GENERAL NOTES	LEGEND AND ABBR	
ALL WORK SHALL COMPLY WITH 2015 IRC/IBC/IEBC w 2018 CT Amendments, MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS. PHOTOVOLITAIC SYSTEM WILL COMPLY WITH NEC 2017		SOLAR MODULES
• ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2017.		
• PHOTOVOLTAIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.35.	SP SUB-PANEL	SNR MOUNT SNR MOUNT & SKIRT
MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.	C PV LOAD CENTER	CHIMNEY
INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.		ATTIC VENT
• RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.	SUNKON METER	FLUSH ATTIC VEN
• SNAPNRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED.	DEDICATED PV METER	• PVC PIPE VENT
RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 690.12(1).		⊗ METAL PIPE VENT ⊠ T-VENT
CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(G).	AC DISCONNECT(S)	
ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT.	DC DISCONNECT(S)	FIRE SETBACKS
10.23 AMPS MODULE SHORT CIRCUIT CURRENT.		
• PV INSTALLATION COMPLIES WITH THE NEC 2017 ARTICLE 690.12(B)(2).		HARDSCAPE
LIMITED TO 80 VOLTS WITHIN 30 SECOND OF A RAPID SHUTDOWN INITIATION	INTERIOR EQUIPMENT	— PL— PROPERTY LINE SCALE
	AAMPEREACALTERNATING CAFCIARC FAULT CIRCAZIMAZIMUTHCOMPCOMPOSITIONDCDIRECT CURREN(E)EXISTINGESSENERGY STORAEXTEXTERIORINTINTERIORMAGMAGNETICMSPMAIN SERVICE P(N)NEWNTSNOT TO SCALEOCON CENTERPRE-FABPRE-FABRICATEPSFPOUNDS PER SCPVPHOTOVOLTAICRSDRAPID SHUTDOVTLTRANSFORMERITYPTYPICALVVOLTSWWATTSREVNAMEDAT	CUIT INTERRUPTER NT GE SYSTEM PANEL QUARE FOOT NN DEVICE LESS
	 MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS. PHOTOVOLTAIC SYSTEM WILL COMPLY WITH NEC 2017. ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2017. PHOTOVOLTAIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.35. MODULES CONFORM TO AND ARE LISTED UNDER UL 1703. INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741. RACKING CONFORMS TO AND IS LISTED UNDER UL 2703. SNAPNRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED. RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 690.12(1). CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(G). ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT. 10.23 AMPS MODULE SHORT CIRCUIT CURRENT. 15.98 AMPS DERATED SHORT CIRCUIT CURRENT. PV INSTALLATION COMPLIES WITH THE NEC 2017 ARTICLE 690.12(B)(2). CONTROLLED CONDUCTORS LOCATED INSIDE THE ARRAY BOUNDARY ARE 	MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS. • PHOTOVOLTAIC SYSTEM WILL COMPLY WITH NEC 2017. • ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2017. • PHOTOVOLTAIC SYSTEM IS LURGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 680.35. • MODULES CONFORMS TO AND ARE LISTED UNDER UL 1703. • INVERTER CONFORMS TO AND IS LISTED UNDER UL 1703. • INVERTER CONFORMS TO AND IS LISTED UNDER UL 1703. • NAPINRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED. • RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 680.12(1). • CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(G). • ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT. • 10.23 AMPS MODULE SHORT CIRCUIT CURRENT. • 10.23 AMPS MODULE SHORT CIRCUIT CURRENT. • 10.23 AMPS MODULE SHORT CIRCUIT CURRENT. • 10.23 AMPS DERATED SHORT CIRCUIT CURRENT. • 10.23 AMPS MODULE SHORT CIRCUIT CURRENT. • 10.23 AMPS MODULE SHORT CIRCUIT CURRENT. • 10.23 AMPS MODULE SHORT CIRCUIT CURRENT. • 10.23 AMPS DERATED SHORT CIRCUIT CURRENT. • 10.23 AMPS DERATED SHORT CIRCUIT CURRENT. • 10.23 AMPS DERATED SHORT CIRCUIT CURRENT [1500.8 (a) & 650.8 (b)]. • PV INSTALLATION COMPLES WITH THE NEC 2017 ARTICLE 690.12(3). • COMPOSITION AS DASHED A A AMPERE AC A ATTERNOR COMPOSITION COMPOSITION OF A RAPID SHUTDOWN INITIATION INTERIOR EQUIPMENT SHOWN AS DASHED A A AMPERE AC A ATTERNOR AG AMONETIC MAG MAGNETIC MAG MAGNETIC MAGN AGNETIC MAG MAGNETIC MAG MAGNETIC MAGN MAGNETIC MAG MAGNETIC MAGN AGNETIC MAGN MAGNETIC MAGN AGNETIC MAGN MAGNETIC MAGN AGNETIC MAGN MAGNETIC MAGN AGNETIC MAGN AGNETIC MAGN MAGNETIC MAGN MAGNETIC MAGN MAGN



