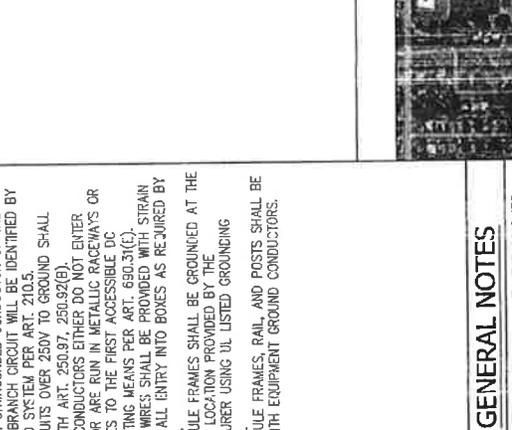
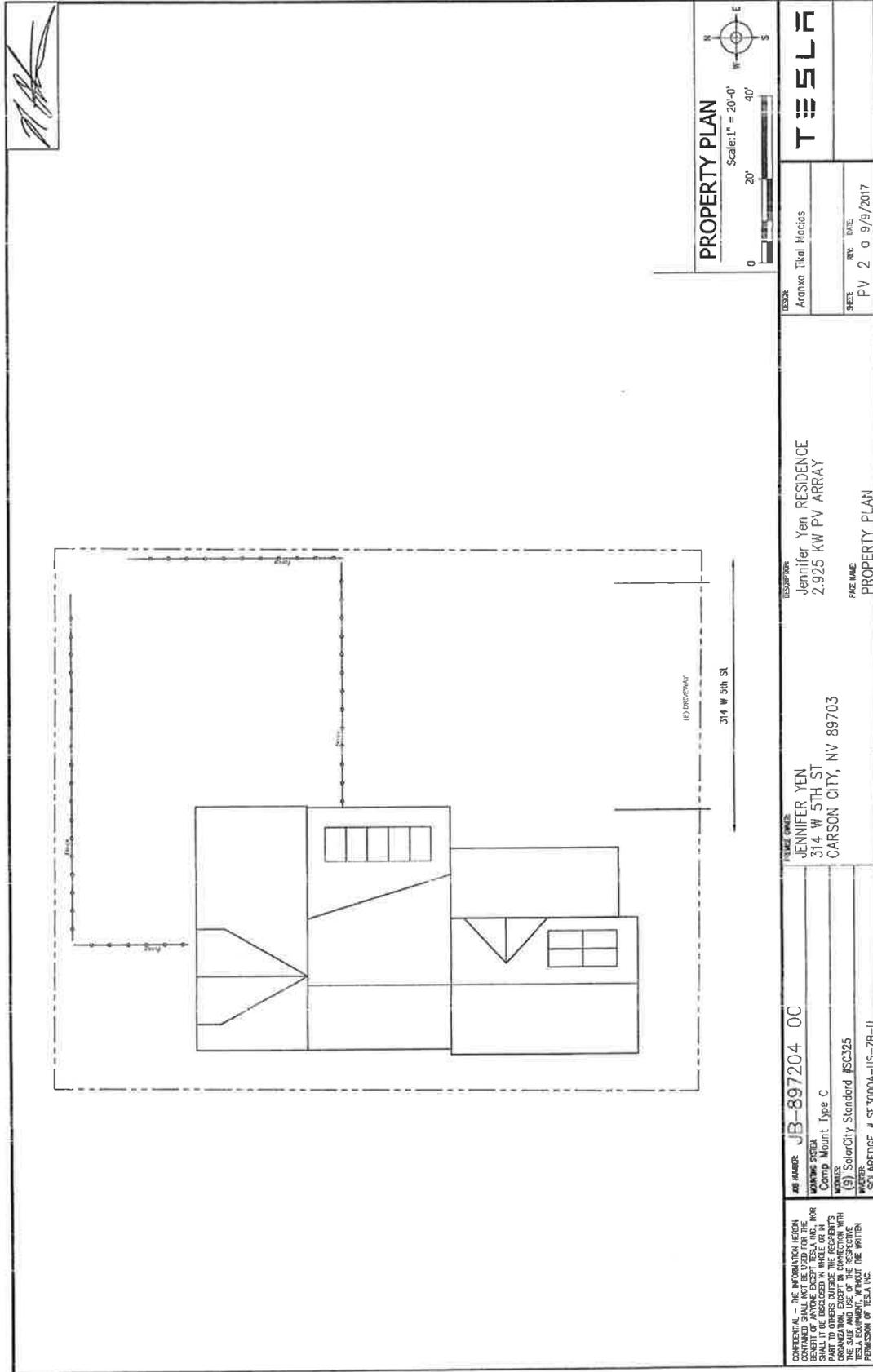


Late Info
E-1

E-1 HRC-17-163

This was an attachment to the November 9, 2017, staff report that was inadvertently not included in the March 8, 2018, staff report.

