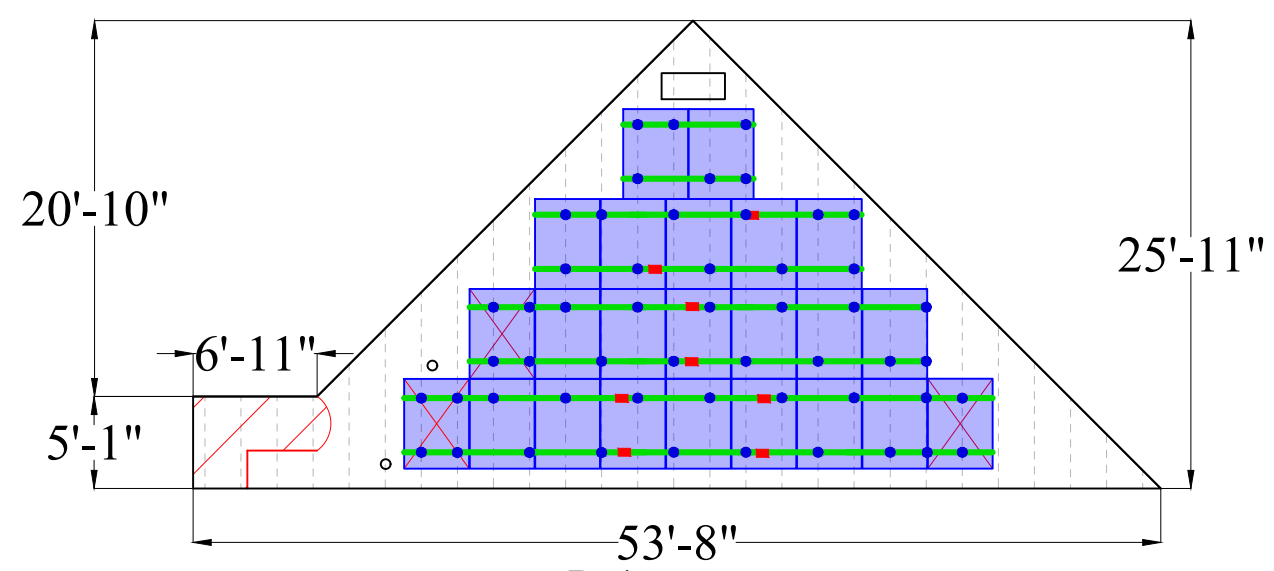
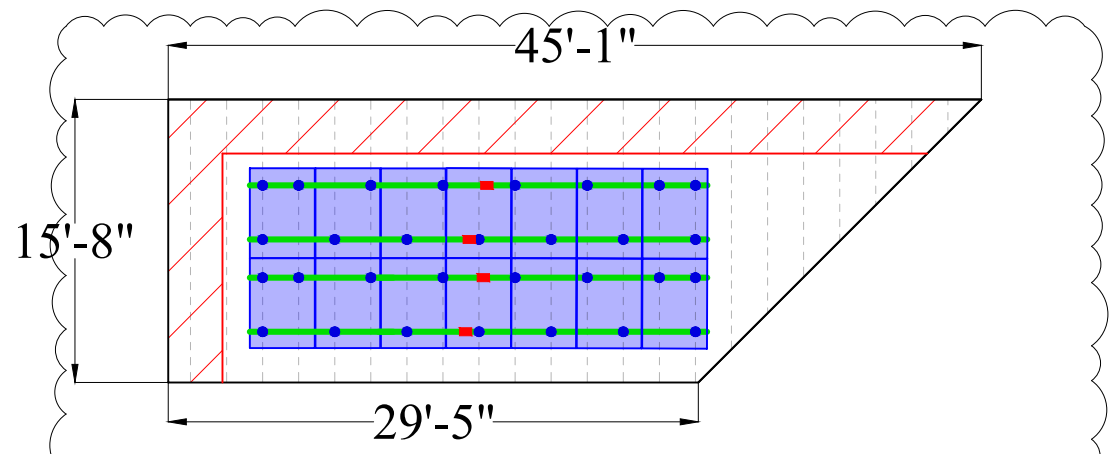


