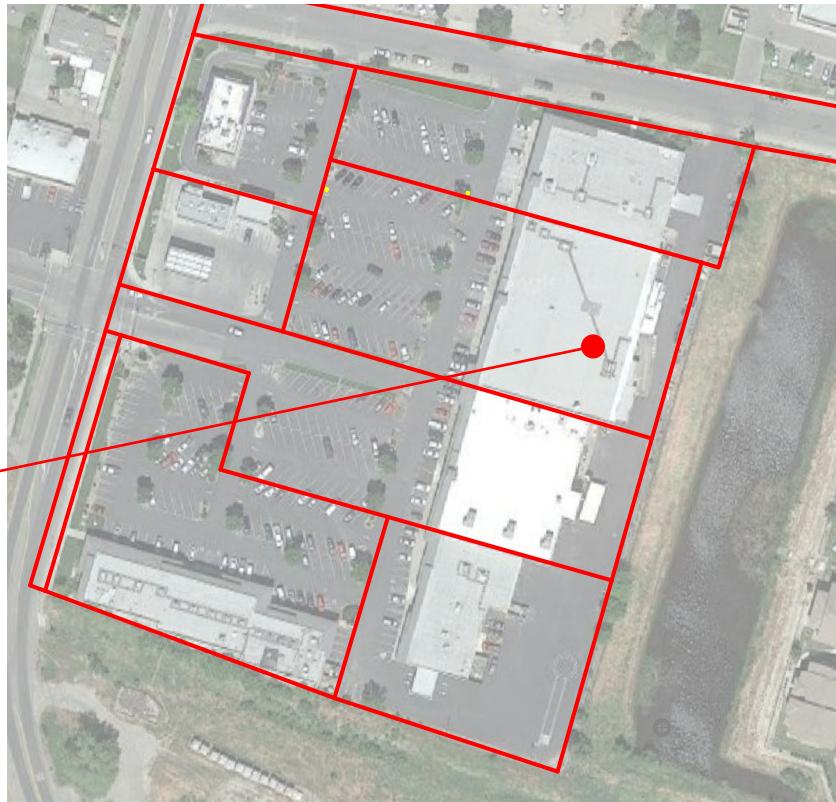
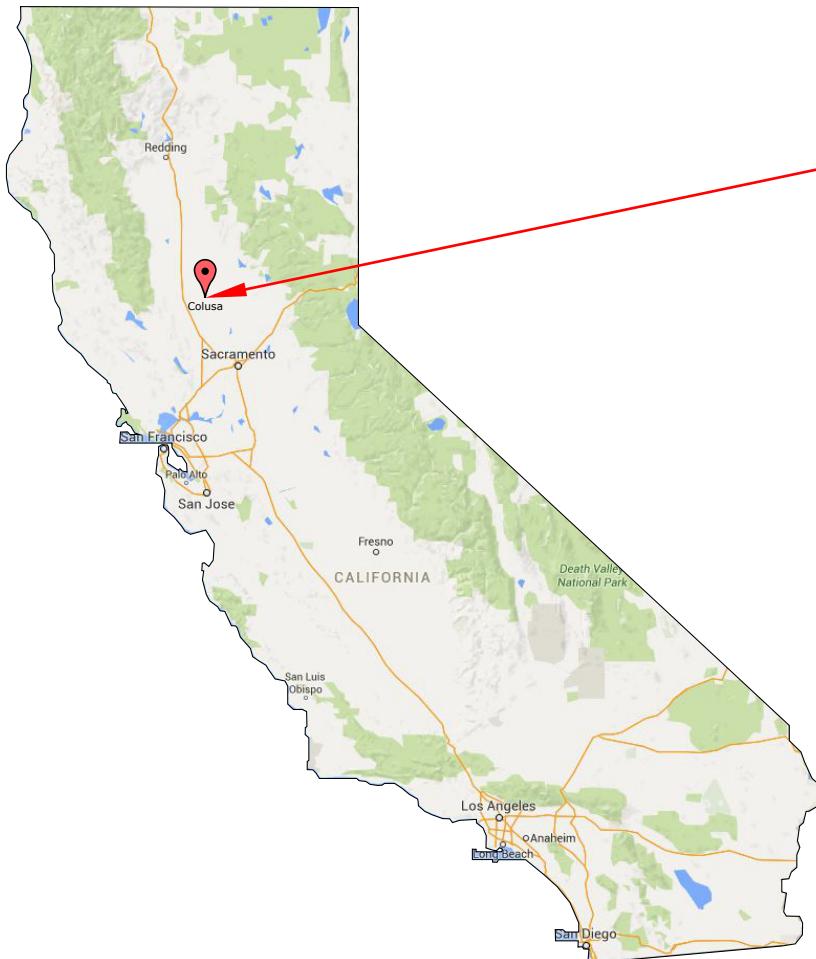


SOLAR PHOTOVOLTAIC SYSTEM

NORTH STATE GROCERY

COLUSA, CA



SITE INFORMATION	
Site Latitude	39° 12'
Construction Type	
Occupancy Group	II
Zoning District	M-U-B
Flood Zone	X
Exposure Category	C
Seismic Design Category	D

SYSTEM SPECIFICATIONS			
Cold Design Temperature	23 F		
Max Operating Temperature	131 F		
System Type	TOTAL	Roof	Solar Structure
# of Inverters	12	6	6
Module	Hanwha Q.Peak-G4.1 300W	Hanwha Q.Peak-G4.1 300W	
# of Modules	1,882	1,090	792
DC SYSTEM SIZE	564.6 kW DC	327	237.6
Nominal AC Output Power	516 kW AC	300	216

GENERAL CONTRACTOR

BRIGHT POWER INC
DBA BPi
PO BOX 10637
NAPA, CA 94581
info@bpi-power.com
PHONE: (707) 252-9990
FAX: (707) 252-9992
WWW.BPI-POWER.COM
LICENSE NUMBER 930054
LICENSE CLASSIFICATION: A, C10

PROPERTY OWNER

GREGORY PARTNERS, L.P.
ATTN: JON SNYDER
P.O. BOX 1018
RANCHO MURIETA, CA 95683

ELECTRICAL ENGINEER

HIMANSHU BHARTIYA, ME, EE, FPE, LEED AP
SACRAMENTO ENGINEERING CONSULTANTS
10555 OLD PLACERVILLE ROAD
SACRAMENTO, CA 95827
himanshu@saceng.com
PHONE: (916) 368-4468 ext. 105
FAX: (916) 368-4490

STRUCTURAL ENGINEER

JESSYCA COCHRAN, PE
JVC ENGINEERING
303 POST ST
NAPA, CA 94559
jvcstructural@yahoo.com
PHONE: (805) 801-9915

SCOPE OF WORK

THE PROJECT IS TO INSTALL A NEW PHOTOVOLTAIC SYSTEM.
ALL CONSTRUCTION SHALL COMPLY WITH THE CODES ADOPTED BY THE CITY
OF COLUSA, CA AS DESCRIBED IN COLUSA, CA MUNICIPAL CODE SEC. 6
ARTICLE II INCLUDING BUT NOT LIMITED TO 2013 CEC & 2013 CBC.

THE SYSTEM CONSISTS OF ROOF MOUNT FIXED TILT SOLAR ARRAYS, FLUSH
MOUNT ON SOLAR SUPPORT STRUCTURES, AND ASSOCIATED POWER
CONDITIONING EQUIPMENT.

THE SYSTEM WILL BE INTERCONNECTED TO AND WILL BE OPERATING IN
PARALLEL WITH THE ELECTRICAL UTILITY GRID PER THE REQUIREMENTS OF
PG&E AND THE 2013 CEC.

