

76 North Meadowbrook Drive Alpine, UT 84004 office (201) 874-3483 swyssling@wysslingconsulting.com

September 21, 2022

Posigen Solar 1600 Olden Avenue, Unit 10 Ewing, NJ 08638

Re: Engineering Services
Vine Residence
8519 Apricot Street, New Orleans LA
5.810 kW System

To Whom It May Concern:

We have received information regarding solar panel installation on the roof of the above referenced structure. Our evaluation of the structure is to verify the existing capacity of the roof system and its ability to support the additional loads imposed by the proposed solar system.

#### A. Site Assessment Information

- 1. Site visit documentation identifying attic information including size and spacing of framing for the existing roof structure.
- Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information will be utilized for approval and construction of the proposed system.
- 3. The addition of solar panels will not exceed the height of the existing building
- 4. The outermost part of the solar panels will be less than 6 inches off the existing slope of the existing roof.

### B. Description of Structure:

Roof Framing: 2x6 dimensional lumber at 16" on center.

**Roof Material:** Composite Asphalt Shingles

Roof Slope: 25 degrees Attic Access: Accessible Permanent

### C. Loading Criteria Used

- Dead Load
  - Existing Roofing and framing = 7 psf
  - New Solar Panels and Racking = 3 psf
  - TOTAL = 10 PSF
- Live Load = 20 psf (reducible) 0 psf at locations of solar panels
- Ground Snow Load = 0 psf
- Wind Load based on ASCE 7-16
  - Ultimate Wind Speed = 144 mph (based on Risk Category II)
  - Exposure Category C

Analysis performed of the existing roof structure utilizing the above loading criteria is in accordance with the 2018 International Residential Code, including provisions allowing existing structures to not require strengthening if the new loads do not exceed existing design loads by 105% for gravity elements and 110% for seismic elements. This analysis indicates that the existing framing will support the additional panel loading without damage, if installed correctly.

### D. Solar Panel Anchorage

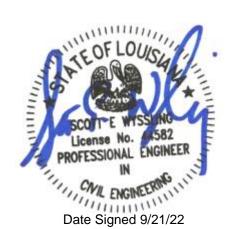
- 1. The solar panels shall be mounted in accordance with the most recent K2 Systems installation manual. If during solar panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.
- 2. The maximum allowable withdrawal force for a 5/16" lag screw is 235 lbs per inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications. Based on a minimum penetration depth of 2½", the allowable capacity per connection is greater than the design withdrawal force (demand). Considering the variable factors for the existing roof framing and installation tolerances, the connection using one 5/16" diameter lag screw with a minimum of 2½" embedment will be adequate and will include a sufficient factor of safety.
- 3. Considering the wind speed, roof slopes, size and spacing of framing members, and condition of the roof, the panel supports shall be placed no greater than 48" on center.
- 4. Panel supports connections shall be staggered to distribute load to adjacent framing members.

Based on the above evaluation, this office certifies that with the racking and mounting specified, the existing roof system will adequately support the additional loading imposed by the solar system. This evaluation is in conformance with the 2018 IRC, current industry standards, and is based on information supplied to us at the time of this report.

Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

Vera truly yours

Scott E. Wyssling, PE Louisiana License No. 14682





### **ABBREVIATIONS**

AMPERE

AC ALTERNATING CURRENT

**BLDG** BUILDING CONCRETE CONC С **COMBINER BOX** DISTRIBUTION PANEL DC DIRECT CURRENT

**EQUIPMENT GROUNDING CONDUCTOR EGC** 

(E) **EXISTING** 

**EMT ELECTRICAL METALLIC TUBING** 

**GALV** GALVANIZED

GEC GROUNDING ELECTRODE CONDUCTOR

**GND GROUND** 

HDG HOT DIPPED GALVANIZED

CURRENT

**CURRENT AT MAX POWER** Imp

INVS **INVERTERS** 

Isc SHORT CIRCUIT CURRENT

kVA KILOVOLT AMPERE

**KILOWATT** kW LBW LOAD BEARING WALL

MIN MINIMUM

NEW (N)

NEC NATIONAL ELECTRIC CODE

NIC NOT IN CONTRACT NTS NOT TO SCALE ON CENTER OC PANEL BOARD PL**PROPERTY LINES** PV **PHOTOVOLTAIC** PVC POLYVINYL CHLORIDE

