the required enhanced construction features provided by the applicable codes and the mitigating fuel modification requirements provided in this FPP will accomplish the goal of this FPP to assist firefighters in their efforts to defend these structures and reduce the associated risk.

INTENTIONALLY LEFT BLANK

7.0 LIST OF PREPARERS

Project Manager:

Michael Huff
Fire Protection Planner; San Diego County California Environmental Quality Act Consultant List
Dudek

GIS:

Andrew Greis
GIS Analyst
Dudek

Fire Behavior Modeling:

Scott Eckardt
Registered Professional Forester; Certified Wildland Fire Manager
Dudek

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8.0 REFERENCES

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APPENDIX A

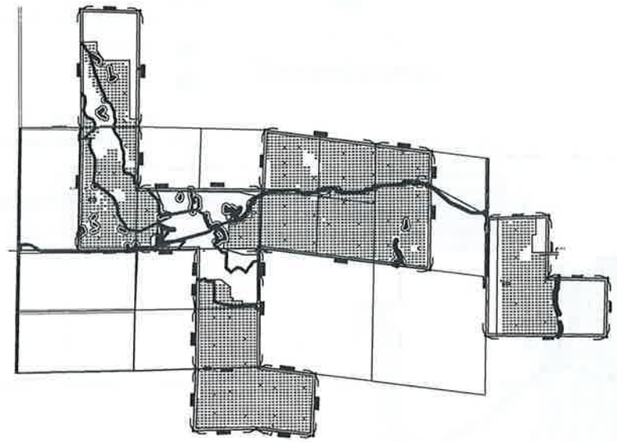
Rugged Solar Farm Project Features

RUGGED SOLAR LLC

RUGGED SOLAR PROJECT
PLOT PLAN

ENGINEERING SCALE: 1:2000

0 1000' 2000'



GENERAL NOTES:

1. Each tracker assembly is approximately 48 FT wide with a maximum constructed height of 30 ft and spaced approximately 69 FT North to South; 82 FT East to West.
2. Entrance to each gate will be from an improved driveway that shall be designed in accordance with County of San Diego Design Standard DS-19 and equipped with an emergency key-operated override switch.
3. At no point does the change of grade, along the primary access road, exceed 10%.
4. Detailed cross sections of the roads are provided on the preliminary grading plan.
5. All compaction requirements are listed on the preliminary grading plan.
6. Turnaround shall be designed in accordance with County of San Diego Design Standard DS-06 for a county emergency fire apparatus.
7. The project site is not located in a designated flood plain, therefore lines of inundation are not shown.
8. Temporary and Permanent BMPs are shown on the preliminary grading plan.
9. All coordinates shown are state plane coordinates based on CCS83, Zone 6 (2007.00 Epoch).
10. All dimensions are shown in Decimal Feet.
11. The solar related facilities (panels, electrical connections, transformer/inverter platform, O&M buildings, emergency generator, fencing, internal access and switchgear pad, etc.) shown on the plot plans may be relocated, (exclusive of the open space areas & undeveloped (future development area)) with the administrative approval of the director of dplu when found in conformance with the intent and conditions of the permit's approval. Transformer/inverter platform locations can be relocated/reconfigured without requirement of minor deviation.

SIGHT DISTANCE:

To be submitted under separate cover

ABBREVIATIONS:

AC	Alternating Current
ADT	Average Daily Trips
BB	Building Block
BMP	Best Management Practice
CEQA	California Environmental Quality Act
CPV	Concentrating Photovoltaic
CFA	County Fire Authority
DPLU	County of San Diego, Department of Planning and Land Usage
DS	Design Standard
EIR	Environmental Impact Report
EOP	Edge of Pavement
FT	Feet
kV	kilovolts
kW	kilowatts
MAX	Maximum
MOU	Memorandum of Understanding
MPA	Major Use Permit Application
MUP	Major Use Permit
MW	Megawatts
NTS	Not to Scale
PL	Property Lines
QTY	Quantity
RL	Rural Land
ROW	Right of Way
RPO	Resource Protection Ordinance
SQFT	Square Feet

OWNER INFORMATION

NAME:	Waterstone Support Foundation Inc. John Gibson	Frankie Thibodeau	Vista Oaks Business Park John Gibson	Harmony Grove Partners John Gibson
ADDRESS:	2925 Professional Pl #200	39990 Roadrunner Ln	1000 Pioneer Way	1000 Pioneer Way
CITY:	Colorado Springs	Boulevard	El Cajon	El Cajon
STATE:	CO	CA	CA	CA
ZIP:	80904	91905	92020	92020
PHONE:	(619) 440-7424	(619) 766-9105	(619) 440-7424	(619) 440-7424
APN# 's and (Acreage)	611-110-01 (123.8)	611-091-07 (42.53), 612-030-19 (43.46), 612-030-01 (40.22)	611-090-04 (84), 611-091-03 (42.46), 611-090-02 (82), 611-060-04 (79).	611-100-07 (228.22)

SHEET INDEX

C-100 LEGEND, SYMBOLS, ABBREVIATIONS & NOTES
C-101 PLOT PLAN DRAWING MAP
C-102 PLOT PLAN NORTH WEST
C-103 PLOT PLAN SOUTH
C-104 PLOT PLAN CENTER TOP
C-105 PLOT PLAN CENTER BOTTOM
C-106 PLOT PLAN EAST

C-110 EASEMENT PLAN DRAWING MAP
C-111 EASEMENT PLAN NORTH WEST
C-112 EASEMENT PLAN EAST

C-120 PLOT PLAN 34.5 KV OVERHEAD

C-130 1.36 / 2.0 MW INVERTER BOX DESIGN
C-131 O&M BUILDING
C-132 FENCE ELEVATION DETAIL
C-133 TRACKER ELEVATION DETAIL
C-134 WATER TANK ELEVATION DETAIL, 34.5kV & 34.5kV / 69kV OVERHEAD ELEVATION DETAIL

PARCEL ZONING SETBACK SCHEDULE

APN	SETBACK SCHEDULE DESIGNATION
611-110-01	C
611-091-07	D
612-030-19	D
612-030-01	D
611-090-04	D
611-091-03	D
611-090-02	D
611-060-04	D
611-100-07	D

RESERVED FOR COUNTY STAMPS

AECOM

DESIGNER

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AECOM TECHINCAL SERVICES, INC
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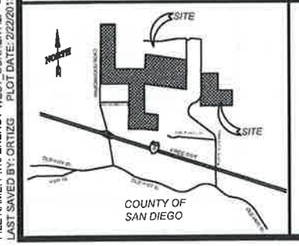
www.aecom.com

CLIENT

Soitec

Soitec Solar Development, LLC
16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP



OWNER INFORMATION

NAME: SEE TABLE ABOVE
ADDRESS:
CITY:
STATE:
ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

NAME: Pat Brown
ADDRESS: 16550 Via Esprillo
CITY: San Diego
STATE: CA
ZIP: 92127
PHONE: (858) 746-9000
FAX:
EMAIL: patrick.brown@soitec.com

PARCEL INFORMATION

APN: 6120300100,6120301900,6110910700,6110910300, 6110900400,6110600400,6110900200,6111000700, 6111100100

SITE ADDRESS:
North of I-8, east of Ribbonwood Road, on both sides of McCain Valley Road.

I CERTIFY THAT I HAVE READ ALL ZONING REGULATIONS AND BEST MANAGEMENT PRACTICES (BMPs) NOTES AND THAT I AM THE DESIGNER OF THE PROPOSED PROJECT:

DESIGNER SIGNATURE REQUIRED DATE

PROJECT INFORMATION

EXISTING:
Rolling, rugged land with two detached land sections made up of many parcels. All land is randomly populated by boulders. The site is minimally developed with unpaved roads.

PROPOSED:
Approximately 84 Megawatt (MW) project located on approximately 474 acres and includes construction and operation of approximately 3588 Concentrated Photovoltaic (CPV) trackers configured into 61 (1.36 MW) Building Blocks (BB) each consisting of 58 trackers with associated Inverters and Transformers.

PLOT PLAN INFORMATION

CPV System Summary	
Approx. Number of Trackers:	3588
Tracker per BB:	58
Number of BB:	61
Total AC Capacity (MWs):	Approx. 84 MW
Inverter Skid AC Capacity (MWs):	1.36 to 2.0
No. of 1.36 MW Inverter Skids:	61
Total Lot Size (Acres):	765
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

LEGEND, SYMBOLS, ABBEREVIATIONS & NOTE

SHEET NUMBER	REV.
C-100	0

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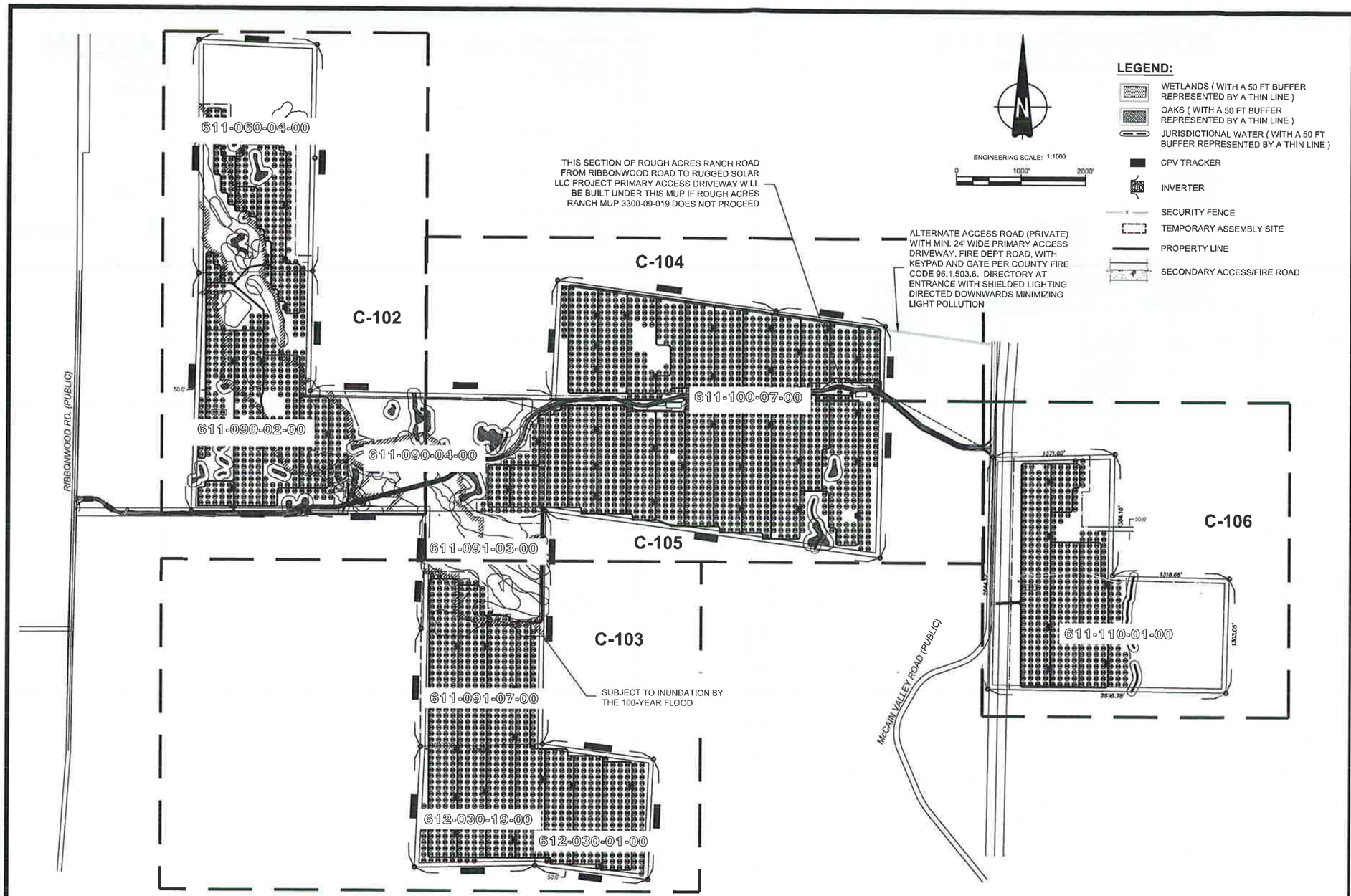

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LAST SAVED BY: ORTIZG PLOT DATE: 2/22/2013 9:39:48 AM

DESIGNER

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www.aecom.com

CLIENT

Soitec Solar Development, LLC
16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP

OWNER INFORMATION

NAME: SEE TABLE AT C-100
ADDRESS:
CITY:
STATE:
ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

