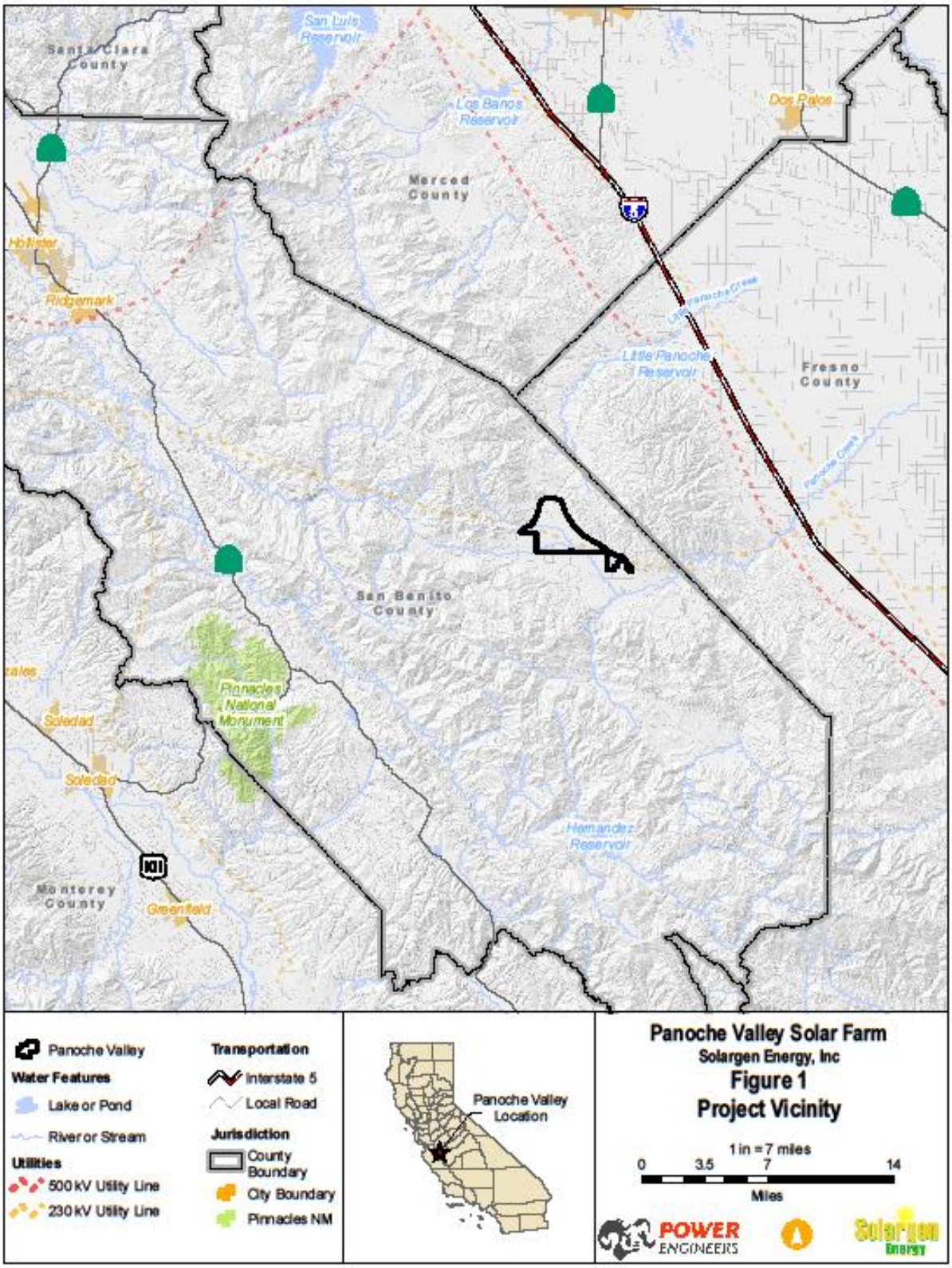

Santa Clara County
San Luis Reservoir
Los Banos Reservoir
Dos Palos
Merced County
Hollister
Ridgemark
Little Panoche Reservoir
Fresno County
San Benito County
Pinnacles National Monument
Soledad
Hernandez Reservoir
Monterey County
Greenfield
Panoche Valley
Water Features
Lake or Pond
River or Stream
Utilities
500 kV Utility Line
230 kV Utility Line
Transportation
Interstate 5
Local Road
Jurisdiction
County Boundary
City Boundary
Pinnacles NM
Panoche Valley Location
Panoche Valley Solar Farm
Solargen Energy, Inc
Figure 1
Project Vicinity
1 in = 7 miles
0
3.5
7
14
Miles
POWER ENGINEERS
Solargen Energy

