SHEET DESCRIPTION	SHEET
Project Notes	COVER
Site Plans and layouts	PV-1
Roof Mounting layouts	PV-2
Roof Mounting details	PV-2.1
Fire Labels & Equipment	PV-3
Plate equipment location	PV-3.1
Conduit Run & Grounding Details	PV-4
Single Line Diagram & Calculations	PV-5
Manufacture Spec. Sheets	PV-6

APPLICABLE CODES

-STANDARD BUILDING CODE 2020
-ELECTRICAL CODE , NFPA 70 / NEC 2017

Jacob S Proctor

Digitally signed by Jacob S Proctor
Date: 2022.04.21 09:37:18 -06'00'

Vector Structural Engineering has reviewed the existing structure with loading from the solar array and clamps capacity to the metal roofing. The design of the racking system, racking connections, and all other structural is by others. Mechanical, architectural, and all other nonstructural aspects of the design are by others. Electrical is by others, unless stamped by Dean Levorsen.

VECTOR ENGINEERS
651 W. GALENA PARK BLVD, STE. 101 DRAPER, UTAH 84020 PHONE (801) 990-1775 WWW.VECTORSE.COM

JACOB S. PROCTOR LICENSE No. 74277 STATE OF FLORIDA PROFESSIONAL ENGINEER

04/21/2022

VSE Project Number: U3996.0007.221

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See detail in structural letter for additional metal roof connection requirements.

GENERAL BUILDING NOTES

1. STRUCTURAL MEMBER LOCATIONS ARE ESTIMATED AND SHOULD BE LOCATED AND VERIFIED AS NECESSARY FOR LAG BOLT OR ANY OTHER TYPE OF PENETRATIONS BY CONTRACTOR.
2. SEAL CONNECTION POINTS WITH ROOF GRADE PENETRATIONS ARE SEALED WITH FLASHING *ROOF & FLASHING SEALANT*, OR ANY OTHER MEAN APPROVED BY THE ATTACHMENT MANUFACTURER.
3. PV ARRAY COMBINER/JUNCTION BOX PROVIDES TRANSITION FROM ARRAY WIRING TO CONDUIT WIRING.

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH 2012 STANDARD BUILDING CODE AND NFPA 70, 2017 EDITION, NATIONAL ELECTRICAL CODE (NEC).
2. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.
3. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26.
4. ALL EQUIPMENT INSTALLED SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER NEC ARTICLE 110.3.
5. PV POWER CIRCUIT LABELS SHALL APPEAR ON EVERY SECTION OF THE WIRING SYSTEM THAT IS SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.
6. ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21 (B). LABEL WARNINGS SHALL ADEQUATELY WARN OF THE HAZARD, LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.
7. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C) (1) AND ARTICLE 310.8 (D).
8. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.8 (C).
9. EXACT CONDUIT RUN LOCATIONS SUBJECT TO CHANGE.
10. PROVIDE GROUND ELECTRODE SYSTEM FROM INVERTER TO EXISTING MAIN SERVICE GROUND ELECTRODE.
11. GROUND ELECTRODE CONDUCTOR FROM INVERTER TO GROUND ELECTRODE TO BE MINIMUM PROTECTION OF BARE ARMOR SHEATED CABLE FOR ALL CONDUCTOR SIZES.
12. ALL GROUND CONNECTED TO MAIN SERVICE GROUND IN MAIN SERVICE PANEL.
13. INVERTER IS LISTED TO UL-1741 "UTILITY INTERACTIVE"
14. ALL CONDUCTORS SHALL BE 600V, 90°C STANDARD COPPER.
15. ALL CONDUCTORS IN CONDUIT SHALL BE THWN-2.
16. MAXIMUM DC/AC VOLTAGE DROP SHALL BE NO MORE THAN 2%
17. ALL CONDUCTORS SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED.

DESIGN DATA

WIND LOADS

1. BASIC WIND SPEED 108 MPH. (@ 3 SEC. GUST.)
2. RISK CATEGORY I
3. WIND EXPOSURE - CATEGORY C

4- "EXPOSURE C" SHALL BE ASSUMED UNLESS THE SITE MEETS THE DEFINITION OF ANOTHER TYPE EXPOSURE.

