

SHEET INDEX	
PAGE #	DESCRIPTION
PV-1.0	COVER SHEET
PV-2.0	SITE PLAN
PV-3.0	LAYOUT
PV-3.1	MOUNTING DETAIL
PV-4.0	ELECTRICAL
PV-4.1	ELECTRICAL CALCS
PV-5.0	SIGNAGE

SCOPE OF WORK

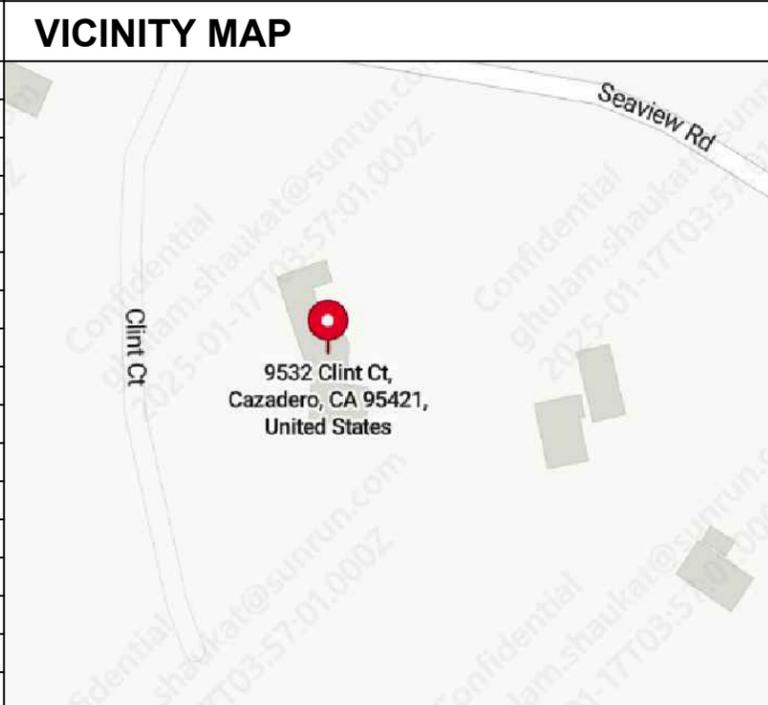
- SYSTEM SIZE: 6.32KW DC, 11.5KW AC
- MODULES: (16) TRINA SOLAR: TSM-395DE09C.07
- INVERTERS: (1) TESLA: POWERWALL 3 1707000-XX-Y
- STANDARD SCOPE NOTES:
- RAPID SHUTDOWN: (6) TESLA MID CIRCUIT INTERRUPTER (MCI) ROOFTOP MODULE LEVEL RAPID SHUTDOWN DEVICE
- ENERGY STORAGE SYSTEM: (1) TESLA: POWERWALL 3 1707000-XX-Y, 13.5KWH, 5KW INVERTER OUTPUT, LITHIUM-ION BATTERY (WEIGHT: 287LB EACH)
- RACKING: ULTRA RAIL, ATTACHMENT DETAIL, UMBRELLA L FOOT TO FRAMING, SNR-DC-00339
- BACKUP GATEWAY: (1) 200A TESLA POWERWALL CONTROL PANEL

GENERAL NOTES

- ALL WORK SHALL GENERALLY CONFORM WITH 2022 CRC/CBC/CEBC, MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS.
- PHOTOVOLTAIC SYSTEM WILL COMPLY WITH CEC 2022.
- ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH CEC 2022.
- PHOTOVOLTAIC SYSTEM IS FUNCTIONALLY GROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.41(A).
- MODULES CONFORM TO AND ARE LISTED UNDER UL 61730.
- INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.
- RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
- SNAPRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED.
- RAPID SHUTDOWN SYSTEM IN COMPLIANCE WITH CEC 2022 690.12(B)(1) WHERE CONDUCTORS OUTSIDE OF THE ARRAY ARE LIMITED TO LESS THAN 30V IN 30 SECONDS AND CEC 2022 690.12(B)(2)(2) WHERE CONDUCTORS INSIDE THE ARRAY BOUNDARY IS LIMITED TO LESS THAN 80V IN 30 SECONDS
- CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(D).
- ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT.
- 13.43 AMPS MODULE SHORT CIRCUIT CURRENT.
- 20.98 AMPS DERATED SHORT CIRCUIT CURRENT [690.8 (a)(1) & 690.8 (b)].
- ENERGY STORAGE SYSTEM CONFORMS TO AND IS LISTED UNDER UL 9540.
- ENERGY STORAGE SYSTEM LIVE PARTS ARE NOT ACCESSIBLE DURING ROUTINE MAINTENANCE. SYSTEM VOLTAGE IN ACCORDANCE WITH CEC 706.20 AND EXCEPTION 1 CEC 706.20 (B).
- ADDITIONAL DISCONNECTING MEANS SHALL BE INSTALLED WHERE THE CIRCUITS FROM THESE TERMINALS PASS THROUGH A WALL OR PARTITION PER 706.15(D).
- LISTED, COMBINATION TYPE AFCI SHALL BE INSTALLED WHERE BACKED UP CIRCUIT WIRING IS EXTENDED MORE THAN 6FT AND DOES NOT INCLUDE ANY ADDITIONAL OUTLETS OR DEVICES PER CEC 210.12(D).
- ALL PASS-THROUGH CONDUCTORS MUST COMPLY WITH CEC 312.8
- THE CAPACITY OF THE STANDALONE SYSTEM SUPPLY SHALL BE EQUAL TO OR GREATER THAN THE LOAD POSED BY THE SINGLE LARGEST UTILIZATION EQUIPMENT CONNECTED TO THE SYSTEM PER CEC ARTICLE 710.15(A)