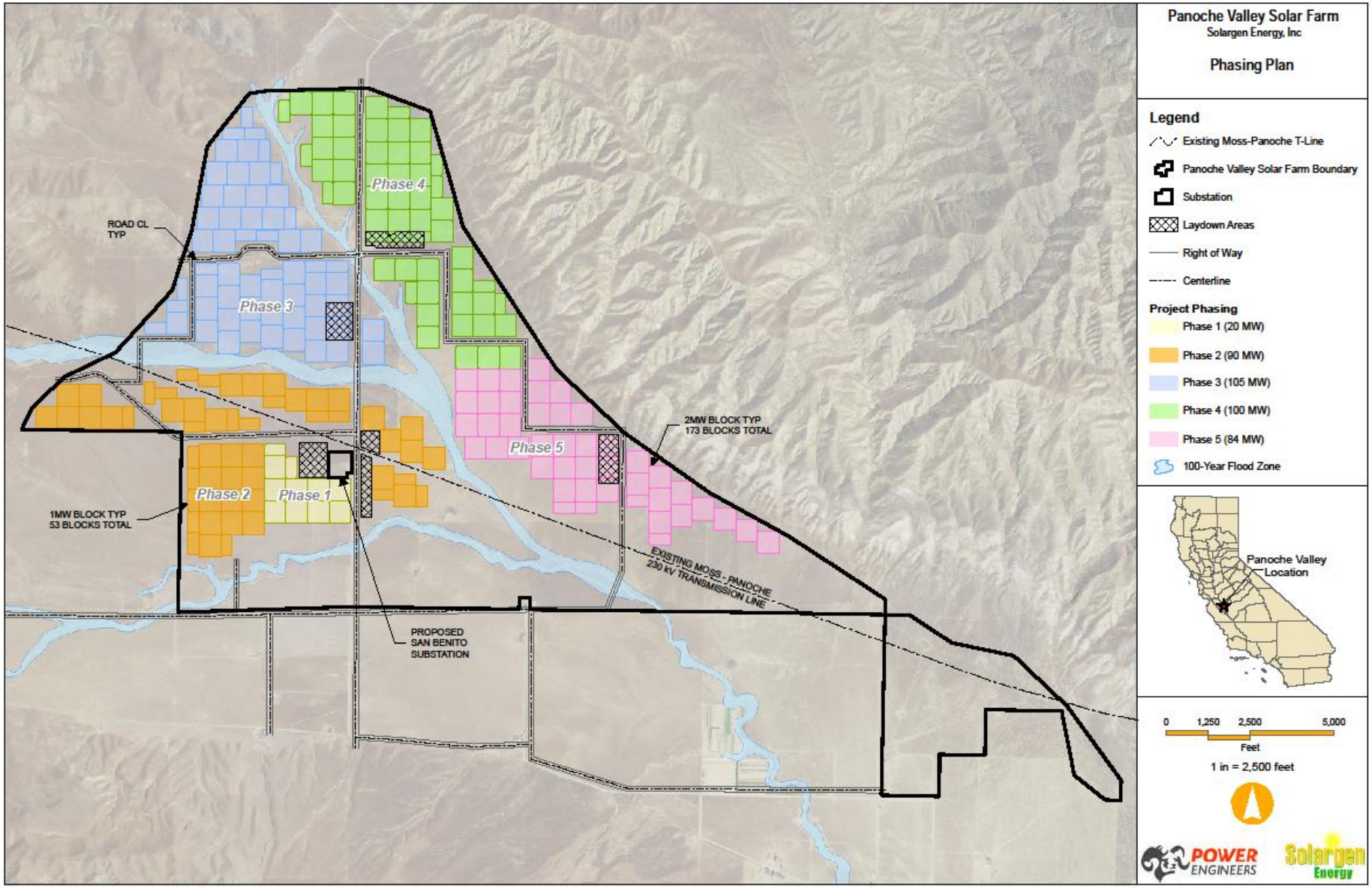