CUSTOMER INFORMATION	
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Address	382 SW Dusk Gln. Lake City, FL 32024

PROJECT INFORMATION			
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Utility Name		Meter Number	----
Wind Exposure Category	C	Wind Speed	140
Risk Category	II	North Direction	0.0°
Interconnection Voltage	240	AHJ	----

ARRAY INFORMATION			
ARRAY 1			
Module Name	Q.CELL G6+ 350W		
Inverter	SMA SB.7.7		
Tilt Angle 26°	No. of Modules 24	DC String Length 12	No. of Strings 2
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Inverter	SMA SB.7.7		
Tilt Angle 26°	No. of Modules 24	DC String Length 12	No. of Strings 2
ARRAY 3			
Module Name	----		
Inverter	----		----
Tilt Angle ----	No. of Modules ----	DC String Length ----	No. of Strings

GENERAL NOTES

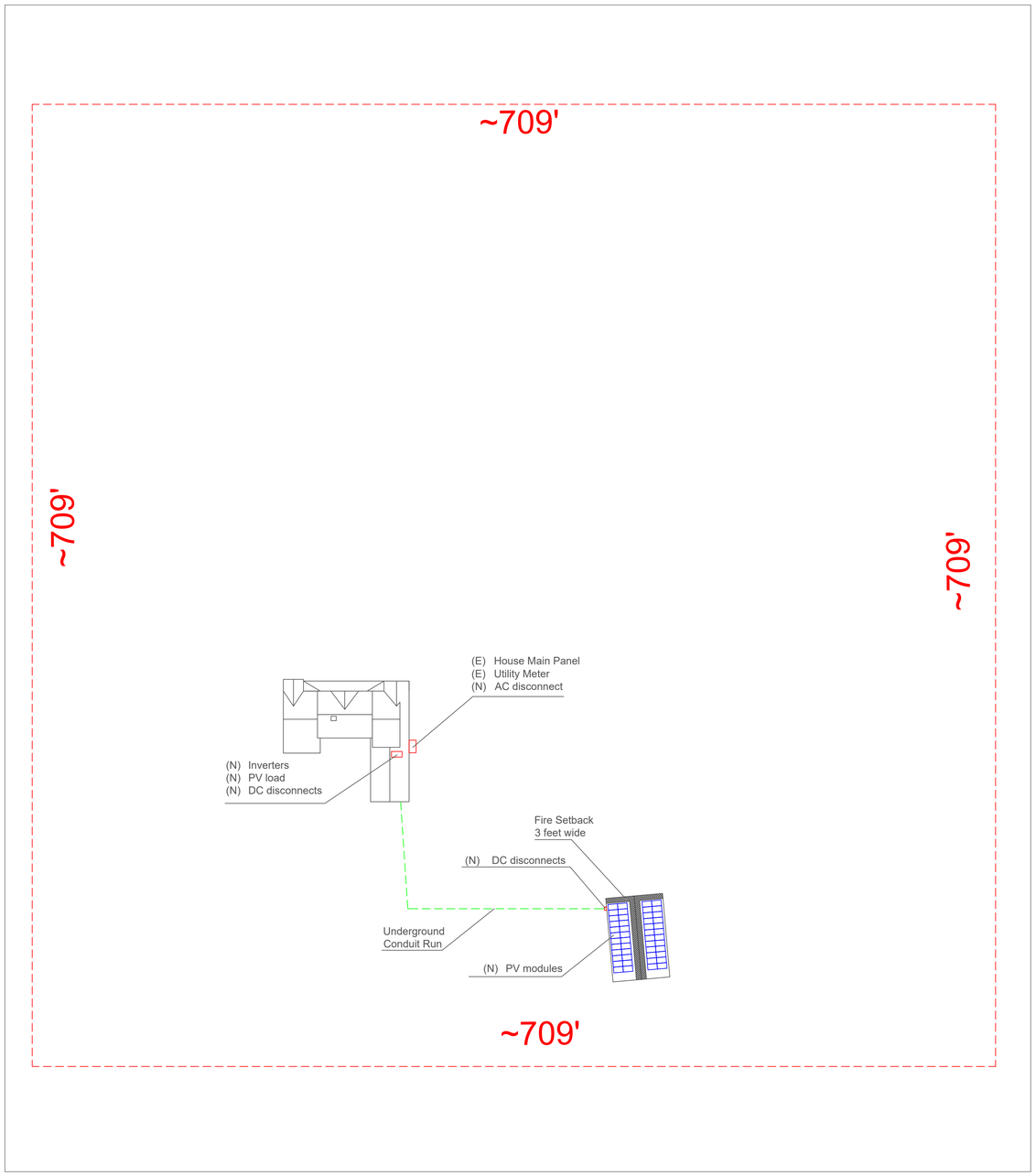
NABCEP BOARD CERTIFIED PV Installation Professional

DRAWN BY:
Baker Makarem
Credential ID PV-022018-018876

Rev	Description	Date	Draw By
1	Project Notes and information	04/05	BM

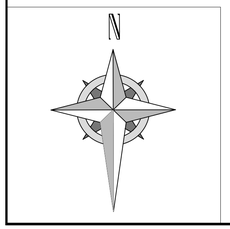
Sheet Name
Project Notes

Designed By ----	Sheets 1 of 9	Date 04/05/2022
Project number BT-2022-GA-07	COVER	



