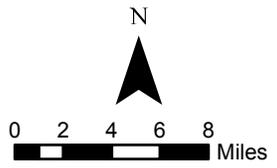


- Solar Facility
- Proposed Material Sites
- BLM District Office Boundary

Map B-1: Vicinity Map

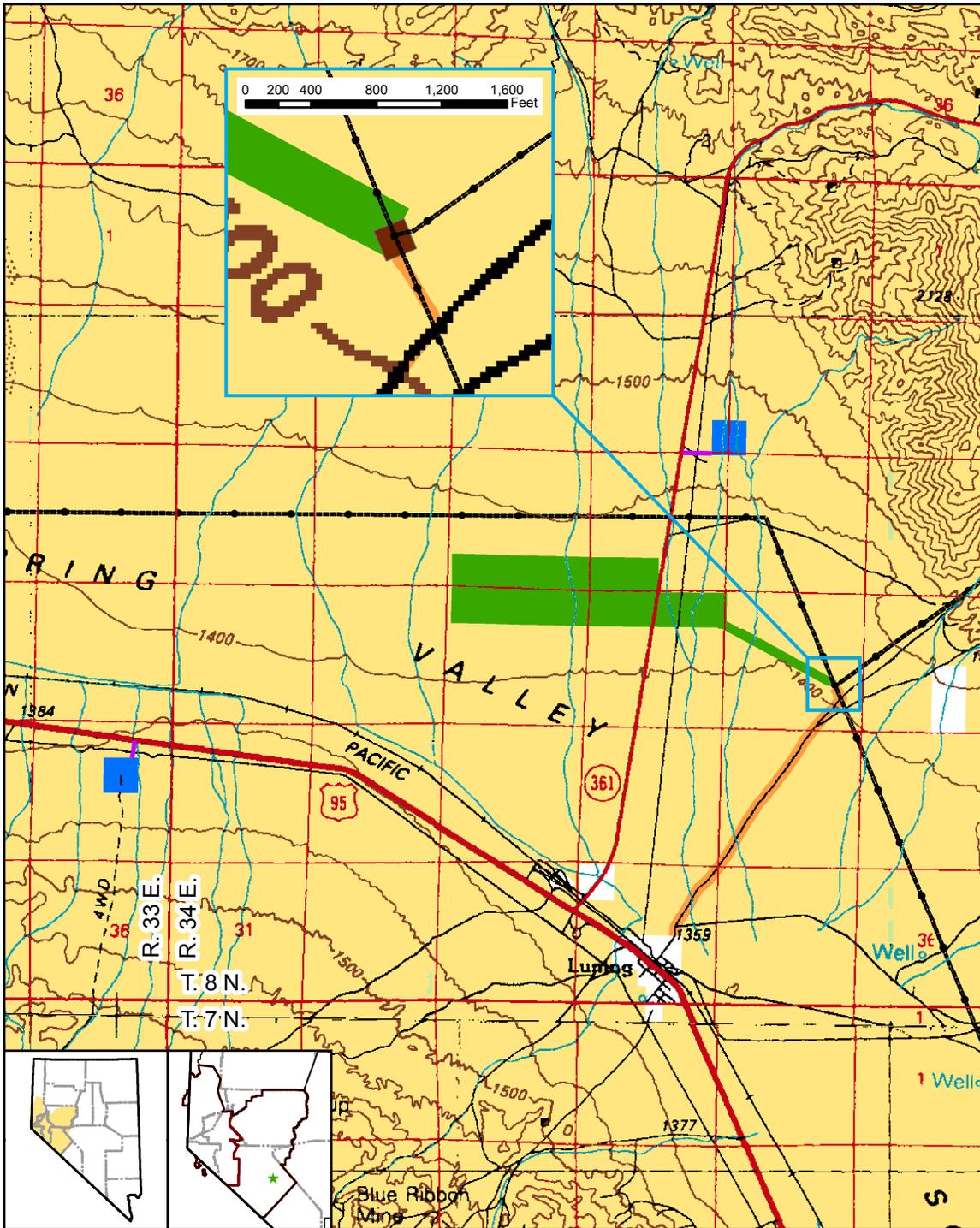


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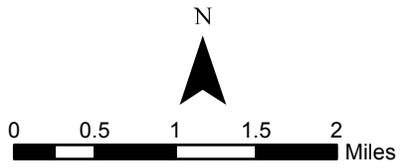
United States Department of the Interior  
 Bureau of Land Management  
 Carson City District Office  
 5665 Morgan Mill Rd.  
 Carson City, NV. 89701  
 (775) 885-6000