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PV0.4B	MODULE LAYOUT OVERVIEW
PV0.4C	MODULE LAYOUT OVERVIEW
PV0.5A	ROOF ARRAY DIMENSIONS & INVERTER FOOTPRINTS
PV0.5B	ROOF ARRAY DIMENSIONS & INVERTER FOOTPRINTS
PV0.5C	SOLAR STRUCTURE STRING DIAGRAM & INVERTER FOOTPRINTS
PV0.5D	SOLAR STRUCTURE STRING DIAGRAM & INVERTER FOOTPRINTS
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PV1.1	ARRAY PLAN
PV1.2	ARRAY PLAN
PV1.3	ARRAY PLAN
PV1.4	ARRAY PLAN
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PV1.6	METER-AREA PLAN
PV2.1A	SINGLE-LINE DIAGRAM
PV2.1B	SINGLE-LINE DIAGRAM
PV3.1	PV DETAILS
PV4.1	PV SIGNAGE
S0.1	GENERAL STRUCTURAL NOTES
S2.1	STRUCTURES 1, 2, 3 - FOUNDATION & FRAMING PLAN
S2.2	STRUCTURES 4 - FOUNDATION & FRAMING PLAN
S2.3	STRUCTURES 5 - FOUNDATION & FRAMING PLAN
S2.4	STRUCTURES 6 - FOUNDATION & FRAMING PLAN
S3.1	DETAILS
S4.0	ROOF RACKING DETAIL



NSG1-COLUSA
1017 BRIDGE ST
COLUSA, CA 95932
APN: 002-120-011

PVO

TITLE SHEET

Prelim. Approval

Date:	6-14-16
By:	JB
Job No.:	C15-700.1

1	2/8/17	Equipment change & added NSG roof array	JB
1			
1			
1			
1			

GENERAL NOTES		8.	REFILL AND RESTORE THE WORK AS DIRECTED, DURING CONSTRUCTION AND PRIOR TO PROJECT COMPLETION, TO MAINTAIN ACCEPTABLE SURFACE CONDITIONS.	17.	ALL CONSTRUCTION AND MATERIAL DELIVERY VEHICLES SHALL USE THE <u>SITE CLEARING NOTES (IF APPLICABLE)</u> DESIGNATED ACCESS AND HAUL ROUTE(S) TO THE CONSTRUCTION SITE. ANY DEVIATION IN ROUTE(S) SHALL BE SUBJECT TO OWNER'S APPROVAL. THE ROUTE(S) SHALL BE MONITORED DURING THE PROJECT FOR ANY DAMAGE AND DEBRIS ATTRIBUTABLE TO THE PROJECT VEHICLES. ALL DAMAGE AND DEBRIS AS A RESULT OF THE PROJECT SHALL BE REPAIRED TO EXISTING STANDARDS.	1.	PROTECT FROM DAMAGE AND PRESERVE TREES, SHRUBS, AND OTHER PLANTS OUTSIDE THE LIMITS OF WORK AND WITHIN THE LIMIT OF THE WORK WHICH ARE DESIGNATED TO REMAIN UNDISTURBED.	JB
1. ALL CONSTRUCTION SHALL COMPLY WITH THE CODES ADOPTED BY THE CITY OF COLUSA, CA AS DESCRIBED IN COLUSA, CA MUNICIPAL CODE SEC. 6 ARTICLE II INCLUDING BUT NOT LIMITED TO 2013 CEC & 2013 CBC.		9.	ALL ADDITIONAL MATERIALS REQUIRED SHALL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER.	18.	CONDUCT OPERATION ENTIRELY WITHIN THE PROJECT AREAS INDICATED IN THESE DRAWINGS.	2.	REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVAL INCLUDES DIGGING OUT STUMPS AND OBSTRUCTIONS AND GRUBBING ROOTS.	Equipment change & added NSG roof array
2. BEFORE INITIATING ANY WORK, THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORDS OF ANY DISCREPANCIES IDENTIFIED ON EXISTING CONDITIONS, STRUCTURE, ELECTRICAL, ETC.		10.	UNLESS SHOWN OR SPECIFIED OTHERWISE, ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE IBC, AND ANY OTHER CODES, REQUIREMENTS OR STANDARDS REQUIRED BY THE INSPECTING AGENCY AND AUTHORITIES HAVING JURISDICTION (AHJ).	19.	WHERE ANY WORK IS BEING DONE IN AN OFF-SITE EASEMENT, NOTIFY THE PROPERTY OWNER TWO WORKING DAYS PRIOR TO COMMENCING WORK WITHIN SAID EASEMENT.	3.	FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SOIL MATERIAL APPROVED BY OWNER, UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.	Equipment change
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS, OSHA REQUIREMENTS AND SAFETY MEASUREMENTS ON SITE.		11.	ANY WORK BEGUN PRIOR TO ATTAINING APPROVAL AND SIGNATURES OF AHJ WILL BE AT CONTRACTOR'S RISK, AND WILL ONLY BE ALLOWED IF PRE-APPROVED BY PROJECT OWNER.	19.	WHERE ANY WORK IS BEING DONE IN AN OFF-SITE EASEMENT, NOTIFY THE PROPERTY OWNER TWO WORKING DAYS PRIOR TO COMMENCING WORK WITHIN SAID EASEMENT.	3.	STRIP TOPSOIL WHERE REQUIRED. STOCKPILE IN AREA APPROVED BY OWNER.	2/8/17
4. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL MANUFACTURER'S OR ENGINEER'S DIRECTIONS AND INSTRUCTIONS.		12.	COORDINATE OPERATIONS WITH ALL REQUIRED MATERIALS TESTING SERVICES AS REQUIRED BY THESE DRAWINGS. EACH PHASE OF CONSTRUCTION SHALL BE TESTED AND APPROVED BY AHJ AS REQUIRED PRIOR TO PROCEEDING TO SUBSEQUENT PHASES.	20.	DO NOT DISPOSE OF CHLORINATED OR OTHER CHEMICALLY TREATED OR POLLUTED WATER INTO ANY DRAINAGE SYSTEM OR TO AREA SOILS.	4.	STRIPE TOPSOIL WHERE REQUIRED. STOCKPILE IN AREA APPROVED BY OWNER.	REV. NO
5. CONTRACTOR IS ADVISED THAT ALL DRAWINGS, COMPONENT MANUALS, ESPECIALLY INVERTER MANUALS, ARE TO BE READ AND UNDERSTOOD PRIOR TO INSTALLATION OR ENERGIZING OF ANY EQUIPMENT.		13.	NOTIFY ALL UTILITY COMPANIES INVOLVED IN THE DEVELOPMENT PRIOR TO BEGINNING OF WORK.		ELECTRICAL NOTES	5.	WITH OWNER'S APPROVAL, REMOVE EXISTING ABOVE AND BELOW GRADE IMPROVEMENTS AS INDICATED AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION.	REV. DATE
6. CONTRACTOR IS RESPONSIBLE FOR SELECTING AND PURCHASING EQUIPMENT THAT WILL LAST THE LIFETIME OF THE PV SYSTEM; ALL ENCLOSURES, CONDUITS, STRAPS, PAINTED METAL SURFACES, CONCRETE, GROUNDING EQUIPMENT AND OTHER EQUIPMENT AND OTHER PRODUCTS SHALL BE SELECTED TO LAST THE LIFECYCLE OF THE PHOTOVOLTAIC SYSTEM.		14.	COMPLY WITH ALL CURRENTLY APPLICABLE SAFETY LAWS OF ALL JURISDICTIONAL BODIES. PROVIDE AND MAINTAIN ALL BARRICADES, SAFETY DEVICES, AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA. FOR ALL TRENCH EXCAVATION 5 FEET OR MORE IN DEPTH, OBTAIN PERMITS PRIOR TO BEGINNING ANY EXCAVATION.	1.	SOLAR MODULES ARE ENERGIZED WHEN EXPOSED TO LIGHT. THE LINE AND LOAD TERMINALS ON THE DC DISCONNECTS MAY BE ENERGIZED IN THE OPEN POSITION. SWITCH IS TO BE LABELED TO COMPLY WITH ARTICLE 690.17 OF THE NEC.	5.	DISPOSE OF REMOVED TREES, BRUSH, STUMPS, ROOTS AND ORGANIC DEBRIS IN A LEGAL MANNER OFF THE SITE.	1
7. WHENEVER ANY SURFACE IMPROVEMENTS SUCH AS PAVEMENT, CURBING, PEDESTRIAN WALKS, FENCING, OR TURFING HAVE BEEN REMOVED, DAMAGED, OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS; THEY SHALL BE REPAIRED OR REPLACED TO THE PRE-EXISTING CONDITION. THE REPAIRS ARE TO MEET THE OWNER'S SATISFACTION.		15.	Maintain continuous temporary traffic barricades, with operable flashing devices, spaced at intervals of not to exceed 50 feet whenever the work area is adjacent to an existing traffic lane and there is a pavement cut, trench, or ditch which is over 2 inches in depth, or if the traffic lane used by vehicles is not paved. If the cut, trench or ditch is more than 10 feet from a traffic lane, then the barricade spacing may be greater, provided that it does not exceed 200 feet.	3.	CONTRACTOR SHALL PERFORM INITIAL HARDWARE CHECKS AND PV/WIRING CONDUCTIVITY CHECKS PRIOR TO TERMINATING ANY WIRES.	1.	RECORD DRAWINGS	2/8/17
		16.	CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.	5.	THE ELECTRICAL CONTRACTOR IS REQUIRED TO USE PERMANENTLY COLOR CODED INSULATION AND PROVIDE A COLOR CODE TO IDENTIFY DC AND AC CIRCUITS AND IN ACCORDANCE WITH NEC.	1.	KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS FOR THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING FINAL LOCATION, ELEVATION, SIZES, MATERIALS, AND DESCRIPTION OF ALL WORK.	REV. NO
		17.	ALL PG&E-REQUIRED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT PG&E GREENBOOK STANDARDS.	6.	IN EVERY PULL BOX, TERMINAL BOX, AND AT ALL PLACES WHERE WIRES MAY NOT BE READILY IDENTIFIED BY NAMEPLATE MARKINGS ON THE EQUIPMENT TO WHICH THEY CONNECT, IDENTIFY EACH CIRCUIT WITH A PLASTIC LABEL OR TAG FOR NUMBER, POLARITY, OR PHASE.	2.	RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS AT THE SITE. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD DRAWING PRINTS SHALL BE SUBMITTED TO OWNER PRIOR TO SUBSTANTIAL COMPLETION AT SITE.	REV. DATE