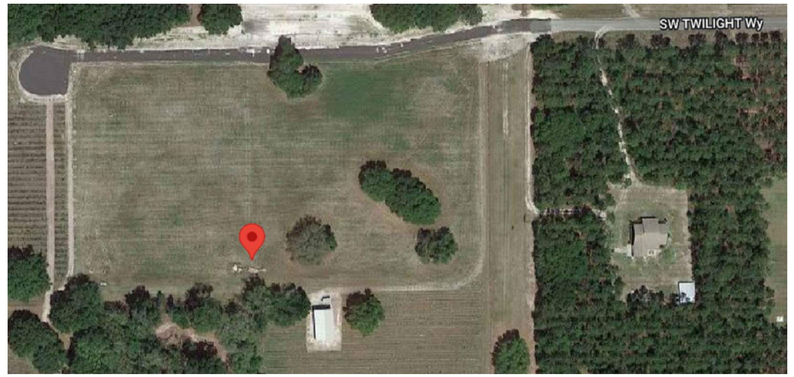
Aerial View: Equipment layout

Scale: NS



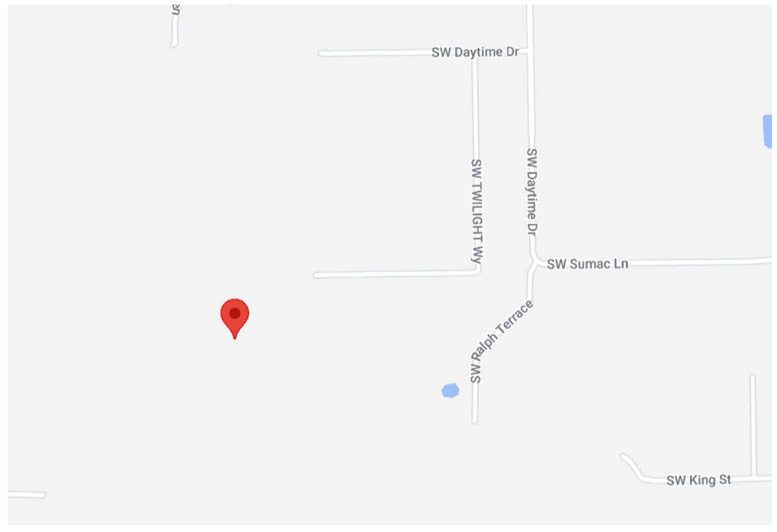
PROJECT DESCRIPTION:

48x Q.PEAK DUO G6+ (350W)
2X SMA SB7.7
SYSTEM SIZE: 16.8 KWp DC STC
Array Area: ~903 SQ FT



Aerial View: PROJECT HOUSE

Scale: NTS



VICINITY MAP

Scale: NTS

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Module Name			
Inverter			----
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GENERAL NOTES

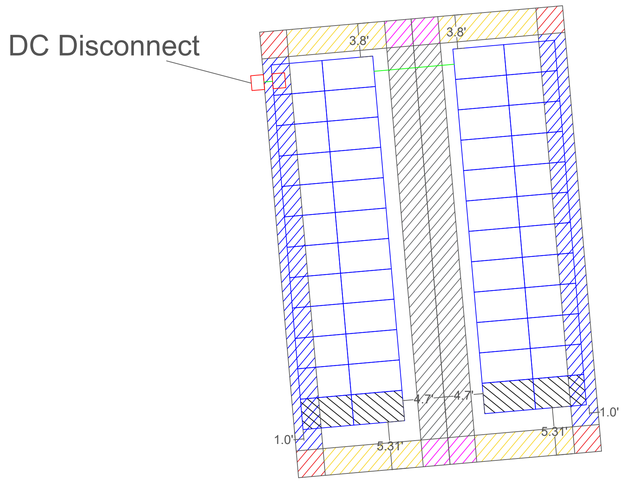
DRAWN BY
Baker Makarem
Credential ID PV-022018-018876

Rev	Description	Date	Draw By
1	Sites Plans And layouts	04/05	BM

Sheet Name

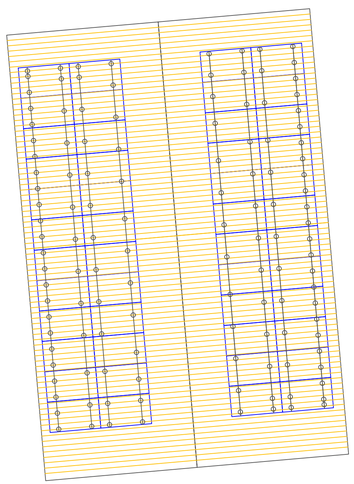
Site Plans and layouts

Designed By	Sheets	Date
----	2 of 9	04/05/2022
Project number BT-2022-GA-07	PV-01	