S SUBPANEL SCH **SCHEDULE** 

SS STAINLESS STEEL

SSD SEE STRUCTURAL DIAGRAMS STANDARD TESTING CONDITIONS STC

SOLAR WATER HEATER SWH

TYP **TYPICAL** 

UON **UNLESS OTHERWISE NOTED** 

UPS UNINTERRUPTIBLE POWER SUPPLY

VOLT

Vmp **VOLTAGE AT MAX POWER VOLTAGE AT OPEN CIRCUIT** Voc

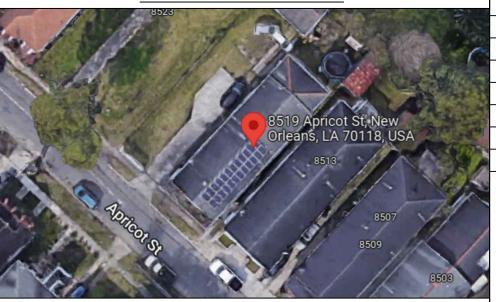
W WATT

3R NEMA 3R, RAIN TIGHT

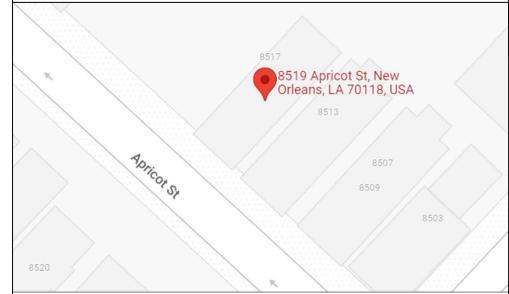
### **ELECTRICAL NOTES**

- WHERE ALL TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A SIGN WILL BE PROVIDED WARNING OF THE HAZARDS PER ART. 690.17.
- EACH UNGROUNDED CONDUCTOR OF THE MULTIWIRE BRANCH CIRCUIT WILL BE IDENTIFIED BY PHASE AND SYSTEM PER ART. 210.5.
- A NATIONALLY-RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART. 110.3.
- CIRCUITS OVER 250V TO GROUND SHALL COMPLY WITH ART. 250.97, 250.92(B)
- DC CONDUCTORS EITHER DO NOT ENTER **BUILDING OR ARE RUN IN METALLIC** RACEWAYS OR ENCLOSURES TO THE FIRST ACCESSIBLE DC DISCONNECTING MEANS PER ART. 690.31(E).
- ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING.
- MODULE FRAMES SHALL BE GROUNDED AT THE UL-LISTED LOCATION PROVIDED BY THE MANUFACTURER USING UL LISTED GROUNDING HARDWARE.
- ALL EXPOSED METAL PARTS (MODULE FRAMES, RAIL, BOXES, ETC.) SHALL BE GROUNDED USING UL LISTED LAY-IN LUGS LISTED FOR THE PURPOSE, POSTS SHALL BE MADE ELECTRICALLY CONTINUOUS WITH ATTACHED RAIL.
- MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS AND GROUNDED AT THE MAIN ELECTRIC PANEL.
- THE DC GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED ACCORDING TO ART. 250.166(B) & 690.47.

## **AERIAL VIEW**



## **VICINITY MAP**



### **GENERAL NOTES**

- THIS SYSTEM IS GRID-INTERTIED VIA A UL-LISTED POWER-CONDITIONING INVERTER.
- 2. THIS SYSTEM HAS NO BATTERIES, NO UPS.
- 3. ALL INVERTERS AND ARRAYS ARE NEGATIVELY GROUNDED.
- 4. SOLAR MOUNTING FRAMES ARE TO BE GROUNDED.

### **UL 2703 GROUND AND BONDING** CERTIFICATION

APPLICABLE CODE

**INDEX** 

**COVER SHEET** 

SITE PLAN

ATTACHMENT PLAN

ATTACHMENT DETAIL

SINGLE-LINE DIAGRAM

**ELECTRICAL NOTES** 

**PLACARD** 

SAFETY LABELS

**BILL OF MATERIAL** 

MODULE DATASHEET

**OPTIMIZER DATASHEET** 

**INVERTER DATASHEET** 

MOUNTING SYSTEM DATASHEET

MOUNTING SYSTEM ENGINEERING LETTER

PV-1

PV-2

PV-3

PV-4

PV-5

PV-5.1

PV-6

PV-7

INTERNATIONAL BUILDING CODE 2018 ( (IBC 2018)) INTERNATIONAL RESIDENTIAL CODE 2018 (IRC 2018) INTERNATIONAL FIRE CODE 2015 (IFC 2015) NATIONAL ELECTRICAL CODE 2014(NEC 2014)

AHJ: NEW ORLEANS CITY

**UTILITY: ENTERGY** 

# **PosiGen**

Solar Energy and Energy Efficiency

POSIGEN DEVELOPER, LLC 819 CENTRAL AVE STE 210 JEFFERSON, LA 70121

LA ELECTRICAL LICENSE: 74446

OWNER: **JOB NUMBER: P-004807 UTILITY: ENTERGY RACKING: K2 CROSSRAIL SYSTEM** MODULES: (14)CS3N-415MS ACCOUNT NUMBER: 56464969

OPTIMIZER: (14) SOLAREDGE S440 OPTIMIZER

WALTER VINE, 8519 APRICOT STNEW ORLEANS. LA 70118

DESCRIPTION: WALTER VINE.

**RESIDENCE** 

5.81 kWDC ROOF SOLAR SYSTEM PRODUCTION: 6,694kWH

**DESIGNED BY:** 

REV:

License No.