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No. of 1.36 MW Inverter Skids:	61
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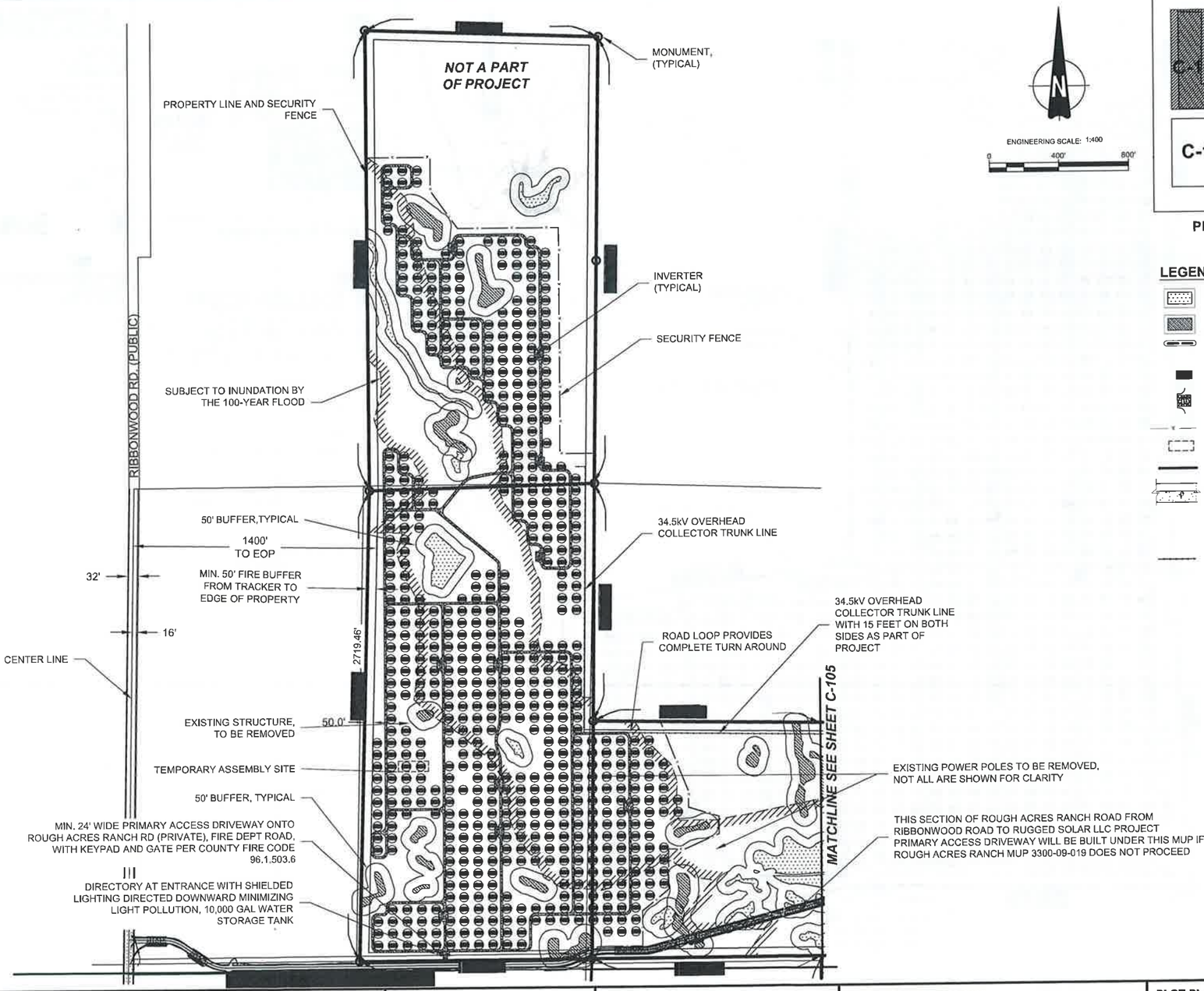
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

PLOT PLAN
SHEET MAP

SHEET NUMBER	REV.
C-101	0



ENGINEERING SCALE: 1:400

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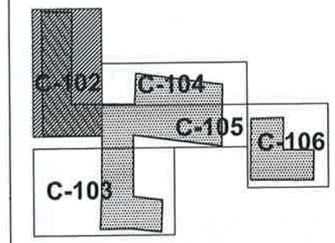

PLOT PLAN KEY MAP

LEGEND:

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- TEMPORARY ASSEMBLY SITE
- PROPERTY LINE
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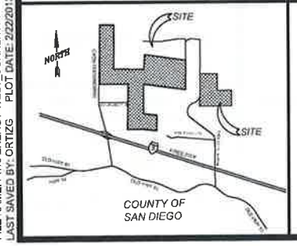

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Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

PLOT PLAN (NORTH WEST)

SHEET NUMBER	REV.
C-102	0

FILE NAME: P:\10 ENERGY WEST_CURRENT\LI - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\RUGGED NO SERV. ROAD\C-102 PLOT PLAN.DWG
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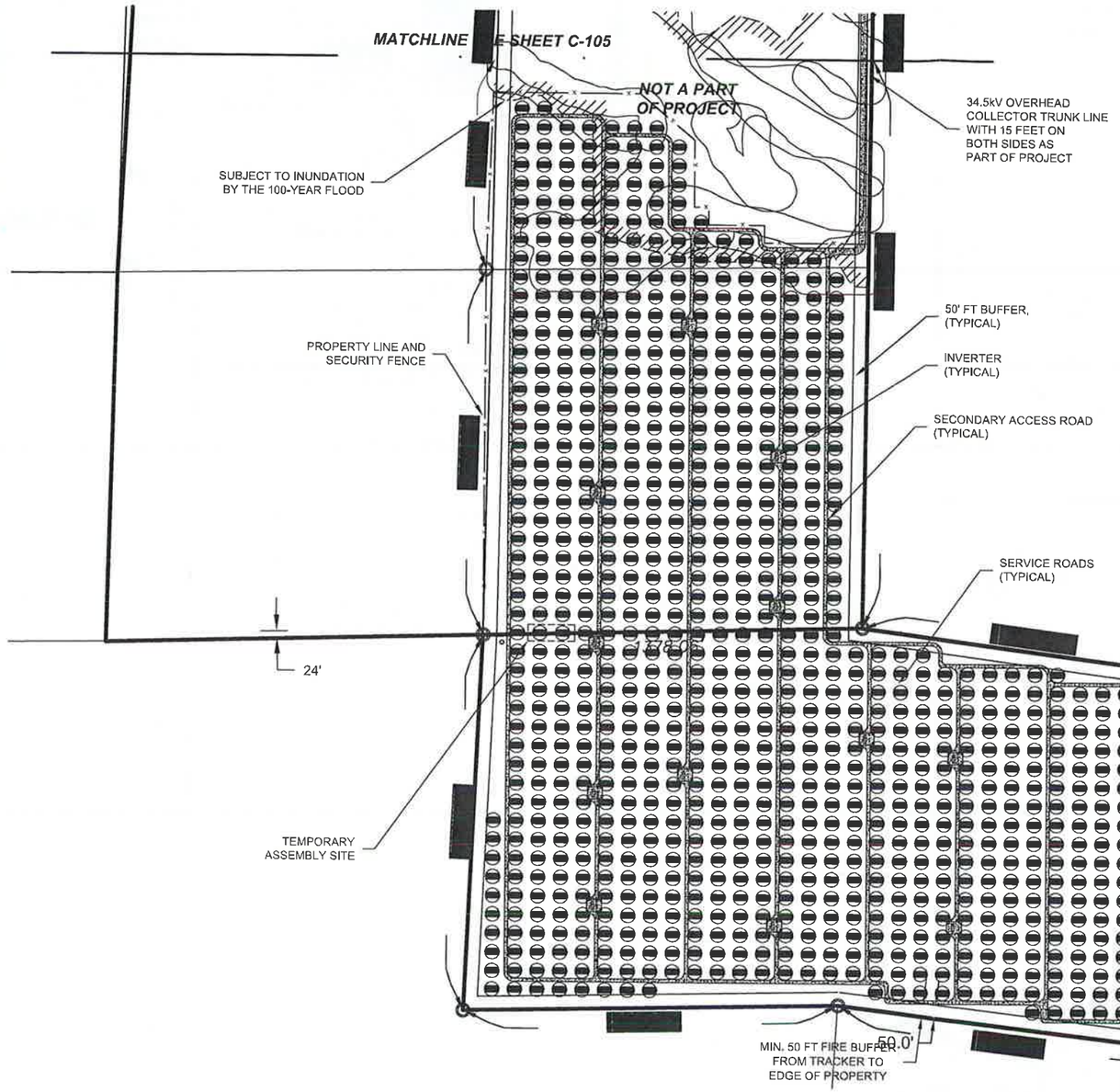

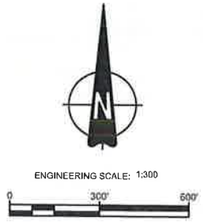

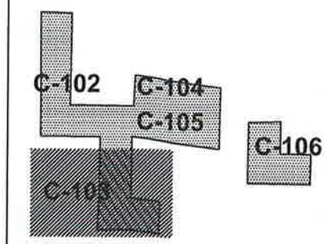

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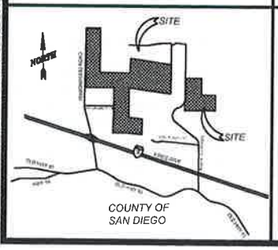
VICINITY MAP



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Coverage Ratio:	20%

SHEET TITLE

PLOT PLAN SOUTH

SHEET NUMBER	REV.
C-103	0

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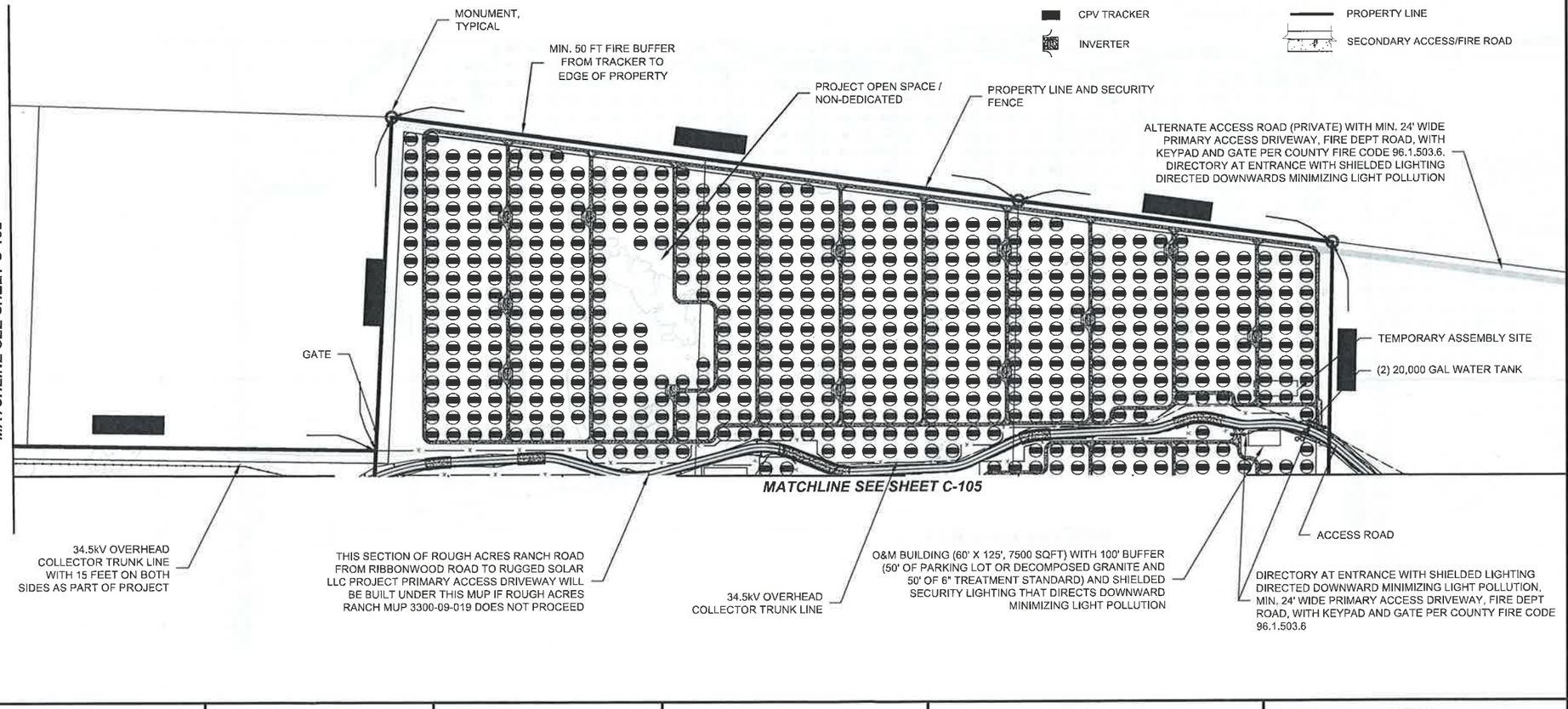

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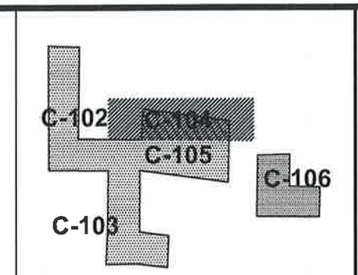
ENGINEERING SCALE: 1:300

0 300' 600'



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VICINITY MAP

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Number of BB:	61
Total AC Capacity (MWs):	Approx. 84 MW
Inverter Skid AC Capacity (MWs):	1.36 to 2.0
No. of 1.36 MW Inverter Skids:	61
Total Lot Size (Acres):	765
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

