 09/10/10
Sheet: 1 OF 1



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Revisions:

#	DATE	DESCRIPTION

Prepared for:

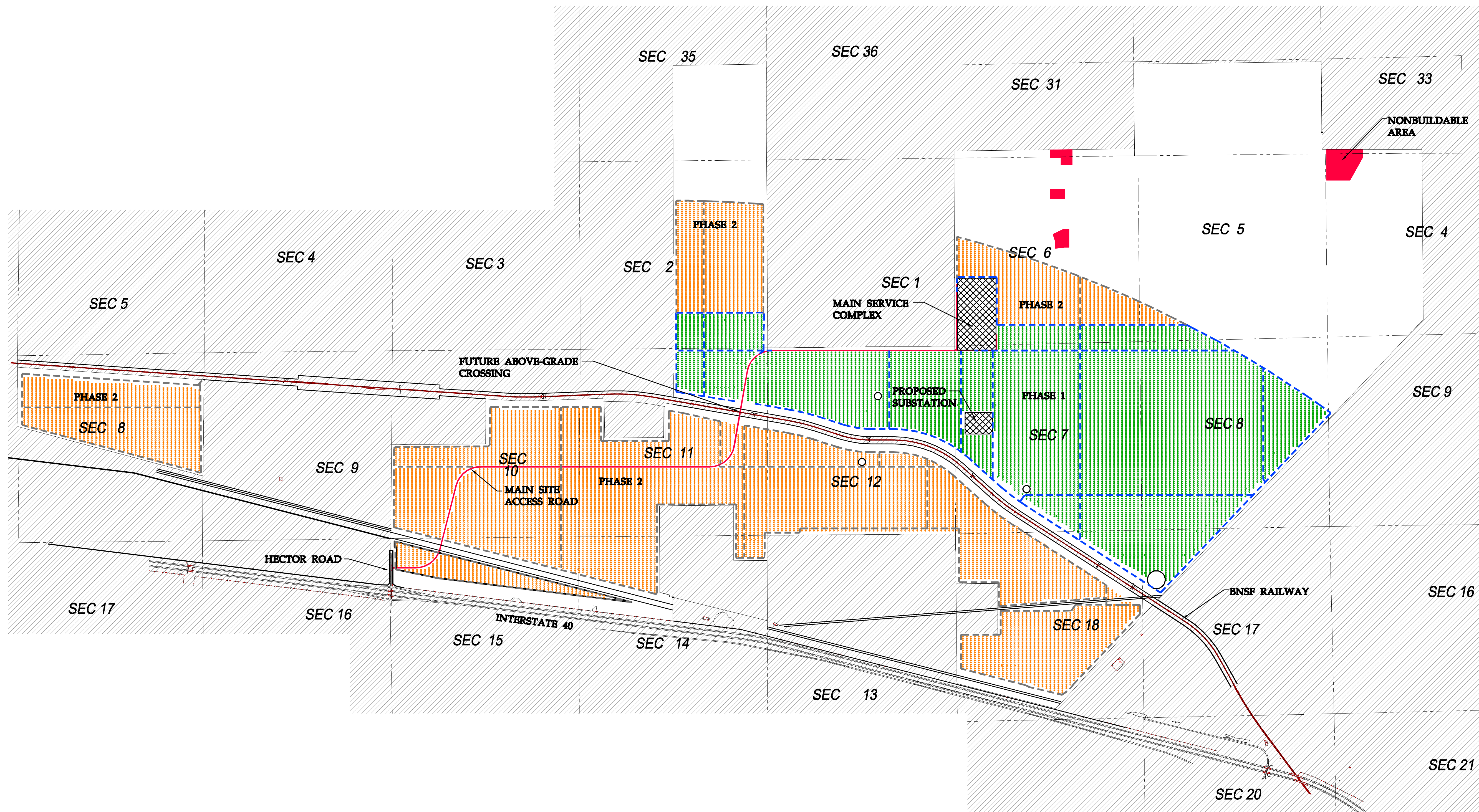
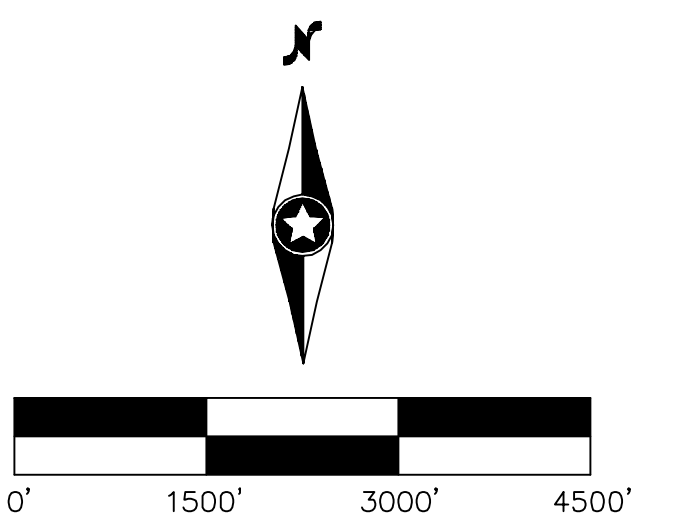