ROFESSIONAL

CAVIL ENGINEERING CNIL ENGINEERING Signed 9/21/2022

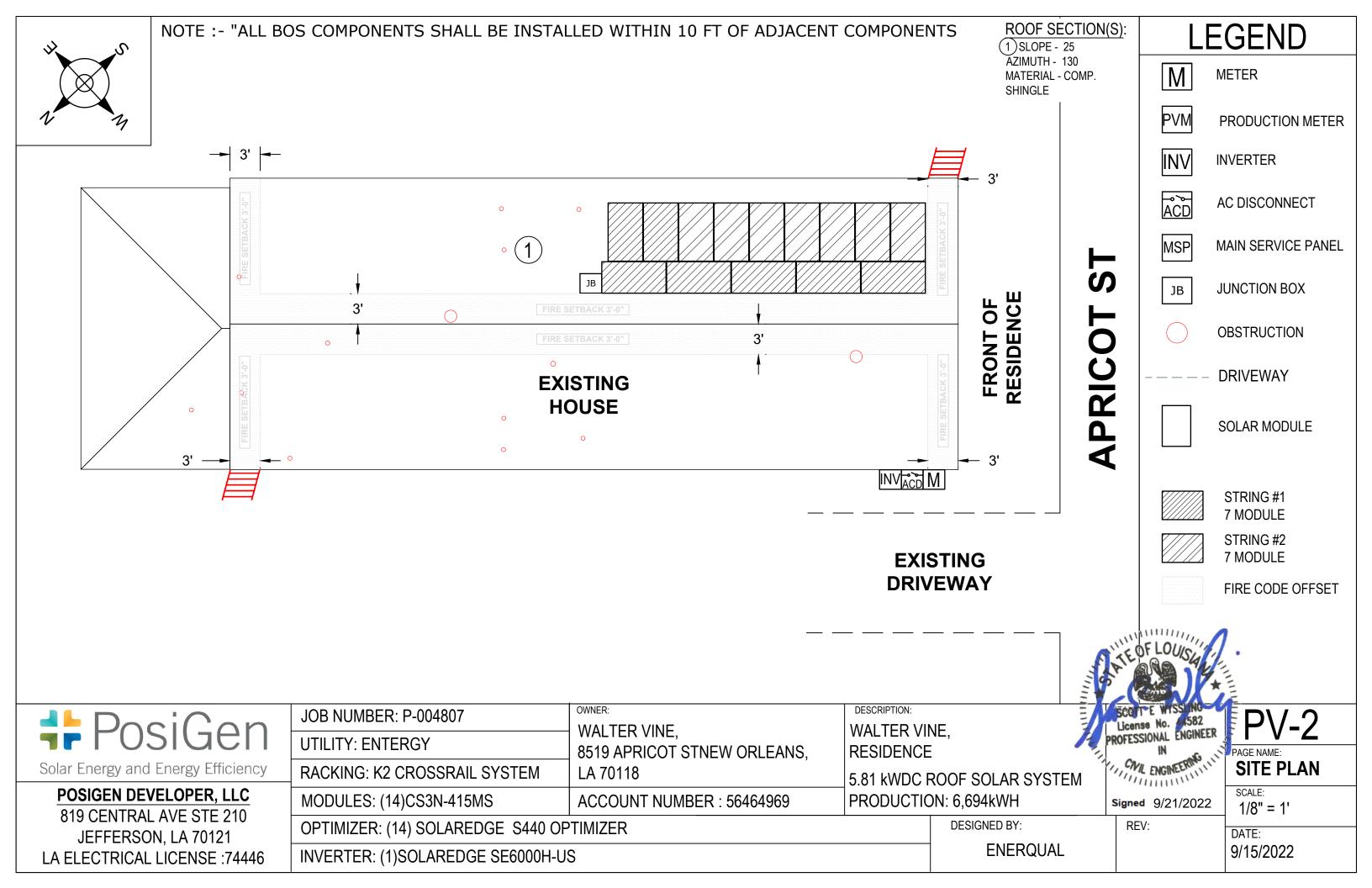
**COVER SHEET** SCALE:

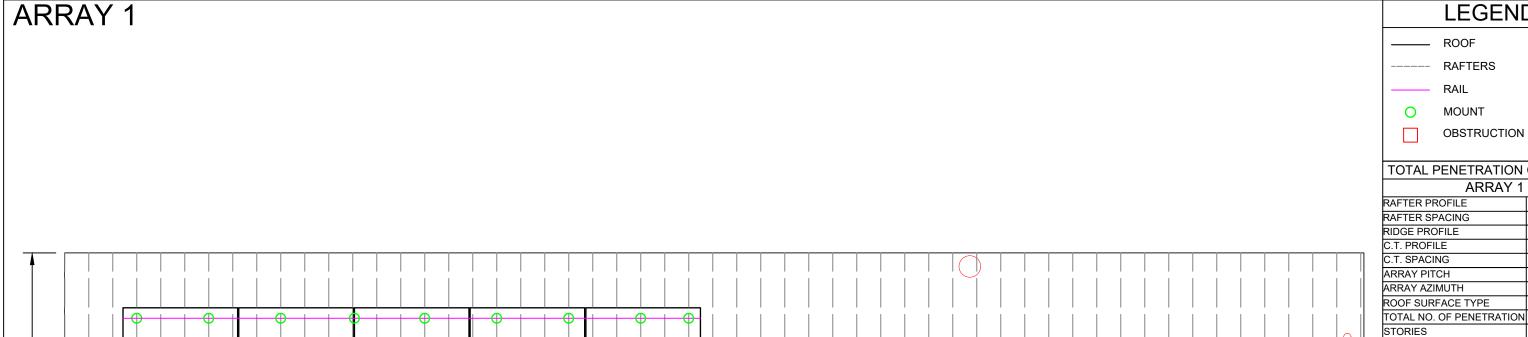
NTS

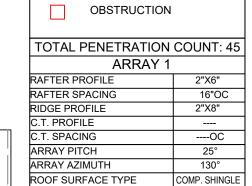
DATE: 9/15/2022

INVERTER: (1)SOLAREDGE SE6000H-US

**ENERQUAL** 





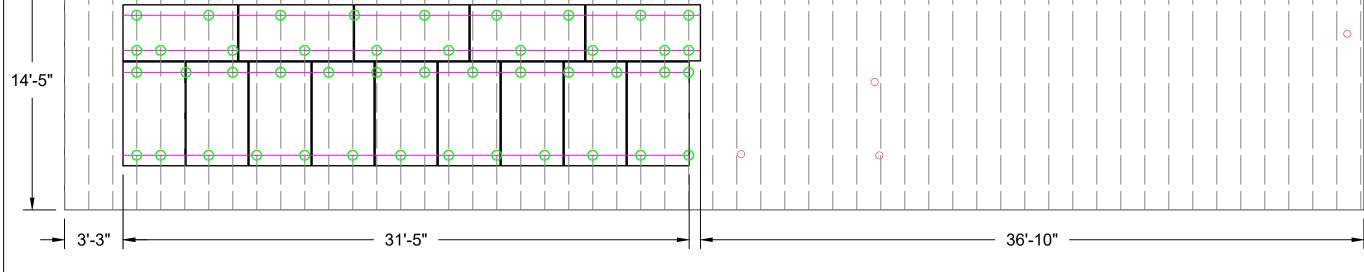


45

**LEGEND** 

ROOF **RAFTERS** RAIL

MOUNT



# PosiGen
Solar Energy and Energy Efficiency

POSIGEN DEVELOPER, LLC 819 CENTRAL AVE STE 210 JEFFERSON, LA 70121 LA ELECTRICAL LICENSE: 74446

OWNER: DESCRIPTION: JOB NUMBER: P-004807 WALTER VINE, WALTER VINE, **UTILITY: ENTERGY** 8519 APRICOT STNEW ORLEANS, RESIDENCE **RACKING: K2 CROSSRAIL SYSTEM** LA 70118 5.81 kWDC ROOF SOLAR SYSTEM MODULES: (14)CS3N-415MS ACCOUNT NUMBER: 56464969 PRODUCTION: 6,694kWH OPTIMIZER: (14) SOLAREDGE S440 OPTIMIZER DESIGNED BY:

INVERTER: (1)SOLAREDGE SE6000H-US

CAVIL ENGINEERING

REV:

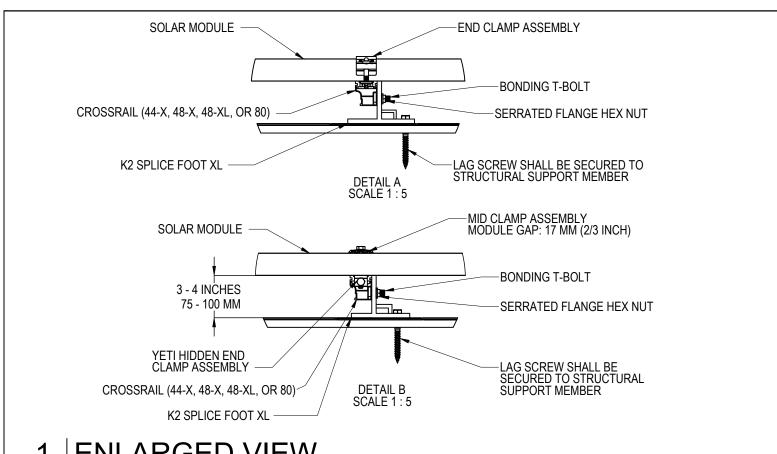
**ENERQUAL** 

Signed 9/21/2022

3/16" = 1'-0"