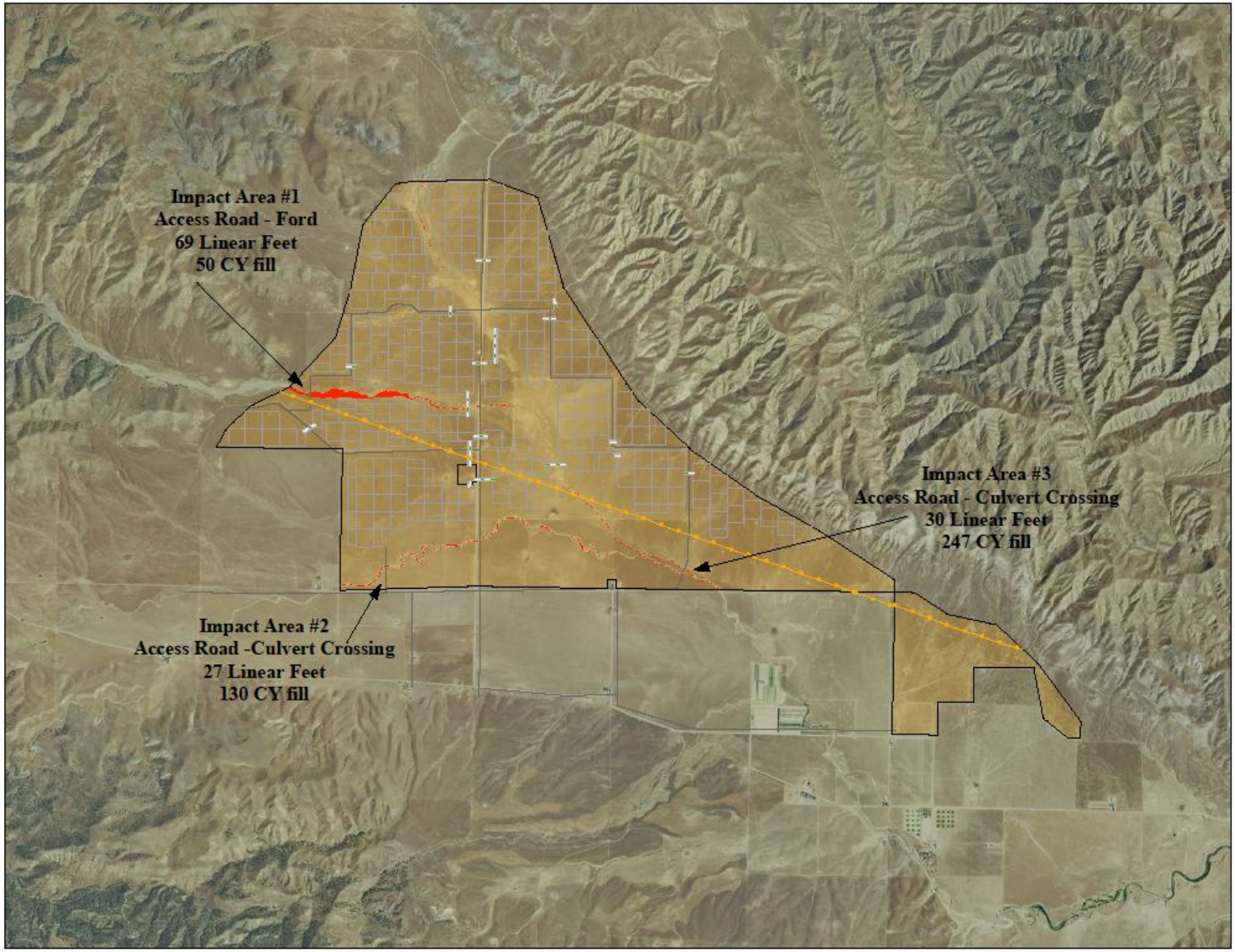