Aerial View: SYSTEM RAIL AND MOUNTING LAYOUT

Scale: 1-1/2'=1'-0"



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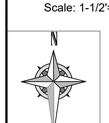
Scale: 1-1/2'=1'-0"



Rails support Deck

Rails support Rafter

Rails

Rafters / Purlins

Junction Box rated Nema 3R

$\frac{3}{4}$" Conduit

Wind Zone 2r

Wind Zone 2e

Wind Zone 3e

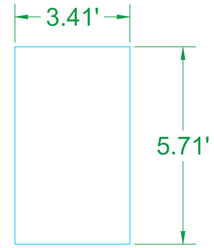
Wind Zone 3r

Wind Zone 2n

Wind Zone 1

Exposed Module

Non-Exposed Module



MANUFACTURE:Q.CELL G6+350 (350W) MODULES

ROOF	MAX VALUES	WIND ZONE 1	WIND ZONE 2e	WIND ZONE 2n
Exposed	Max spam between Attachments	3 Ft	2 Ft	N/A
	Max Cantilever	1 Ft	1 Ft	N/A
Non Exposed	Max spam between Attachments	3 Ft	4 Ft	N/A
	Max Cantilever	1 Ft	1 Ft	N/A

General Notes;

- Existing Residential building is a Metal roof, 7.2"structural box rib.
- Rafters/trusses/ribs At Roof 1 and 2 located each 7.2" inches.
- Equipments must be install as per manufacturer specifications.
- Measurements may vary from drawings. Contractor must verify on site for proper installation.
- Railing System will be SnapNRack ultraRail and S5! Protea Bracket

VECTOR engineers
651 W. GALENA PARK BLVD. STE. 101 DRAPER, UTAH 84020
PHONE (801) 990-1775
www.vectorse.com

JACOB S. PROCTOR LICENSE No. 74277 STATE OF FLORIDA PROFESSIONAL ENGINEER

04/21/2022

VSE Project Number: U3996.0007.221

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Module Name			
Inverter			----
Tilt Angle ----	No. of Modules ----	DC String Length ----	No. of Strings

GENERAL NOTES

NABCEP BOARD CERTIFIED PV Installation Professional

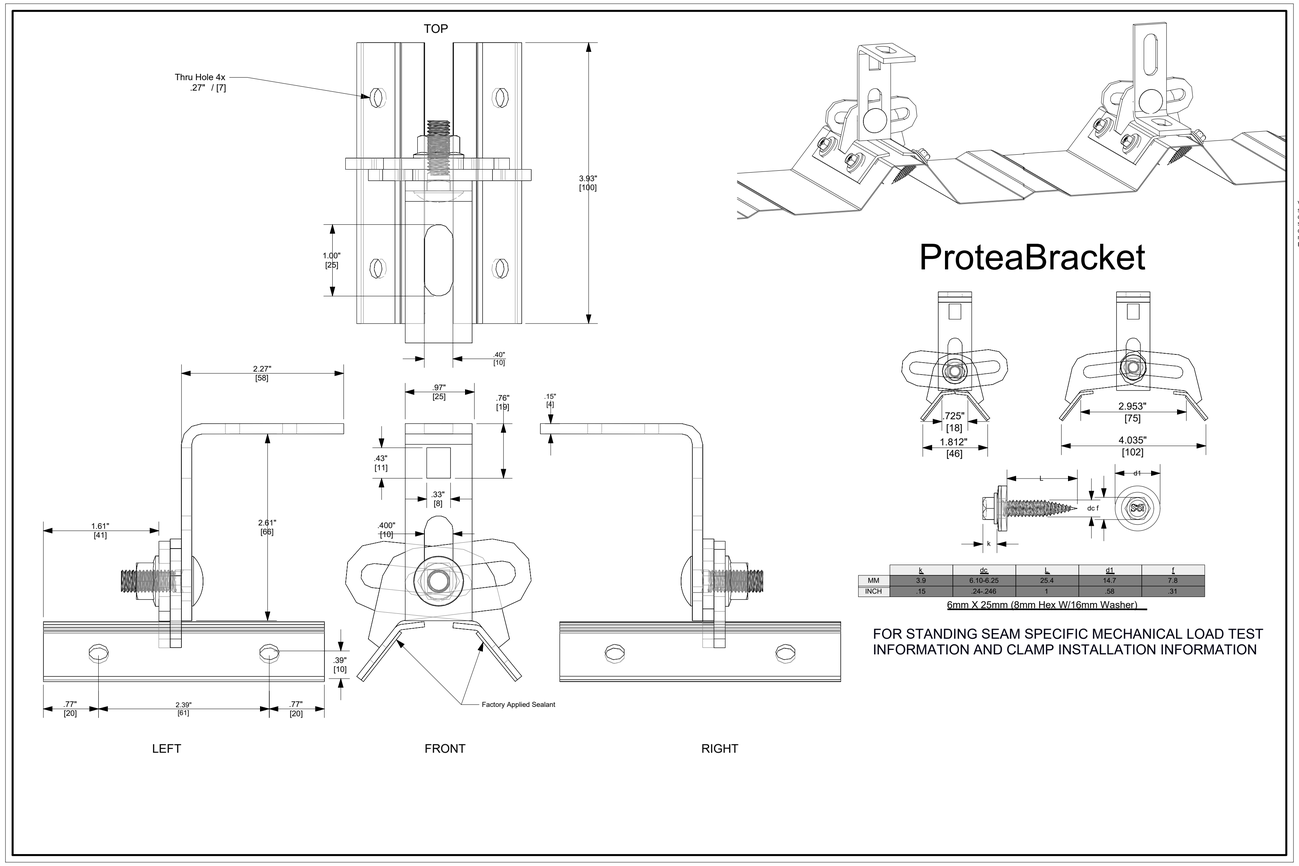
DRAWN BY
Baker Makarem
Credential ID PV-022018-018876