Map produced by: M. Simons  
 02/24/2015



- Solar Facility
  - Proposed Material Sites
  - Table Mtn Substation
  - Material Site Access Rd
  - Table Mt Sub Access Rd
  - Existing Transmission Line
- Surface Mgmt Status**
- BLM
  - Private

### Map B-2: Proposed Action

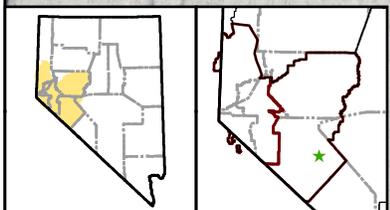
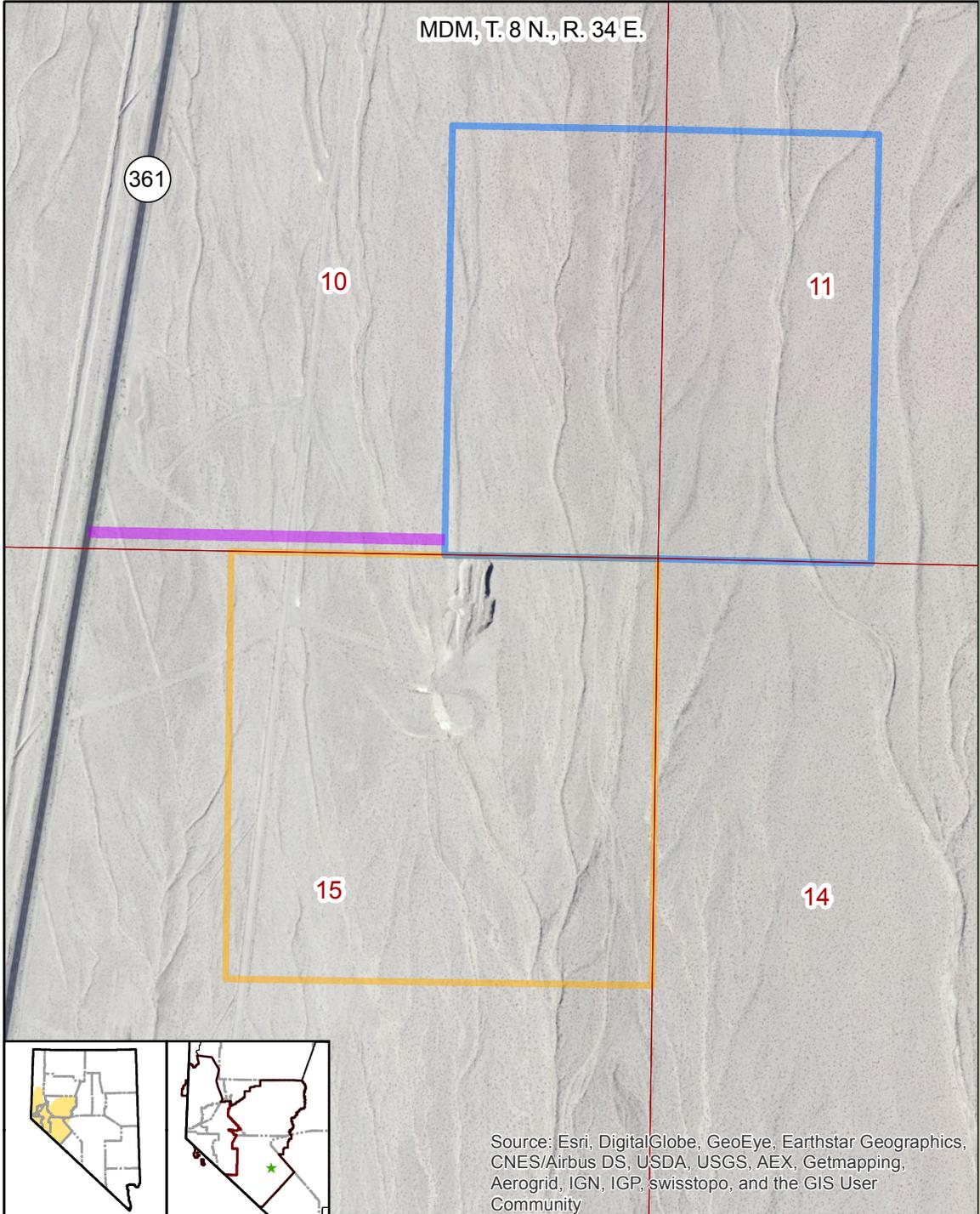