PLOT PLAN
CENTER TOP

SHEET NUMBER	REV.
C-104	0

FILE NAME: P:\10 ENERGY WEST_CURRENT\J - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\RUGGED NO SERV. ROAD\C-104 PLOT PLAN.DWG
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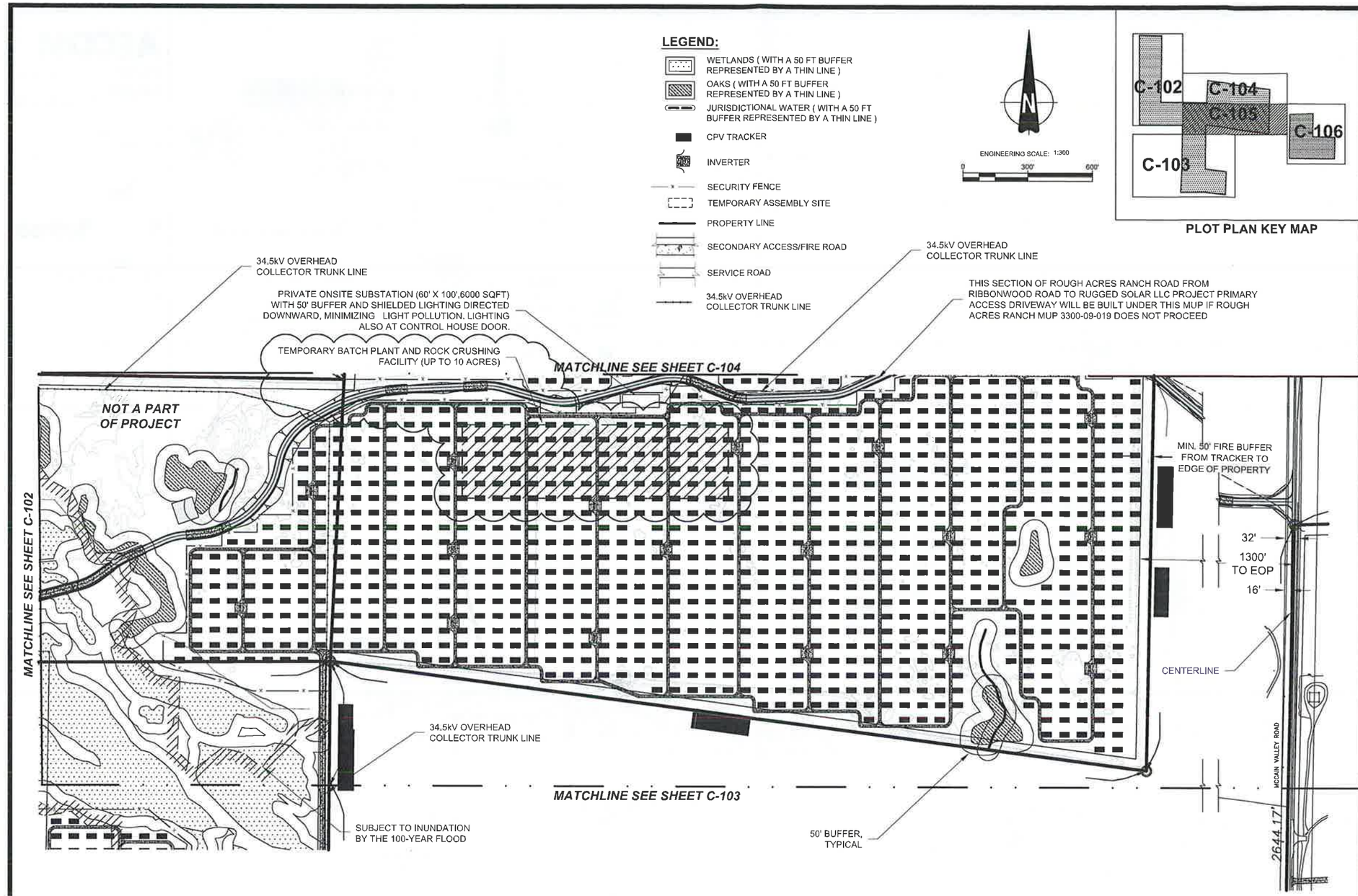

AECOM

DESIGNER

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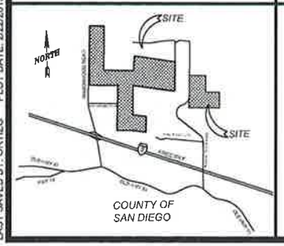
CLIENT

Soitec

Soitec Solar Development, LLC
16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP



OWNER INFORMATION

NAME: SEE TABLE AT C-100
ADDRESS:
CITY:
STATE:
ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

NAME: Pal Brown
ADDRESS: 16550 Via Esprillo
CITY: San Diego
STATE: CA
ZIP: 92127
PHONE: (858) 746-9000
FAX:
EMAIL: patrick.brown@soitec.com

PARCEL INFORMATION

APN: 6120300100,6120301900,6110910700,6110910300, 6110900400,6110600400,6110900200,6111000700, 6111100100

SITE ADDRESS:
North of I-8, east of Ribbonwood Road. on both sides of McCain Valley Road.

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Inverter Skid AC Capacity (MWs):	1.36 to 2.0
No. of 1.36 MW Inverter Skids:	61
Total Lot Size (Acres):	765
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

PLOT PLAN
CENTER BOTTOM

SHEET NUMBER	REV.
C-105	0

FILE NAME: P:\10 ENERGY WEST_CURRENT\LI - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\RUGGED NO SERV. ROAD\C-105 PLOT PLAN.DWG
LAST SAVED BY: ORTIZG PLOT DATE: 2/22/2013 10:08:18 AM

OF PROJECT)

EXISTING WATER WELL, NTS

176'-3" TO EOP

100' GEN-TIE ROW

32' PROPERTY LINE

PRE-EXISTING DRIVEWAY PART OF SDG&E TRANSMISSION CORRDOR

MCCAIN VALLEY ROAD

ROAD CENTER LINE

50'

MIN. 24' WIDE PRIMARY ACCESS DRIVEWAY (PRIVATE), FIRE DEPT ROAD, WITH KEYPAD AND GATE PER COUNTY FIRE CODE 96.1.503.6. DIRECTORY AT ENTRANCE WITH SHIELDED LIGHTING DIRECTED DOWNWARD MINIMIZING LIGHT POLLUTION.

2644.17'

10,000 GAL WATER STORAGE TANK

TEMPORARY ASSEMBLY SITE

ROAD CENTER LINE

EXISTING WATER WELL, NTS

1371.89'

SECURITY FENCE

1384.16'

MONUMENT, TYPICAL

50 FT BUFFER, TYPICAL

MIN. 50' FIRE BUFFER FROM TRACKER TO EDGE OF PROPERTY

1318.66'

APN 611-110-02-00

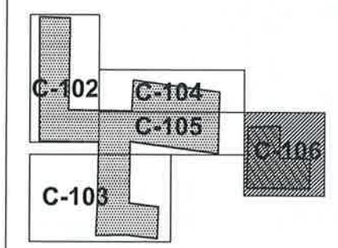
NOT A PART OF PROJECT

1303.05'

2686.78'

ENGINEERING SCALE: 1:200

0 200' 400'



PLOT PLAN KEY MAP

LEGEND:

- WETLANDS (WITH A 50 FT BUFFER REPRESENTED BY A THIN LINE)
- OAKS (WITH A 50 FT BUFFER REPRESENTED BY A THIN LINE)
- JURISDICTIONAL WATER (WITH A 50 FT BUFFER REPRESENTED BY A THIN LINE)
- CPV TRACKER
- INVERTER
- SECURITY FENCE
- 34.5kV OVERHEAD COLLECTOR / 69kV GEN-TIE CO-LOCATED ON SAME POLES
- 34.5kV OVERHEAD COLLECTOR TRUNK LINE
- TEMPORARY ASSEMBLY SITE
- PROPERTY LINE
- SECONDARY ACCESS/FIRE ROAD

AECOM

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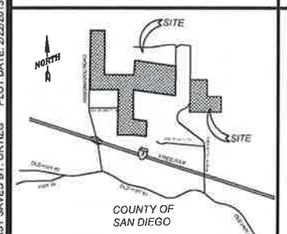
VICINITY MAP



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CONTACT INFORMATION

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STATE: CA
ZIP: 92127
PHONE: (858) 746-9000
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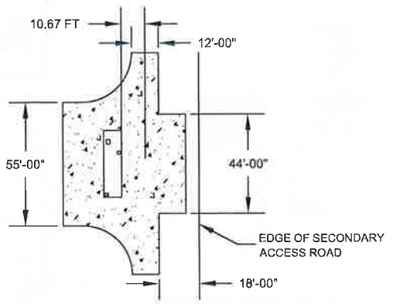
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

PLOT PLAN EAST

SHEET NUMBER	REV.
C-106	0

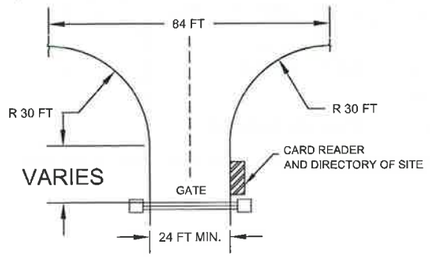
FILE NAME: P:\10 ENERGY WEST_CURRENT\U - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\RUGGED NO SERV. ROAD\C-105 PLOT PLAN.DWG
LAST SAVED BY: ORTIZG PLOT DATE: 2/22/2013 10:05:51 AM



1 DETAIL - DECOMPOSED GRANITE PAD

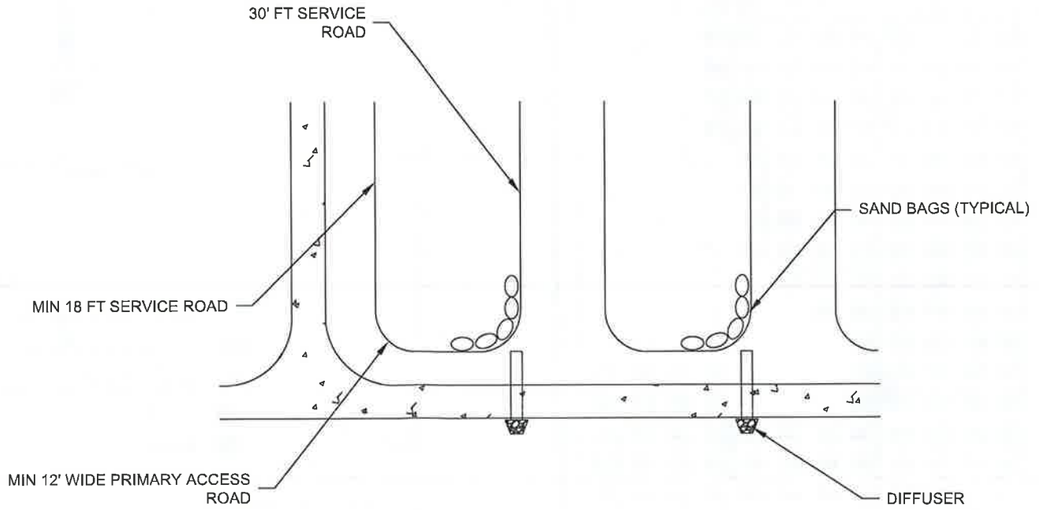
SEE DETAIL 1 FOR MATERIAL COMPACTION

NTS



2 DETAIL - ENTRANCE

NTS



3 DETAIL - ROAD LAYOUT

NTS

AECOM

DESIGNER

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16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP

OWNER INFORMATION

NAME: SEE TABLE ABOVE
ADDRESS:
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ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

NAME: Pat Brown
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ZIP: 92127
PHONE: (858) 746-9000
FAX:
EMAIL: patrick.brown@soitec.com