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PV-3.1	MOUNTING DETAIL		
PV-4.0	ELECTRICAL		
PV-5.0	SIGNAGE		

SUNLUN

ELC. 0204771- E1

75 BRAINARD RD BLDG. C SUITE 2 HARTFORD, CT 06114 PHONE 203-824-0782 FAX 860-247-1429

CUSTOMER RESIDENCE: ROBERT MCCUSKER 45 E WEATOGUE ST, SIMSBURY, CT, 06070 TEL. (860) 881-5112 APN/TMK #: APN:

SIMS-000014H-000108-000008

PROJECT NUMBER: 231R-045MCCU

(415) 580-6920 ex3 DESIGNER: JOHN ESTANISLAO

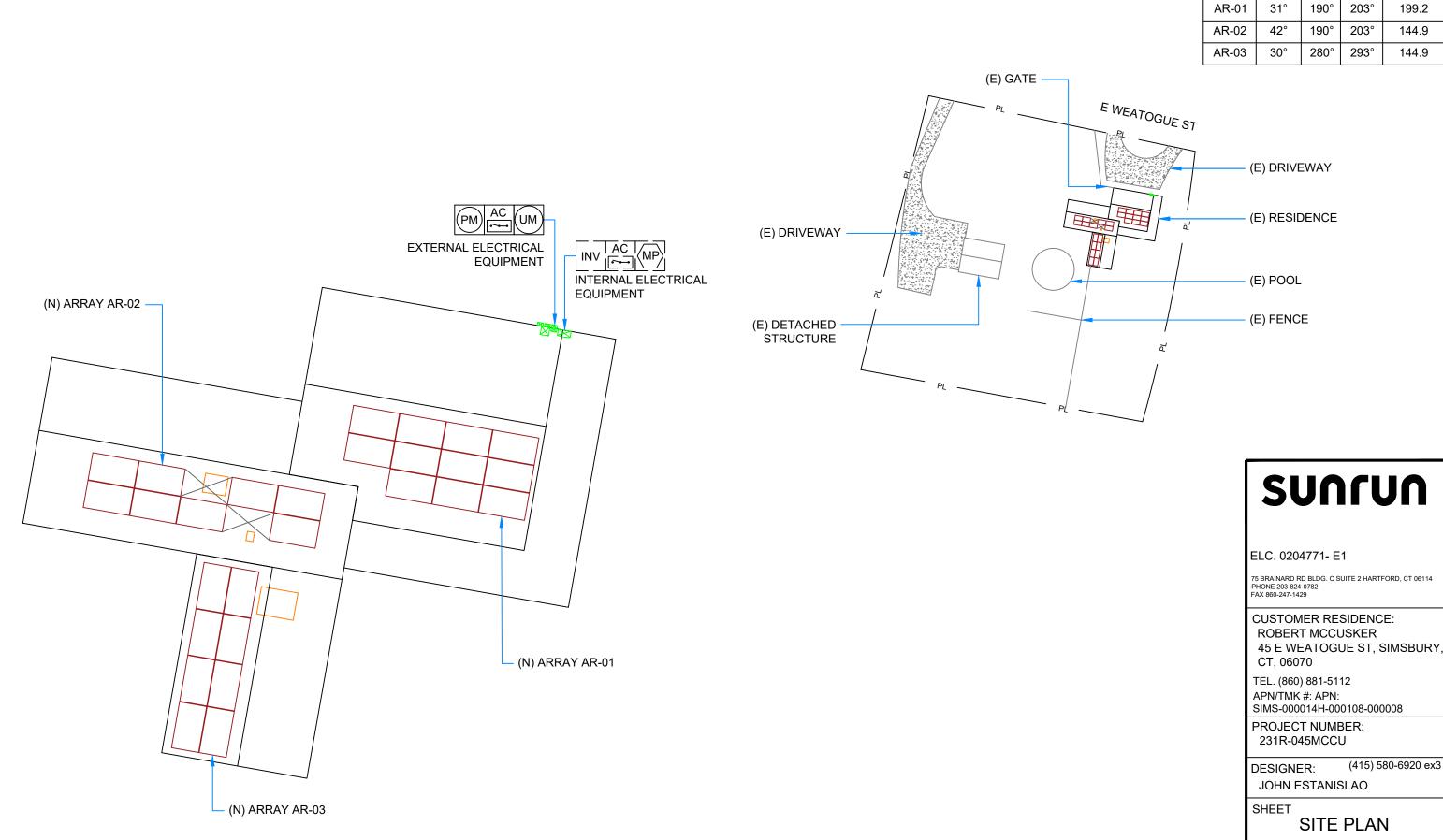
SHEET

COVER SHEET

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12/05/2021

PV-1.0



	ARRAY PITCH	TRUE AZIM	MAG AZIM	PV AREA (SQFT)
AR-01	31°	190°	203°	199.2
AR-02	42°	190°	203°	144.9
AR-03	30°	280°	293°	144.9

45 E WEATOGUE ST, SIMSBURY,