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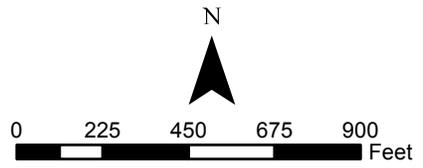
Map produced by: M. Simons  
 02/24/2015



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

-  Section
-  Material Site Access Road
- Proposed Material Site**
-  Material Site 1 - 40 Acres
- NDOT Material Site ROW**
-  CC-021185 - 40 Acres

**Map B-3: Material Site 1**



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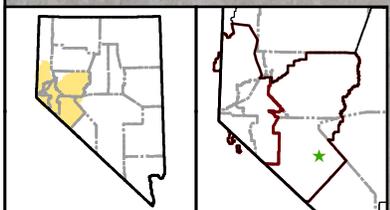
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MDM, T. 8 N., R. 33 E.

24

95

25



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Section
- Material Site Access Road
- Existing Power Lines**
- Distribution Line
- Proposed Material Site**
- Material Site 2 - 40 Acres
- NDOT Material Site ROW**
- N-38418 - 320 Acres

### Map B-4: Material Site 2



No warranty is made by the BLM as to the accuracy, reliability, or completeness of these data for individual or aggregate use.



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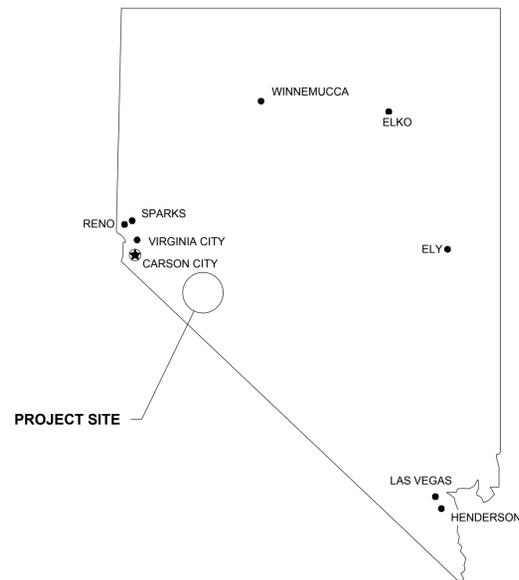
Map produced by: M. Simons  
 02/24/2015

# LUNING SOLAR GENERATION FACILITY

MINERAL COUNTY, LUNING, NEVADA 89420

## SOLAR ELECTRIC SYSTEM PROJECT - 50.0 MWAC

### PROJECT LOCATION:



### PROJECT SCOPE:

**SOLAR ELECTRIC SYSTEM**

THIS PROJECT ENTAILS THE INSTALLATION OF A SOLAR PHOTOVOLTAIC SYSTEM. THE SYSTEM WILL BE A NET ELECTRICITY EXPORTER TO THE UTILITY GRID.

THE INSTALLATION CONSISTS OF PHOTOVOLTAIC MODULES ON A GROUND MOUNTED SINGLE AXIS TRACKING SYSTEM. THE SYSTEM WILL ALSO INCLUDE SEVERAL INVERTERS. THE PROPOSED INVERTERS ARE UL1741 LISTED FOR POWER QUALITY AND SAFETY.

THE SYSTEM WILL BE INTERCONNECTED TO AND WILL BE OPERATED IN PARALLEL WITH THE ENERGY PROVIDER ELECTRIC GRID PER THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

### PERMITTING/PLANNING NOTES:

- THIS PV SYSTEM INSTALLATION IS SUBJECT TO INSPECTION BY THE AUTHORITY HAVING JURISDICTION, INVENERGY, BLUE OAK ENERGY AND MULTIPLE OTHER STAKEHOLDERS IN THIS PROJECT.
  - THIS PROJECT SHALL CONFORM TO THE FOLLOWING CODE VERSIONS:
    - 2010 CA BUILDING CODE
    - 2010 CA ELECTRICAL CODE
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)
- ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES

### DRAWING INDEX:

DWG #	DRAWING	REV #
WG-001	TITLE SHEET	
C-100	EXISTING SITE PLAN	
C-101	GRADING AND DRAINAGE PLAN	
W-111	ARRAY PLAN	
W-112	TRANSMISSION LINE PLAN	