Rev	Description	Date	Draw By
1	Roof mounting and accesories layout	04/05	BM

Sheet Name

Roof Mounting layouts

Designed By	Sheets	Date
----	3 of 9	04/05/2022
Project number BT-2022-GA-07	PV-02	



ProteaBracket

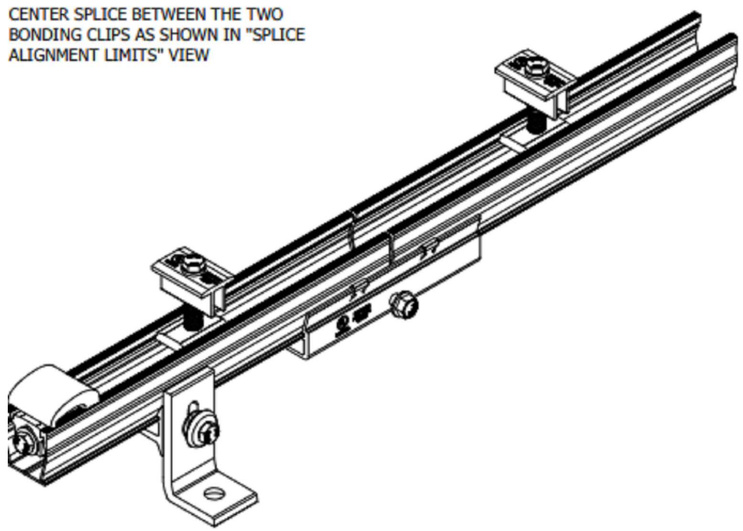
	k	dc	L	d1	t
MM	3.9	6.10-6.25	25.4	14.7	7.8
INCH	.15	.24-.246	1	.58	.31

6mm X 25mm (8mm Hex W/16mm Washer)

FOR STANDING SEAM SPECIFIC MECHANICAL LOAD TEST INFORMATION AND CLAMP INSTALLATION INFORMATION

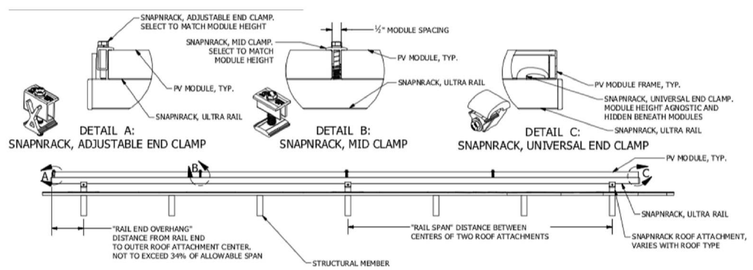
2.1 Attachment Detail

CENTER SPLICE BETWEEN THE TWO BONDING CLIPS AS SHOWN IN "SPLICE ALIGNMENT LIMITS" VIEW



2.2 SNAPNRACK UR RAIL

Scale: NTS



2.2.1 SNAPNRACK ACCESORIES DETAIL

Scale: NTS

VECTOR engineers
651 W. GALENA PARK BLVD. STE. 121 DRAPER, UTAH 84020
PHONE (801) 990-1775
WWW.VECTORSE.COM

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04/21/2022

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ARRAY 3

Module Name			
Inverter			----
Tilt Angle ----	No. of Modules ----	DC String Length ----	No. of Strings