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFC	ARC FAULT CIRCUIT INTERRUPTER
AZIM	AZIMUTH
COMP	COMPOSITION
DC	DIRECT CURRENT
(E)	EXISTING
ESS	ENERGY STORAGE SYSTEM
MSP	MAIN SERVICE PANEL
(N)	NEW
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PV	PHOTOVOLTAIC
RSD	RAPID SHUTDOWN DEVICE
TL	TRANSFORMERLESS
V	VOLTS
W	WATTS



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PROJECT NUMBER:
 107R-532RIVE

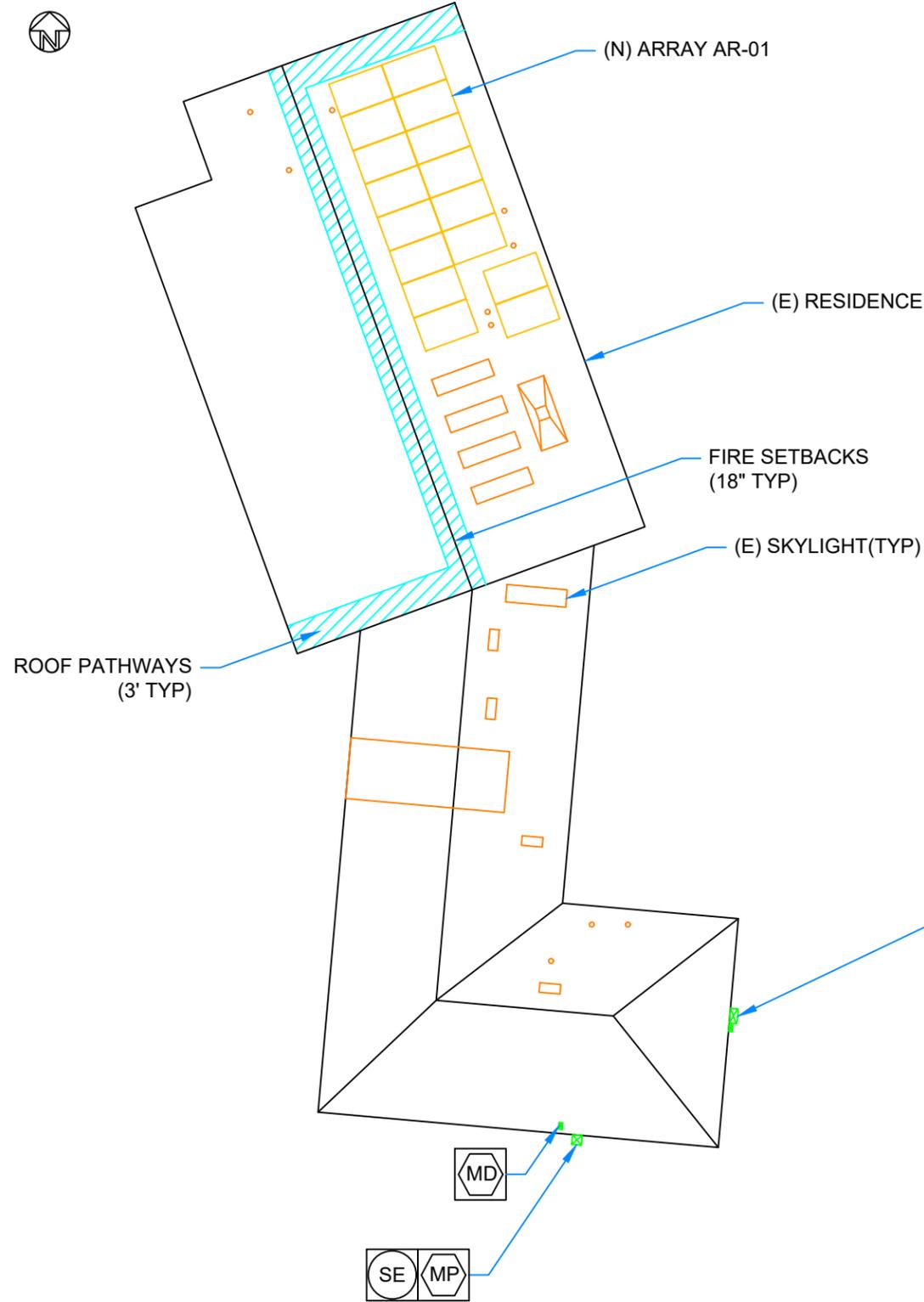
DESIGNER: (415) 580-6920 ex3
 GHULAM SHAUKAT