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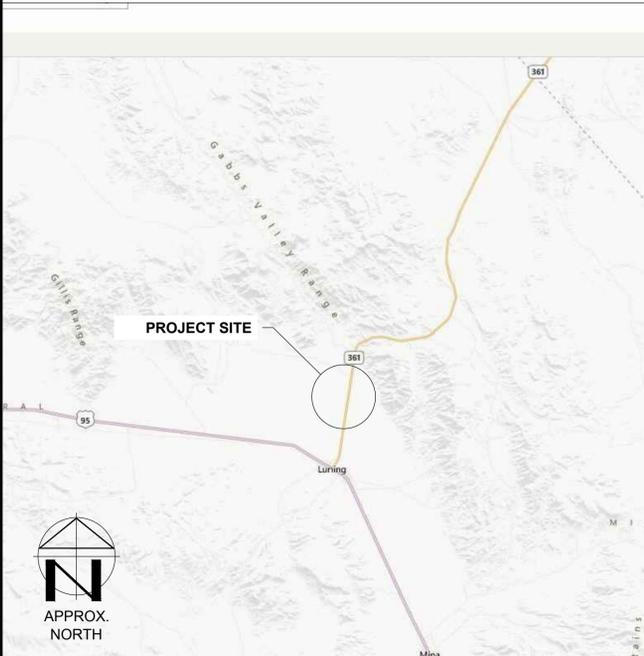
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REV. NO.	DESCRIPTION	DATE	BY
-	PRELIMINARY	10.02.13	MJW

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PROJECT #:	INV0.13.001	PRINTED ON:	10/2/13		
FILE NAME:	DETL.dwg	TIME:	10:58 AM		

### STREET MAP:



### AERIAL VIEW:



### PROJECT TEAM:

**DEVELOPER**  
 INVENERGY  
 ONE SOUTH WACKER DRIVE, SUITE 1900  
 CHICAGO, IL 60606  
 CONTACT: LAURA MINER  
 TEL: (503) 964-8900

**DESIGN ENGINEERING FIRM**  
 BLUE OAK ENERGY  
 1560 DREW AVENUE  
 DAVIS, CA 95618  
 CONTACT: SAM LAUGHLIN  
 TEL: (530) 747.2026

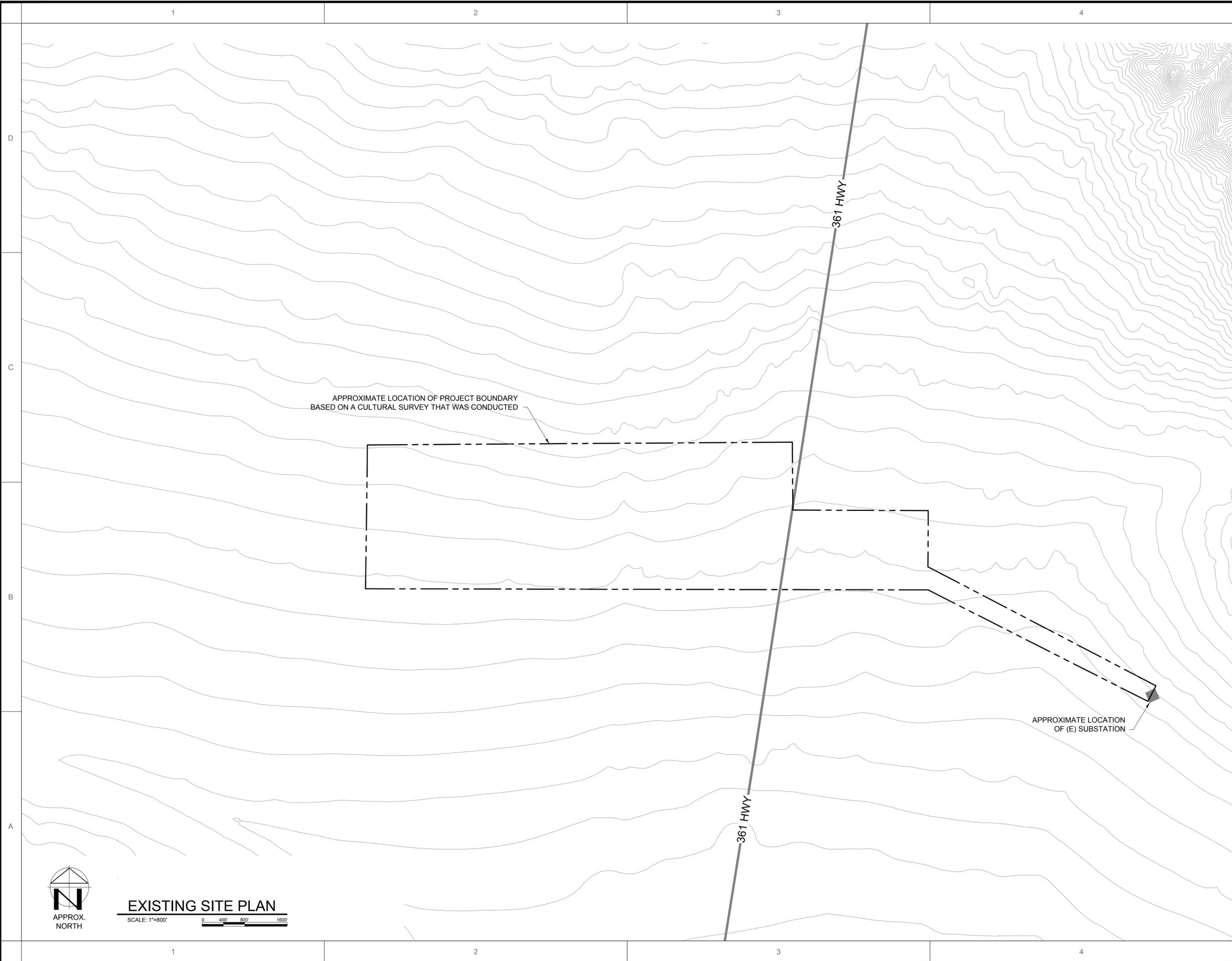
**BLUE OAK ENERGY**  
 1560 Drew Avenue, Davis, CA 95618  
 www.blueoakenergy.com - Phone: 530.747.2026