GENERAL NOTES

DRAWN BY
Baker Makarem
Credential ID PV-022018-018876

NABCEP BOARD CERTIFIED PV Installation Professional

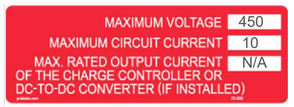
Rev	Description	Date	Draw By
1	Roof mounting details, Ironridge	04/05	BM

Sheet Name

Roof Mounting details

Designed By ----	Sheets 4 of 9	Date 04/05/2022
Project number BT-2022-GA-07	PV-02.1	

INVERTER 1 & 2

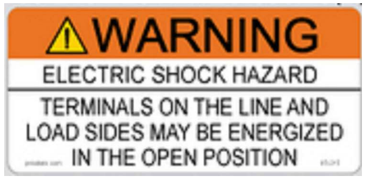


JUCTION BOX

Conduit From PV to Inverter

PV LOAD

AC DISCONNECT



POINT OF INTERCONNECTION

CUSTOMER INFORMATION			
Name	Josh and Kendall Hannah		
Address	382 SW Dusk Gln. Lake City, FL 32024		

PROJECT INFORMATION			
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ARRAY 3			
Module Name			
Inverter			----
Tilt Angle ----	No. of Modules ----	DC String Length ----	No. of Strings

CONTRACTOR INFORMATION

Rev	Description	Date	Draw By
1	Fire labels and location in equipments and conduits.	04/05	BM

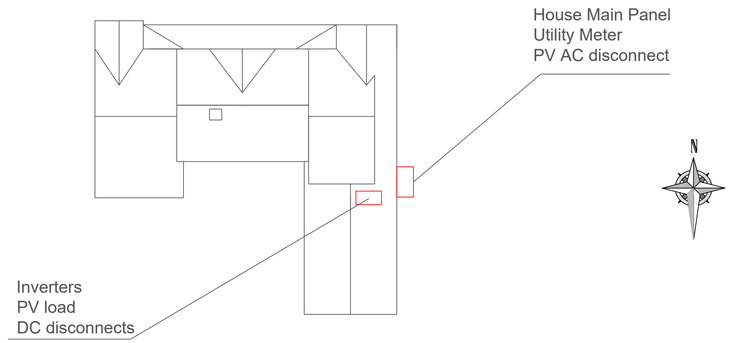
Sheet Name

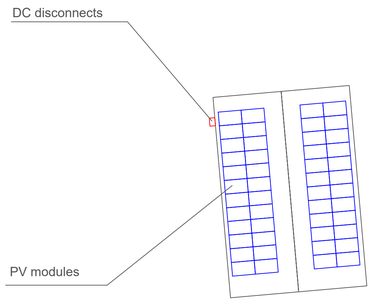
Fire Labels & Equipment

Designed By ----		Sheets 5 of 9	Date 04/05/2022
Project number BT-2022-GA-07		PV-03	

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES, WITH DISCONNECTS LOCATED AS SHOWN





GENERAL CONSIDERATIONS

1.THE PLAQUE SHALL BE METAL OR PLASTIC, WITH ENGRAVED OR MACHINE PRINTED LETTERS, IN CONTRASTING COLOR TO THE PLAQUE. THIS PLAQUE WILL BE ATTACHED BY POP/RIVETS, SCREWS OR OTHER APPROVED FASTENERS.