SHEET
COVER SHEET

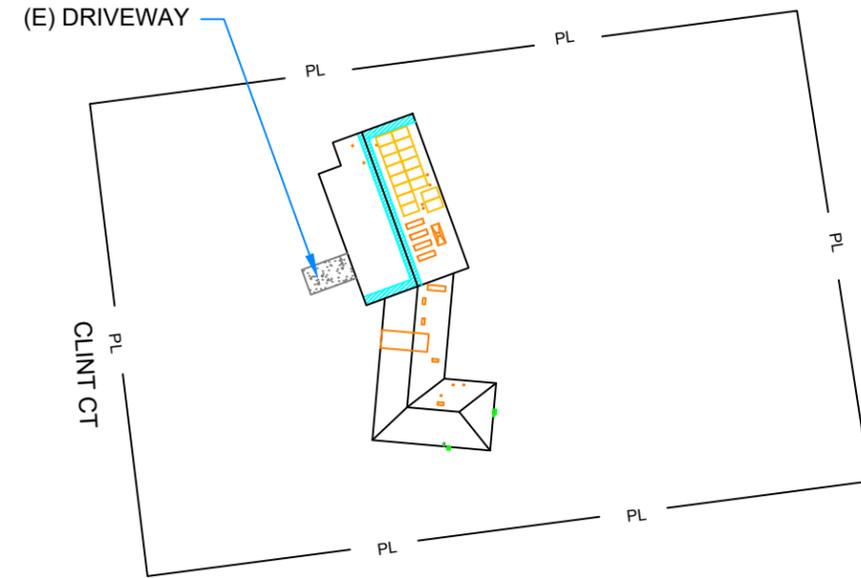
REV: A 1/17/2025
 PAGE PV-1.0

REV	NAME	DATE	COMMENTS

SITE PLAN - SCALE = 1/16" = 1'-0"



SITE PLAN DETAIL - SCALE = 1/64" = 1'-0"



	ARRAY PITCH	TRUE AZIM	MAG AZIM	PV AREA (SQFT)
AR-01	19°	70°	56°	269.02

NOTES:
NO GATES OR FENCES PRESENT ON SITE

NOTES:
• RESIDENCE DOES NOT CONTAIN ACTIVE FIRE SPRINKLERS.

ARRAY DETAILS:
• TOTAL ROOF SURFACE AREA: 3378 SQFT.
• TOTAL PV ARRAY AREA: 269.0 SQ FT.
• PERCENTAGE PV COVERAGE:
(TOTAL PV ARRAY AREA/TOTAL ROOF SURFACE AREA) * 100 = 8.0%

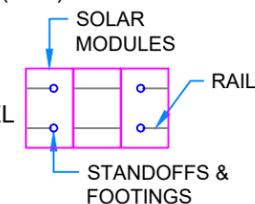
ESS SHALL BE INSTALLED IN COMPLIANCE WITH 328.4
ESS INSTALLED ON THE EXTERIOR OF A DWELLING UNIT SHALL NOT BE INSTALLED LESS THAN THREE (3) FEET FROM DOORS AND WINDOWS DIRECTLY ENTERING THE DWELLING UNIT

NOTE: ROOFTOP MODULE LEVEL RAPID SHUTDOWN DEVICE INSTALLED PER CEC 2022 690.12

LEGEND

SCALE: NTS
NOTE: NOT ALL ITEMS IN LEGEND WILL APPEAR IN SITE PLAN

- SERVICE ENTRANCE
- SUNRUN METER
- SUB-PANEL
- AC DISCONNECT(S)
- MAIN PANEL
- DEDICATED PV METER
- INVERTER(S)
- DC DISCONNECT(S)
- PV LOAD CENTER
- SOLAREEDGE METER
- ELECTRIC VEHICLE SUPPLY EQUIPMENT
- ACREL METER
- IQ COMBINER BOX
- ENERGY STORAGE SYSTEM
- MICROGRID INTERCONNECT DEVICE
- METER ADAPTER
- BACKUP INTERFACE
- BACKUP LOADS PANEL
- EXTERNAL RAPID SHUTDOWN SWITCH
- GROUNDING ELECTRODE
- INTERIOR EQUIPMENT SHOWN AS DASHED
- COMMUNICATION WIRES
- POWERWALL ENERGY STORAGE SYSTEM (ESS)
- BACKUP GATEWAY
- GENERATION PANEL



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SHEET
SITE PLAN

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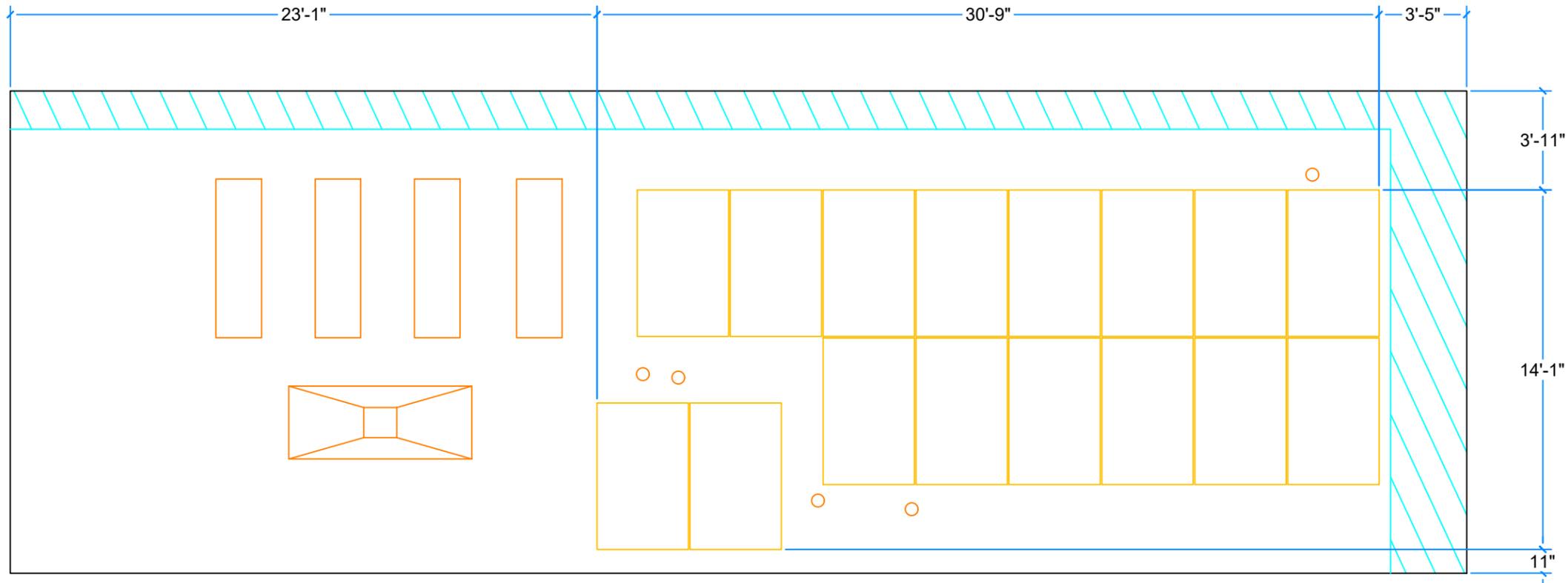
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PV-2.0