REV: A

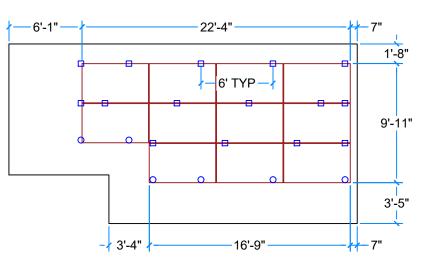
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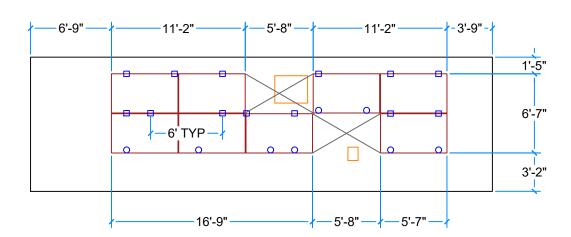
PV-2.0

	ROOF INFO		FRAMING INFO			ATTACHMENT IN	IFORMATION		
Name	Туре	Height	Туре	Max Span	OC Spacing	Detail	Max Landscape OC Spacing	Max Landscape Overhang	Max Portrait OC Spacing
AR-01	COMP SHINGLE - RLU	2-Story	3X4 RAFTERS	11' - 3"	24"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	6' - 0"	2' - 4"	4' - 0"
AR-02	COMP SHINGLE - RLU	2-Story	2X6 RAFTERS	7' - 1"	24"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	6' - 0"	2' - 4"	4' - 0"
AR-03	COMP SHINGLE - RLU	1-Story	3X3 RAFTERS	6' - 4"	24"	RL UNIVERSAL, SPEEDSEAL TRACK ON COMP, SEE DETAIL SNR-DC-00436	6' - 0"	2' - 4"	4' - 0"