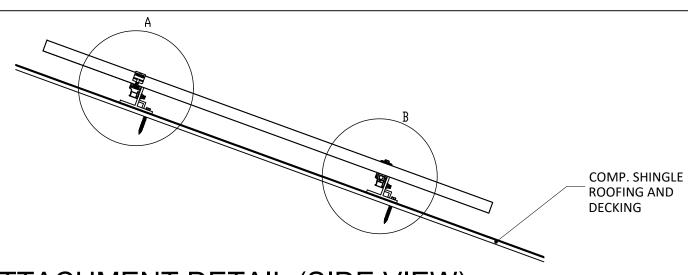
ATTACHMENT PLAN

DATE: 9/15/2022



## **ENLARGED VIEW**

SCALE: NTS



INVERTER: (1)SOLAREDGE SE6000H-US

## ATTACHMENT DETAIL (SIDE VIEW)

SCALE: NTS



## POSIGEN DEVELOPER, LLC 819 CENTRAL AVE STE 210

JEFFERSON, LA 70121 LA ELECTRICAL LICENSE: 74446

JOB NUMBER: P-004807	OWNER:
UTILITY: ENTERGY	WALTER VINE,   8519 APRICOT STNEW ORLEANS,
RACKING: K2 CROSSRAIL SYSTEM	LA 70118
MODULES: (14)CS3N-415MS	ACCOUNT NUMBER : 56464969
OPTIMIZER: (14) SOLAREDGE S440 OP	TIMIZER

DESCRIPTION: WALTER VINE. RESIDENCE 5.81 kWDC ROOF SOLAR SYSTEM

PRODUCTION: 6,694kWH

**DESIGNED BY:** 

**ENERQUAL** 

REV:

ATTACHMENT DETAIL SCALE:

-2"X6" Rafters 16" O.C

NTS

DATE: 9/15/2022

License No. 4582 ROFESSIONAL ENGINEER

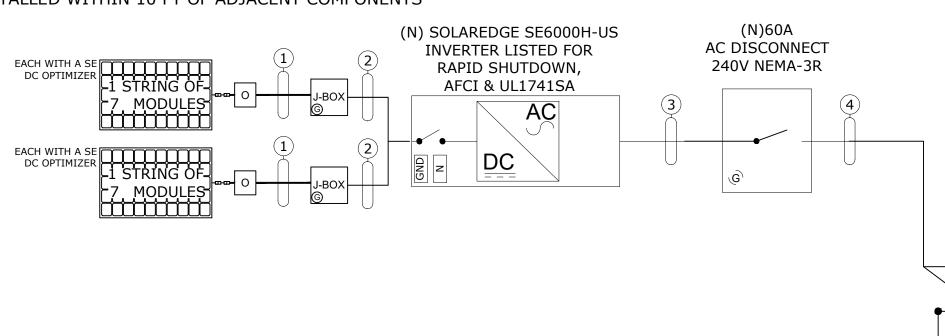
FRAME SECTION 1

-2"X8" Ridge Beam

CAVIL ENGINEERING Signed 9/21/2022

WIRE CON	TIUDNC	WIRE QTY	WIRE   GAUGE:	WIRE TYPE	TEMP RATING:	WIRE AMP	TEMP DE-RATE		CONDUIT FILL:	Γ	WIRE OCP:	TERMINAL 75°C RATING:	STRING WATTAGE	/ OP	ERATING	STRI AMF	NG x	NEC:	= MAX AMPS	MAX. SYSTEM VOLTAGE	GRND SIZE	GRND WIRE TYPE
	pen Air	2	#10	PV WIRE	90°	40		X		=	38.40A	35 A	2905	1	380	= 7.6		1.25 =		480	#6	SBC
2 3/4'	/4" EMT	2	#10	THWN-2	90°	40	x 0.96	х	1	=	38.40A	35 A	2905	/	380	= 7.6	4 x	1.25 =	9.56 A	480	#10	THWN-2
3 3/4'	/4" EMT	3	#8	THWN-2	90°	55	x 0.96	х	1	=	52.80A	50 A		/		= 25	х	1.25 =	= 31.25 A	240	#10	THWN-2
4 3/4'	/4" EMT	3	#8	THWN-2	90°	55	x 0.96	х	1	=	52.80A	50 A		/		= 25	Х	1.25 =	31.25 A	240	#10	THWN-2
INVER	RTER SPEC	CS		OPTIMIZER SPECS	T	DISCON	NNECTS				MOI	DULE SPECS		ASH	IRAE AMBIE	ENT TEMP	PERAT	URE SPEC	CS	-		
NVERTER:SE	E6000H-US		OPTIMIZ	ZER:S440	MAKE:E	aton d	G222NRB		MODULE TY	PE:	QTY:	WATTAGE: FR	AME COLOR:	High	n Temp	DISTAN ABOVE R		EXTRE	ME			
QT	)TY:1		QTY: 14	MAX STRING	QTY:1				CS3N-4			415	BLACK	2%	6 Avg.	1"	.001	MIN				
	VATTAGE: 6000		E: CELL: 60 ISC: 14.		RATED (		T: 60A .TAGE: 240V		Voc: 45.1V		Isc: 11.6	8A Imp: 10.98A V	/pmax: 37.8V		24 20 C	NO TEMP AI R 310.15(E		-1.4	° C	/1	•	RHEAD) ITY METER

UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C) (1) AND ARTICLE 310.10 (D). CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C). ALL BOS COMPONENTS SHALL BE INSTALLED WITHIN 10 FT OF ADJACENT COMPONENTS