**OWNER:**  
**Invenergy**  
 ONE SOUTH WACKER DRIVE SUITE 1900  
 CHICAGO, ILLINOIS 60606

**PROJECT SITE:**  
**LUNING SOLAR GENERATION FACILITY**  
 MINERAL COUNTY  
 LUNING, NEVADA 89420

**DRAWING:** TITLE SHEET  
**DRAWING NO.:** **WG-001**

BOE\_ARCH D SIZE - 24"x36" (V1.0) © Blue Oak Energy, Inc.



APPROXIMATE LOCATION OF PROJECT BOUNDARY  
BASED ON A CULTURAL SURVEY THAT WAS CONDUCTED

APPROXIMATE LOCATION  
OF (E) SUBSTATION



**EXISTING SITE PLAN**  
SCALE: 1"=800'

**NOTES:**  
1. THE TOPOGRAPHY PROVIDED AND USED IS 5 METER CONTOUR USGS DATA.

**KEYED NOTES:**  
① NONE.

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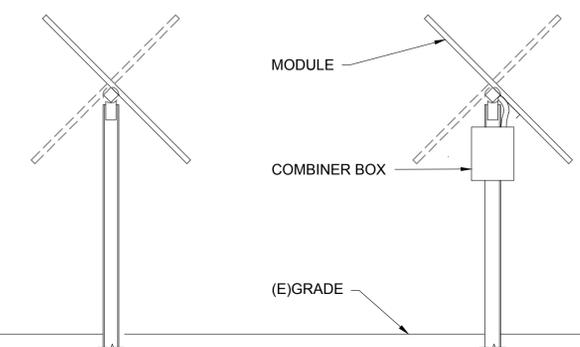
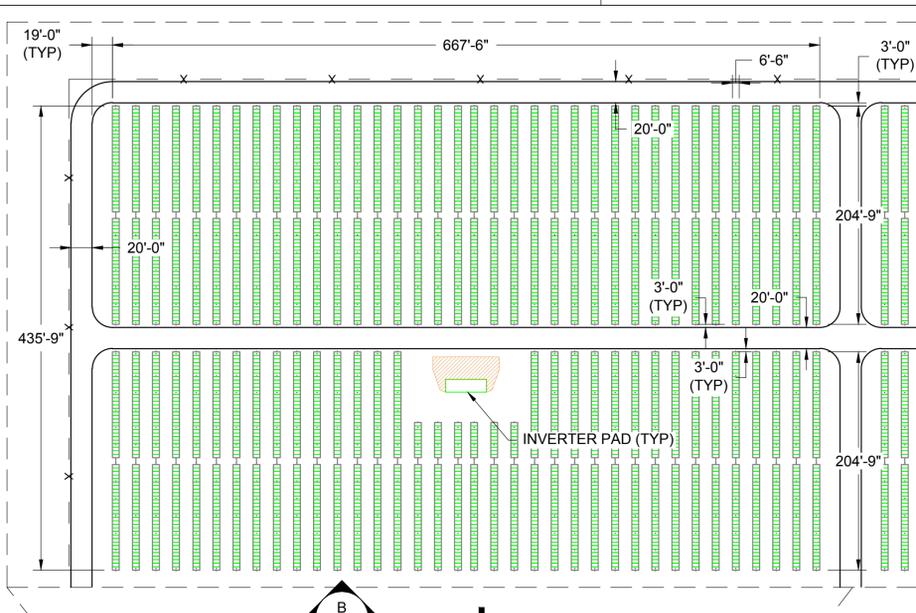
OWNER:  
**Invenergy**  
ONE SOUTH WACKER DRIVE SUITE 1900  
CHICAGO, ILLINOIS 60606