ABBREVIATIONS	ELECTRICAL NOTES	JURISDICTION NOTES																								
<p>A AMPERE AC ALTERNATING CURRENT BLDG BUILDING CONC CONCRETE DC DIRECT CURRENT EGG EQUIPMENT GROUNDING CONDUCTOR (E) EXISTING EMT ELECTRICAL METALLIC TUBING FSEB FIRE SET-BA-X GALV GALVANIZED SEC GROUNDING ELECTRODE CONDUCTOR GND GROUND HDS HOT DIPPED GALVANIZED I Imp Isc SHORT CIRCUIT CURRENT kVA KILOWATT AMPERE kW KILOWATT LEW LOAD BEARING WALL MIN MINIMUM (N) NEW NEUT NEUTRAL NYS NOT TO SCALE OC CENTER PL PROPERTY LINE PDI POINT OF INTERCONNECTION PV PHOTOVOLTAIC SCH SCHEDULE S STAINLESS STEEL STC STANDARD TESTING CONDITIONS TYP TYPICAL UPS UNINTERRUPTIBLE POWER SUPPLY V VOLT Vmp VOLTAGE AT MAX POWER Voc VOLTAGE AT OPEN CIRCUIT W WATT XR NEMA 3R, RAIN-TIGHT</p>	<p>1. THIS SYSTEM IS GROUND-INTERTRIED VIA A UL-LISTED POWER-CONDITIONING INVERTER. 2. THIS SYSTEM HAS NO BATTERIES, NO UPS. 3. A NATIONALLY-RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART. 110.3. 4. 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. 5. EACH UNGROUNDED CONDUCTOR OF THE MULTIWIRE BRANCH CIRCUIT WILL BE IDENTIFIED BY PHASE AND SYSTEM PER ART. 210.5. 6. CIRCUITS OVER 250V TO GROUND SHALL COMPLY WITH ART. 250.97, 250.92(B). 7. 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). 8. ALL WIRES SHALL BE PROVIDED WITH STRAIN RELIEF AT ALL ENTRY INTO BOXES AS REQUIRED BY UL LISTING. 9. MODULE FRAMES SHALL BE GROUNDED AT THE UL-LISTED LOCATION PROVIDED BY THE MANUFACTURER USING UL LISTED GROUNDING HARDWARE. 10. MODULE FRAMES, RAIL, AND POSTS SHALL BE BONDED WITH EQUIPMENT GROUND CONDUCTORS.</p>	<p>ELECTRICAL NOTES</p>																								
<p>LICENSE NICK ARMSTRONG NV # C078648 C-2 LICENSE </p>	<p>GENERAL NOTES</p> <p>1. ALL WORK SHALL COMPLY WITH THE 2012 IBC, 2012 IRC 2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2011 NATIONAL ELECTRIC CODE. 3. IFC 2012 Section 605</p>	<p>VICINITY MAP</p> 																								
<p>LICENSE NICK ARMSTRONG NV # C078648 C-2 LICENSE </p>	<p>INDEX</p> <p>PV1 COVER SHEET PV2 PROPERTY PLAN PV3 SITE PLAN PV4 STRUCTURAL VIEWS PV5 STRUCTURAL VIEWS PV6 UPLIFT CALCULATIONS PV7 THREE LINE DIAGRAM Outlets Attached</p>	<p>JURISDICTION NOTES</p>																								
<p>MODULE GROUNDING METHOD: ZEP SOLAR AHJ: Carson City</p> <p>UTILITY: NV Energy (Sierra Pacific Power)</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DATE</th> <th>COMMENTS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	BY	DATE	COMMENTS																	<p>COVER SHEET</p> <p>PROJECT NAME: Jennifer Yen RESIDENCE 2.925 KW PV ARRAY</p> <p>OWNER: Aronxa Tikal Macias</p> <p>DESIGNER: Google U.S. Geological Survey, USDA Farm Service Agency</p> <p>DATE: 9/19/2017</p> <p>PROJECT NO: JB-897204-0C</p> <p>CONTRACT NO: JB-897204-0C</p> <p>CONTRACT TYPE: SolarCity Standard #SC325</p> <p>PROJECT ADDRESS: 314 W 5TH ST, CARSON CITY, NV 89703</p> <p>PROJECT NO: JB-897204-0C</p> <p>PROJECT TYPE: SolarCity Standard #SC325</p> <p>PROJECT ADDRESS: 314 W 5TH ST, CARSON CITY, NV 89703</p> <p>PROJECT NO: JB-897204-0C</p> <p>PROJECT TYPE: SolarCity Standard #SC325</p> <p>PROJECT ADDRESS: 314 W 5TH ST, CARSON CITY, NV 89703</p>				
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REV	BY	DATE	COMMENTS																							