## FOR MSP

## 120 % RULE

BUS
BAR
BAR
BR

MAIN MAX REAKER PV OCP

200Ax 1.2 ) - 200A= 40A

# PosiGen	
Solar Energy and Energy Efficiency	

## POSIGEN DEVELOPER, LLC 819 CENTRAL AVE STE 210

JEFFERSON, LA 70121 LA ELECTRICAL LICENSE :74446

7	JOB NUMBER: P-004807	OWNER: WALTER VINE,	DESCRIPTION: WALTER VII	NE,	STAMP:	PV-5
ı	UTILITY: ENTERGY	8519 APRICOT STNEW ORLEANS,	RESIDENCE	<u> </u>		PAGE NAME:
псу	RACKING: K2 CROSSRAIL SYSTEM	LA 70118	5.81 kWDC F	ROOF SOLAR SYSTEM		SINGLE-LINE DIAGRAM
	MODULES: (14)CS3N-415MS	ACCOUNT NUMBER : 56464969	PRODUCTIO	ON: 6,694kWH		SCALE: NTS
	OPTIMIZER: (14) SOLAREDGE S440 OF	TIMIZER		DESIGNED BY:	REV:	DATE:
46	INVERTER: (1)SOLAREDGE SE6000H-U	S		ENERQUAL		9/15/2022

AM1084531

#

METER

(E) 200 A TOP FED

MAIN SERVICE

**PANEL** 

(E) ( L<u>OADS</u>

40A/2P

● 200A/2P

#6 BARE CU GROUNDING ELECTRODE & AUXILIARY

FEET APART)

NEC 250.68(C)(1)

GROUNDING ELECTRODE AS NEEDED PER NEC 690.47 (6

	GROUNDING NOTES
1	ALL EQUIPMENT SHALL BE PROPERLY GROUNDED PER THE REQUIREMENTS OF NEC ARTICLES 250 & 690
2	INSTALLER SHALL CONFIRM THAT MOUNTING SYSTEM HAS BEEN EVALUATED FOR COMPLIANCE WITH UL 2703 "GROUNDING AND BONDING" WHEN USED WITH PROPOSED PV MODULE.
3	PV MODULES SHALL BE GROUNDED TO MOUNTING RAILS USING MODULE LUGS OR RACKING INTEGRATED GROUNDING CLAMPS AS ALLOWED BY LOCAL JURISDICTION. ALL OTHER EXPOSED METAL PARTS SHALL BE GROUNDED USING UL-LISTED LAY-IN LUGS.
4	GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLOR CODED GREEN, OR MARKED GREEN IF #4AWG OR LARGER
5	AC SYSTEM GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE A MINIMUM SIZE #8AWG WHEN INSULATED, #6AWG IF BARE WIRE.
6	IF THE EXISTING MAIN SERVICE PANEL DOES NOT HAVE A VERIFIABLE GROUNDING ELECTRODE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
-	PosiGen

Solar Energy and Energy Efficiency

POSIGEN DEVELOPER, LLC
819 CENTRAL AVE STE 210
JEFFERSON, LA 70121
LA ELECTRICAL LICENSE :74446

EQUIPMENT GROUNDING
CONDUCTORS SHALL BE SIZED
ACCORDING TO NEC ARTICLE
690.45, AND BE A MINIMUM
OF #10AWG WHEN NOT
EXPOSED TO DAMAGE, AND
#6AWG SHALL BE USED WHEN
EXPOSED TO DAMAGE