PV MODULE INFO

MFG	Hanwha
Model	Q.Peak-G4.1 300W
STC Rating	300 W
Vmp	32.41 V
Imp	9.26 A
Voc	39.76 V
Isc	9.77 A
Voc temp. coeff	-0.28 %/°C
Isc temp coeff	0.04 %/°C

ROOFS

SOLAR SUPPORT STRUCTURES

Inverters	Inverter #1	Inverter #2-#3	Inverter #4	Inverter #5	Inverter #6	Inverter #7-#8	Inverter #9-#10	Inverter #11-#12
Manufacturer	Sungrow	Sungrow	Sungrow	Sungrow	Sungrow	Sungrow	Sungrow	Sungrow
Model	SG60KU	SG60KU	SG60KU	SG60KU	SG30KU	SG36KU	SG36KU	SG36KU
Voltage AC	480	480	480	480	480	480	480	480
Nominal AC Output Power	60	60	60	30	30	36	36	36
CEC efficiency	99%	99%	99%	98%	98%	98%	98%	98%
Number of Strings/inverter	10	11	10	5	6	6	6	6
Number of Panels/string	22	20	20	22	20	22	22	22
Number of Panels/inverter	220	220	200	110	120	132	132	132
STC DC subsystem size	66 kW DC	66 kW DC	60 kW DC	33 kW DC	36 kW DC	39.6 kW DC	39.6 kW DC	39.6 kW DC
PV Module Azimuth	196	196	196	196	196	196	196	196
PV Module Tilt	10	10	10	10	10	5	5	5
Racking MFG	Renusol	Renusol	Renusol	Renusol	Renusol	Skyline	Skyline	Skyline
Array Location	AutoZone	NSG Roof	NSG Roof	South Roof	Building 2	Structure 1	Structure 2	Structure 3

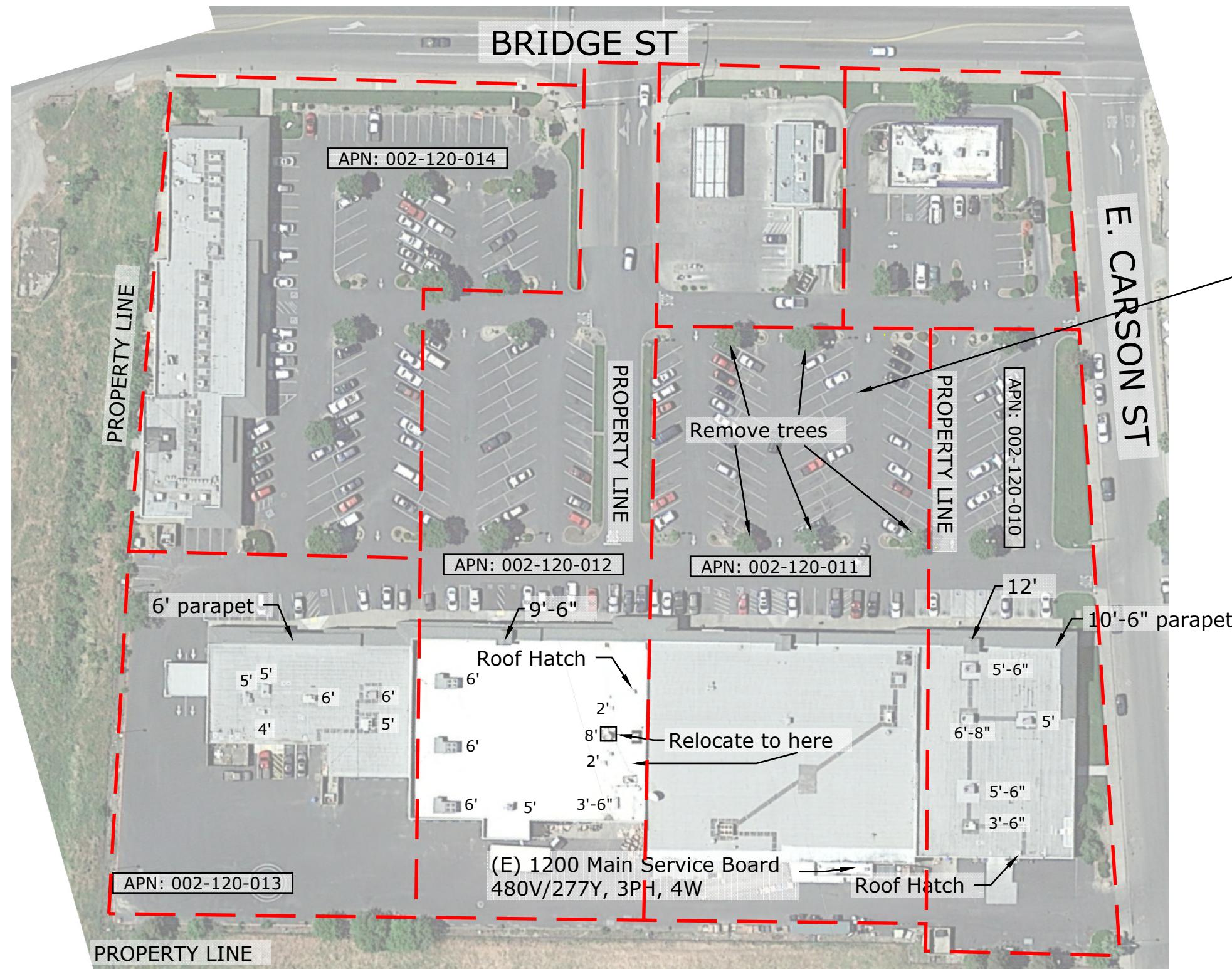


NSG1-COLUSA
1017 BRIDGE ST
COLUSA, CA 95932
APN: 002-120-011

PVO.1
PROJECT DETAILS

Prelim. Approval	Initials	Date	Job No.: C15-700.1
			DATE: 6-14-16
			BY: JB

Zoning District:	M-U-B
Front Setbacks:	5'
Side & Rear Setbacks:	5'