D1 - AR-01 - SCALE: 1/8" = 1'-0" PITCH: 31° AZIM: 190°

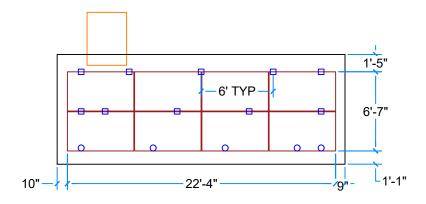


<u>D2 - AR-02 - SCALE: 1/8" = 1'-0"</u> PITCH: 42° AZIM: 190°

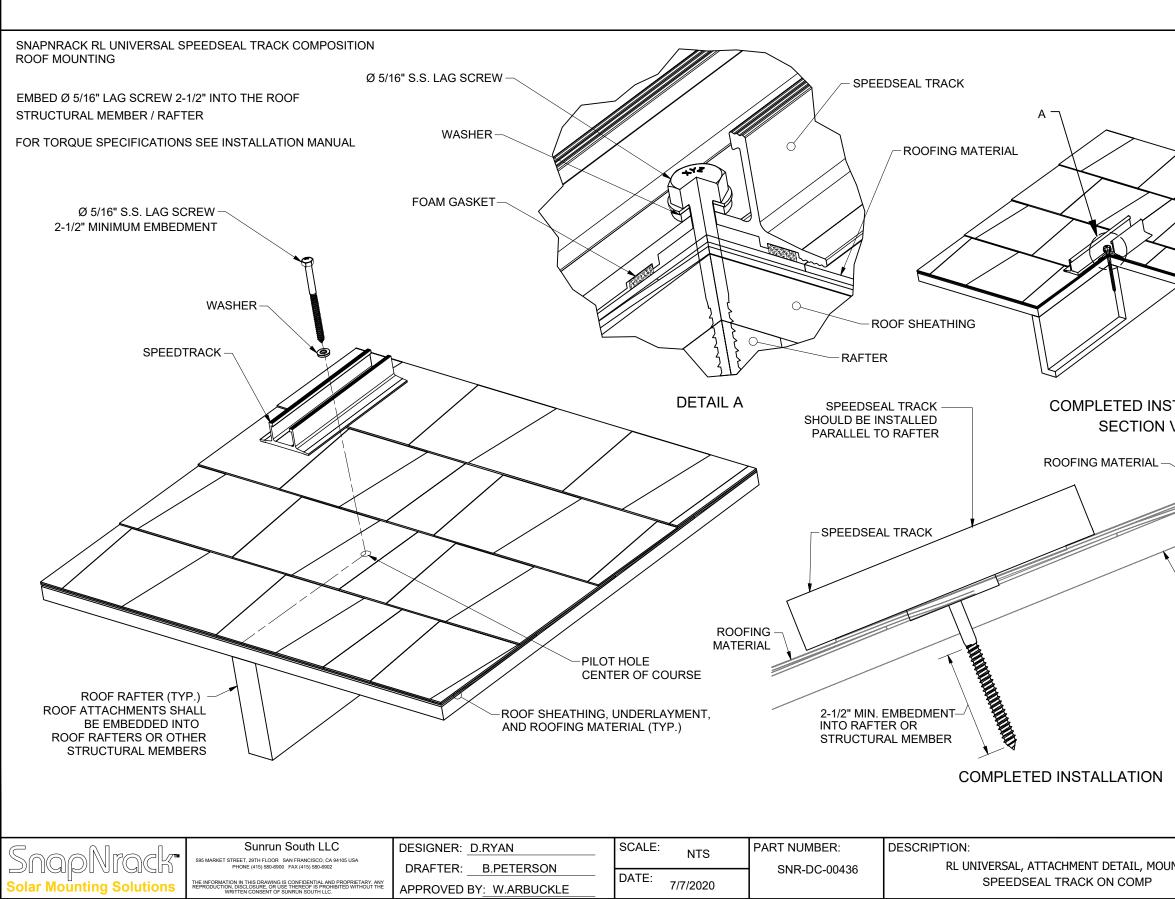


D3 - AR-03 - SCALE: 1/8" = 1'-0" PITCH: 30°

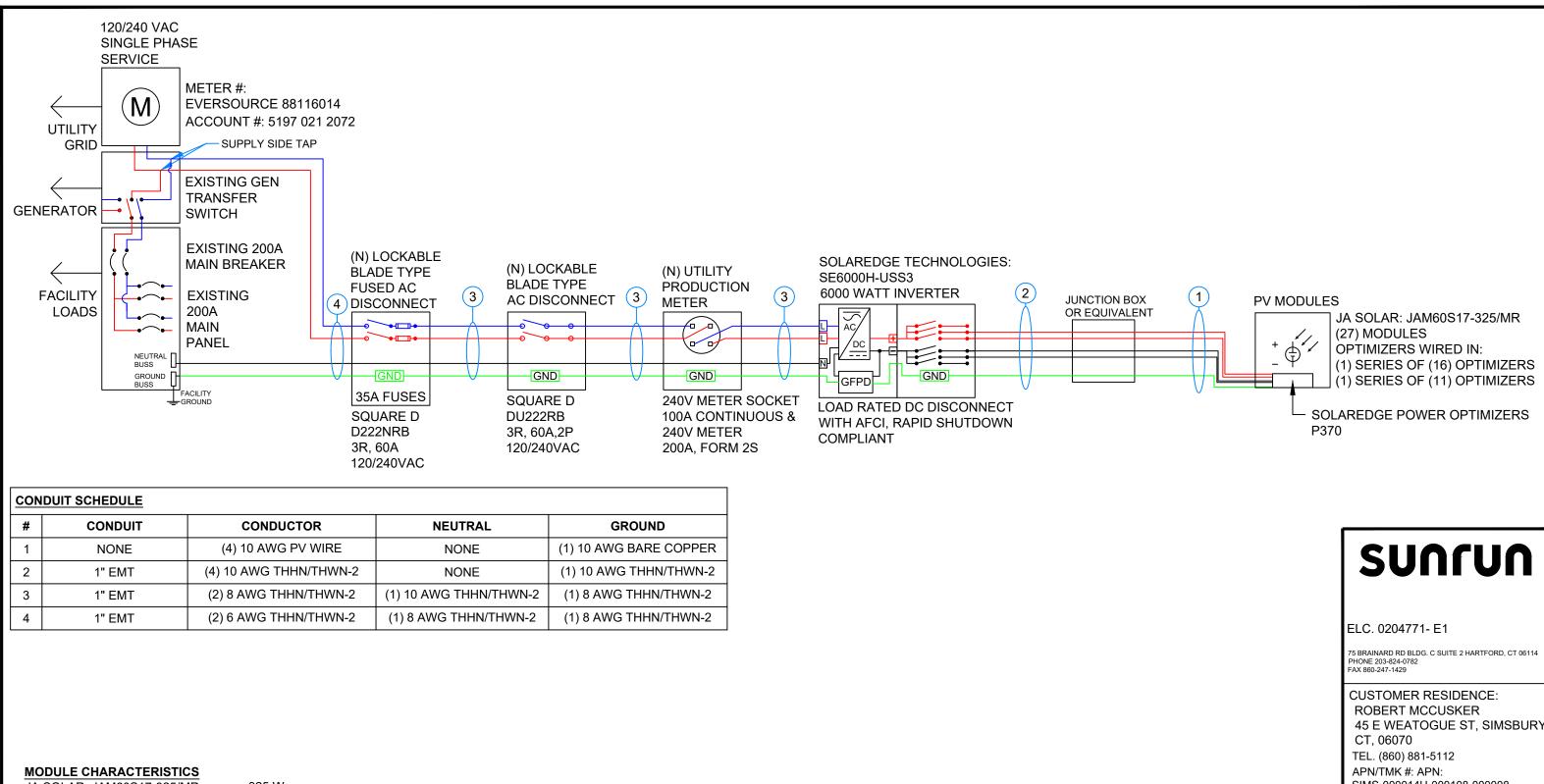
AZIM: 280°



			DESIGN CRITERIA
	/lax Portrait Overhang	Configuration	MAX DISTRIBUTED LOAD: 3 PSF SNOW LOAD: 35 PSF
·9			WIND SPEED:
	2' - 0"	STAGGERED	120 MPH 3-SEC GUST. <u>S.S.LAG SCREWS:</u>
	2' - 0"	STAGGERED	5/16"x4.5": 2.5" MIN EMBEDMENT STRUCTURAL NOTES:
	2' - 0"	STAGGERED	INSTALLERS SHALL NOTIFY ENGINEER OF ANY
			 POTENTIAL STRUCTURAL ISSUES OBSERVED PRIOR TO PROCEEDING W/ INSTALLATION. IF ARRAY (EXCLUDING SKIRT) IS WITHIN 12" BOUNDARY REGION OF ANY ROOF PLANE EDGES (EXCEPT VALLEYS), THEN ATTACHMENTS NEED TO BE ADDED AND OVERHANG REDUCED WITHIN THE 12" BOUNDARY REGION ONLY AS FOLLOWS: ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS TO BE REDUCED BY 50% ALLOWABLE OVERHANG INDICATED ON PLANS TO BE 1/5TH OF ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS
			SUNCUN