### **NOTES:**

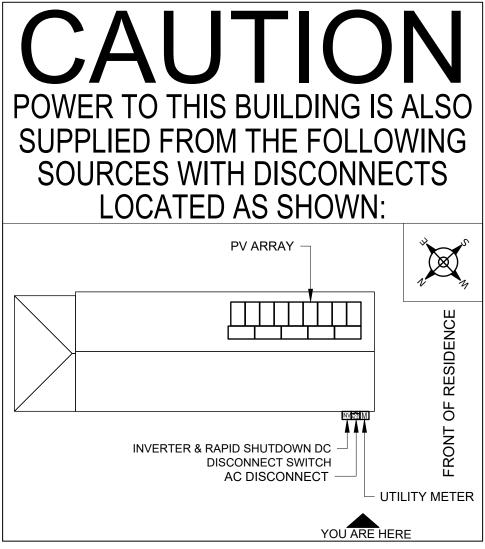
- 1. MATING CONNECTORS SHALL COMPLY WITH NEC 690.33.
- 2. SOLAR EDGE SYSTEM MEETS REQUIREMENTS FOR PHOTOVOLTAIC RAPID SHUTDOWN SYSTEM (PVRSS), AS PER NEC 690.12(B).
- 3. THE SPECIFIED OPTIMIZER CAN BE SUBSTITUTED WITH A P400, P405, P505, P401, OR P485. THESE OPTIMIZERS HAVE AN INPUT VOLTAGE WINDOW WIDE ENOUGH TO ACCOMMODATE THE OUTPUT VOLTAGE RANGE OF THE MODULE AT THE DESIGN TEMPERATURES, HAVE A MAX INPUT CURRENT RATING THAT IS ABOVE THE MAX OUTPUT CURRENT OF THE MODULE, AND A MAX POWER INPUT THAT IS ABOVE THE RATED POWER OUTPUT OF THE MODULE.
- 4. DC PV CONDUCTORS ARE NOT SOLIDLY-GROUNDED. NO DC PV CONDUCTOR SHALL BE WHITE- OR GRAY-COLORED 5. ALL METAL ENCLOSURES, RACEWAYS, CABLES AND EXPOSED NONCURRENT-CARRYING METAL PARTS OF EQUIPMENT SHALL BE GROUNDED TO EARTH AS REQUIRED BY NEC 250.4(A) AND PART III OF ARTICLE 250 AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45. THE GROUNDING ELECTRODE SYSTEM SHALL ADHERE TO NEC 690.47(A) AND NEC 250.169. THE DC GROUNDING ELECTRODE SHALL BE SIZED ACCORDING TO NEC 250.166 AND INSTALLED IN COMPLIANCE WITH NEC 250.64.
- 6. MAX DC VOLTAGE OF ARRAY FIXED BY THE INVERTER AT 380V REGARDLESS OF TEMPERATURE. THE MAX DC VOLTAGE OF THE MODULE AT -15°C IS 53.2V (-15°C 25°C) X -0.138V/C + 47.7V = 53.2V).
- 7. POINT-OF-CONNECTION IS ON THE SUPPLY SIDE OF SERVICE DISCONNECT, INSIDE PANELBOARD ENCLOSURE USING UNUSED TERMINALS, TERMINALS THAT ARE SUITABLE FOR DOUBLE LUGGING, OR USING OTHER LOCALLY-APPROVED METHODS AND HARDWARE, IN COMPLIANCE WITH NEC 705.12(A). THE PANELBOARD SHALL HAVE SUFFICIENT SPACE TO ALLOW FOR ANY TAP HARDWARE AS REQUIRED BY NEC 110.3 AND NEC 312.8(A)
- 8. PV SYSTEM DISCONNECT SHALL BE A VISIBLE KNIFE-BLADE TYPE DISCONNECT THAT IS ACCESSIBLE AND LOCKABLE BY THE UTILITY. THE DISCONNECT SHALL BE LOCATED WITHIN 10 FT OF UTILITY METER.

  DISCONNECT SHALL BE GROUPED IN ACCORDANCE WITH NEC 230.72.

	JOB NUMBER: P-004807	OWNER:	DESCRIPTION:	NΓ	STAMP:	PV-5 1	
ı	UTILITY: ENTERGY	WALTER VINE, 8519 APRICOT STNEW ORLEANS,	WALTER VII   RESIDENCE	,		PAGE NAME:	
У	RACKING: K2 CROSSRAIL SYSTEM	LA 70118	5.81 kWDC I	ROOF SOLAR SYSTEM		ELECTRICAL NOTES	
	MODULES: (14)CS3N-415MS	ACCOUNT NUMBER : 56464969	PRODUCTION	ON: 6,694kWH		SCALE: NTS	
	OPTIMIZER: (14) SOLAREDGE S440 OP	TIMIZER		DESIGNED BY:	REV:	DATE:	
6	INVERTER: (1)SOLAREDGE SE6000H-U	S		ENERQUAL		9/15/2022	

DESCRIPTION

CTAMD



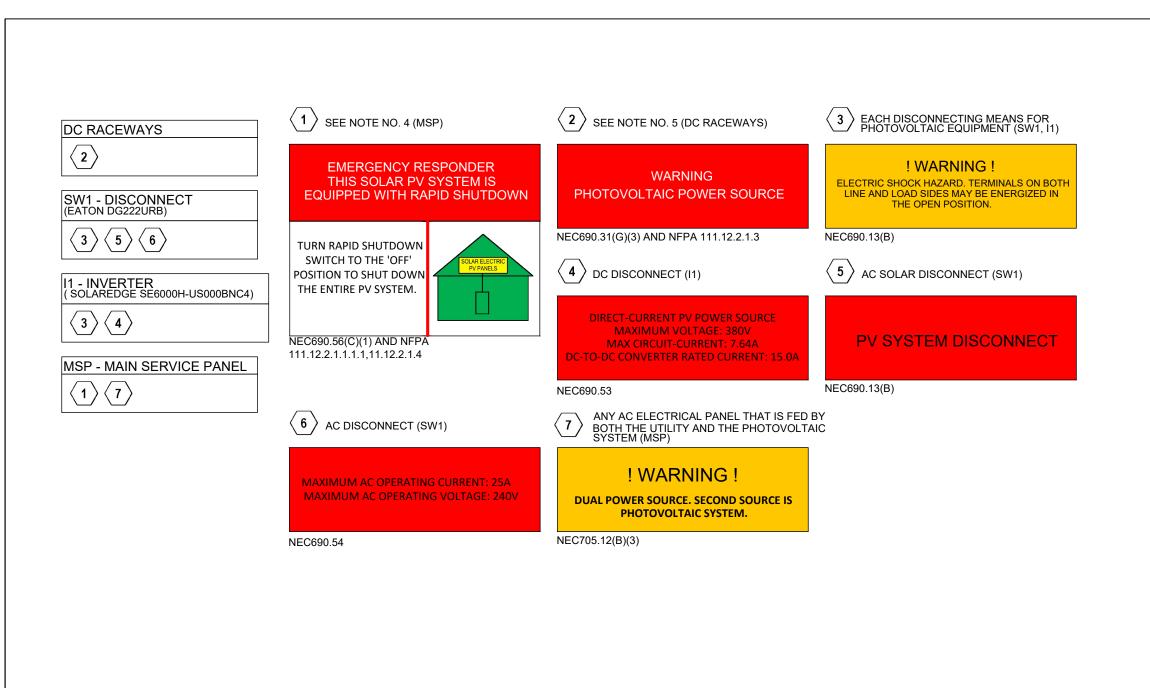
PLACARD RIVETED TO THE MAIN SERVICE PANEL