Less trees need to be removed now
that there are less solar structures

Bright Power, Inc. DBA BPI
PO BOX 10637
NAPA, CA 94581
PH: (707)-252-9990

NSG1-COLUSA
1017 BRIDGE ST
COLUSA, CA 95932
APN: 002-120-011

PV0.2
PLOT PLAN



Prelim. Approval



Initials

Date

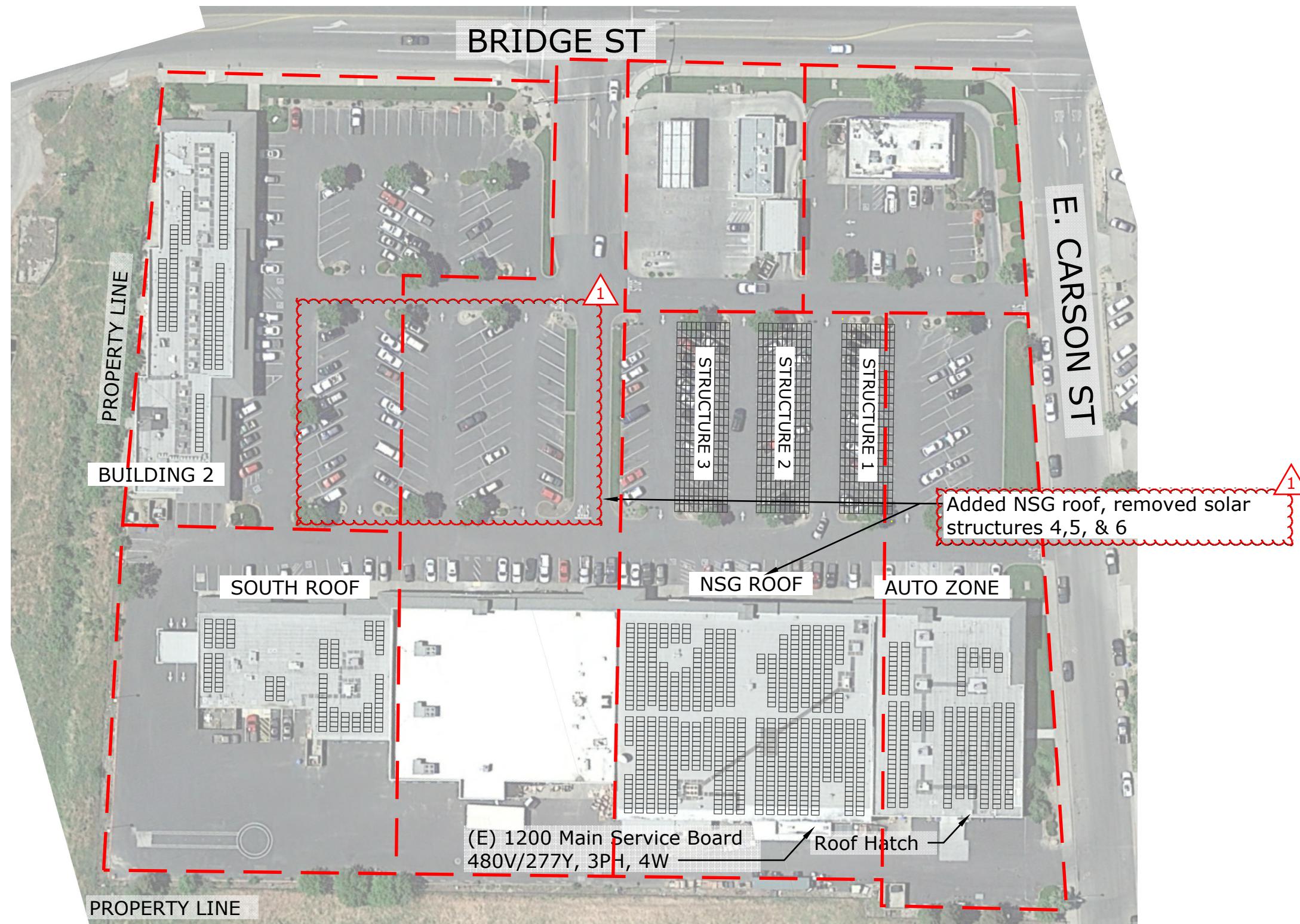
DATE: 6-14-16
BY: JB

JOB NO.: C15-700.1

Scale: 1" = 80'

00 80 160

Zoning District:	M-U-B
Front Setbacks:	5'
Side & Rear Setbacks:	5'


Roof Array Configuration:

4 Sungrow SG60KU Inverter(s)
2 Sungrow SG30KU Inverter(s)
1,090 Hanwha Q.Peak-G4.1 300W 300W Modules
327 kW DC Subsystem Size

Solar Structure Array Configuration:

6 Sungrow SG36KU Inverter(s)
792 Hanwha Q.Peak-G4.1 300W 300W Modules
237.6 kW DC Subsystem Size

Scale: 1" = 80'

00 80 160



Prelim. Approval

Initials	DATE: 6-14-16
Date	BY: JB
	JOB NO.: C15-700.1



PV0.3

PV SITE PLAN



PO BOX 10637
NAPA, CA 94581
PH: (707)-252-9990

NSG1-COLUSA

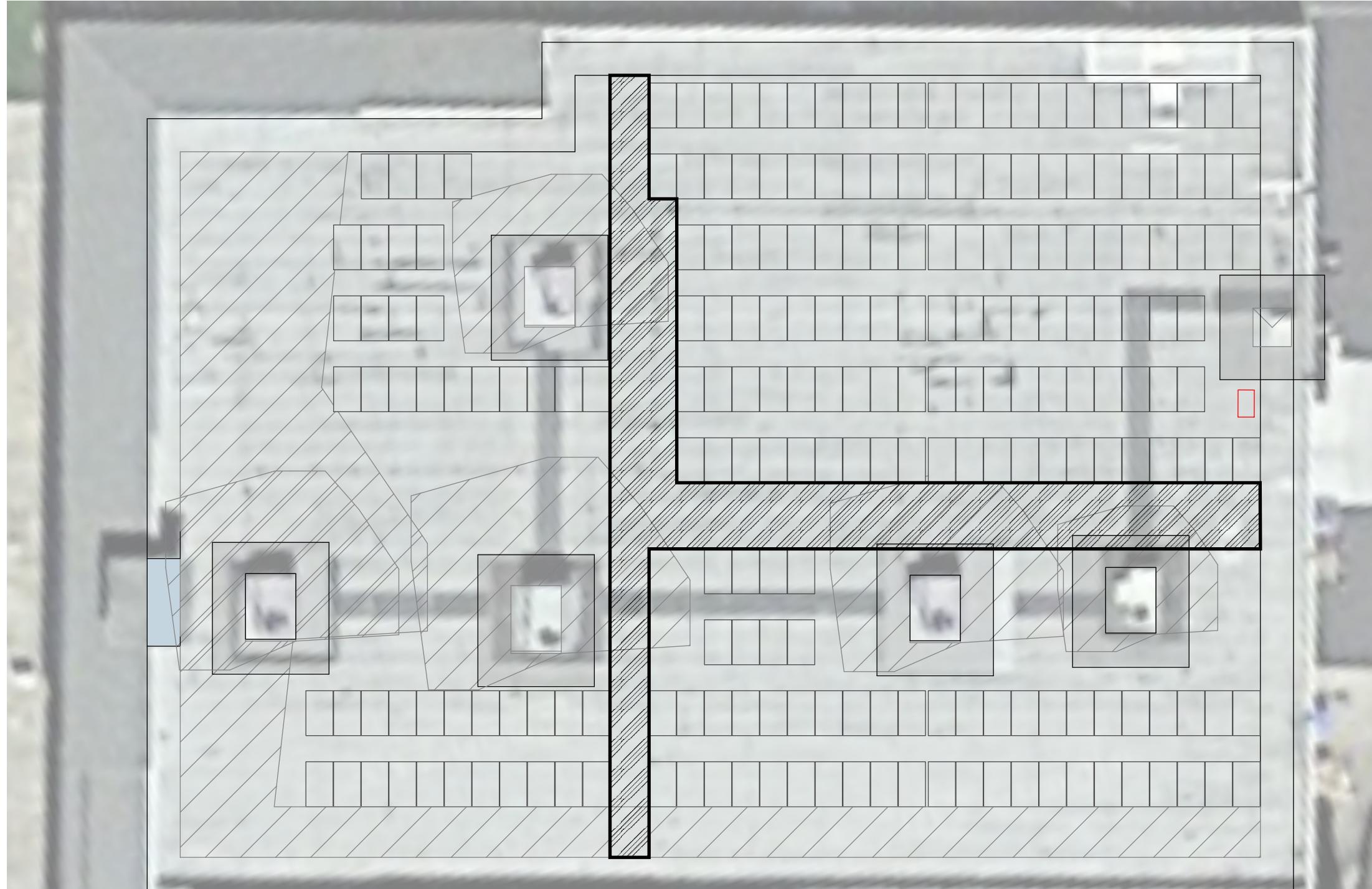
1017 BRIDGE ST
COLUSA, CA 95932
APN: 002-120-011

AutoZone Array Configuration:

1 Sungrow SG60KU Inverter(s)
 220 Hanwha Q.Peak-G4.1 300W 300W Modules
 66 kW DC Subsystem Size

1

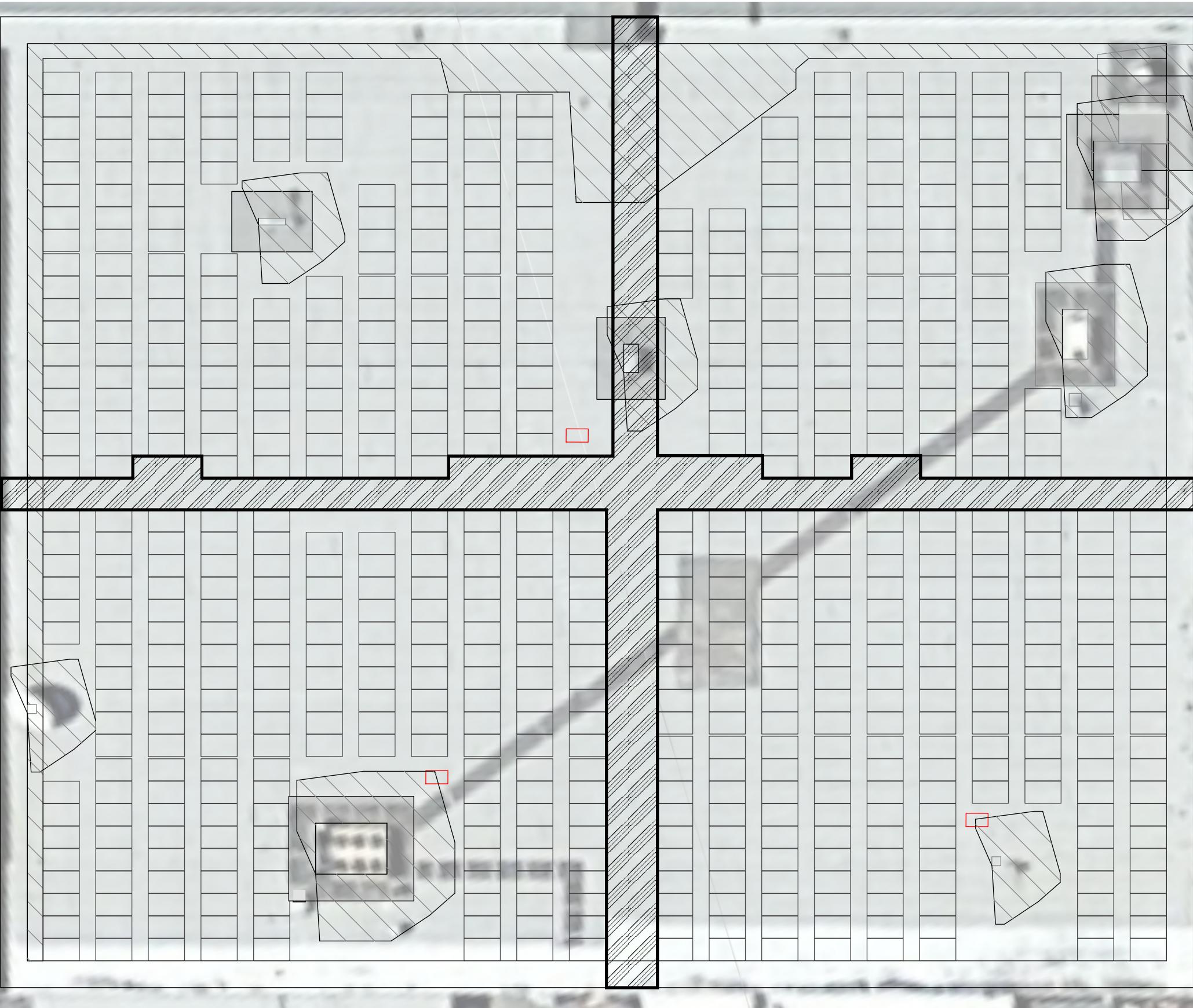
-  : Shading Setback
-  : 4' Equipment Access Perimeter
-  : Fire Access Walkways



 NSG1-COLUSA 1017 BRIDGE ST COLUSA, CA 95932 APN: 002-120-011	1	2/8/17	Equipment change & added NSG roof array	JB
BRIGHT POWER, INC. DBA BPI LICENSED CONTRACTOR CLASSIFICATION A C-10 LICENSE NO. 930054 * STATE OF CALIFORNIA *				
PVO.4A MODULE LAYOUT OVERVIEW				
				
Prelim. Approval				
Initials		DATE:	6-14-16	
Date		BY:	JB	
		JOB NO.:	C15-700.1	

NSG Roof Array Configuration:

3 Sungrow SG60KU Inverter(s)
640 Hanwha Q.PeaK-G4.1 300W 300W Modules
192 kW DC Subsystem Size



- : Shading Setback
- : 4' Equipment Access Perimeter
- : Fire Access Walkways

BPI		1	2/8/17	Equipment change & added NSG roof array	JB
NSG1-COLUSA		PO BOX 10637 NAPA, CA 94581 PH: (707)-252-9990	REV. NO	REV. DATE	
PV0.5B		1017 BRIDGE ST COLUSA, CA 95932 APN: 002-120-011			
		Prel. Approval Initials _____ Date _____ DATE: 6-14-16 BY: JB JOB NO.: C15-700.1			



: Shading Setback
: 4' Equipment Access Perimeter
: Fire Access Walkways

South Roof Array Configuration:

1 Sungrow SG30KU Inverter(s)
 110 Hanwha Q.PeaK-G4.1 300W 300W Modules
 33 kW DC Subsystem Size

	1	2/8/17	Equipment change & added NSG roof array
BPI			
PO BOX 10637 NAPA, CA 94581 PH: (707)-252-9990			
REV. NO		REV. DATE	
NSG1-COLUSA	1017 BRIDGE ST COLUSA, CA 95932 APN: 002-120-011		
PV0.4C			
MODULE LAYOUT OVERVIEW			
Prelim. Approval			
Initials		DATE: 6-14-16	
Date		BY: JB	
		JOB NO.: C15-700.1	

Building 2 Array Configuration:

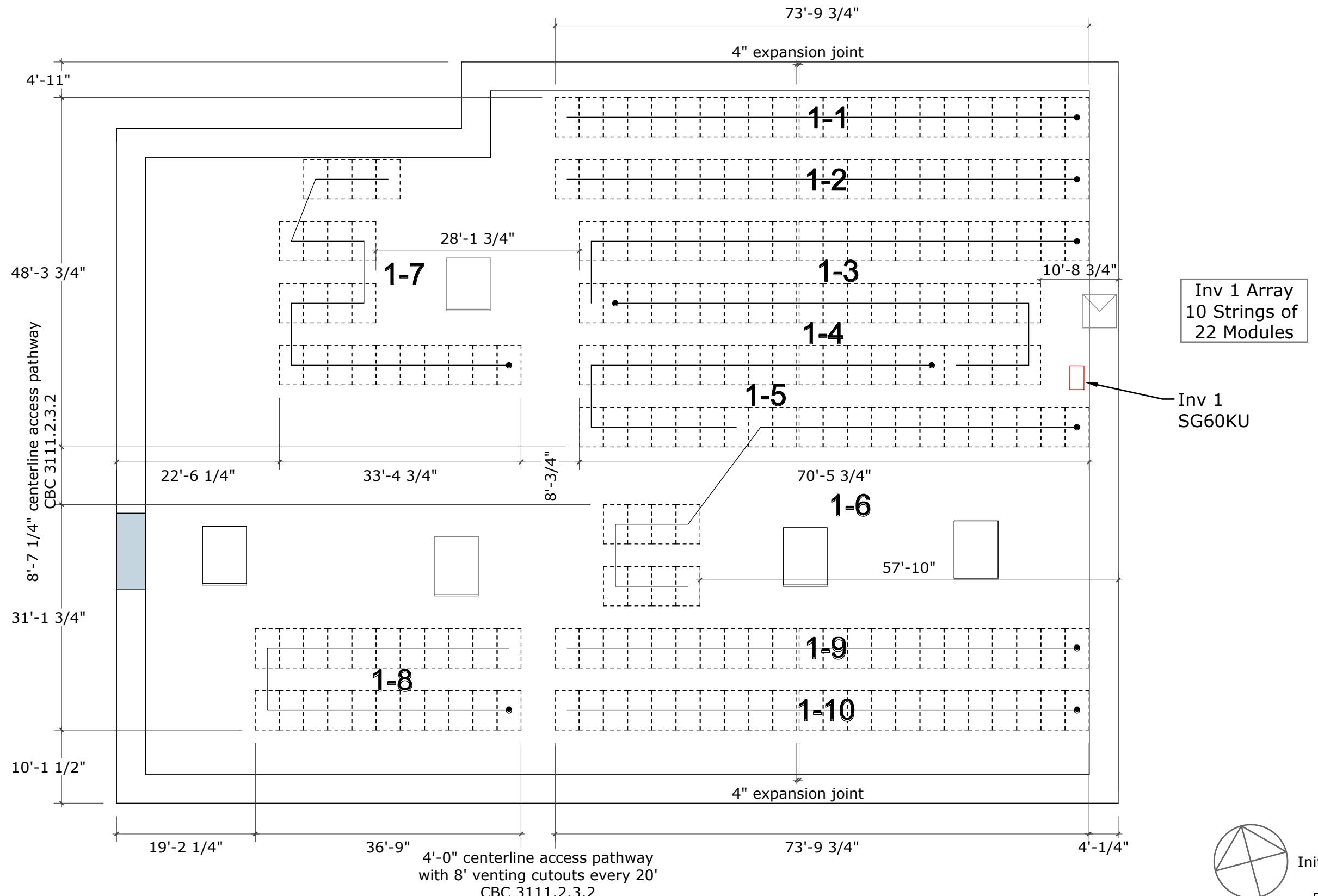
1 Sungrow SG30KU Inverter(s)
 120 Hanwha Q.PeaK-G4.1 300W 300W Modules
 36 kW DC Subsystem Size



AutoZone Array Configuration:

1 Sungrow SG60KU Inverter(s)
 220 Hanwha Q.PeaK-G4.1 300W 300W Modules
 66 kW DC Subsystem Size

1

**NSG1-COLUSA**

1017 BRIDGE ST
 COLUSA, CA 95932
 APN: 002-120-011

PV0.5A
 ROOF ARRAY
 DIMENSIONS &
 INVERTER
 FOOTPRINTS

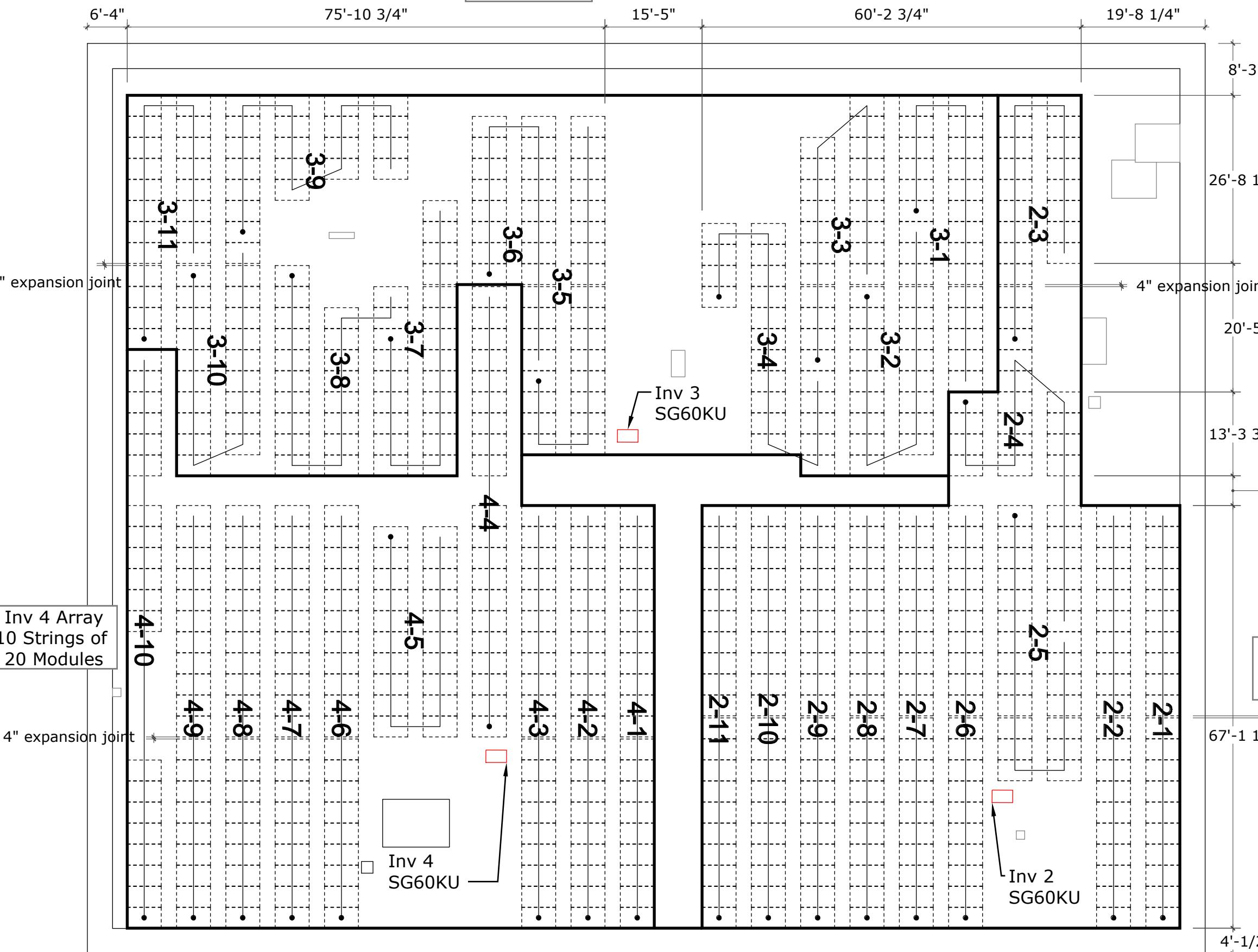
Prelim. Approval	
Initials	DATE: 6-14-16
Date	BY: JB
JOB NO.: C15-700.1	



NSG Roof Array Configuration:

3 Sungrow SG60KU Inverter(s)
640 Hanwha Q.PeaK-G4.1 300W 300W Modules
192 kW DC Subsystem Size

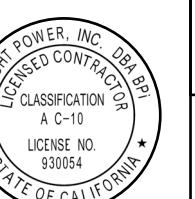
Inv 3 Array
11 Strings of
20 Modules



NSG1-COLUSA

1017 BRIDGE ST
COLUSA, CA 95932
APN: 002-120-011

PV0.5B
ROOF ARRAY
DIMENSIONS &
INVERTER
FOOTPRINTS



Prelim. Approval

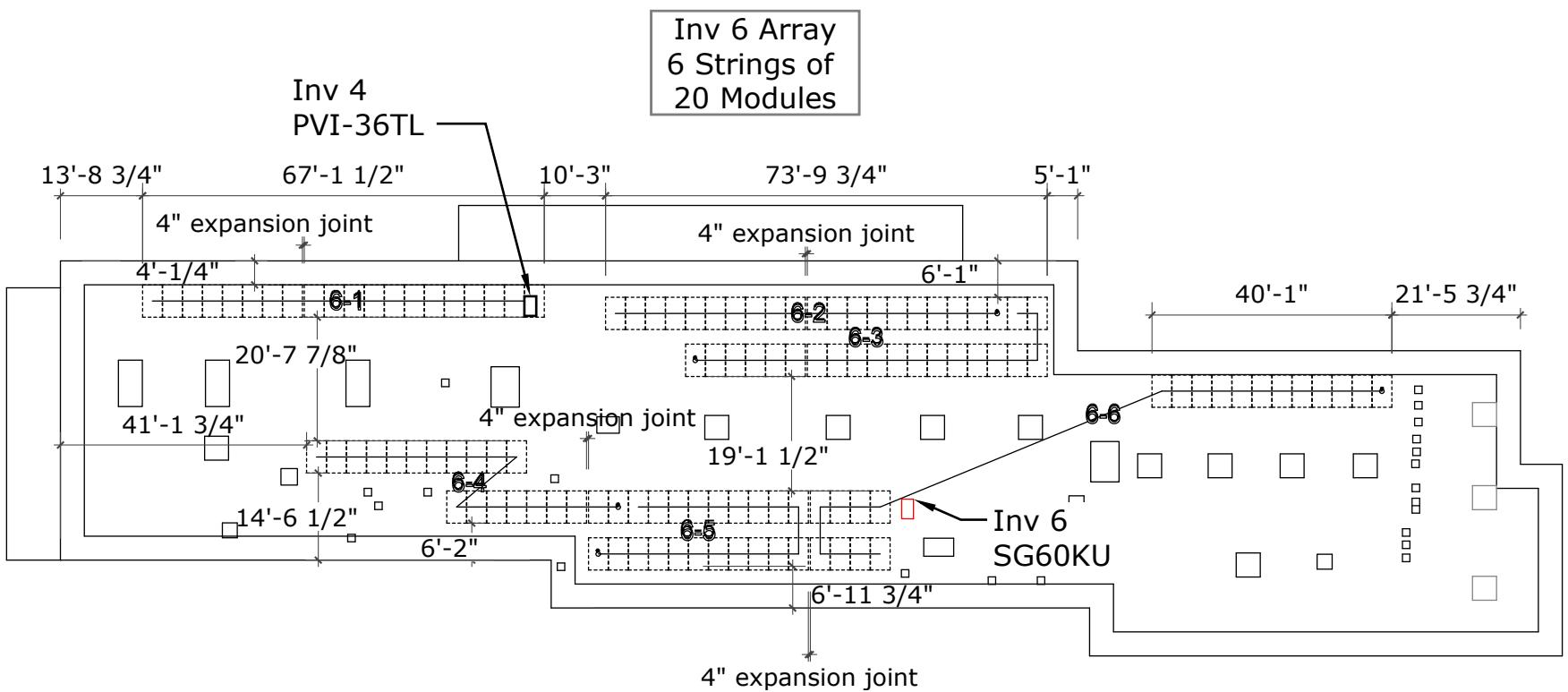
Initials	
Date	
DATE: 6-14-16	
BY: JB	
JOB NO.: C15-700.1	

Equipment change & added NSG roof array	JB
1	2/8/17
REV. NO	REV. DATE
PO BOX 10637 NAPA, CA 94581 PH: (707)-252-9990	