			ELC. 0204771- E1 75 BRAINARD RD BLDG. C SUITE 2 HARTFORD, CT 06114 PHONE 203-824-0782
	NUMBER OF C		FAX 860-247-1429 CUSTOMER RESIDENCE: ROBERT MCCUSKER 45 E WEATOGUE ST, SIMSBURY, CT, 06070 TEL. (860) 881-5112 APN/TMK #: APN: SIMS-000014H-000108-000008 PROJECT NUMBER: 231R-045MCCU DESIGNER: (415) 580-6920 ex3
NWUM COUT		CUT	JOHN ESTANISLAO
	The AMA	4172	SHEET LAYOUT
	IT SSION	AL ENGINI	REV: A 12/05/2021
			PAGE PV-3.0



REVISION: 1 11/11/2019 NEW 2 7/7/2020 NU00 - - - - - - - - - - - - - - - - - - - - -			
STALLATION VIEW			nun
-ROOF DECKING		ELC. 0204771- E 75 BRAINARD RD BLDG. C PHONE 203-824-0782 FAX 860-247-1429	E1 SUITE 2 HARTFORD, CT 06114
CROOF DECKING		CUSTOMER RE ROBERT MCC 45 E WEATOG CT, 06070 TEL. (860) 881-57 APN/TMK #: APN SIMS-000014H-00	USKER SUE ST, SIMSBURY, 112
		PROJECT NUM 231R-045MCC	BER:
		DESIGNER: JOHN ESTANI	(415) 580-6920 ex3 SLAO
		SHEET MOUNTI	NG DETAIL
JNT	REV: 1	REV: A PAGE PV	12/05/2021 '-3.1



JA SOLAR: JAM60S17-325/MR:	325 W
OPEN CIRCUIT VOLTAGE:	40.87 V
MAX POWER VOLTAGE:	33.97 V
SHORT CIRCUIT CURRENT:	10.23 A

SYSTEM CHARACTERISTICS - INVERTER 1