PROJECT SITE:  
**LUNING SOLAR  
GENERATION  
FACILITY**  
MINERAL COUNTY  
LUNING, NEVADA 89420

DRAWING: EXISTING SITE PLAN

DRAWING NO.  
**C-100**





**B TRACKER PROFILE**  
SCALE: NTS

SYSTEM SUMMARY	
MODULE STC RATING	300W
TOTAL MODULE COUNT	210,000
TOTAL STC-DC SYSTEM SIZE	63.0 MW
TOTAL AC SYSTEM SIZE	50.0 MW
SITE LATITUDE	38°N
TRACKER ROW ORIENTATION	NORTH-SOUTH
TRACKER RANGE OF MOTION	±45° (FACING EAST-WEST)
TRACKER TILT	0°
GROUND COVER RATIO	33%

LEGEND	
SOLAR TRACKER	
SHADE PATH (FROM 10AM TO 2PM)	
FENCE LINE	- - - x - - -

NOTES:  
1. DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY.

KEYED NOTES:  
① TRENCH OR DIRECTIONAL BORING FOR UNDERGROUND INSTALLATION OF POWER AND COMMUNICATION CABLES. THIS SHALL CROSS HIGHWAY 361 AND SHALL BE PART OF THE ENCROACHMENT PERMITTING PROCESS AND/OR OTHER REQUIRED PERMITS.

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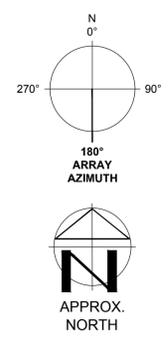
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FILE NAME: SITE.dwg	TIME: 11:01 AM	

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**Invenergy**  
ONE SOUTH WACKER DRIVE SUITE 1900  
CHICAGO, ILLINOIS 60606