PROPERTY PLAN

Scale: 1" = 20'-0"
0 20' 40'



DESIGNER	Aranxa Tikal Macias
DATE	PV 20 9/9/2017

DESCRIPTION
 Jennifer Yen RESIDENCE
 2.925 KW PV ARRAY

FILE NAME
 PROPERTY PLAN

OWNER
 JENNIFER YEN
 314 W 5TH ST
 CARSON CITY, NV 89703

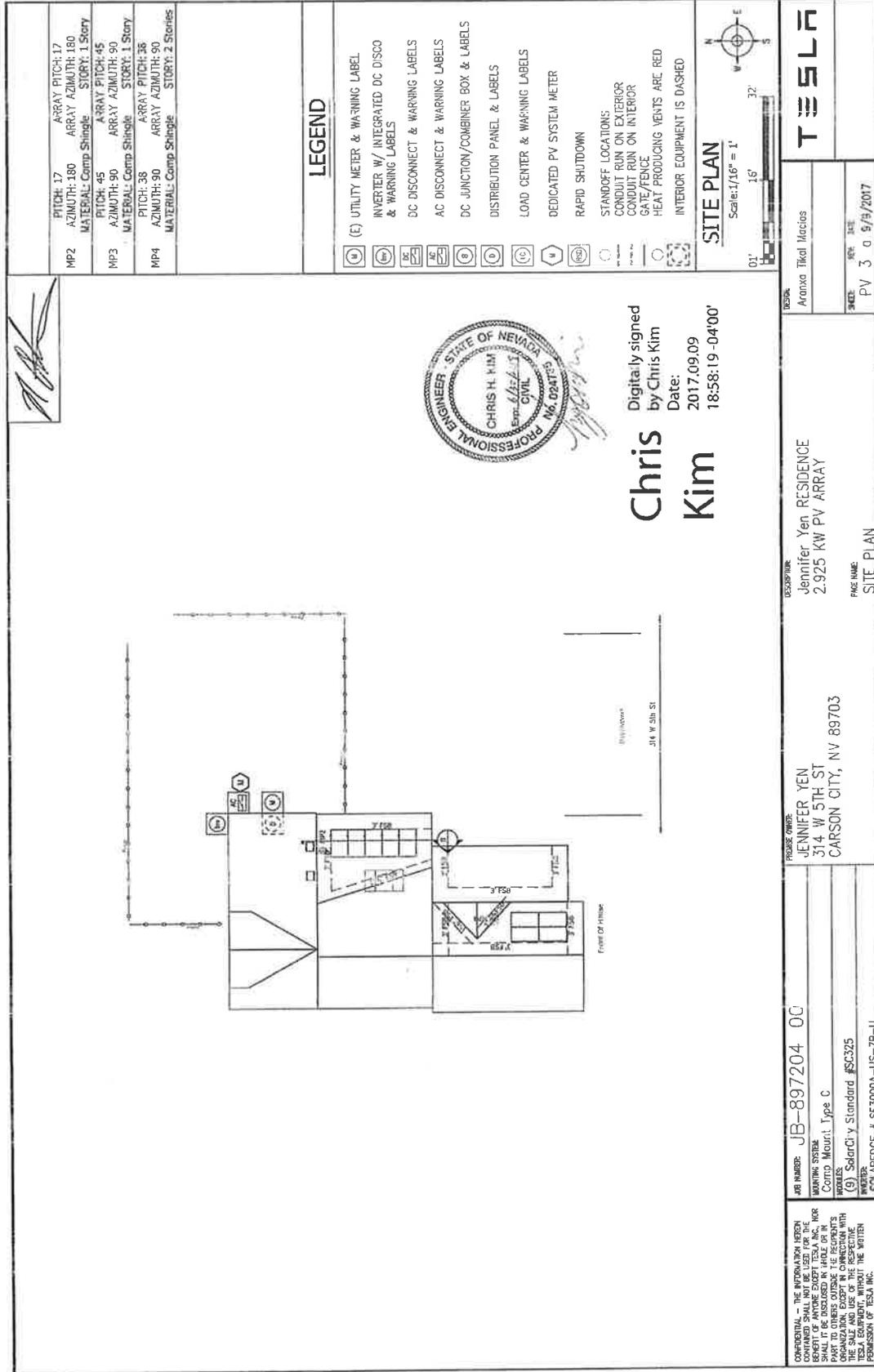
JOB NUMBER
 JB-897204 00

WORKING SYSTEM
 Comp Mount Type C

WORKS
 (3) SolarCity Standard #SC325

WORKING SYSTEM
 SOLAREDBE # SC3000A-US-ZB-U

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[Handwritten signature]