2. LOCATION OF THE PLAQUES SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT, ACCORDING TO NEC 2017 690.56

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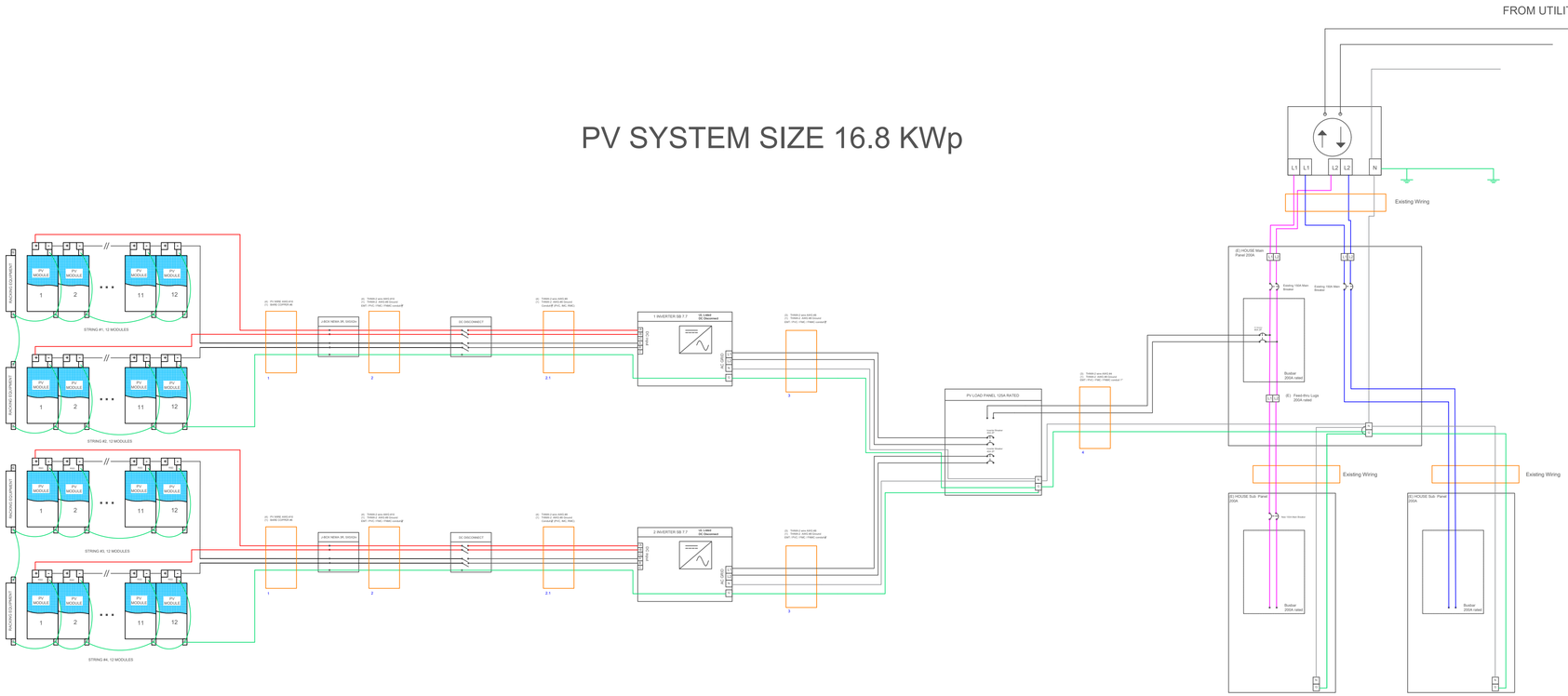
CONTRACTOR INFORMATION

Rev	Description	Date	Draw By
1	Fire label plate with location of disconnect and power sources	04/05	BM

Plate equipment location

Designed By ----		Sheets 6 of 9	Date 04/05/2022
Project number BT-2022-GA-07		PV-03.1	

PV SYSTEM SIZE 16.8 KWp



TAG	DESCRIPTION	Conductor size	Ground Conductor
1	PV source Circuit	PV wire #10	Bare Copper #6
2	PV Source Circuit	THHN wire #10	THHN #8
2.1	PV Source Circuit	THWN-2 #8	THWN-2 #8
3	Inverter AC Circuit	THHN #8	THHN #8
4	Inverter AC Circuit	THHN #4	THHN #8

Max Vmp: 450 Vdc
Max Voc: 538 Vdc

Wire Ampacity Calculation					Voltage Drop Calculation (%)				
Output Current	Irradiance Current 125%	80% Conductor Ampacity	(Wire Rating)x(Ambient Temp Factor)x(# Conduct Factor)		Voltage	Length (Feet)	Ω (ohm/KFt)	Voltage Drop expressed in %	
10.73A	13.41A	16.77A	40X0.91X1=36.4A	PASS	450V	140	1.24	0.72	PASS
10.73A	13.41A	16.77A	40X0.91X0.8=29.1A	PASS	450V	30	1.24	0.08	PASS
10.73A	13.41A	16.77A	55X0.91X0.8=50.05A	PASS	450V	400	0.778	0.74	PASS
32A	N/A	40A	55X0.91X1=50A	PASS	240V	20	0.778	0.21	PASS
64A	N/A	80A	55X0.91X1=50A	PASS	240V	40	0.308	0.33	PASS

PV MODULE ESPECIFICATION	
Manufactured	Q.CELL
Model	G6+ 350W
Peak Power	350W
Rated Voltage (Vmp)	34.07 V
Rated Current (Imp)	10.22 A
Short Circuit Current (Isc)	10.73 A
Open Circuit Voltage (Voc)	40.73 V