PARCEL INFORMATION

612030010,612030190,6110910700,6110910300, APN:6110900400,6110600400,6110900200,6111000100, 6111000200,6111100100

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SHEET TITLE

ROAD DETAIL

SHEET NUMBER	REV.
C-107	0

FILE NAME: P:\10 ENERGY WEST_CURRENTLI - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\RUGGED NO SERV. ROAD\C-107 PLOT PLAN.DWG
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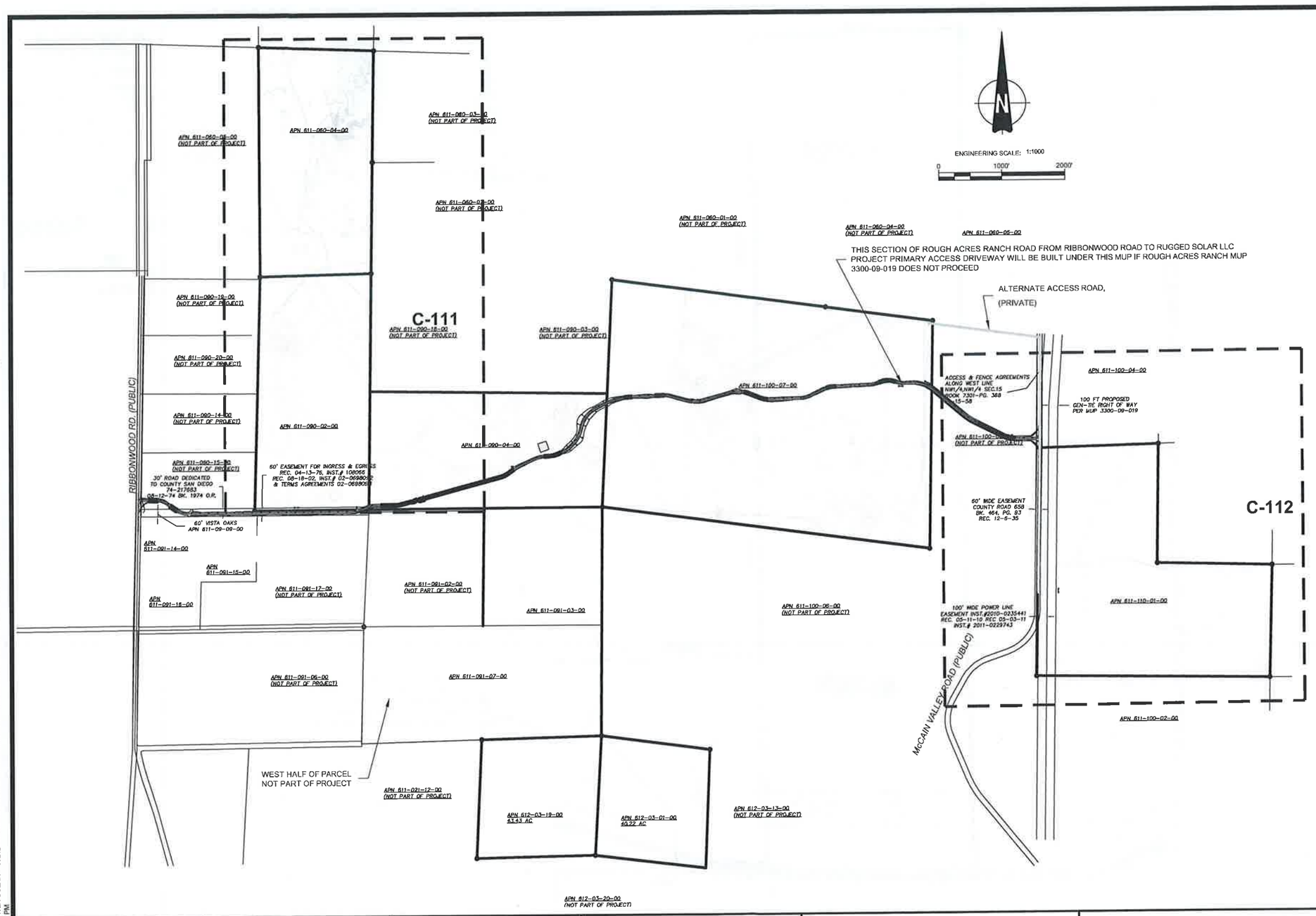

VICINITY MAP

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AECOM

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16550 Via Esprillo
San Diego, CA 92127

SHEET TITLE

EASEMENT PLAN SHEET MAP

SHEET NUMBER	REV.
C-110	0

FILE NAME: P:\10 ENERGY WEST_CURRENT\LI - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLARIC-110 EASEMENT PLAN.DWG
LAST SAVED BY: ORTIZC PLOT DATE: 2/1/2013 2:32:14 PM

ENGINEERING SCALE: 1:400

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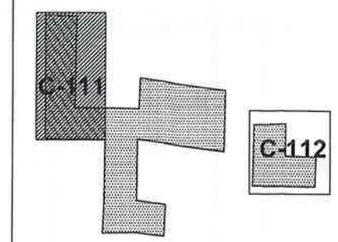

PLOT PLAN KEY MAP

AECOM

DESIGNER

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858.947.7144 tel 858.947.7145 fax
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CLIENT

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16550 Via Esprillo
San Diego, CA 92127

FILE NAME: PA10 ENERGY WEST_CURRENTLI - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\C-111 EASEMENT PLAN.DWG
LAST SAVED BY: ORTIZG PLOT DATE: 2/1/2013 2:31:26 PM

VICINITY MAP

OWNER INFORMATION

NAME: SEE TABLE AT C-100
ADDRESS:
CITY:
STATE:
ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

NAME: Pat Brown
ADDRESS: 16550 Via Esprillo
CITY: San Diego
STATE: CA
ZIP: 92127
PHONE: (858) 746-9000
FAX:
EMAIL: Brison.Ellinghaus@soitec.com

PARCEL INFORMATION

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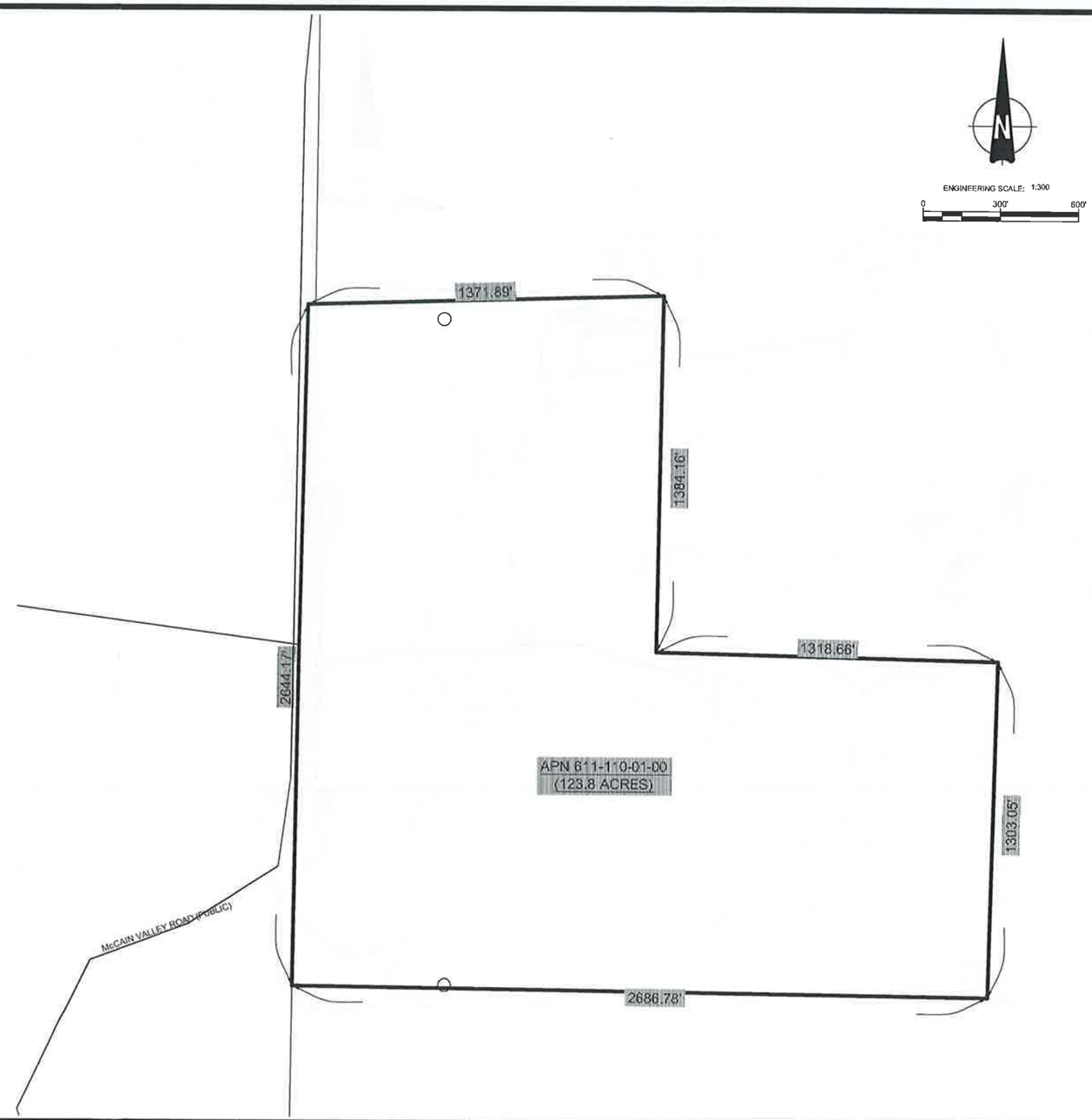
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

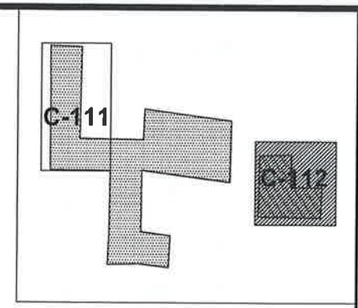
EASEMENT PLAN
(NORTH WEST)

SHEET NUMBER	REV.
C-111	0



ENGINEERING SCALE: 1:300

0 300' 600'



PLOT PLAN KEY MAP

DESIGNER

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VICINITY MAP

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PARCEL INFORMATION

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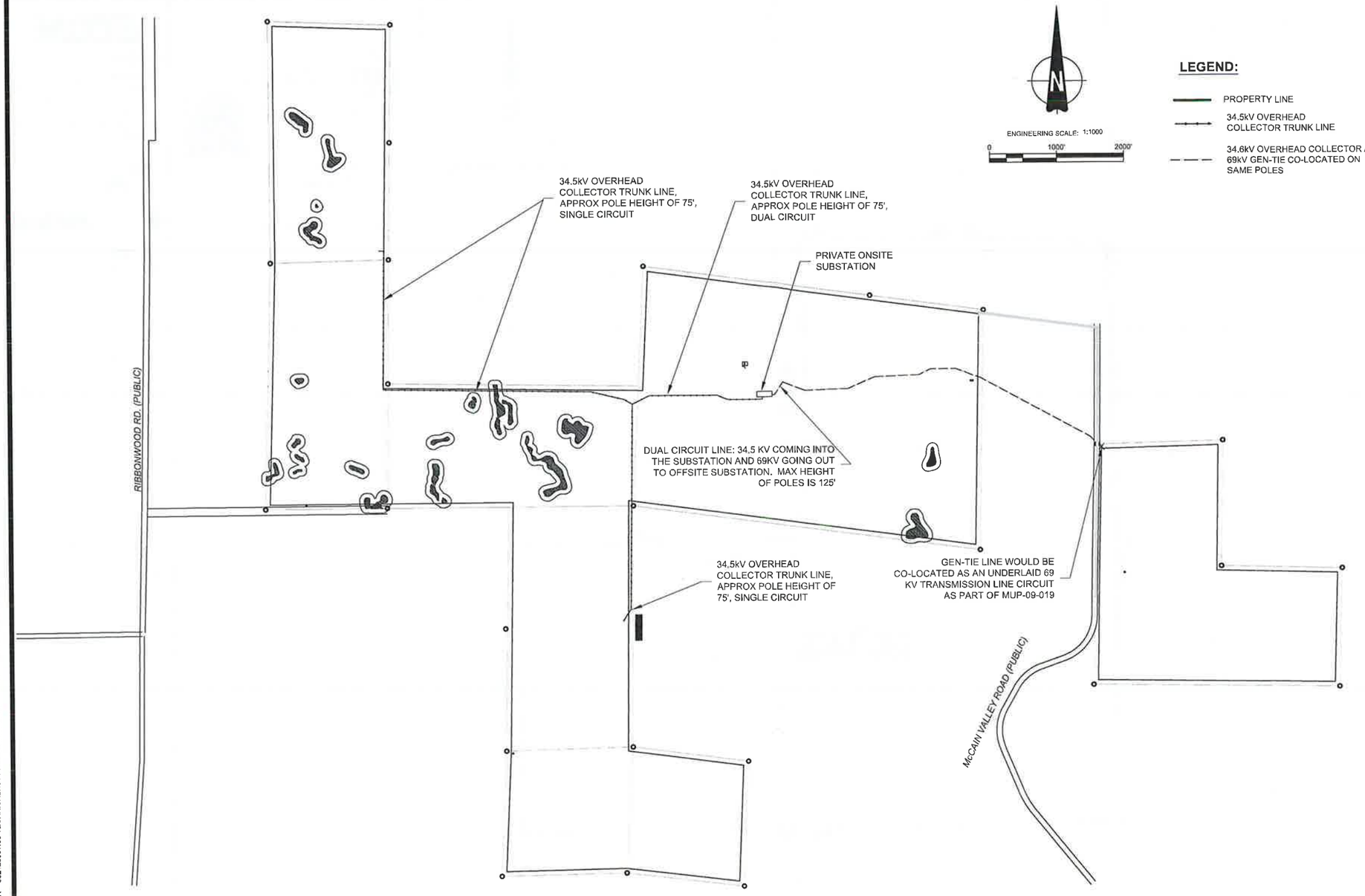
SHEET TITLE

EASEMENT PLAN EAST

SHEET NUMBER	REV.
C-112	0

FILE NAME: P:\10 ENERGY WEST_CURRENT\LI - CONCENTRIX SOLAR - 60216659400 TECHNICAL\401 PRELIMINARY ENGINEERING\V PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\C-112 EASEMENT PLAN.DWG
LAST SAVED BY: ORTIZG PLOT DATE: 2/1/2013 2:32:51 PM