MP2	PITCH: 17 ARRAY PITCH: 17 AZIMUTH: 180 ARRAY AZIMUTH: 180 MATERIAL: Comp Shingle STORY: 1 Story
MP3	PITCH: 45 ARRAY PITCH: 45 AZIMUTH: 90 ARRAY AZIMUTH: 90 MATERIAL: Comp Shingle STORY: 1 Story
MP4	PITCH: 38 ARRAY PITCH: 38 AZIMUTH: 90 ARRAY AZIMUTH: 90 MATERIAL: Comp Shingle STORY: 2 Stories

LEGEND

- (E) UTILITY METER & WARNING LABEL
- INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- DC DISCONNECT & WARNING LABELS
- AC DISCONNECT & WARNING LABELS
- DC JUNCTION/COMBINER BOX & LABELS
- DISTRIBUTION PANEL & LABELS
- LOAD CENTER & WARNING LABELS
- DEDICATED PV SYSTEM METER
- RAPID SHUTDOWN
- STANDOFF LOCATIONS
- CONDUIT RUN ON EXTERIOR
- CONDUIT RUN ON INTERIOR
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- INTERIOR EQUIPMENT IS DASHED

SITE PLAN

Scale: 1/16" = 1'



Chris Kim
Digitally signed by Chris Kim
Date: 2017.09.09 18:58:19 -04'00'

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	<p>TESLA</p>	<p>DATE: 9/29/2017</p>

(B) SIDE VIEW OF 1/2" MP4

MP4	SPACING	WARRANTY	NOTES
72"	24"	41"	0"
48"	21"	62"	0"

RAFTERS: 2x4 @ 24" OC
ARRAY AZ: 50
PTC1: 31

1. 1/2" MP4 MUST BE USED TO SUPPORT THE RAFTERS.
2. 1/2" MP4 MUST BE USED TO SUPPORT THE RAFTERS.

(D2) 2x8 END FASTENER GROUPING

Scale: 1"=1'-0"

Labels: (E) WALL OR SUPPORT BELOW, (E) RAFTER, (E) RIDGE BOARD OR SUPPORT BELOW OR PURLIN OR MID SUPPORT, (N) SISTER MEMBER CENTERED OVER MID SUPPORT.

PROFESSIONAL ENGINEER - STATE OF NEVADA
CHRIS H. KIM
No. 024567
CIVIL

(D) SIDE VIEW OF MP4

MP4	SPACING	WARRANTY	NOTES
72"	24"	41"	0"
48"	21"	62"	0"

RAFTERS: 2x4 @ 24" OC
ARRAY AZ: 50
PTC1: 31

1. 1/2" MP4 MUST BE USED TO SUPPORT THE RAFTERS.
2. 1/2" MP4 MUST BE USED TO SUPPORT THE RAFTERS.

(U2) TOP VIEW OF PARTIAL SISTER OVER SUPPORT

Scale: 3/4"=1'-0"

(D2) 2x8 END FASTENER GROUPING

Scale: 1"=1'-0"

Labels: (E) WALL OR SUPPORT BELOW, (E) RAFTER, (E) RIDGE BOARD OR SUPPORT BELOW OR PURLIN OR MID SUPPORT, (N) SISTER MEMBER CENTERED OVER MID SUPPORT.