**DIRECTORY** 

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(B)&(C), [NEC 705.10])

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LA ELECTRICAL LICENSE :74446	INVERTER: (1)SOLAREDGE SE6000H-U	IS		ENERQUAL		9/15/2022

LABELING NOTES

ALL PLAQUES AND SIGNAGE REQUIRED BY 2017 NEC
AND 2018 NFPA 1 WILL BE INSTALLED AS REQUIRED.

LABELS, WARNING(S) AND MARKING SHALL COMPLY

WITH ANSI Z535.4, WHICH REQUIRES THAT DANGER,

WARNING, AND CAUTION SIGNS USED THE STANDARD HEADER COLORS, HEADER TEXT, AND SAFETY ALERT

SYMBOL ON EACH LABEL. THE ANSI STANDARD

REQUIRES A HEADING THAT IS AT LEAST 50% TALLER

THAN THE BODY TEXT, IN ACCORDANCE WITH NEC

110.21(B).

A PERMANENT PLAQUE OR DIRECTORY SHALL BE

INSTALLED PROVIDING THE LOCATION OF THE

SERVICE DISCONNECTING MEANS AND THE

PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS IF

NOT IN THE SAME LOCATION IN ACCORDANCE WITH

NEC 690.56(B).

LABEL(S) WITH MARKING, "TURN RAPID SHUTDOWN

SWITCH TO THE 'OFF' POSITION TO SHUT DOWN THE

ENTIRE PV SYSTEM," SHALL BE LOCATED WITHIN 3 FT

OF SERVICE DISCONNECTING MEANS THE TITLE SHALL

UTILIZE CAPITALIZED LETTERS WITH A MINIMUM

HEIGHT OF 3/8" IN BLACK ON A RED BACKGROUND, AND REMAINING TEXT SHALL BE CAPITALIZED WITH A

MINIMUM HEIGHT OF 3/16" IN BLACK ON WHITE BACKGROUND

LABEL(S) WITH MARKING, "WARNING PHOTOVOLTAIC

POWER SOURCE," SHALL BE LOCATED AT EVERY 10 FEET OF EACH DC RACEWAY AND WITHIN ONE FOOT

OF EVERY TURN OR BEND AND WITHIN ONE FOOT

ABOVE AND BELOW ALL PENETRATIONS OF

ROOF/CEILING ASSEMBLIES, WALLS AND BARRIERS. THE LABEL SHALL HAVE 3/8" TALL LETTERS AND BE REFLECTIVE WITH WHITE TEXT ON A RED BACKGROUND

## Bill Of Materials

## WALTER VINE 8519 APRICOT ST, NEW ORLEANS, LA 70118

	Electrica	al Equipment
QTY	Part #	Description
14	CS3N-415MS	CANADIAN SOLAR CS3N-415MS Solar Modules
1	SOLAREDGE SE6000H-US	SOLAREDGE SE6000H-US (240V) Inverter(s)
14	SolarEdge S440	SolarEdge S440 Optimizers
1	SE-GSM-R05-US-S1	SolarEdge GSM w/ 5 Year Plan
1	60A UNFUSED AC Disconnect	AC Disconnect, NEMA 3R, 60A, 240VAC, 2-Pole
1	Junction Box	Junction Box
	Breake	rs and Fuses
1	40A 2-Pole Breaker(s)	General 40A 2-Pole Breaker(s)
	R	acking
TBD	4000021 (180" mill)	CrossRail 44-X (shown) all CR profiles applicable
TBD	4000019 (168" mill)	CrossRail 44-X (shown) all CR profiles applicable
TBD	4000051 (mill)	CrossRail 44-X Rail Connector
24	4000601-H (mill)	CrossRail Mid Clamp
8	4000429 (mill)	CrossRail (Standard) End Clamp
45	4000630 (mill)	L-Foot Slotted Set
2	400006-H	Everest Ground Lug