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LAST SAVED BY: ORTIZG PLOT DATE: 12/20/2013 11:45:17 AM

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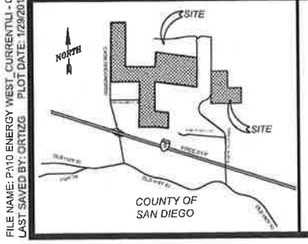
VICINITY MAP



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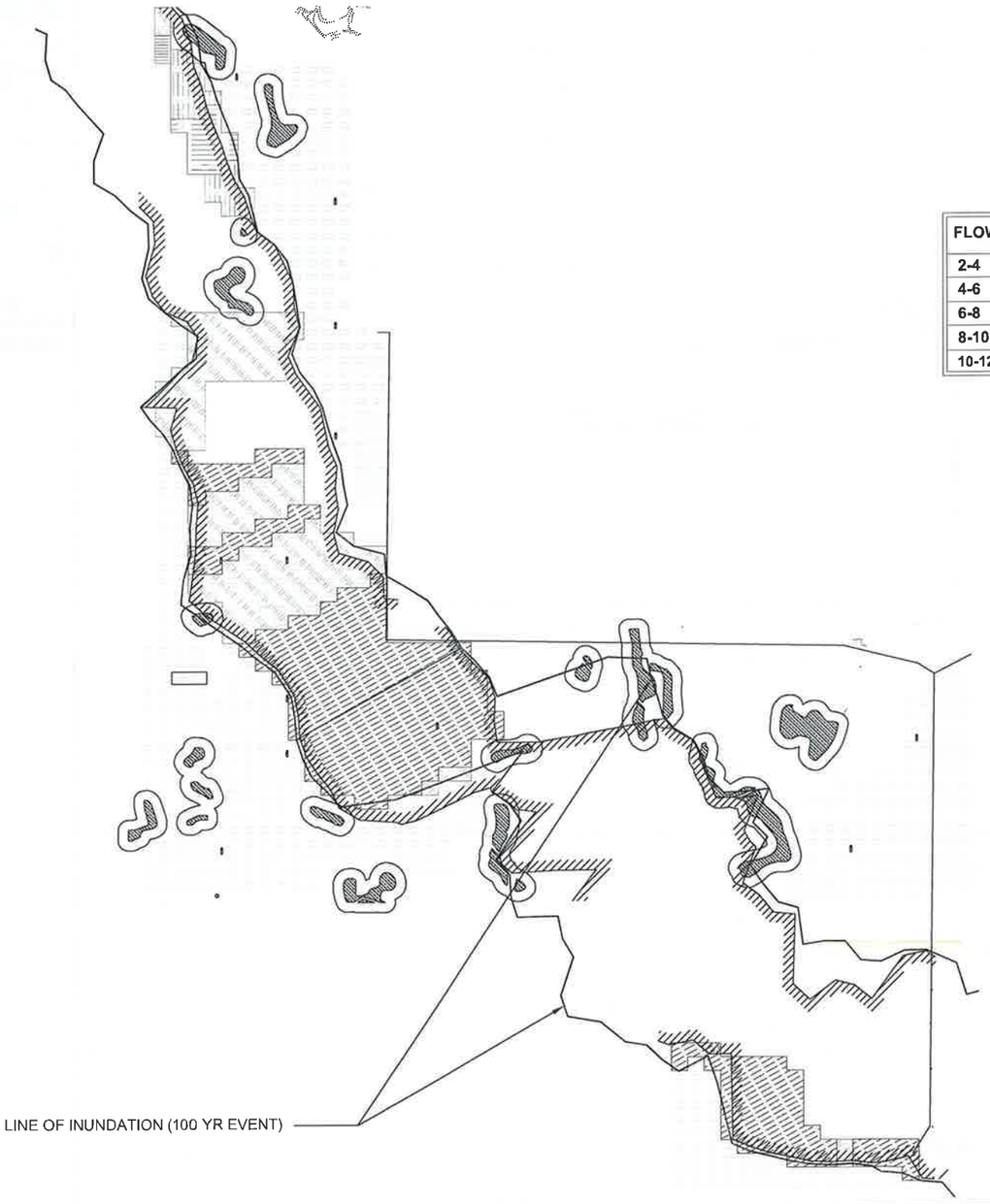
SHEET TITLE

PLOT PLAN
34.5 KV OVERHEAD

SHEET NUMBER	REV.
C-120	0



FLOW DEPTHS (FT)	CORRESPONDING NUMBER OF CPV SYSTEMS	SEE NOTES:
2-4	202	1
4-6	103	2
6-8	4	3
8-10	17	3
10-12	13	3

NOTES:

1. FOR AREAS WHERE FLOW DEPTH IS 2-4 FT, THE TRACKER CONTROL UNIT (TCU) AND AIR DRYING UNIT (ADU) WILL BE MOUNTED ON THE TRACKER AT LEAST 4 FEET ABOVE GROUND AND THE TRACKER MAST HEIGHT WILL BE RAISED BY 4 FEET. TOP OF TRACKER SHALL NOT EXCEED 32 FEET ABOVE GRADE

2. FOR AREAS WHERE FLOW DEPTH IS 4-6 FT, THE TCU AND ADU WILL BE MOUNTED ON THE TRACKER AT LEAST 6 FEET ABOVE GROUND AND THE TRACKER MAST HEIGHT WILL BE RAISED BY 6 FEET. TOP OF TRACKER SHALL NOT EXCEED 36 FEET ABOVE GRADE

3. FOR AREAS WHERE FLOW DEPTH IS GREATER THAN 6 FEET, THE TRACKER MAST HEIGHT SHOULD BE RAISED TO THE UPPER LIMIT OF THE FLOW DEPTH FOR THAT AREA, THE TCU AND ADU SHALL BE MOUNTED ON THE TRACKER AT LEAST TO THE HEIGHT OF THE UPPER LIMIT OF THE FLOW DEPTH (TOP OF TRACKER SHALL NOT EXCEED 40 FEET ABOVE GRADE) OR SAID ELECTRONIC BOXES SHALL BE WATERPROOF AND THE TRACKER PLACED IN STOW MODE DURING AN EXTREME FLOOD EVENT. TOP OF TRACKER SHALL NOT EXCEED 28 FEET ABOVE GRADE

AECOM

DESIGNER

AECOM

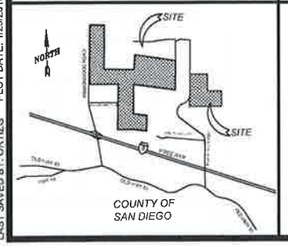
AECOM TECHINCAL SERVICES, INC
440 Stevens Avenue, Suite 250
Solana Beach, CA 92075
858.947.7144 tel 858.947.7145 fax
www.aecom.com

CLIENT

Soitec

Soitec Solar Development, LLC
16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP



OWNER INFORMATION

NAME: SEE TABLE AT C-100
ADDRESS:
CITY:
STATE:
ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

NAME: Pat Brown
ADDRESS: 16550 Via Esprillo
CITY: San Diego
STATE: CA
ZIP: 92127
PHONE: (858) 746-9000
FAX:
EMAIL: patrick.brown@soitec.com

PARCEL INFORMATION

612030100,6120301900,6110910700,6110910300, APN:6110900400,6110500400,6110900200,6111000700, 6111100100

SITE ADDRESS:
North of I-8, east of Ribbonwood Road on both sides of McCain Valley Road.

I CERTIFY THAT I HAVE READ ALL ZONING REGULATIONS AND BEST MANAGEMENT PRACTICES (BMPs) NOTES AND THAT I AM THE DESIGNER OF THE PROPOSED PROJECT:

DESIGNER SIGNATURE REQUIRED — 03/01/2012 DATE

PROJECT INFORMATION

EXISTING:
Rolling, rugged land with two detached land sections made up of many parcels. All land is randomly populated by boulders. The site is minimally developed with unpaved roads.

PROPOSED:
Approximately 84 Megawatt (MW) project located on approximately 474 acres and includes construction and operation of approximately 3588 Concentrated Photovoltaic (CPV) trackers configured into 61 (1.36 MW) Building Blocks (BB) each consisting of 58 trackers with associated Inverters and Transformers.

PLOT PLAN INFORMATION

CPV System Summary	
Approx. Number of Trackers:	3588
Tracker per BB:	58
Number of BB:	61
Total AC Capacity (MWs):	Approx. 84 MW
Inverter Skid AC Capacity (MWs):	1.36 to 2.0
No. of 1.36 MW Inverter Skids:	61
Total Lot Size (Acres):	765
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

FLOOD PLAIN AND TRACKER CONSTRUCTION

SHEET NUMBER	REV.
C-121	0

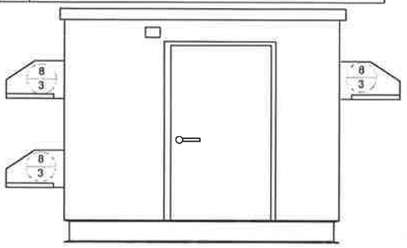
DPLU #040 REV 03/10/2011
BUILDING PLOT PLAN TEMPLATE

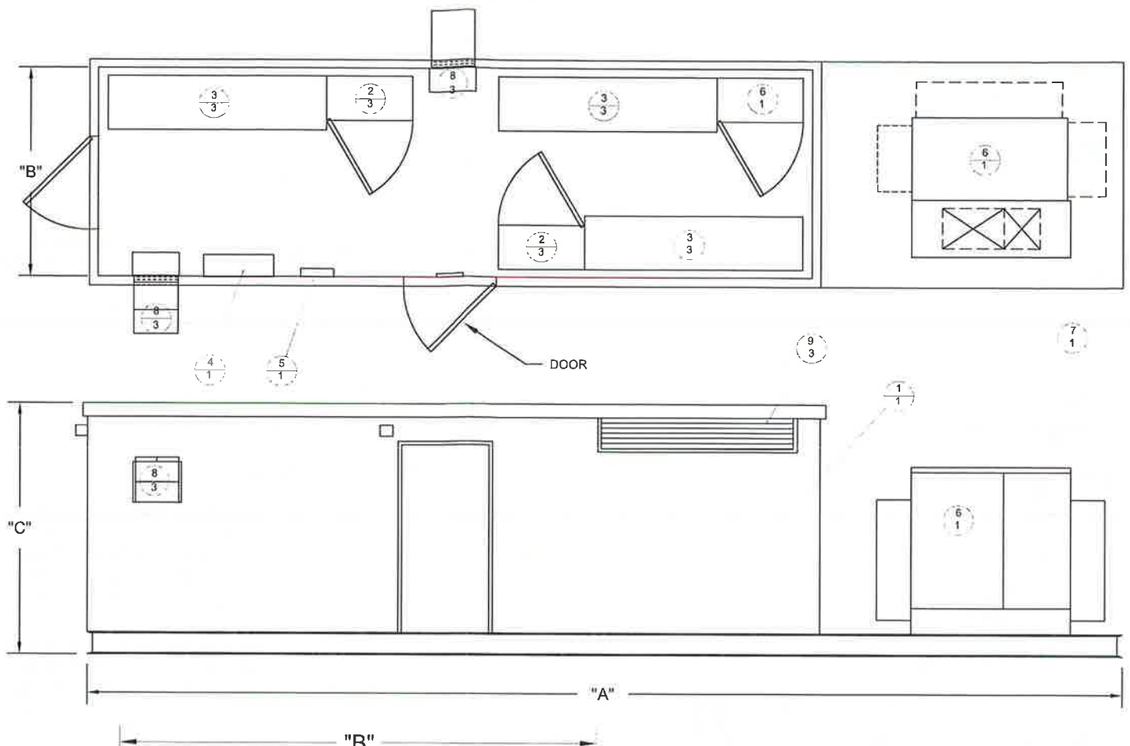
FILE NAME: P:\10 ENERGY WEST_CURRENT\J - CONCENTRIX SOLAR - 60212653400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLARIC-121.DWG
LAST SAVED BY: ORTIZG PLOT DATE: 1/29/2013 10:01:45 AM

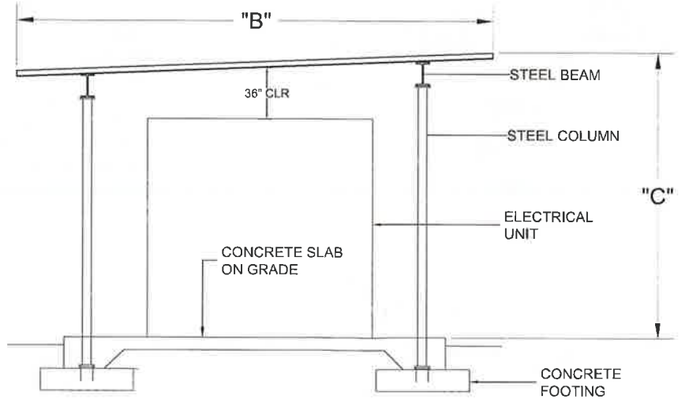
INVERTER DIMENSION

INVERTER RATING (MW)	DIMENSION (FT)		
	"A"	"B"	"C"
1.36	25	10	12
2.00	40	10	12

REV	ITEM	QTY	DESCRIPTION
	1	1	PRECAST SHELTER
	2		PRIMARY RE-COMBINER BOX, 16 X 150A MCCC (QTY OF 2 OR 3)
	3		XC 680 INVERTER (QTY OF 2 OR 3)
	4	1	SCADA
	5	1	POWER PANEL
	6	1	TRANSFORMER
	7	1	STEEL SKID
	8	3	INTAKE AIR FANS
	9	3	EXHAUST LOUVERS