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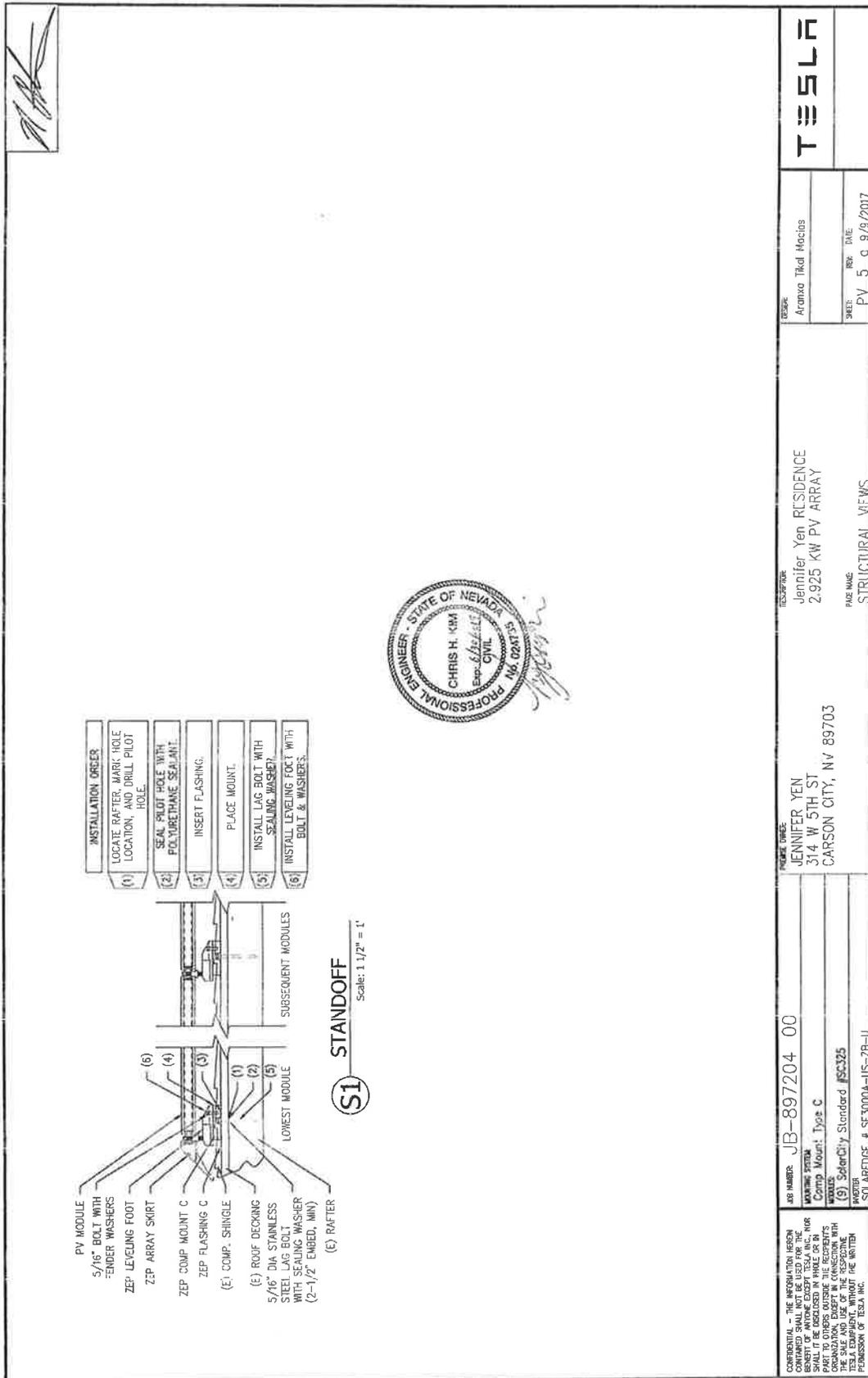
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(U2) TOP VIEW OF PARTIAL SISTER OVER SUPPORT

Scale: 3/4"=1'-0"

(D2) 2x8 END FASTENER GROUPING

Scale: 1"=1'-0"



- INSTALLATION ORDER**
- (1) LOCATE RAFTER, MARK HOLE LOCATION, AND DRILL PILOT HOLE.
 - (2) SEAL PILOT HOLE WITH POLYURETHANE SEALANT.
 - (3) INSERT FLASHING.
 - (4) PLACE MOUNT.
 - (5) INSTALL LAG BOLT WITH SEALING WASHER.
 - (6) INSTALL LEVELING FOOT WITH BOLT & WASHERS.