Panoche Valley Solar Farm
Solargen Energy, Inc
Phasing Plan
Legend
Existing Moss-Panoche T-Line
Panoche Valley Solar Farm Boundary
Substation
Laydown Areas
Right of Way
Centerline
Project Phasing
Phase 1 (20 MW)
Phase 2 (90 MW)
Phase 3 (105 MW)
Phase 4 (100 MW)
Phase 5 (84 MW)
100-Year Flood Zone
Panoche Valley Location
0 1,250 2,500 5,000
Feet
1 in = 2,500 feet
POWER ENGINEERS
Solargen Energy
Phase 4
Phase 3
Phase 2
Phase 1
Phase 5
ROAD CL TYP
1MW BLOCK TYP 53 BLOCKS TOTAL
2MW BLOCK TYP 173 BLOCKS TOTAL
EXISTING MOSS - PANOCHE 230 kV TRANSMISSION LINE
PROPOSED SAN BENITO SUBSTATION

Figure 2



Panoche Valley Solar Farm

Study Area Impact Map
Revised 8/26/2010

Legend

- PV Panel Block
- Underground Cable
- Existing Transmission Line
- Road
- Ordinary High Water Mark
- Substation
- Study Area

N
W E
S

1 inch = 0.5 miles

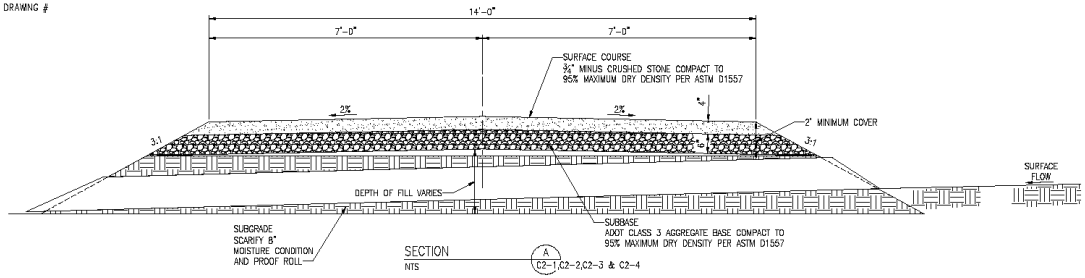
0 0.25 0.5 0.75
Miles

POWER ENGINEERS
Solargen Energy

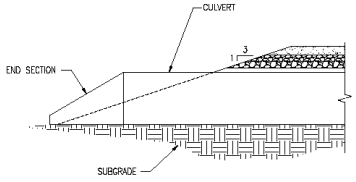
Date Printed: August 26, 2010
D:\Panoche\Additional Impacts082610

Figure 3

SWTC DRAWING #

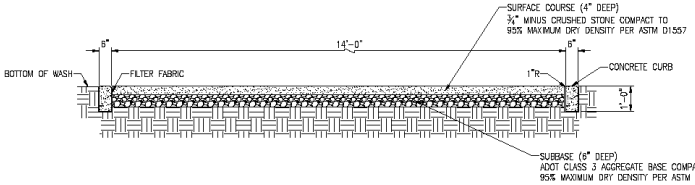


SECTION
NTS
A
C2-1,C2-2,C2-3 & C2-4



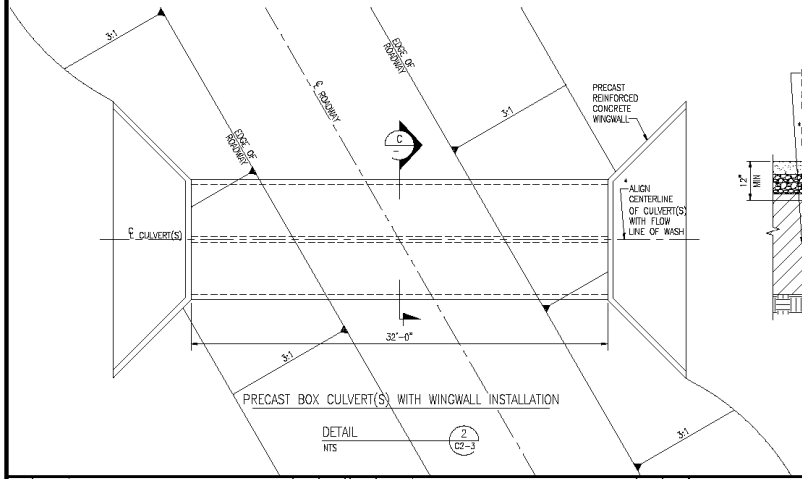
TYPICAL CULVERT INSTALLATION

DETAIL
NTS
1
C2-1,C2-2,C2-3 & C2-4



TYPICAL ROADWAY WASH CROSSING (INTERMITTENT STREAM CROSSING)