ROOF INFO			ATTACHMENT INFORMATION					
Name	Type	Height	Detail	Max Landscape OC Spacing	Max Landscape Overhang	Max Portrait OC Spacing	Max Portrait Overhang	Configuration
AR-01	COMP SHINGLE - UR - UMBRELLA L FOOT	1-Story	ULTRA RAIL, ATTACHMENT DETAIL, UMBRELLA L FOOT TO FRAMING, SNR-DC-00339	5'-4"	2'-1"	5'-4"	2'-1"	STAGGERED

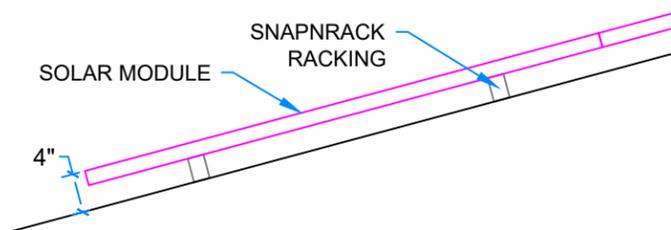
DESIGN CRITERIA

MAX DISTRIBUTED LOAD: 3 PSF
SNOW LOAD: 0 PSF
WIND SPEED: 92 MPH 3-SEC GUST.
FASTENERS: (1) 5/16" DIA S.S. UMBRELLA SCREW: 2.5" MIN EMBEDMENT INTO FRAMING

D1 - AR-01 - SCALE: 3/16" = 1'-0"
AZIM: 70°
PITCH: 19°



MODULE ELEVATION DETAIL - SCALE: NTS



STRUCTURAL NOTES:-

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.

EXISTING STRUCTURE IS ASSUMED TO BE A LIGHT-FRAME WOOD ROOF AND FREE FROM DAMAGE, DETERIORATION, OR MODIFICATION THAT WOULD COMPROMISE ITS ORIGINAL DESIGN INTEGRITY. CONTACT ENGINEER OF RECORD IF FOLLOWING MINIMUM REQUIREMENTS ARE NOT SATISFIED IN COMPLIANCE WITH THE STATED RACKING DESIGN:

- 2X WOOD FRAMING (NOMINAL)
- FRAMING SPACING AT 24" O.C. MAX
- 7/16" MIN SHEATHING (OSB/PLY)