S1 STANDOFF
Scale: 1 1/2" = 1'



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	WORKING SYSTEM: Comp Mount Type C	MODEL: (3) SolarCity Standard #SC325	SHEET: PV 5 c 9/9/2017	
PROJECT: SOLAREDEGE # SF3000A-US-2B-U	DRAWING TITLE: STRUCTURAL VIEWS			DATE: 9/9/2017

08/29/17
Version MS6

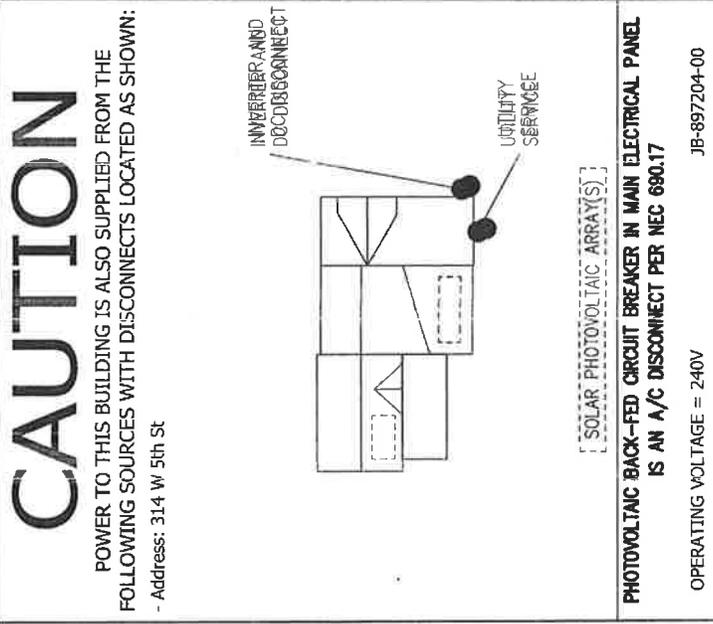
DESIGN SUMMARY

Client Code	1	ASCE 7-10
Reference Frame	V.LR	130 mph
Ultimate Wind Speed	PG	C
Exposure Category		30.0 ft-d
Ground Snow Load		

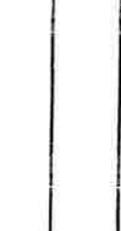
Wind Name	MP2	MP3	MP4
Rooftop	21.0 psf	21.0 psf	21.0 psf
Paradeck	21.0 psf	21.0 psf	21.0 psf
Walkway	21.0 psf	21.0 psf	21.0 psf
Deck	21.0 psf	21.0 psf	21.0 psf
Stair	21.0 psf	21.0 psf	21.0 psf
Roof	21.0 psf	21.0 psf	21.0 psf
Other	21.0 psf	21.0 psf	21.0 psf

Wind Name	MP2	MP3	MP4
Roof	21.0 psf	21.0 psf	21.0 psf
Paradeck	21.0 psf	21.0 psf	21.0 psf
Walkway	21.0 psf	21.0 psf	21.0 psf
Deck	21.0 psf	21.0 psf	21.0 psf
Stair	21.0 psf	21.0 psf	21.0 psf
Roof	21.0 psf	21.0 psf	21.0 psf
Other	21.0 psf	21.0 psf	21.0 psf

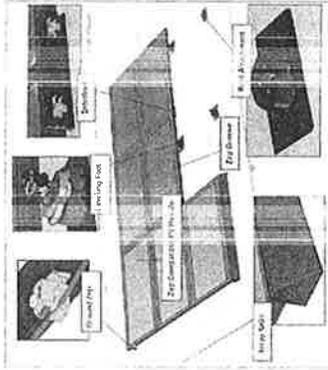
JOB NUMBER: JB-897204 00 WORKING TITLE: Comp Mount, Type C (9) SolarCity Standard #SC325 SOLARREDGE #SS3000A-US-ZB-U	PROJECT OWNER: JENNIFER YEN 314 W 5TH ST CARSON CITY, NV 89703	DESIGNER: Jennifer Yen RESIDENCE 2.925 KW PV ARRAY	DESIGNER: Aranka Tikal Macias
DATE: 9/29/2017		SHEET: PV 6 c 9/9/2017	
UP-LIFT CALCULATIONS			



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<p>ISSUE SOURCE: Contd. Model Type C</p> <p>REVISION: (9) SolarCity Standard_RSC325</p> <p>INSTRUMENT: SOLAREDDGE # SE3000A-US-ZB-U</p>	<p>DESCRIPTION: Jennifer Yen RESIDENCE 2,925 KW PV ARRAY</p>	<p>DATE: PV 8 a 9/9/2017</p>	<p>PROJECT ADDRESS: 314 W 5TH ST CARSON CITY, NV 89703</p>	<p>FACE NAME: SITE PLAN PLACARD</p>
<p>TESLA</p>				