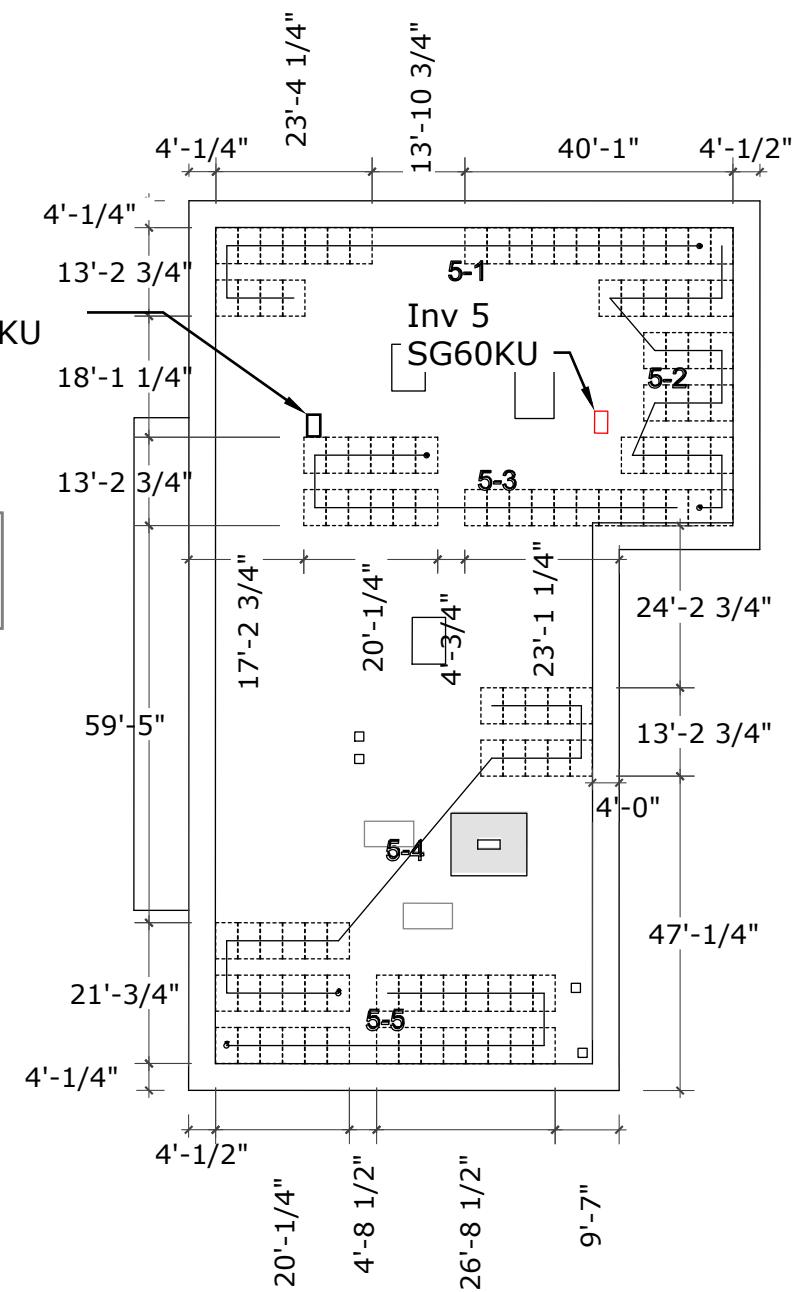
South Roof Array Configuration:

1 Sungrow SG30KU Inverter(s)
 110 Hanwha Q.PeaK-G4.1 300W 300W Modules
 33 kW DC Subsystem Size

1

**Building 2 Array Configuration:**

1 Sungrow SG30KU Inverter(s)
 120 Hanwha Q.PeaK-G4.1 300W 300W Modules
 36 kW DC Subsystem Size



NSG1-COLUSA
 1017 BRIDGE ST
 COLUSA, CA 95932
 APN: 002-120-011

PV0.5C
 ROOF ARRAY
 DIMENSIONS &
 INVERTER
 FOOTPRINTS

Prelim. Approval		Initials	Date
			DATE: 6-14-16
			BY: JB
			JOB NO.: C15-700.1

Solar Structure Array Configuration:

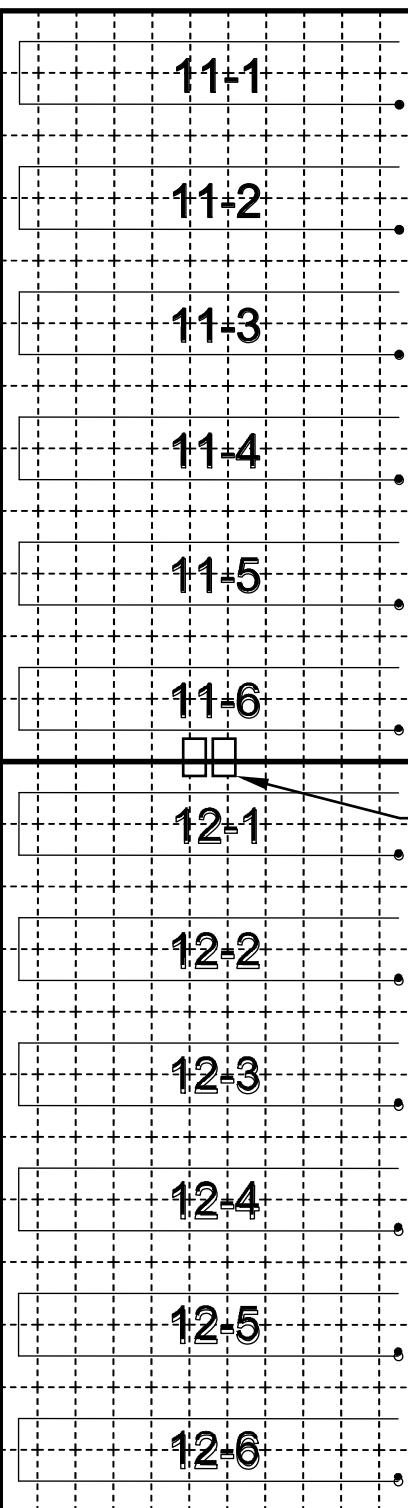
6 Sungrow SG36KU Inverter(s)

792 Hanwha Q.PeaK-G4.1 300W 300W Modules

237.6 kW DC Subsystem Size

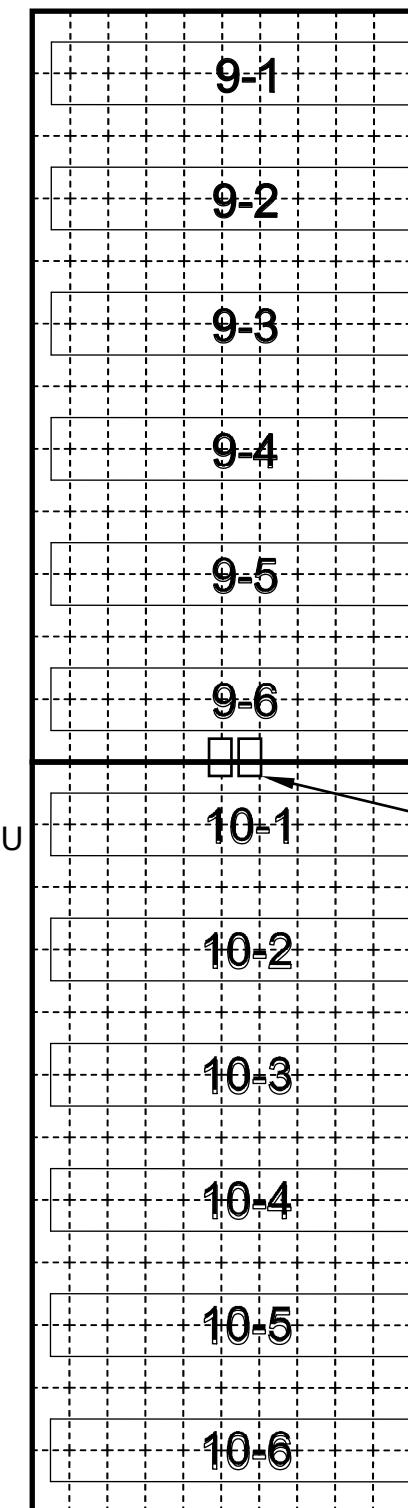
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Inv 11 Array
6 Strings of
22 Modules