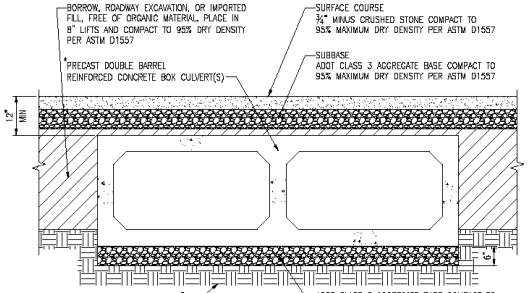
WASH CROSSING NOTES:
1. THE TOP OF THE CONCRETE CURB SHALL BE THE BOTTOM ELEVATION ON THE UPSTREAM SIDE.
2. USE 3000PSI 28 DAY CONCRETE, USING TYPE 2 CEMENT, IN THE CURBS.
3. THE FILTER FABRIC SHALL BE INSTALLED UP THE SIDE OF EACH CURB 6" AND BE INSTALLED PER INDUSTRY STANDARDS.
4. THE FILTER FABRIC SHALL MEET PIME COUNTY STANDARDS FOR "HIGH SURVIVABILITY FABRIC" (1014-4.03).



PRECAST BOX CULVERT(S) WITH WINGWALL INSTALLATION

DETAIL
NTS
2
C2-3

*NUMBER OF CULVERTS AND CULVERT SIZE VARIES WITH EACH CROSSING



SECTION
NTS
C

BOX CULVERT NOTES:
1. INSTALL CLOCKSTILE PRECAST REINFORCED CONCRETE BOX CULVERT AND WINGWALLS OR ENGINEER APPROVED EQUIVALENT. EACH BARREL TO HAVE SPAN EQUAL TO 4' AND RISE EQUAL TO 2'. WALL THICKNESS SHALL BE MINIMUM 5".
2. PRECAST BOX CULVERT DESIGN SPECIFICATIONS SHALL BE IN ACCORDANCE WITH ACI-318 "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE", AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES", ASTM C789 "PRECAST REINFORCED CONCRETE BOX SECTIONS FOR CULVERTS, STORM DRAINS, AND SEWERS, OR ASTM C850 "PRECAST REINFORCED CONCRETE BOX SECTIONS FOR CULVERTS, STORM DRAINS, AND SEWERS WITH LESS THAN 2 FT OF COVER SUBJECT TO HIGHWAY LOADINGS", AS APPLICABLE.
3. CONCRETE COMPRESSIVE STRENGTH 5,000 P.S.I. MINIMUM UNLESS OTHERWISE SPECIFIED.
4. STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OUTLINED IN NOTE #2 AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A185, OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
5. CONTRACTOR MAY CAST THE BOX CULVERT IN PLACE. IF CONTRACTOR SELECTS THIS OPTION, DESIGN DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. IF PRECAST OPTION IS SELECTED CONTRACTOR SHALL SUBMIT VENDOR DRAWINGS TO THE ENGINEER FOR REVIEW.

PEI JOB NUMBER : 117257

POWER ENGINEERS

NO.	DATE	REVISION	BY	APPD.
*				

NO.	DATE	REVISION	BY	APPD.

REFERENCE DRAWINGS

NOTES
DRAFT – NOT FOR CONSTRUCTION

APPROVAL BY REGISTERED ENGINEER(S)	DATE 03-11-10
NAME / TITLE	SCALE NTS
	DRAWN BY DLK
NAME / TITLE	CHECKED BY DC
	APPROVED BY PEI