 <p>PHOTOVOLTAIC DC DISCONNECT</p>	 <p>WARNING ELECTRIC SHOCK HAZARD THIS IS A LIVE PART OF THE SYSTEM. DO NOT TOUCH. TERMINALS ON BOTH ENDS OF THIS CABLE MAY BE ENERGIZED IN THE OPEN POSITION.</p>	 <p>WARNING ELECTRIC SHOCK HAZARD THIS IS A LIVE PART OF THE SYSTEM. DO NOT TOUCH. TERMINALS ON BOTH ENDS OF THIS CABLE MAY BE ENERGIZED IN THE OPEN POSITION.</p>	 <p>PHOTOVOLTAIC DC DISCONNECT</p>	<p>Label Location: (DC) (INV) Per Code: NEC 690.14.C.2</p>	 <p>MAXIMUM OVERCURRENT PROTECTION POINT VOLTAGE (V) MAXIMUM SYSTEM VOLTAGE (V) SHORT-CIRCUIT CURRENT (A)</p>	 <p>PHOTOVOLTAIC DC DISCONNECT</p>	 <p>PHOTOVOLTAIC DC DISCONNECT</p>	<p>Label Location: (DC) (INV) Per Code: NEC 690.35(F) TO BE USED WHEN INVERTER IS UNGROUNDED</p>	 <p>WARNING ELECTRIC SHOCK HAZARD IF A GROUND FAULT IS INDICATED BY A RED LIGHT, THE SYSTEM MUST BE DEENERGIZED IMMEDIATELY AND RE-EVALUATED.</p>	 <p>PHOTOVOLTAIC DC DISCONNECT</p>	 <p>PHOTOVOLTAIC DC DISCONNECT</p>	<p>Label Location: (DC) (INV) Per Code: NEC 690.5(C)</p>	 <p>WARNING ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS OR TERMINALS ON BOTH ENDS OF THIS CABLE. THIS CABLE MAY BE ENERGIZED IN THE OPEN POSITION. ALWAYS PREVENT OTHER SOLAR MODULES FROM EXPOSURE TO SUNLIGHT.</p>	 <p>PHOTOVOLTAIC DC DISCONNECT</p>	 <p>PHOTOVOLTAIC DC DISCONNECT</p>	<p>Label Location: (DC) (CB) Per Code: NEC 690.17(4)</p>	 <p>PHOTOVOLTAIC AC DISCONNECT</p>	 <p>PHOTOVOLTAIC AC DISCONNECT</p>	 <p>PHOTOVOLTAIC AC DISCONNECT</p>	<p>Label Location: (AC) (POI) Per Code: NEC 690.14.C.2</p>	 <p>MAXIMUM AC OVERCURRENT PROTECTION POINT VOLTAGE (V) MAXIMUM SYSTEM VOLTAGE (V) OPERATING VOLTAGE (V)</p>	 <p>PHOTOVOLTAIC AC DISCONNECT</p>	 <p>PHOTOVOLTAIC AC DISCONNECT</p>	<p>Label Location: (AC) (POI) Per Code: NEC 690.64 B.7</p>	<p>Label Set</p>
											<p>Label Location: (DC) (INV) Per Code: NEC 690.35(F) TO BE USED WHEN INVERTER IS UNGROUNDED</p>	<p>Label Location: (C) Per Code: 2012 IFC NEC 690.31.G.3</p>												<p>(AC): AC Disconnect (C): Conduit (CB): Combiner Box (D): Distribution Panel (DC): DC Disconnect (IC): Inverter Run Conduit (INV): Inverter With Integrated DC Disconnect (LC): Load Center (M): Utility Meter (POI): Point of Interconnection</p>	

Zep System
for composition single roofs



Description

- Designed for pitched roofs
- Installs in **portrait and landscape orientations**
- Zep System supports module wind uplift and snow load pressures to 50 psf per UL 1703
- Wind tunnel report to ASCE 7-05 and 7-10 standards
- Zep System grounding provisions are UL listed to UL 2773 and UL 467
- Zep System mounting provisions are UL listed to UL 2773 and UL 467
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- Zep System mounting provisions are UL listed to UL 2773 and UL 467
- Zep System mounting provisions are UL listed to UL 2773 and UL 467
- Attachment method UL listed to UL 2582 for Wind E-Return Roofs