- OPEN INVERTER ON SKID WITH SUN SHADE

Scale: NA

VICINITY MAP

OWNER INFORMATION

NAME: SEE TABLE AT C-100
ADDRESS:
CITY:
STATE:
ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

NAME: Pat Brown
ADDRESS: 16550 Via Esprillo
CITY: San Diego
STATE: CA
ZIP: 92127
PHONE: (858) 746-9000
FAX:
EMAIL: patrick.brown@soitec.com

PARCEL INFORMATION

APN: 6120300100,6120301900,6110910700,6110910300, 6110900400,6110800400,6110900200,6111000100, 6111000200,6111100100

SITE ADDRESS:
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No. of 1.36 MW Inverter Skids:	61
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Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

AECOM

DESIGNER

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www.aecom.com

CLIENT

Soitec

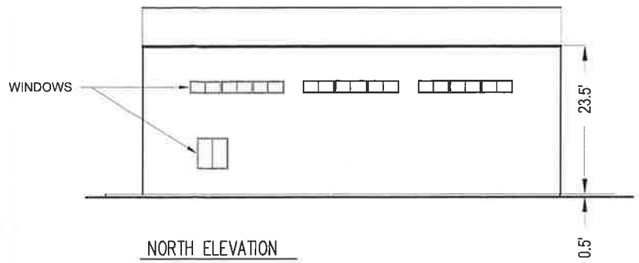
Soitec Solar Development, LLC
16550 Via Esprillo
San Diego, CA 92127

SHEET TITLE

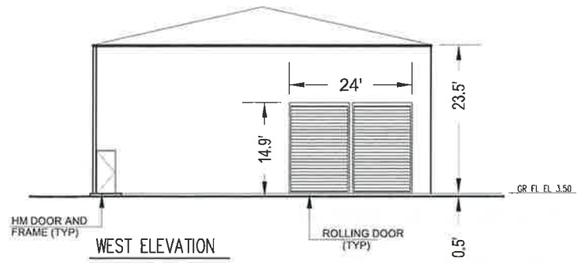
1.36 / 2.0 MW INVERTER BOX DESIGN

SHEET NUMBER	REV.
C-130	0

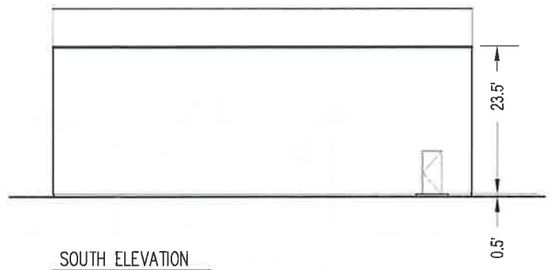
FILE NAME: P:\10 ENERGY WEST_CURRENT\Li - CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLARIC-130.DWG
LAST SAVED BY: DKITZG PLOT DATE: 1/29/2013 11:41:49 AM



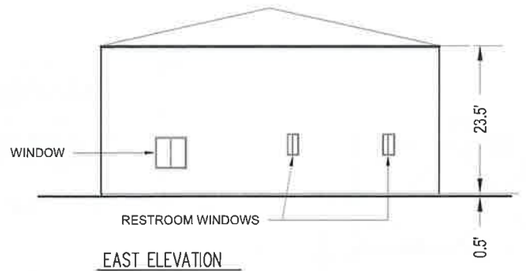
NORTH ELEVATION



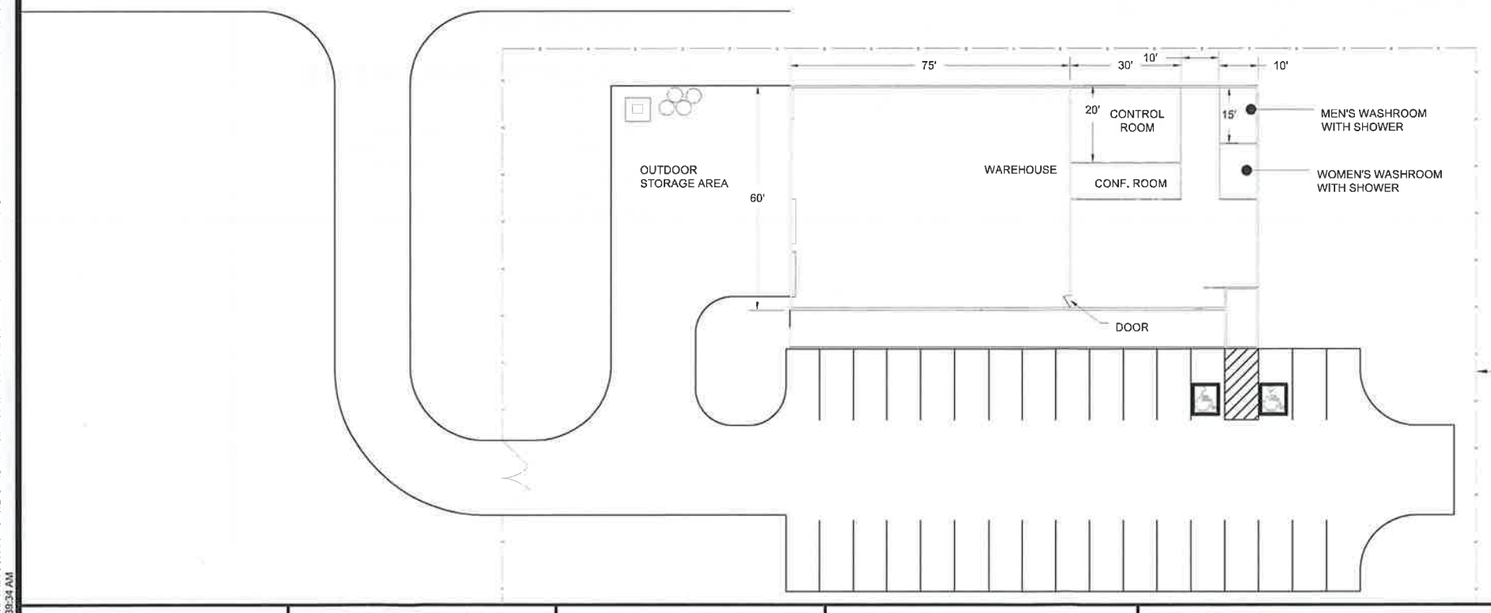
WEST ELEVATION



SOUTH ELEVATION



EAST ELEVATION



A | PLAN VIEW
Scale: NA

DESIGNER

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AECOM TECHINCAL SERVICES, INC
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858.947.7144 tel 858.947.7145 fax
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CLIENT

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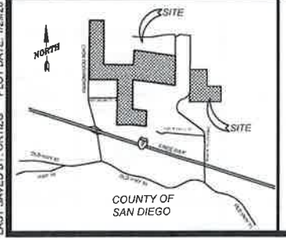
16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP



OWNER INFORMATION

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APN: 6120300100,6120301900,6110910700,6110910300, 6110900400,6110600400,6110900200,6111000100, 6111000200,6111100100

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No. of 1.36 MW Inverter Skids:	61
Total Lot Size (Acres):	765
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

O & M BUILDING

SHEET NUMBER	REV.
C-131	0

FILE NAME: P:\10 ENERGY WEST_CURRENT\Ui - CONCENTRIX SOLAR - 60212653400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\C-131.DWG
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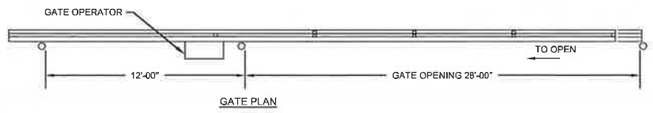
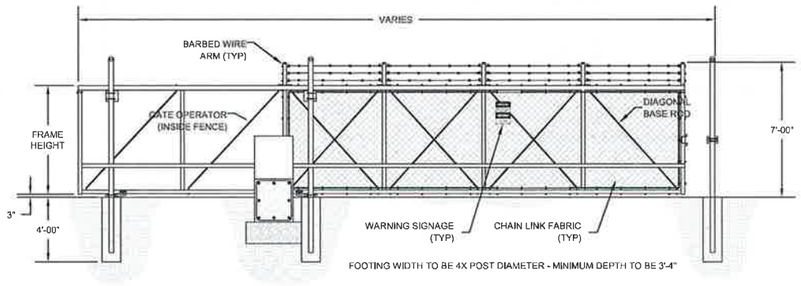


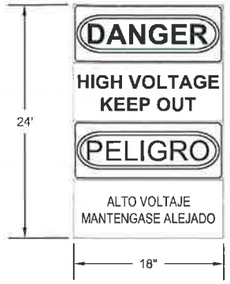
GATE PLAN



1 | DETAIL - GATE

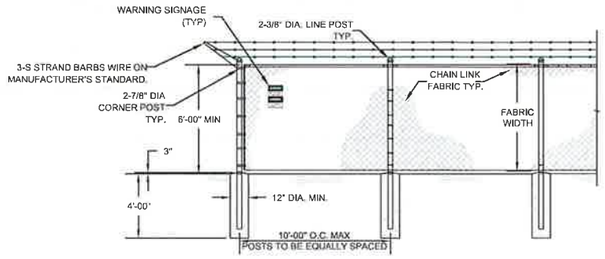
SINGLE MOTORIZED SLIDING GATE NTS

* 4" DIAMETER POST FOR GATE LEAF LENGHT 35'-0" AND LESS



2 | WARNING SIGNAGE

Scale: NTS



3 | DETAIL - CHAIN LINK FENCE

NTS

FENCE NOTES:

1. CHAIN LINK FABRIC SHALL BE 2" MESH NO.9 GAGE WERE SECURITY FASTED TO LINE POSTS AND RAILS.WIRE FASTENERS AND THE CLIPS SHALL BE NO.11 GAGE
2. WIRE.CONCRETE FOOTINGS SHALL HAVE TOPS CROWNED AT GROUND LEVEL.
3. CHAIN LINK FENCE TO BE FITTED WITH UV- RESISTANT MESH FABRIC, COLOR PER CUSTOMER REQUEST.
4. ELECTRICAL SAFETY SIGNAGE TO BE PLACED ALONG PERIMETER.

DESIGNER

AECOM

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Solana Beach, CA 98075
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CLIENT

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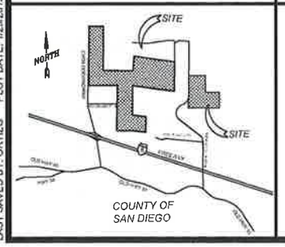
16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP



OWNER INFORMATION

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CONTACT INFORMATION

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PARCEL INFORMATION

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No. of 1.36 MW Inverter Skids:	61
Total Lot Size (Acres):	765
Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

FENCE ELEVATION DETAIL

SHEET NUMBER	REV.
C-132	0

FILE NAME: P:\10 ENERGY WEST_CURRENT\1-CONCENTRIX SOLAR - 60212653\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV_LAYOUT\RUGGED SOLAR\C-132.DWG
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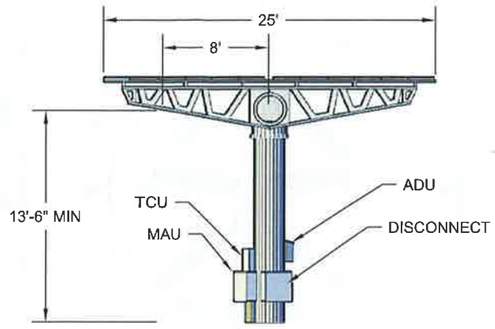
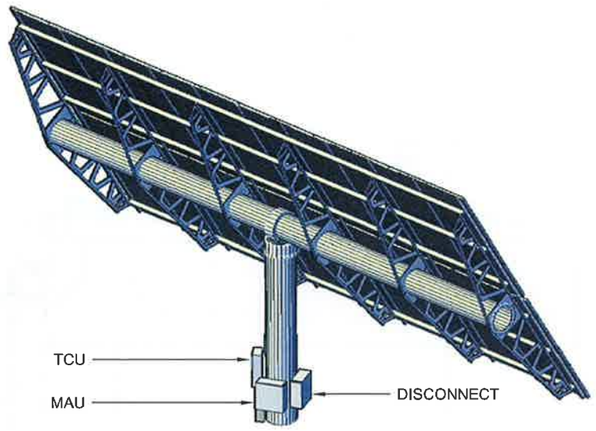
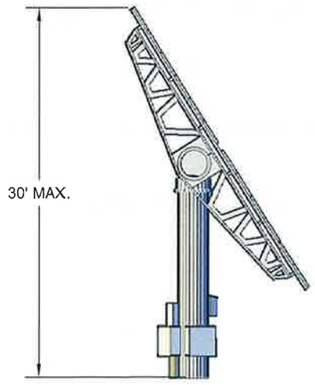