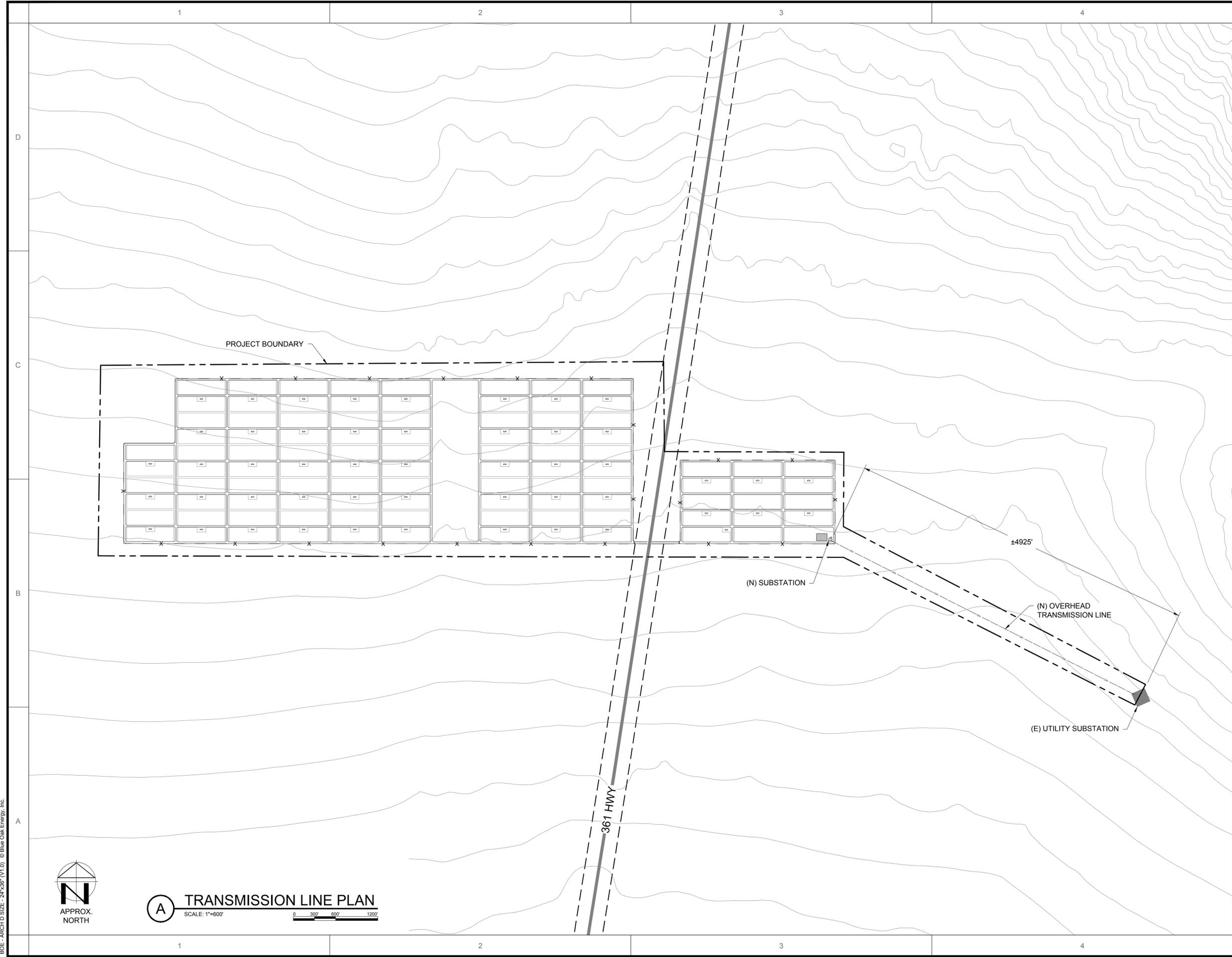
PROJECT SITE:  
**LUNING SOLAR GENERATION FACILITY**  
MINERAL COUNTY  
LUNING, NEVADA 89420

DRAWING: ARRAY PLAN  
DRAWING NO. **W-111**



**A ARRAY PLAN**  
SCALE: 1"=400'

BOE\_ARCH D SIZE - 24"x36" (V1.0) © Blue Oak Energy, Inc.



**NOTES:**  
 1. DIMENSIONS PROVIDED ARE FOR GENERAL GUIDANCE ONLY.

**KEYED NOTES:**  
 ① NONE.

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**Invenergy**  
 ONE SOUTH WACKER DRIVE SUITE 1900  
 CHICAGO, ILLINOIS 60606

**LUNING SOLAR GENERATION FACILITY**  
 MINERAL COUNTY  
 LUNING, NEVADA 89420

DRAWING: TRANSMISSION LINE PLAN  
 DRAWING NO. **W-112**



**A TRANSMISSION LINE PLAN**  
 SCALE: 1"=600'



BOE ARCH D SIZE - 24"x36" (V1.0) © Blue Oak Energy, Inc.

**Luning Solar Energy Project Gen-Tie Power Line  
Representative Photos from the Wild Rose Power Line (N-90685)  
January 2014**



Substation outside the Don A. Cambell Project 1 (Wild Rose) geothermal power generation plant in the western Gabbs Valley. The project substation (see Chapter 2, Section 2.1.1.1, Solar Facility) connecting the PV field to the gen-tie line would be similar in size and design.



The above photo was taken approximately 4 months after construction of the Wild Rose power line. The vehicle tracks are from trucks unspooling conductor cables before they were attached to the poles. One of the tracks will become more prominent over time as it gets used to service the line between pole locations; the other tracks will disappear from weathering.



Representative photo of the construction area around a pole. The area is larger than what would typically be needed because it is where the power line changes direction. The gen-tie line would have a similar type of installation immediately before the Vertical Transition Structure (VTS) near the Table Mountain substation. Pulling sites along the gen-tie line would likely be of similar size due to the additional equipment that would be located at each site.