INVERTER 1 SPECIFICATION		
Manufactured	SMA	
Model	SB 7.7	
Max Input Voltage	600 Vdc	
Max Input Curret	18 Adc	
Max DC Input Power	12,320 W	
Nominal Output Voltage	240 V	
Max Output Current	32 A	
Maximun output Power	2000 W	SPS
Max Output Current @120 V	16 A	

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Module Name	Q.CELL G6+ 350W		
Inverter	SMA SB.7.7		
Tilt Angle 26°	No. of Modules 24	DC String Length 12	No. of Strings 2

ARRAY 2			
Module Name	Q.CELL G6+ 350W		
Inverter	SMA SB.7.7		
Tilt Angle 26°	No. of Modules 24	DC String Length 12	No. of Strings 2

ARRAY 3			
Module Name			
Inverter			----
Tilt Angle ----	No. of Modules ----	DC String Length ----	No. of Strings

GENERAL NOTES

1.-ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.

2.-ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.

3.-WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.

4.-WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.

5.-ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE

6.-MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.

7.-CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C) (1) ANDARTICLE 310.10 (D).

8.-CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C)

9.-ALL DC CONDUCTORS ENTERING THE BUILDING PRIOR TO INVERTER DC DISCONNECT, SHALL BE RUN IN METAL RACEWAY PER NEC 690.31

10.-THE SUM OF ALL PV OVERCURRENT PROTECTION DEVICES CONNECTED, SHALL NOT EXCEED THE RATING OF THE SERVICE.

11.- FOR BACKUP SYSTEMS AND BACKUP LOADS SHALL COMPLY WITH NEC 2017 710.15(A), THE CAPACITY OF THE STAND ALONE SUPPLY SHALL BE EQUAL TO OR GREATER THAN THE LOAD POSED BY THE LARGEST SINGLE UTILIZATION EQUIPMENT CONNECTED TO THE SYSTEM.

DRAWN BY
Baker Makarem
Credential ID PV-022018-018876

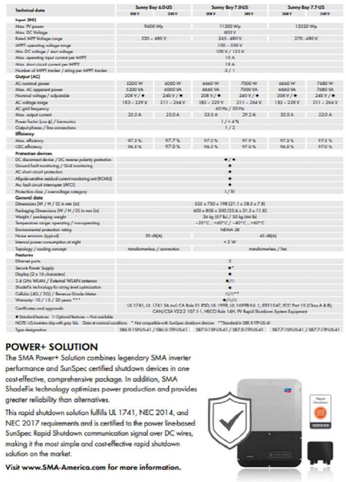
NABCEP BOARD CERTIFIED PV Installation Professional

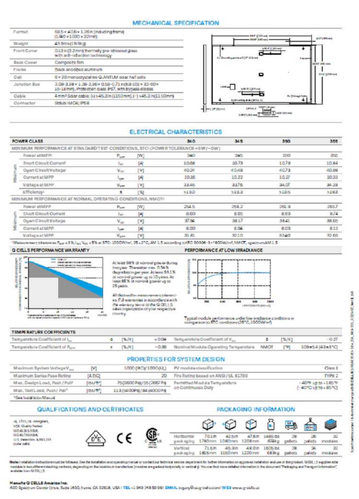
Rev	Description	Date	Draw By
1	Single line Diagram, calculation and equipment performance	04/05	BM

Sheet Name

Single Line Diagram & Calculations

Designed By ----		Sheets 8 of 9	Date 04/05/2022
Project number BT-2022-GA-07		PV-04	





CUSTOMER INFORMATION

Name	Josh and Kendall Hannah
Address	382 SW Dusk Gln. Lake City, FL 32024

PROJECT INFORMATION

Project Latitude	30°06'21.3"N	Min. Ambient Temperature	32F°
Project Longitude	82°43'23.5"W	Max. Ambient Temperature	95F°
Utility Name		Meter Number	----
Wind Exposure Category	C	Wind Speed	140
Risk Category	II	North Direction	0.0°
Interconnection Voltage	240	AHJ	----

ARRAY INFORMATION

ARRAY 1

Module Name	Q.CELL G6+ 350W		
Inverter	SMA SB.7.7		
Tilt Angle 26°	No. of Modules 24	DC String Length 12	No. of Strings 2

ARRAY 2

Module Name	Q.CELL G6+ 350W		
Inverter	SMA SB.7.7		
Tilt Angle 26°	No. of Modules 24	DC String Length 12	No. of Strings 2

ARRAY 3

Module Name			
Inverter			----
Tilt Angle ----	No. of Modules ----	DC String Length ----	No. of Strings

GENERAL NOTES

Rev	Description	Date	Draw By
1	Data sheets	04/05	BM

Manufacture Spec. Sheets

Designed By ----	9 of 9	Date 04/05/2022
Project number BT-2022-GA-07	PV-05	