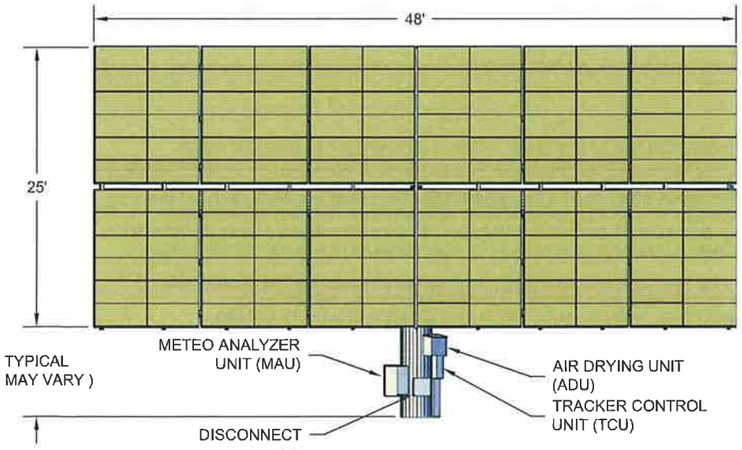
1 STOW MODE VIEW
Scale: NTS



2 ISOMETRIC VIEW
Scale: NTS



3 SIDE VIEW
Scale: NTS



4 FRONT VIEW
Scale: NTS

VICINITY MAP

OWNER INFORMATION

NAME: SEE TABLE AT C-100
ADDRESS:
CITY:
STATE:
ZIP:
PHONE:
FAX:
EMAIL:

CONTACT INFORMATION

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Estimated Disturbed Acreage:	474
Coverage Ratio:	20%

SHEET TITLE

TRACKER ELEVATION DETAIL

SHEET NUMBER	REV.
C-133	0

DESIGNER

AECOM
AECOM TECHINCAL SERVICES, INC
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Solana Beach, CA 98075
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CLIENT

Soitec

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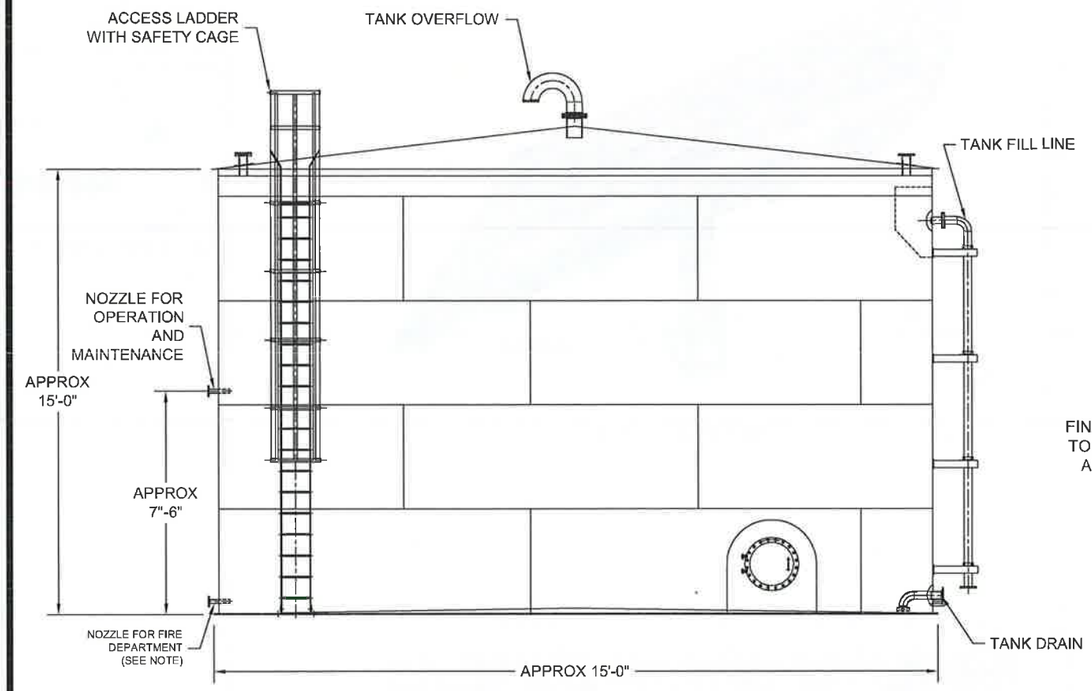
16550 Via Esprillo
San Diego, CA 92127

FILE NAME: P:\10 ENERGY WEST_CURRENT\LI - CONCENTRIX SOLAR - 60212659400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\C-133 CPV TRACKER.DWG
LAST SAVED BY: ORTIZG PLOT DATE: 2/1/2013 2:36:53 PM

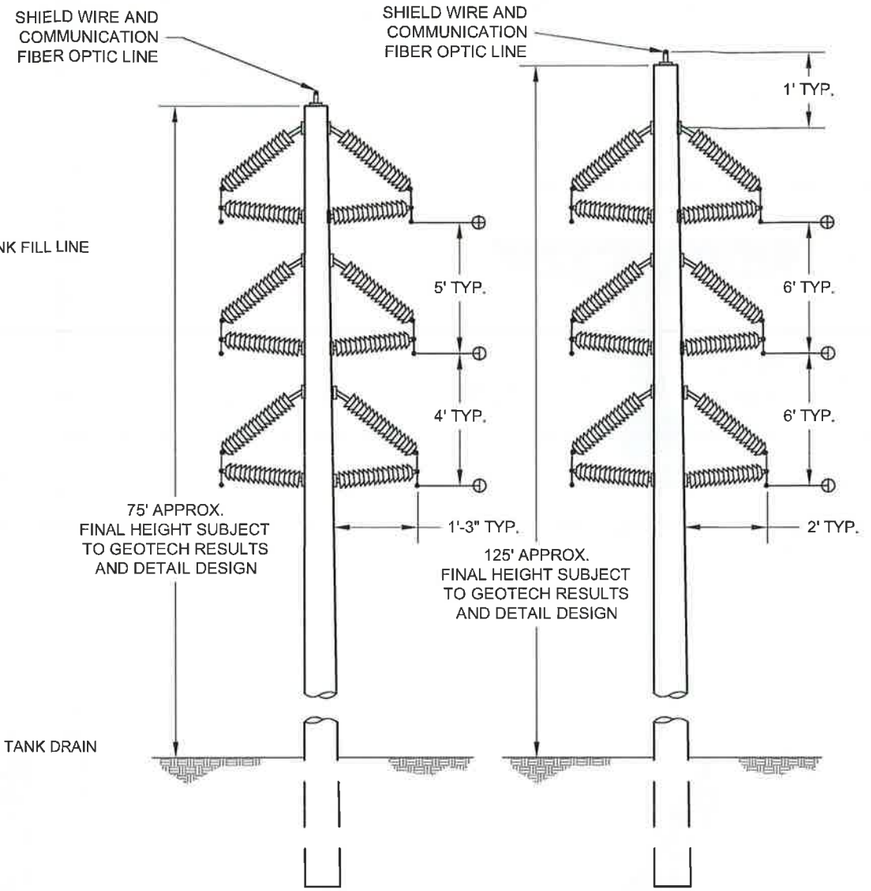


NOTE:

IN ACCORDANCE WITH SECTION 507.2.2 IN TITLE 9, DIVISION 6, CHAPTER 1 OF THE SAN DIEGO COUNTY CODE:

1. THE SUPPLY OUTLET SHALL BE AT EAST 4 INCHES IN DIAMETER FROM THE BASE OF THE TANK TO THE POINT OF OUTLET AT THE FIRE DEPARTMENT CONNECTION. THE FIRE DEPARTMENT CONNECTION SHALL BE AT LEAST ONE 4-INCH NATIONAL STANDARD THREAD (MALE), REDUCE TO ONE 2½ INCH NATIONAL STANDARD THREAD (MALE). ADDITIONAL OUTLETS MAY BE REQUIRED.
2. THE LOCATION OF THE FIRE DEPARTMENT OUTLET TO BE DETERMINED ON THE PLOT PLAN WHEN SUBMITTED TO THE FIRE DEPARTMENT. CONSIDERATION WILL BE GIVEN TO TOPOGRAPHY, ELEVATIONS, AND DISTANCE FROM STRUCTURES, DRIVEWAY ACCESS, PREVAILING WINDS, ETC.
3. THE OUTLET SHALL BE LOCATED ADJACENT TO THE FIRE ACCESS ROAD.

WATER TANK



34.5 KV OVERHEAD, DUAL CIRCUIT

34.5 KV / 69 KV OVERHEAD

AECOM

DESIGNER

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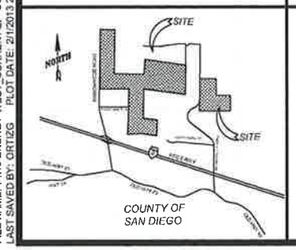
Soitec

Soitec Solar Development, LLC
16550 Via Esprillo
San Diego, CA 92127

VICINITY MAP	OWNER INFORMATION	CONTACT INFORMATION	PARCEL INFORMATION	PROJECT INFORMATION	PLOT PLAN INFORMATION	SHEET TITLE
	NAME: SEE TABLE ABOVE ADDRESS: CITY: STATE: ZIP: PHONE: FAX: EMAIL:	NAME: Pat Brown ADDRESS: 16550 Via Esprillo CITY: San Diego STATE: CA ZIP: 92127 PHONE: (858) 746-9000 FAX: EMAIL: patrick.brown@soitec.com	6120300100,6120301900,6110910700,6110910300, APN: 6110900400,6110600400,6110900200,6111000100, 6111000200,6111100100 SITE ADDRESS: North of I-8, east of Ribbonwood Road, on both sides of McCain Valley Road. I CERTIFY THAT I HAVE READ ALL ZONING REGULATIONS AND BEST MANAGEMENT PRACTICES (BMPs) NOTES AND THAT I AM THE DESIGNER OF THE PROPOSED PROJECT: DESIGNER SIGNATURE REQUIRED DATE	EXISTING: Rolling, rugged land with two detached land sections made up of many parcels. All land is randomly populated by boulders. The site is minimally developed with unpaved roads. PROPOSED: Approximately 84 Megawatt (MW) project located on approximately 474 acres and includes construction and operation of approximately 3588 Concentrated Photovoltaic (CPV) trackers configured into 61 (1.36 MW) Building Blocks (BB) each consisting of 58 trackers with associated Inverters and Transformers.	CPV System Summary Approx. Number of Trackers: 3588 Tracker per BB: 58 Number of BB: 61 Total AC Capacity (MWs): Approx. 84 MW Inverter Skid AC Capacity (MWs): 1.36 to 2.0 No. of 1.36 MW Inverter Skids: 61 Total Lot Size (Acres): 765 Estimated Disturbed Acreage: 474 Coverage Ratio: 20%	WATER TANK & 34.5kV / 69kV OVERHEAD ELEVATION DETAL SHEET NUMBER: C-134 REV.: 0

FILE NAME: P:\10 ENERGY WEST_CURRENTLI - CONCENTRIX SOLAR - 60212693\400 TECHNICAL\401 PRELIMINARY ENGINEERING\7 PLANS - CADD FILES\ACAD SOLAR CPV LAYOUT\RUGGED SOLAR\C-134.DWG
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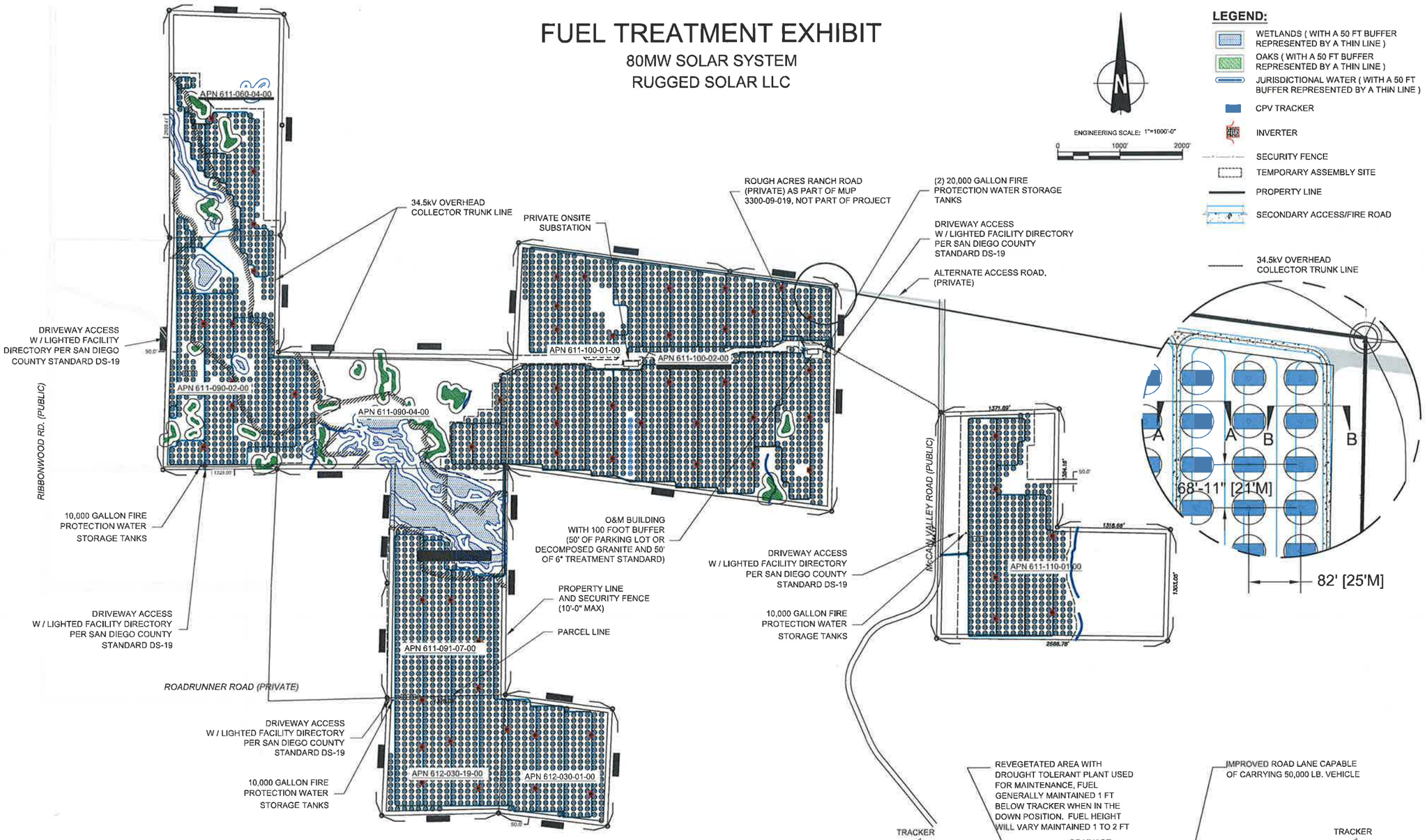
FUEL TREATMENT EXHIBIT