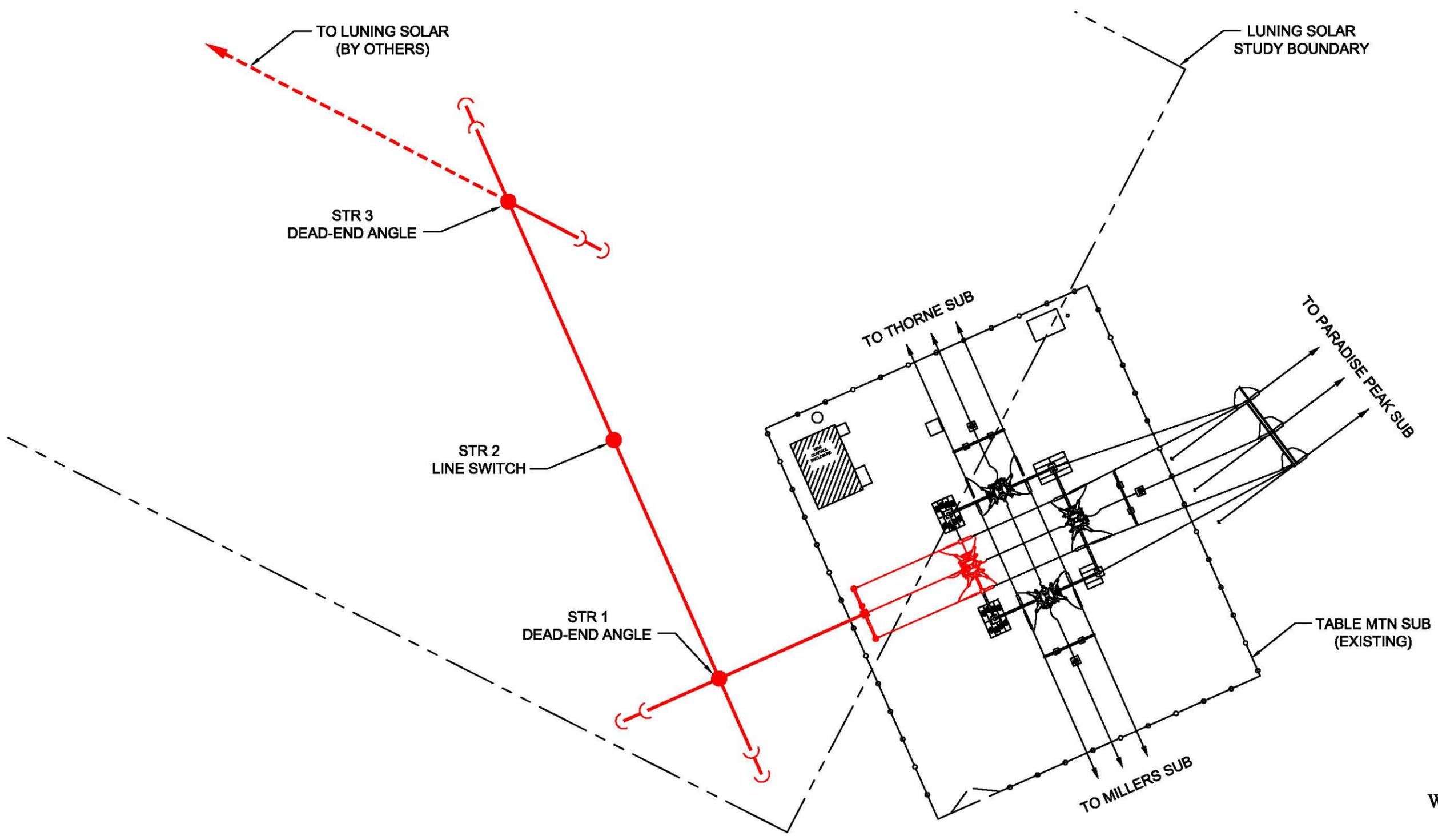
Representative photo of a pulling site with new reclamation.



Excelsior Switch substation at the end of the Wild Rose power line. The single pole outside the fence on the left hand side of the substation is the VTS which isolates the power line from the substation. The VTS would also serve as the end of the power line right-of-way (ROW); the wire connections leading into the substation would be a part of the substation ROW. The VTS on the gen-tie line would be of similar design.



October 1, 2014. Table Mountain substation. The gen-tie line would enter the substation from the left-hand side of the photo.



**NOTE**  
 1. STR 1-3 BY NV ENERGY  
 2. TABLE MTN BY NV ENERGY

Scale: 1" = 40'-0"

				LUNING SOLAR ENERGY PROJECT		EX1
				PRELIMINARY NV ENERGY INTERCONNECTION		
DRAWN:	ENG:	APPR:	DATE:	REVISION: 00		PAGE 01 OF 01
AFD	JAL	-	03/05/2014			