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SHEET
 LAYOUT

REV: A 1/17/2025

PAGE PV-3.0

SNAPNRACK ULTRA RAIL UMBRELLA L FOOT WITH UMBRELLA FLASHING FOR COMPOSTION ROOF MOUNTING

BIN: 8

REVISION:			
1	5/7/2019	NEW DETAIL	MJA
1	6/18/2019	DRO-00138	MJA
B	6/22/2023	DC002707	MJA

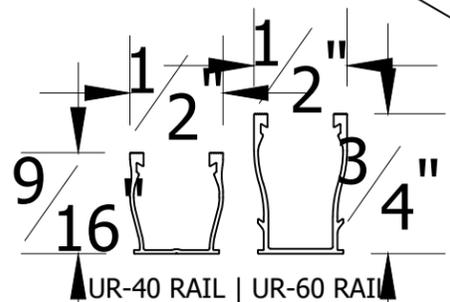
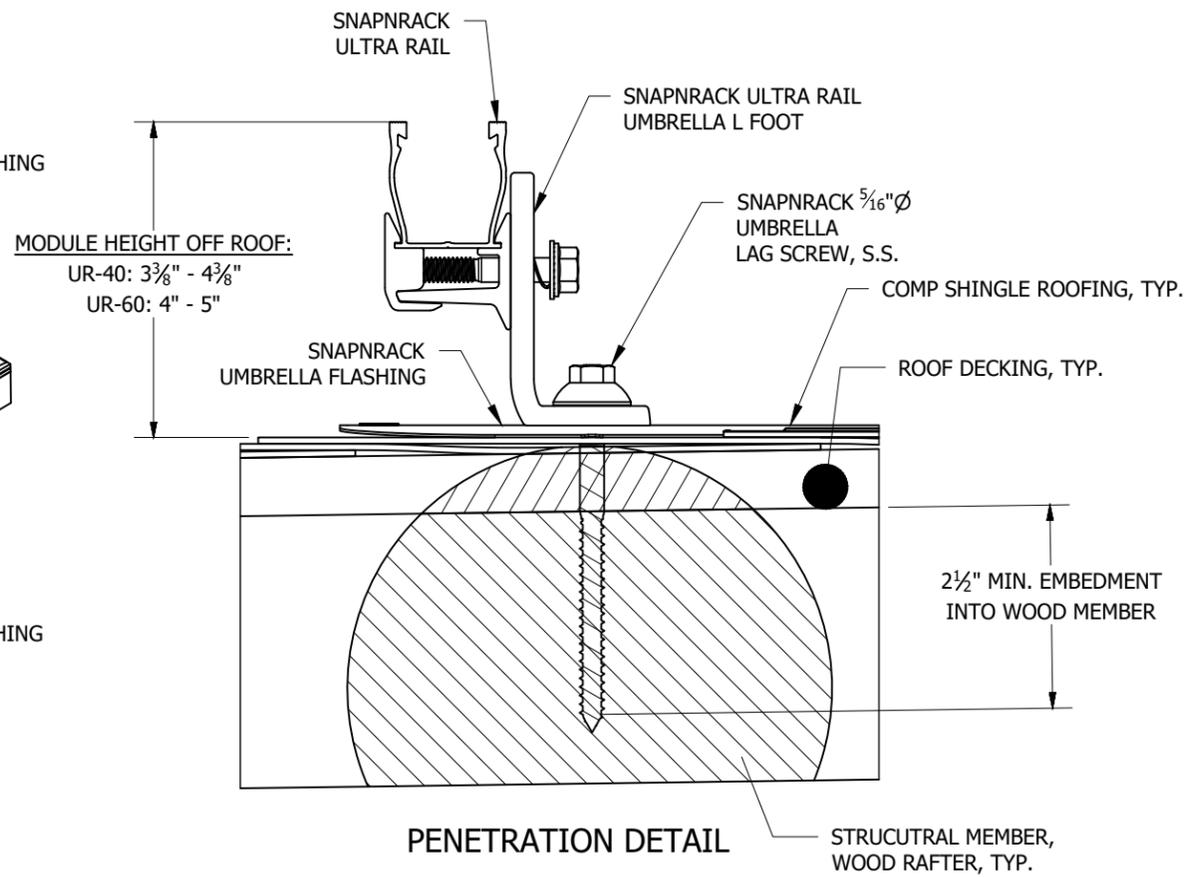
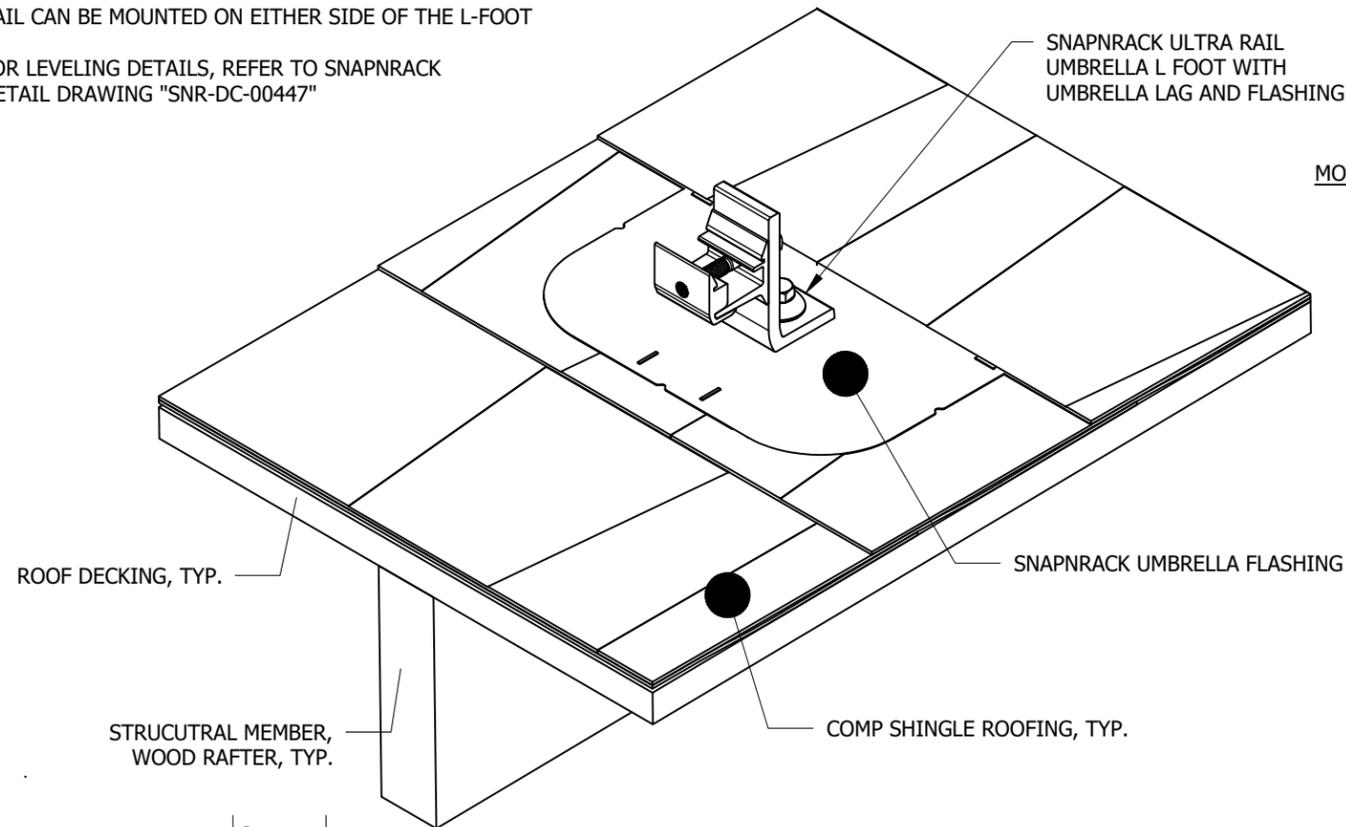
REFER TO SNAPNRACK ENGINEERING CHARTS FOR APPLICABLE RAIL SPANS. "BIN" NUMBER ON CHART SHOULD MATCH "BIN" NUMBER ON THIS DRAWING