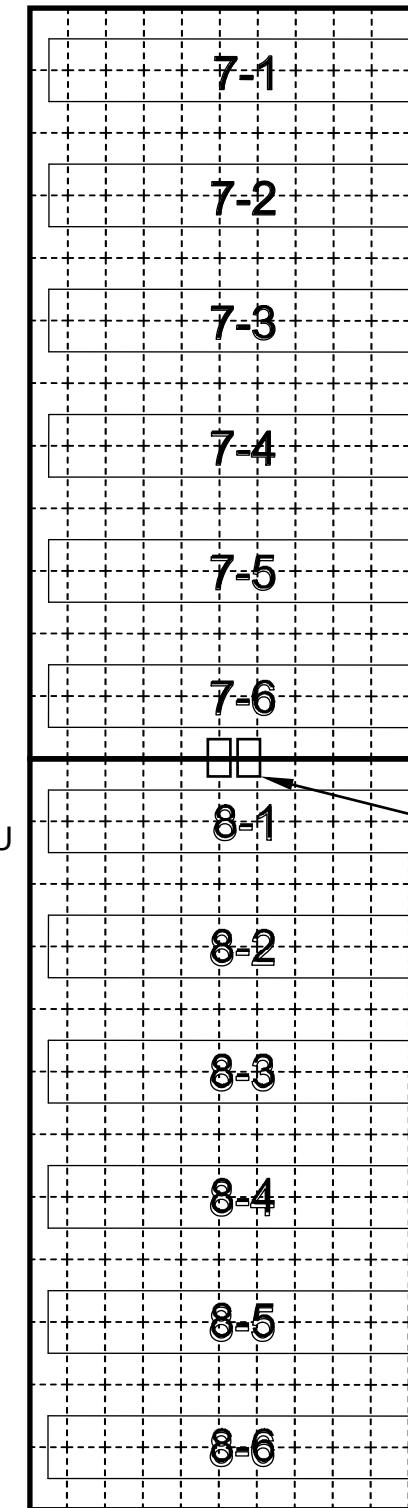
Inv 12 Array
6 Strings of
22 Modules

Inv 9 Array
6 Strings of
22 Modules



Inv 10 Array
6 Strings of
22 Modules

Inv 7 Array
6 Strings of
22 Modules



Inv 8 Array
6 Strings of
22 Modules

NSG1-COLUSA

1017 BRIDGE ST
COLUSA, CA 95932
APN: 002-120-011



PV0.5D
SOLAR STRUCTURE
STRINGING
DIAGRAM &
INVERTER
FOOTPRINTS

Prelim. Approval

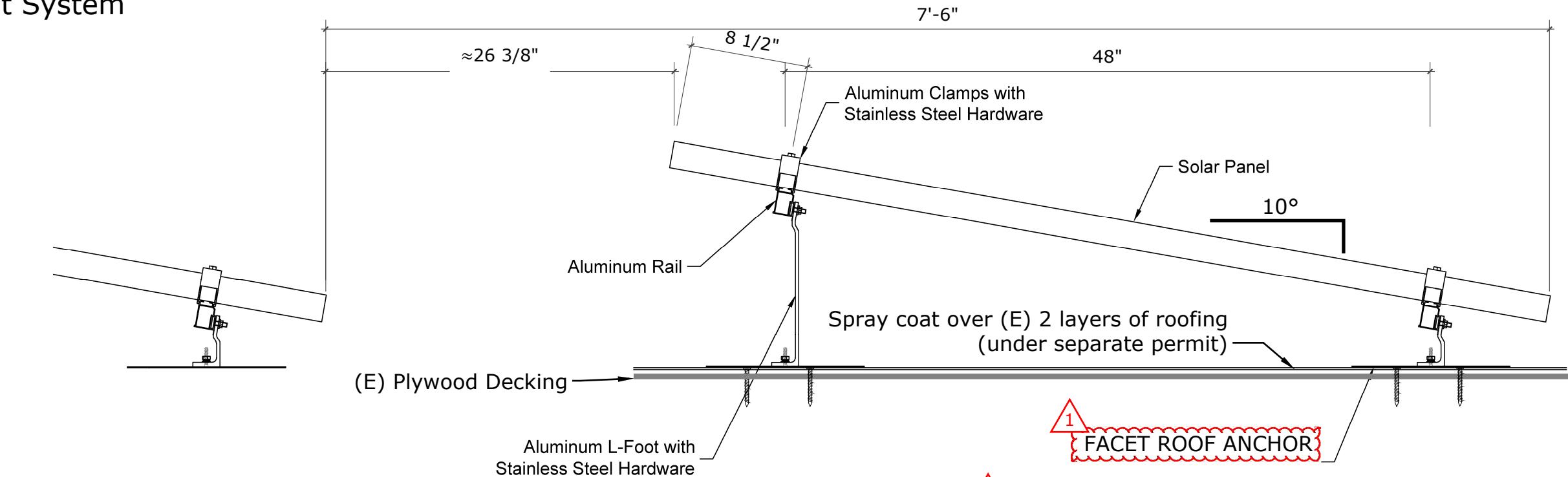
Initials _____ Date _____

DATE:	6-14-16
BY:	JB
JOB NO.:	C15-700.1

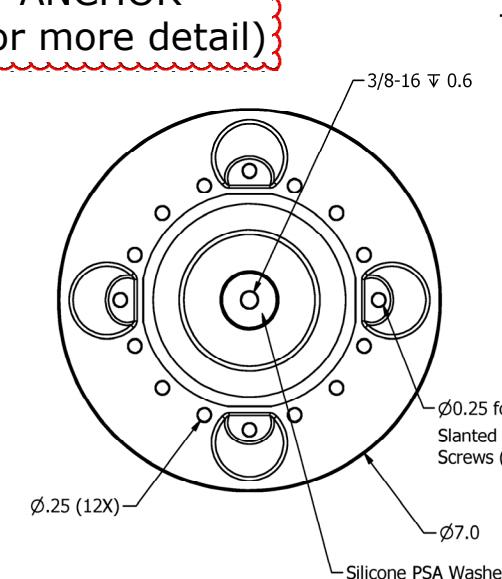
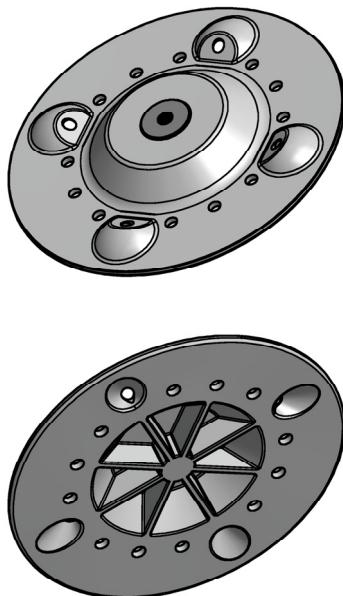
Equipment change & added NSG roof array	JB
1	2/8/17
REV. NO	REV. DATE
PO BOX 10637 NAPA, CA 94581 PH: (707)-252-9990	
BPI	

ROOF RACKING DETAIL

Renusol VS Tilt System



FACET ROOF ANCHOR
(see datasheet for more detail)

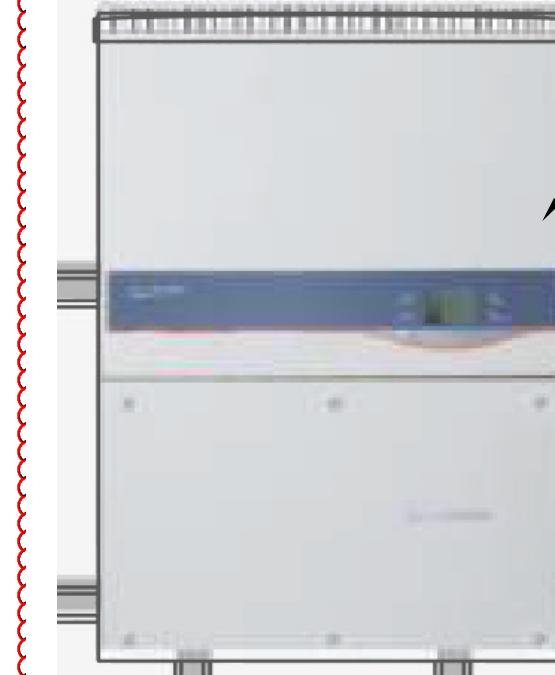


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm. TOLERANCES ARE:	
.X ± 0.02 [0.5]	.XXX ± 0.005 [0.13]
.XX ± 0.01 [0.25]	.XXXX± 0.001 [0.03]
SURFACE 125 [4.9] ± 1 Degree	
UNLESS OTHERWISE STATED BREAK ALL CORNERS CHAMFER ALL HOLES MAXIMUM CORNER RADIUS 0.02 [0.5]	
PROPRIETARY	
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APPROVALS	DATE
DRAWN JACK PATTON	5/23/16
CHECKED	
APPROVED	
MATERIAL A380 Aluminum	
HEAT TREAT	
DWG. NO. PR0010-01	REV. 01
FINISH	
SCALE: N.T.S	SHEET 1 OF 1

SUSTAINABLE
TECHNOLOGIES, LLC
FACET-INJ

INVERTER MOUNTING DETAIL (UNISTRUT FRAME)



FACET ROOF ATTACHMENT
Initials _____ Date _____



S4.0
ROOF RACKING
DETAIL
Prelim. Approval
Initials _____ Date _____

JB	Equipment change & added NSG roof array
1	2/8/17
REV. NO	REV. DATE
PO BOX 10637 NAPA, CA 94581 PH: (707)-252-9990	
BPI	
NSG1-COLUSA	1017 BRIDGE ST COLUSA, CA 95932 APN: 002-120-011
DATE: 6-14-16	
BY: JB	
JOB NO.: C15-700.1	