P370 OPTIMIZER CHARACTERISTICS:
MIN INPUT VOLTAGE: 8 VDC
MAX INPUT VOLTAGE: 60 VDC
MAX INPUT ISC: 11 ADC
MAX OUTPUT CURRENT: 15 ADC

0----

45 E WEATOGUE ST, SIMSBURY, SIMS-000014H-000108-000008

PROJECT NUMBER: 231R-045MCCU

(415) 580-6920 ex3 DESIGNER: JOHN ESTANISLAO

SHEET

ELECTRICAL

REV: A PAGE

12/05/2021

PV-4.0

WARNING

ELECTRICAL SHOCK HAZARD

TERMINALS ON LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:

INVERTER(S), AC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE). PER CODE(S): CEC 2019: 690.13(B), NEC 2017: 690.13(B)



POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION: ADJACENT TO PV BREAKER (IF APPLICABLE). PER CODE(S): CEC 2019: 705.12(B)(2)(3)(b), NEC 2017: 705.12(B)(2)(3)(b)

WARNING

PHOTOVOLTAIC SYSTEM **COMBINER PANEL**

DO NOT ADD LOADS

LABEL LOCATION: PHOTOVOLTAIC AC COMBINER (IF APPLICABLE). PER CODE(S): CEC 2019: 705.12(B)(2)(3)(c) NEC 2017: 705.12(B)(2)(3)(c)



AND PV SOLAR ELECTRIC

SYSTEM

LABEL LOCATION: UTILITY SERVICE METER AND MAIN SERVICE PANEL PER CODE(S): CEC 2019: 705.12(B)(3), NEC 2017: 705.12(B)(3)

3"