5/16"Ø S.S. UMBRELLA LAG SCREW MUST EMBED A MIN. OF 2 1/2" INTO STRUCTURAL MEMBER TO UTILIZE STANDARD SNAPNRACK ENGINEERING. REACH OUT TO SNAPNRACK IF THIS IS NOT POSSIBLE

REFER TO SNAPNRACK INSTALLATION MANUAL FOR 5/16"Ø HARDWARE TORQUE SPECIFICATIONS

RAIL CAN BE MOUNTED ON EITHER SIDE OF THE L-FOOT

FOR LEVELING DETAILS, REFER TO SNAPNRACK DETAIL DRAWING "SNR-DC-00447"



INSTALLED SECTION VIEW

PENETRATION DETAIL

MODULE HEIGHT OFF ROOF:
UR-40: 3 3/8" - 4 3/8"
UR-60: 4" - 5"

2 1/2" MIN. EMBEDMENT INTO WOOD MEMBER



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DESIGNER: M.AFFENTRANGER
DRAFTER: M.AFFENTRANGER
APPROVED BY: E.FERGUSON

SHEET: QMS
DATE: 6/22/2023

DRAWING NUMBER:
SNR-DC-00339

DESCRIPTION:
ULTRA RAIL, ATTACHMENT DETAIL, UMBRELLA L FOOT TO RAFTER

REV:
A

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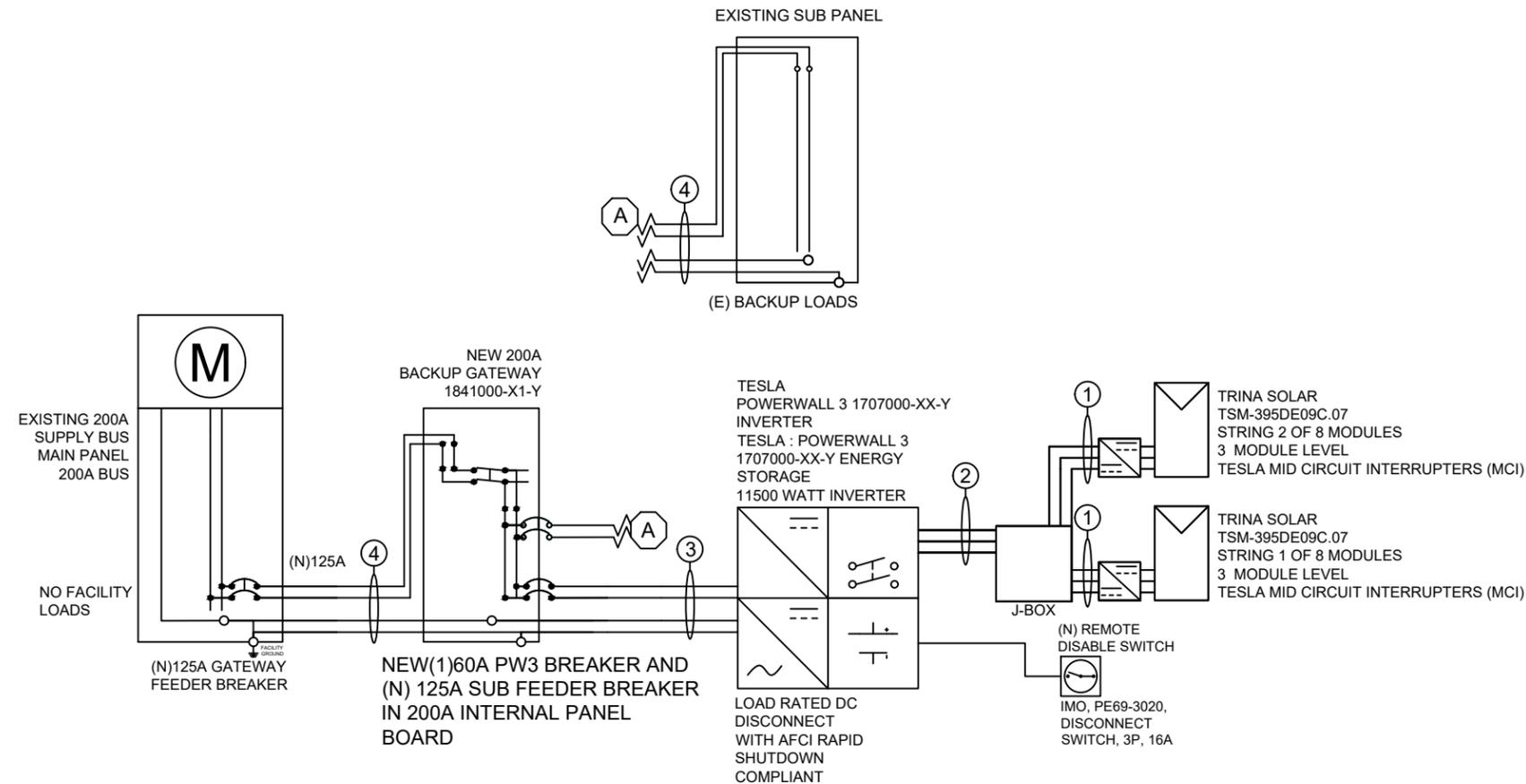
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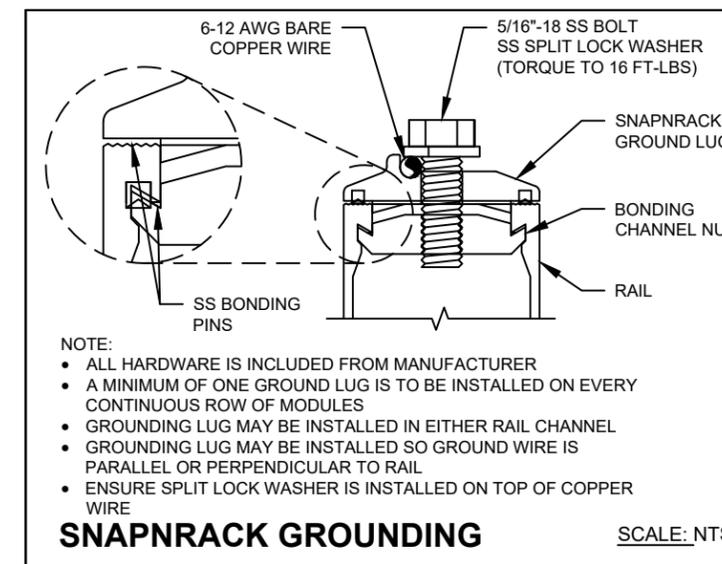
SHEET
MOUNTING DETAIL