PANOCHE VALLEY
WASH CROSSING
DETAILS

Solargen Energy

DWG. NO. C3-2 SHEET ___ of ___

Cad File #

:/500074301D/05/05/.DWG

Figure 4

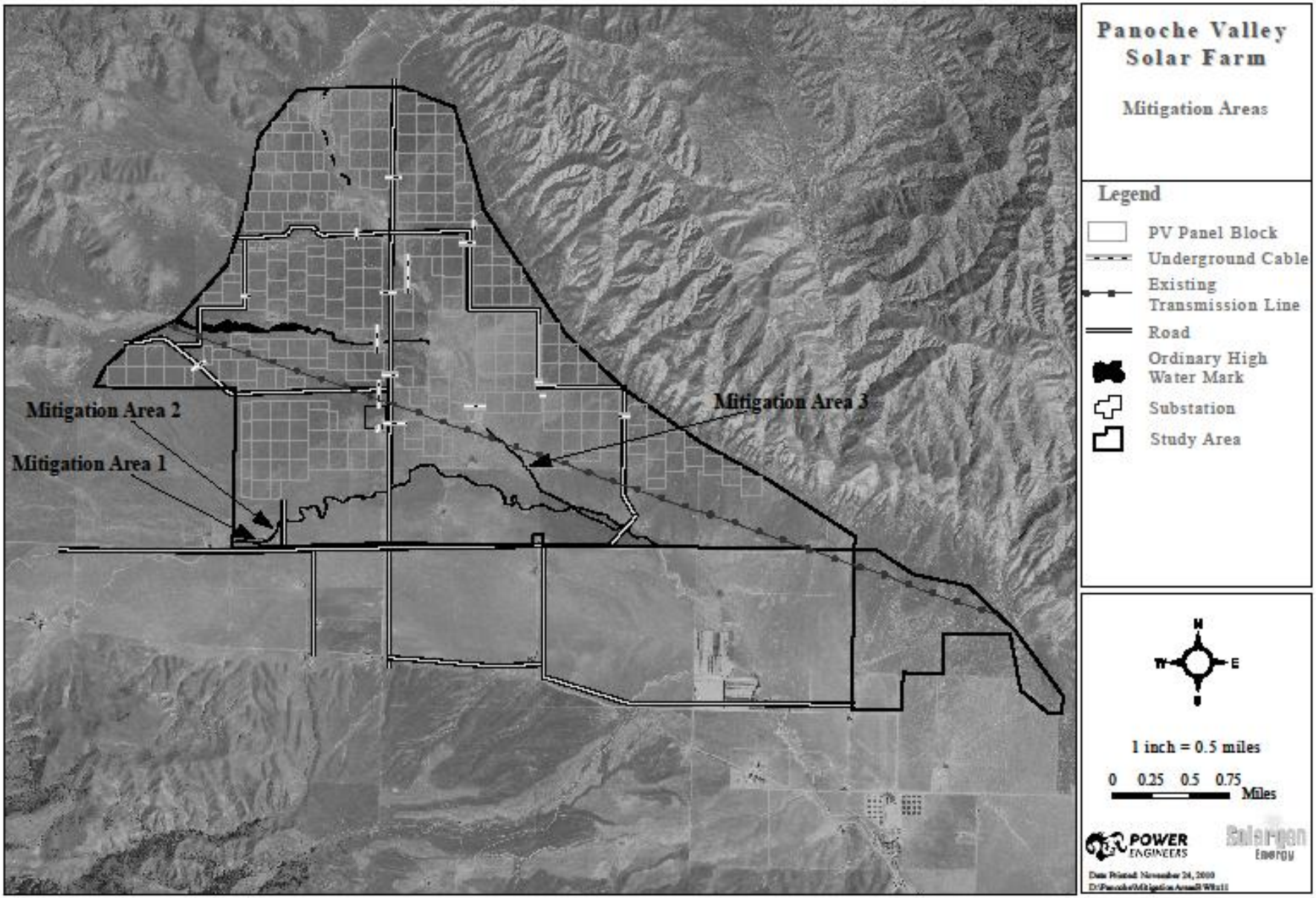

Panoche Valley Solar Farm
Mitigation Areas
Legend
PV Panel Block
Underground Cable
Existing Transmission Line
Road
Ordinary High Water Mark
Substation
Study Area
Mitigation Area 2
Mitigation Area 1
Mitigation Area 3
N
W
E
S
1 inch = 0.5 miles
0 0.25 0.5 0.75
Miles
POWER ENGINEERS
Solarpro Energy

Figure 5