LEGEND:

- SUNCATCHER ARRAY-PHASE 1
- SUNCATCHER ARRAY-PHASE 2
- PROPOSED PROJECT BOUNDARY - NAP
- PROPOSED MAIN SITE ACCESS ROAD
- PROPOSED ACCESS ROAD-PHASE 1
- PROPOSED ACCESS ROAD-PHASE 2

PROJECT MW
Phase 1 = 255.4 MW
Phase 2 = 348.5 MW

Total = 603.9 MW



Calico Solar
San Bernardino County,
California

Solar Layout -
Scenario 6

NOT FOR CONSTRUCTION

Date: 09/07/10

Sheet: 1 OF 1

PROJECT MW
 Phase 1 = 264.4 MW
 Phase 2 = 399.1 MW
Total = 663.5 MW



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Designed: ADC

Checked: DDB

Drawn: ADC

Record Drawing by/date:

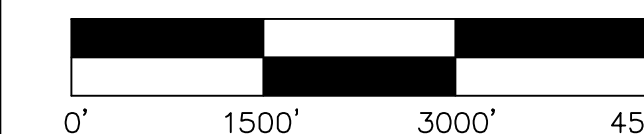
Revisions: # DATE DESCRIPTION

Prepared for:



LEGEND:

- SUNCATCHER ARRAY-PHASE 1
- SUNCATCHER ARRAY-PHASE 2
- PROPOSED PROJECT BOUNDARY - NAP
- PROPOSED MAIN SITE ACCESS ROAD
- PROPOSED ACCESS ROAD-PHASE 1
- PROPOSED ACCESS ROAD-PHASE 2
- PROPOSED PHASE 1 COMPRESSOR GROUP
- PROPOSED PHASE 2 COMPRESSOR GROUP
- PROPOSED PHASE 1 HYDROGEN MAKE-UP SUPPLY TUBING (1/2" DIA)
- PROPOSED PHASE 2 HYDROGEN MAKE-UP SUPPLY TUBING (1/2" DIA)
- PROPOSED PHASE 1 HYDROGEN GENERATION STATION
- PROPOSED PHASE 2 HYDROGEN GENERATION STATION



Calico Solar

San Bernardino County,
 California

Solar Layout -
 Scenario 5.5

NOT FOR CONSTRUCTION

Date: 09/10/10

Sheet: 1 OF 1

PROJECT MW
 Phase 1 = 255.4 MW
 Phase 2 = 348.5 MW
Total = 603.9 MW



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Designed: ADC
 Checked: DDB
 Drawn: ADC

Record Drawing by/date:

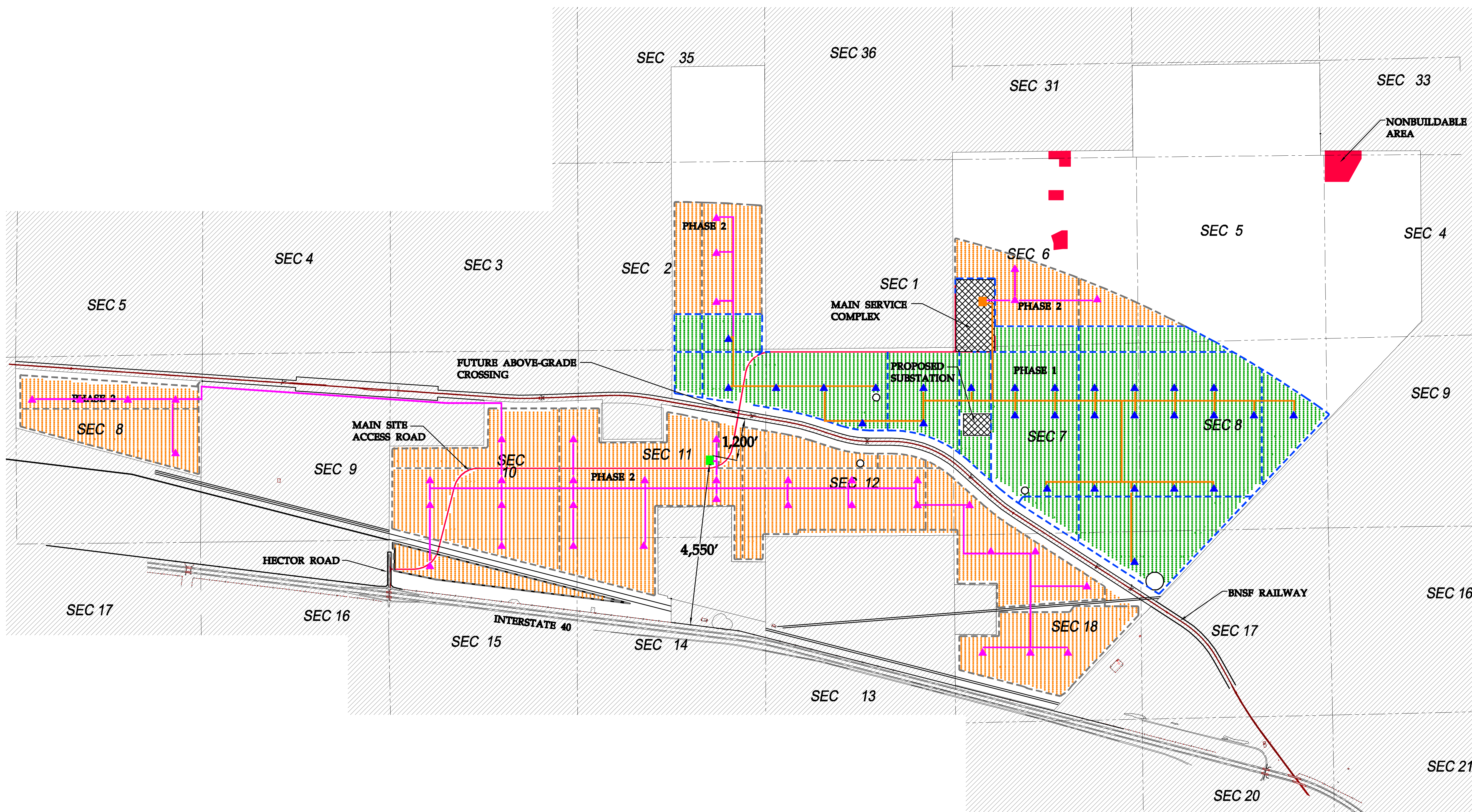
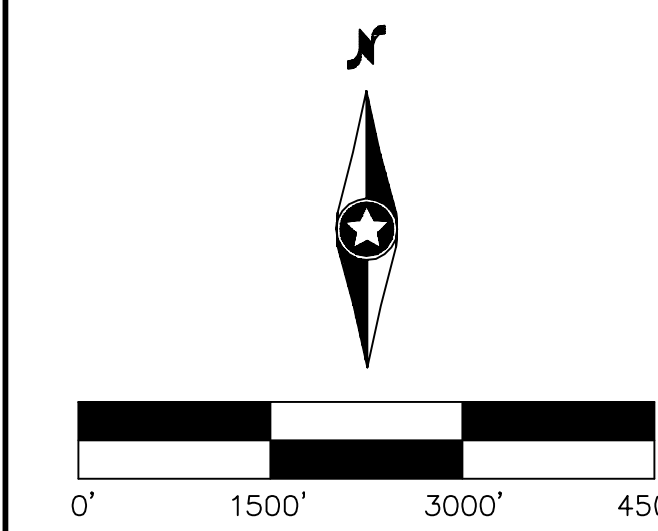
Revisions:
 # DATE DESCRIPTION

Prepared for:



LEGEND:

- SUNCATCHER ARRAY-PHASE 1
- SUNCATCHER ARRAY-PHASE 2
- PROPOSED PROJECT BOUNDARY - NAP
- PROPOSED MAIN SITE ACCESS ROAD
- PROPOSED ACCESS ROAD-PHASE 1
- PROPOSED ACCESS ROAD-PHASE 2
- PROPOSED PHASE 1 COMPRESSOR GROUP
- PROPOSED PHASE 2 COMPRESSOR GROUP
- PROPOSED PHASE 1 HYDROGEN MAKE-UP SUPPLY TUBING (1/2" DIA)
- PROPOSED PHASE 2 HYDROGEN MAKE-UP SUPPLY TUBING (1/2" DIA)
- PROPOSED PHASE 1 HYDROGEN GENERATION STATION
- PROPOSED PHASE 2 HYDROGEN GENERATION STATION



Calico Solar
 San Bernardino County,
 California

Solar Layout -
 Scenario 6

NOT FOR CONSTRUCTION

Date: 09/07/10
 Sheet: 1 OF 1



**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV**

APPLICATION FOR CERTIFICATION

For the CALICO SOLAR (Formerly SES Solar One)

Docket No. 08-AFC-13

**PROOF OF SERVICE
(Revised 8/9/10)**

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Jennifer Jennings
Public Adviser
e-mail service preferred
publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, Darin Neufeld, declare that on September 10, 2010, I served and filed copies of the attached Applicant's Submittal of Updated Reduced Project Boundary Scenarios 5.5 and 6 Information. 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;
- by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date 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, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.

Original Signed By
Darin Neufeld