PHOTOVOLTAIC DC DISCONNECT

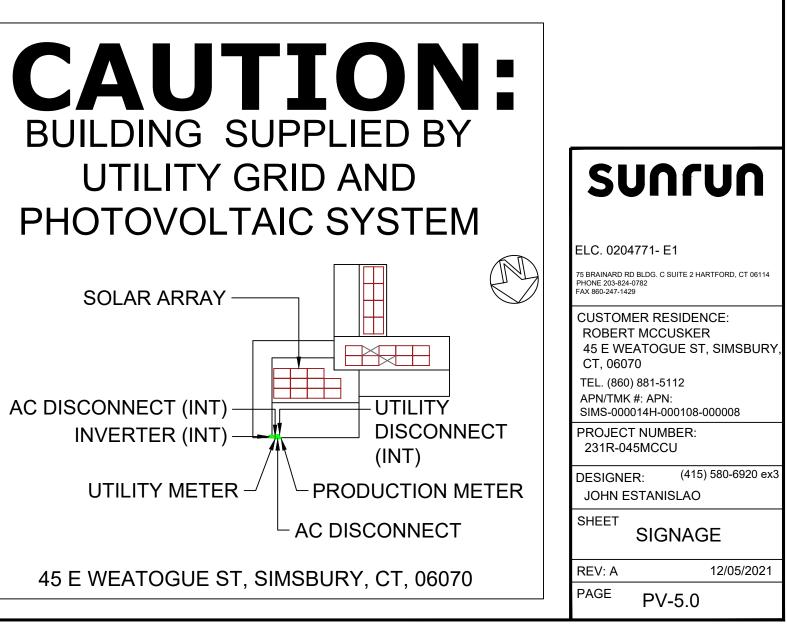
MAXIMUM SYSTEM VOLTAGE: 480 VDC MAXIMUM CIRCUIT CURRENT: 30 ADC MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED): 15 ADC

LABEL LOCATION: INVERTER(S), DC DISCONNECT(S). PER CODE(S): NEC 2017: 690.53

INVERTER 1



INVOLVED.



RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION:

INSTALLED WITHIN 3' OF RAPID SHUT DOWN SWITCH PER CODE(S): CEC 2019: 690.56(C)(3), NEC 2017: 690.56(C)(3), IFC 2012: 605.11.1, IFC 2018: 1204.5.3. CFC 2019: 1204.5.3

WARNING: PHOTOVOLTAIC **POWER SOURCE**

LABEL LOCATION:

INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT, AT EACH TURN, ABOVE AND BELOW PENETRATIONS. ON EVERY JB/PULL BOX CONTAINING DC CIRCUITS. PER CODE(S): CEC 2019: 690.31(G)(3), 690.31(G)(4), NEC 2017: 690.31(G)(3), 690.31(G)(4) IFC 2012: 605.11.1.4

PHOTOVOLTAIC AC DISCONNECT

MAXIMUM AC OPERATING CURRENT: 25.00 AMPS NOMINAL OPERATING AC VOLTAGE: 240 VAC

LABEL LOCATION:

AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION. PER CODE(S): CEC 2019: 690.54, NEC 2017: 690.54

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

OLAR ELECTRI PV PANELS

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" **POSITION TO SHUT DOWN PV SYSTEM AND REDUCE** SHOCK HAZARD IN THE ARRAY.

LABEL LOCATION: ON OR NO MORE THAT 1 M (3 FT) FROM THE SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED. PER CODE(S): CEC 2019: 690.56(C)(1)(a), NEC 2017: 690.56(C)(1)(a)

NOTES AND SPECIFICATIONS:

• SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE NEC 2017 ARTICLE 110.21(B), UNLESS SPECIFIC INSTRUCTIONS ARE REQUIRED BY SECTION 690, OR IF REQUESTED BY THE LOCAL AHJ.

• SIGNS AND LABELS SHALL ADEQUATELY WARN OF HAZARDS USING EFFECTIVE WORDS, COLORS AND SYMBOLS.

• LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN.

• LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT

• SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS. UNLESS OTHERWISE SPECIFIED. • DO NOT COVER EXISTING MANUFACTURER LABELS.