80MW SOLAR SYSTEM
RUGGED SOLAR LLC

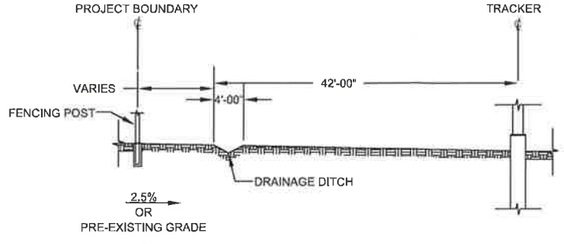


VICINITY MAP

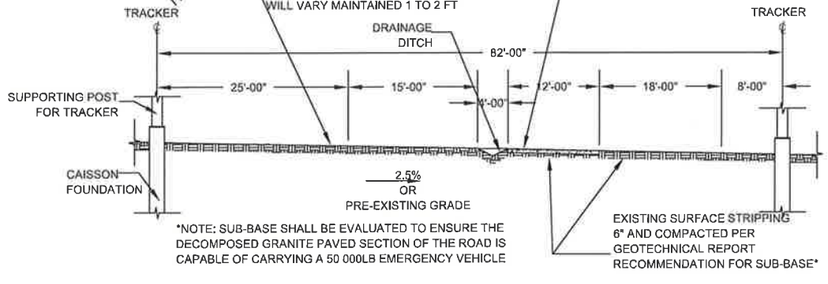
Certified By

David C. Bacon, President
Firewise 2000, Inc.
_____ (Date)

FIREWISE 2000, Inc.
26337 Sky Drive
Escondido, CA 92026
Telephone: 760-745-3947
Firewise2000@sbcglobal.net



B | **SECTION: PERIMETER BUFFER**
Scale: NTS



A | **SECTION: FIRE ACCESS & SERVICE ROADS**
Scale: NTS

APPENDIX B

Photograph Log

APPENDIX B
Photograph Log

Photo 1: View of the northern limits of the project site adjacent to McCain Valley Road. A fence associated with the staging area for the Sunrise Powerlink can be seen in the distance along with structures associated with Rough Acres Ranch.

Photo 2: A view of the project site looking southwest from the northern limits of the property.

Photo 3: Looking northward towards rock outcroppings along the northern property limits adjacent to Tule Creek.

Photo 4: The 500 kV Southwest Powerlink is located between the central and eastern building blocks along McCain Valley Road.

Photo 5: View of Tule Creek looking west towards the Kumeyaay Wind Farm.

Photo 6: The project site is actively being utilized for cattle grazing as seen here in this photo.

Photo 7: View of the central portion of the site and Coast Live Oak Woodland habitat.

Photo 8: View of the northwestern building block looking north towards McCain Valley.

Photo 9: View of Tule Creek and the southern building block looking southwest towards the Kumeyaay Wind Farm.

Photo 10: Large rock outcroppings located in the northwest portion of the project site.

Photo 11: View of the central portion of the project site looking west towards the Kumeyaay Wind Farm.

Photo 12: View of the southern limits of the project site looking north towards McCain Valley Road.

Photo 13: View of the building block located east of McCain Valley road.

Photo 14: View of the southern project limits located adjacent to private lands.

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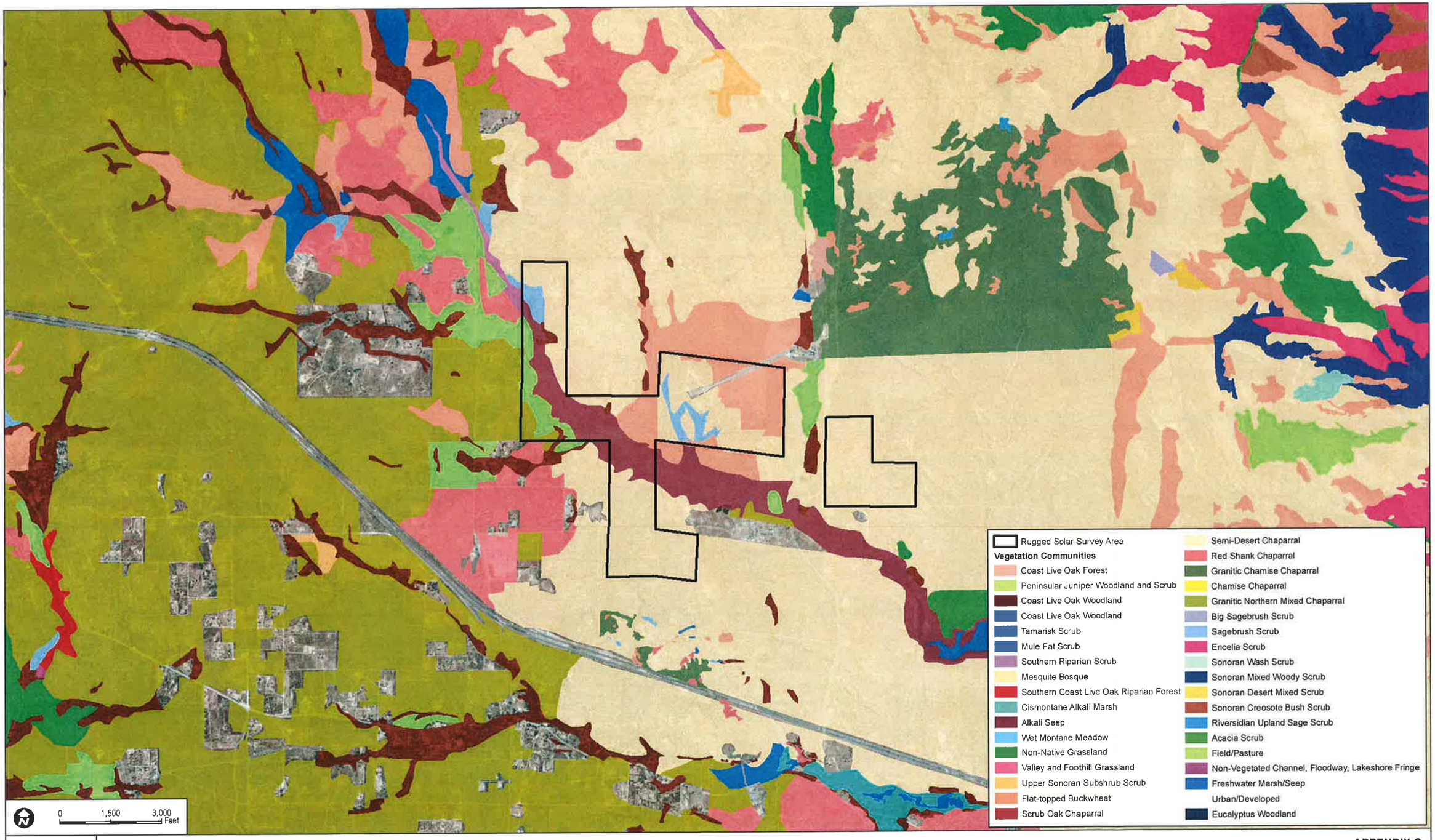
APPENDIX C

Site Vegetation Map



DUDEK

7122

SOURCE: SanGIS 2012; AECOM 2013; Soilec 2013; Bing Maps

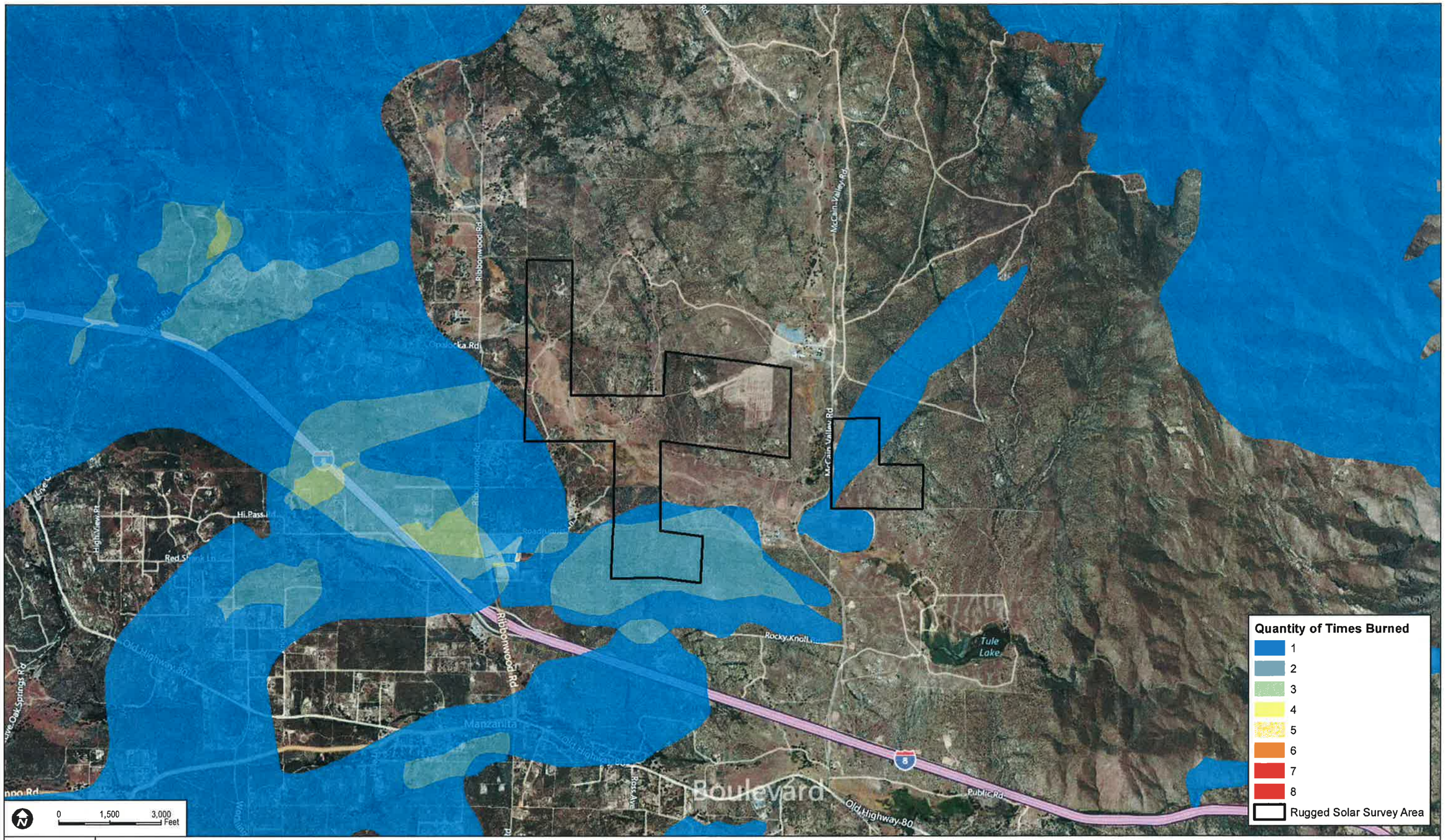
FIRE PROTECTION PLAN - RUGGED SOLAR

APPENDIX C

Site Vegetation Map

APPENDIX D

Fire History Exhibit



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7122

SOURCE: SanGIS 2012; AECOM 2013; Soitec 2013; USGS 2012; Bing Maps

APPENDIX D

Fire History Map

FIRE PROTECTION PLAN - RUGGED SOLAR