Specifications

- Designed for pitched roofs
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- Attachment method UL listed to UL 2582 for Wind E-Return Roofs

zepsolar.com

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Components

<p>Leveling Foot Part No. 850-1172 Listed to UL 467</p> 	<p>Comp Mount Part No. 850-1511 Listed to UL 2703</p> 	<p>Interlock Part No. 850-1354 Listed to UL 2703</p> 	<p>Ground Zep V2 Part No. 850-1511 Listed to UL 467 and UL 2703</p> 	<p>DC Wire Clip Part No. 850-1448 Listed to UL 1565</p> 	<p>Array Skirt, Grip, End Caps Part No. 850-1172 Listed to UL 1565</p> 
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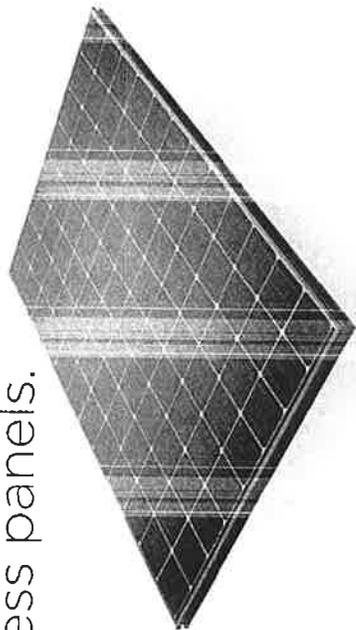
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SC325

SolarCity

More power,
less panels.



With a sunlight to electricity conversion efficiency of over 19.4% the panel ranks amongst the highest in the industry. That means our panels can harvest more energy from the sun, which means it takes fewer of our panels to power your home. Plus, they generate more power output during the hottest times of the day, even in warmer climates.

More power per panel
Our 250W panel generates 19.4% more power than a standard 210W panel.

More energy every year
Years of real-world data (compared to other panels in the field) form better for the best.

Outstanding durability
With more than 20 additional tests performed beyond what's currently mandated, there should be no worry about the panel.

More layers, more power!
Manufactured by SunPower for SolarCity, the panels use a heterojunction cell technology, which adds a layer of thin silicon on top of high efficiency, monocrystalline silicon.

Leading warranty
Our panels come with the best-in-warranty coverage, with performance that continues to grow.



ELECTRICAL AND MECHANICAL CHARACTERISTICS

ELECTRICAL DATA

Model	SC325
Power (W)	250
Voltage (V)	30.0
Current (A)	8.33
Efficiency (%)	19.4
Temperature Coefficient (1/°C)	-0.004
Temperature Coefficient (1/°F)	-0.002
Operating Temperature Range (°C)	-40 to 85
Operating Temperature Range (°F)	-40 to 185
Weight (kg)	10.5
Weight (lb)	23.1
Dimensions (mm)	1650 x 990 x 35
Dimensions (in)	65.0 x 39.0 x 1.4

TEMPERATURE CHARACTERISTICS

Temperature (°C)	25	30	35	40	45	50	55	60	65	70	75	80
Power (W)	250	245	240	235	230	225	220	215	210	205	200	195
Current (A)	8.33	8.17	8.00	7.83	7.67	7.50	7.33	7.17	7.00	6.83	6.67	6.50

AT MOST (NORMAL OPERATING CONDITIONS)

Temperature (°C)	25	30	35	40	45	50	55	60	65	70	75	80
Power (W)	250	245	240	235	230	225	220	215	210	205	200	195
Current (A)	8.33	8.17	8.00	7.83	7.67	7.50	7.33	7.17	7.00	6.83	6.67	6.50

AT LOW IRRADIANCE (20%)

Temperature (°C)	25	30	35	40	45	50	55	60	65	70	75	80
Power (W)	50	49	48	47	46	45	44	43	42	41	40	39
Current (A)	1.67	1.63	1.60	1.57	1.53	1.50	1.47	1.43	1.40	1.37	1.33	1.30

USING WARRANTY

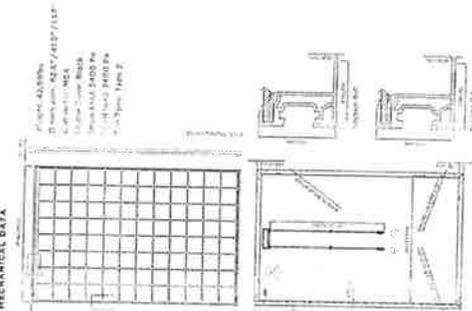
Power (W)	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200				
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

MATERIALS

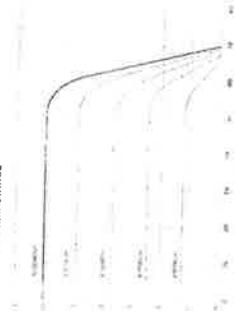
Cell	Monocrystalline Silicon
Front Glass	3.2mm tempered glass
Backsheet	Black ethylene vinyl chloride (EVA)
Frame	Black anodized aluminum
Mounting Hardware	Aluminum

CAUTION: Please read the installation manual carefully before using the product.

MECHANICAL DATA



DEPENDENCE ON IRRADIANCE



SolarCity