REV: A 17-01-2025

PAGE **PV-3.1**



- POINT OF INTERCONNECTION: CEC 2022 705.13 GATEWAY FEEDER BREAKER AT OPPOSITE END OF BUSBAR
- METER NUMBER: 1010521215
- EQUIPMENT CHARACTERISTICS INCLUDED IN SPEC SHEETS
- NOTE: TOTAL GENERATION BACKFEED = 60A USED FOR INTERCONNECTION CALCULATIONS



INSTALLER MUST CHECK THE CONDITION, INSTALLABILITY AND CODE COMPLIANCE OF EXISTING EQUIPMENT.

CONDUIT SCHEDULE

TAG	CIRCUIT DESCRIPTION	CONDUCTOR	NEUTRAL	GROUND	CONDUIT
1	Inverter Input	(2) 10 AWG (PV WIRE)	N/A	6 AWG (BARE)	Open Air
2	Inverter Input	(4) 10 AWG THHN/THWN-2	N/A	10 AWG THHN/THWN-2	3/4 EMT
3	Inverter Output	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	8 AWG THHN/THWN-2	3/4 EMT
4	Gateway/Backup Feeder	(2) 1 AWG THHN/THWN-2	(1) 1 AWG THHN/THWN-2	6 AWG THHN/THWN-2	1-1/4 EMT

MODULE CHARACTERISTICS

TRINA SOLAR: TSM-395DE09C.07	395 W
OPEN CIRCUIT VOLTAGE	41 V
MAX POWER VOLTAGE	34 V
SHORT CIRCUIT CURRENT	13.43 A

SYSTEM CHARACTERISTICS - INVERTER 1

SYSTEM SIZE:	6320 W
SYSTEM OPEN CIRCUIT VOLTAGE:	351 V
MAX ALLOWABLE DC VOLTAGE:	550 V
SYSTEM SHORT CIRCUIT CURRENT:	33.57 A

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SHEET
ELECTRICAL

REV: A 1/17/2025

PAGE **PV-4.0**

ELECTRICAL CALCS

System Information

6.32 KW DC Photovoltaic System

(16) Trina Solar: TSM-395DE09C.07, Tesla: Powerwall 3 1707000-xx-y

Allowable Backfeed

Allowable Backfeed = (Main Panel Rating) = 200A

120A ≤ 200A → Interconnection meets CEC 2022 705.11(A) requirements.

Inverter Information

6320 kW DC Photovoltaic System

(16) Trina Solar: TSM-395DE09C.07, Tesla: Powerwall 3 1707000-xx-y

Inverter Overcurrent Protection

(Inverter Max Current) x (Continuous Load) =

48 A x 1.25 = 60 A → 60 A Overcurrent Protection Per Manufacturer

DC Wire Sizing

Max Circuit Current = (Module Isc) x (High Irradiance)[690.8(A)(1)] x (Continuous Load)[690.8(B)(1)] =

13.43A x 1.5625 = 20.98A

Adjusted Conductor Ampacity = (High Temp)[Table 310.15(B)(1)] x (Conduit Fill)[Table 310.15(C)(1)] x (Conductor Ampacity)[Table 310.16] =

0.91 x 0.8 x 40A = 29.12A

Terminal Rating[110.14(C)] =

10 AWG, 75°C Rated = 35A

29.12A < 35A → Terminal rating governs conductor sizing.

20.98A < 29.12A → 10 AWG Ampacity OK

Therefore 10 AWG is sufficient

AC Wire Sizing

Max AC Output Current = (Max Inverter Output) x (Continuous Load)[210.19(A)(1)] =

48 A x 1.25 = 60 A

Adjusted Conductor Ampacity = (High Temp)[Table 310.15(B)(1)] x (Conduit Fill)[Table 310.15(C)(1)] x (Conductor Ampacity)[Table 310.16] =

0.91 x 1 x 75A = 68.25A

Terminal Rating[110.14(C)] =

6 AWG, 75°C Rated = 65A

65A < 68.25A → Terminal rating governs conductor sizing.

60A < 65A → 6 AWG Ampacity OK

Therefore 6 AWG is sufficient.

System Characteristics

Max Open Circuit Voltage = {[(Temp Coef VOC) x (VOC)] / 100} x [Low Temp - STC Temp] + VOC} x (# Modules / String) =

{[(-0.28 %/°C x 37.23 V) / 100] x [-3 °C - 25 °C] + 37.23 V} x 8 = 351 V

Short Circuit Current = 1.25 x (Module Isc) x (# Strings)

1.25 x 13.43 A x 2 = 33.57A

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SHEET
ELECTRICAL CALCS

REV: A 17-01-2025

PAGE PV-4.1

WARNING
ELECTRICAL SHOCK HAZARD

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

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE).
PER CODE(S): NEC 2020: 690.13(B), CEC 2022: 690.13(B)

WARNING
THREE POWER SUPPLY

SOURCES: UTILITY GRID, BATTERY AND PV SOLAR ELECTRIC SYSTEM

LABEL LOCATION:
UTILITY SERVICE METER AND MAIN SERVICE PANEL.
PER CODE(S): NEC 2020: 705.12(C), CEC 2022: 705.12(C)

WARNING
POWER SOURCE OUTPUT CONNECTION

DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:
ADJACENT TO PV BREAKER AND ESS OCPD (IF APPLICABLE).
PER CODE(S): NEC 2020: 705.12(B)(3)(2), CEC 2022: 705.12(B)(3)(2)

WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE SHALL NOT EXCEED AMPACITY OF BUSBAR

LABEL LOCATION:
PV LOAD CENTER (IF APPLICABLE) AND ANY PANEL THAT UTILIZES "THE SUM OF BREAKERS RULE".
PER CODE(S): NEC 2020: 705.12 (B)(3)(3), CEC 2022: 705.12 (B)(3)(3)

PV SYSTEM DISCONNECT

MAXIMUM AC OPERATING CURRENT: 48 AMPS
NOMINAL OPERATING AC VOLTAGE: 240 VAC

LABEL LOCATION:
AC DISCONNECT(S), PHOTOVOLTAIC SYSTEM POINT OF INTERCONNECTION.
PER CODE(S): NEC 2020: 690.54, CEC 2022: 690.54

PHOTOVOLTAIC DC DISCONNECT

MAXIMUM SYSTEM VOLTAGE: 550 VDC

LABEL LOCATION:
INVERTER(S), DC DISCONNECT(S).
PER CODE(S): NEC 2020: 690.53, CEC 2022: 690.53

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION:
INSTALLED WITHIN 3' OF RAPID SHUT DOWN SWITCH PER CODE(S): NEC 2020: 690.56(C)(2), CEC 2022: 690.56(C)(2), IFC 2018: 1204.5.3

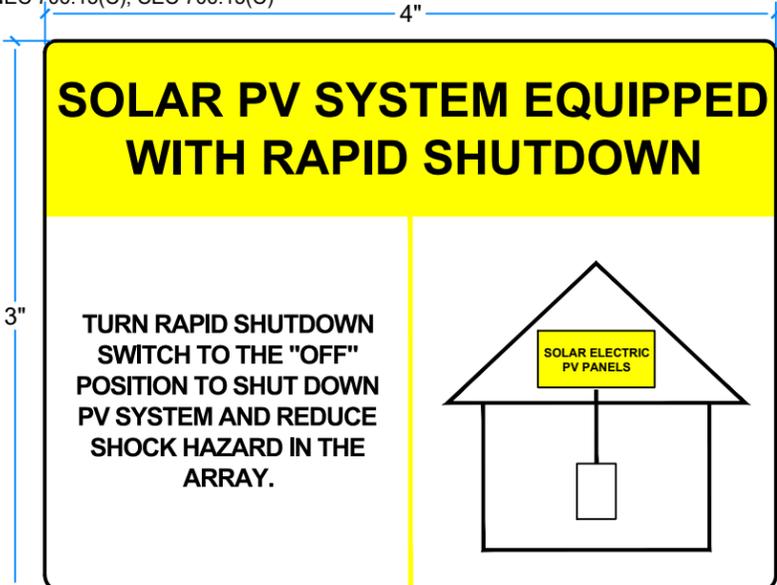
WARNING: PHOTOVOLTAIC POWER SOURCE

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): NEC 2020: 690.31(D)(2), CEC 2022: 690.31(D)(2)

ENERGY STORAGE SYSTEM DISCONNECT

NOMINAL ESS VOLTAGE: 120/240 VAC
MAXIMUM ESS DC VOLTAGE: 60 VDC

LABEL LOCATION:
ENERGY STORAGE SYSTEM
PER CODE(S): NEC 706.15(C), CEC 706.15(C)



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): NEC 2020: 690.56(C), CEC 2022: 690.56(C)

CAUTION

ENERGY STORAGE SYSTEM

PREMISES WIRING MAY REMAIN ENERGIZED AFTER LOSS OF UTILITY POWER

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE).
PER CODE(S): CEC 2022: 706.15(C), NEC 2020: 706.15(C)

CAUTION: MULTIPLE SOURCES OF POWER

9532 CLINT CT, CAZADERO, CA, 95421

PER CODE(S): NEC 2020 : 705.10, 710.10, CEC 2022: 705.10, 710.10

- NOTES AND SPECIFICATIONS:
- SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE CEC 2022 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 INVOLVED.
 - SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS, UNLESS OTHERWISE SPECIFIED.
 - DO NOT COVER EXISTING MANUFACTURER LABELS.

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PAGE
PV-5.0