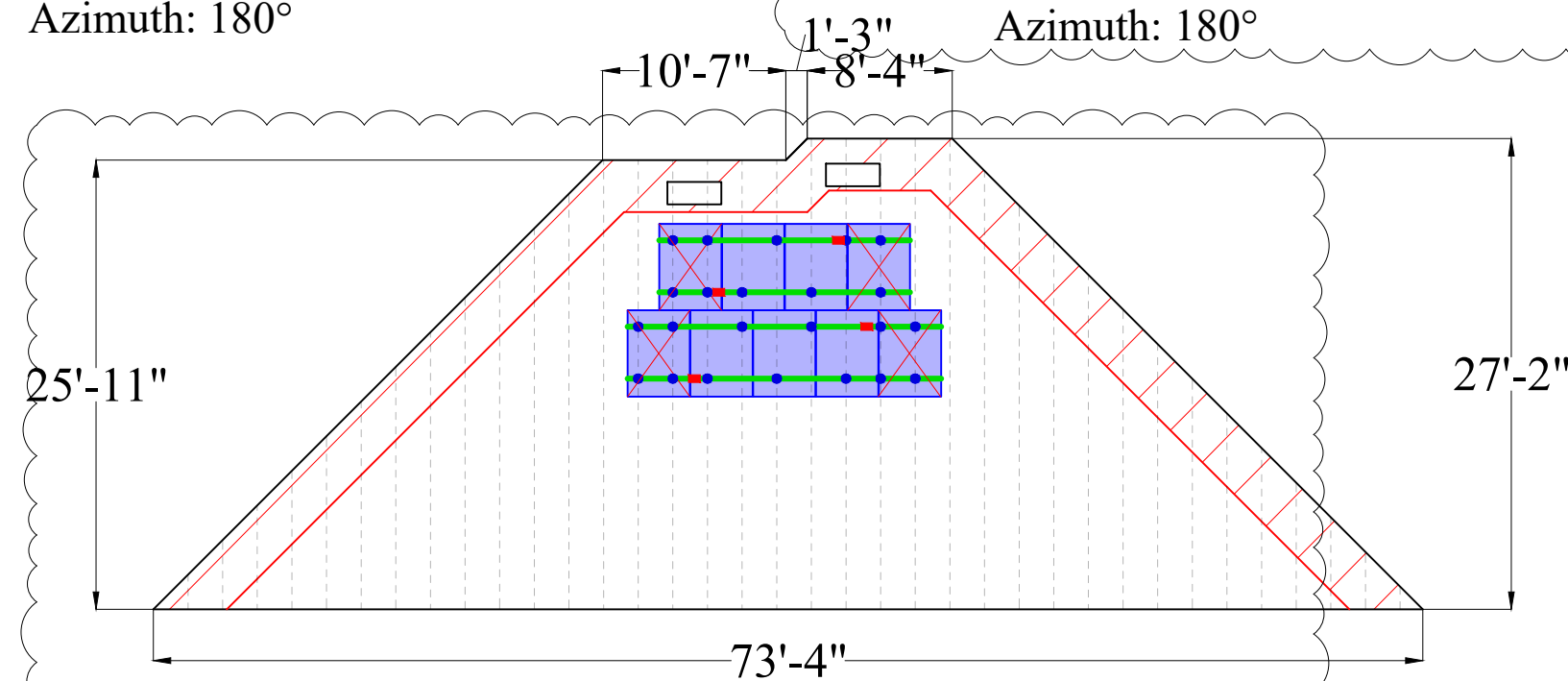
Proposed Mounting locations



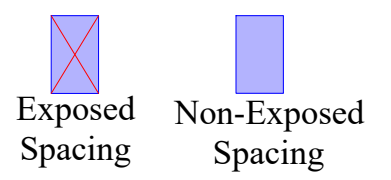
R-1
Modules (23)
Pitch: 30°
Azimuth: 180°



R-2
Modules (14)
Pitch: 30°
Azimuth: 180°



R-3
Modules (9)
Pitch: 30°
Azimuth: 270°



Plans satisfy zones FBC-1510.7.1
Install will be done to Manufacturer Spec

- Iron Ridge XR-100 Rail
- 14' 28
- 16 Splice Bar
- 106 IronRidge HUG
- 108 Iron Ridge UFO's
- 32 Iron Ridge Sleeves/End Caps
- 3 Roof Top Combiner
- 8 Iron Ridge Ground Lugs
- 46 TSM-390DE09C.07
- 46 Enphase IQ8PLUS-72-2-US
- 1 100A Fused Disconnect
- 2 70A Fuses
- 4 20A 2P Breakers
- 1 Enphase Combiner Box

Rafter Spans	Zone 1	Zone 2e	Zone 2r	Zone 3
Exposed	24"	24"	24"	24"
Non-Exposed	48"	48"	24"	24"
Max Cantilever	19.2"	19.2"	9.6"	9.6"

Max Cantilever = Max Span * ($\frac{2}{5}$)

Inverter Type: (46)Enphase IQ8PLUS-72-2-US
PV Panel: (46) TSM-390DE09C.07
Racking: Iron Ridge XR-100
Total Wattage: 17,940W DC
Roof Type: Composition Shingle
Wind Load: 27 to 45 Deg
Fastener Type: Use (2) #14 x 3" SS Screws

Customer Info:

ANDREW BUERGO
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Gainesville, FL 32601

Date:	10/06/2023
Drawn by:	JM
Revised by:	DMB
Rev #:	01
Rev Date:	10/31/2023
Page:	11"x17" S-1A



Inverter Type: (46)Enphase IQ8PLUS-72-2-US
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Sheet Index

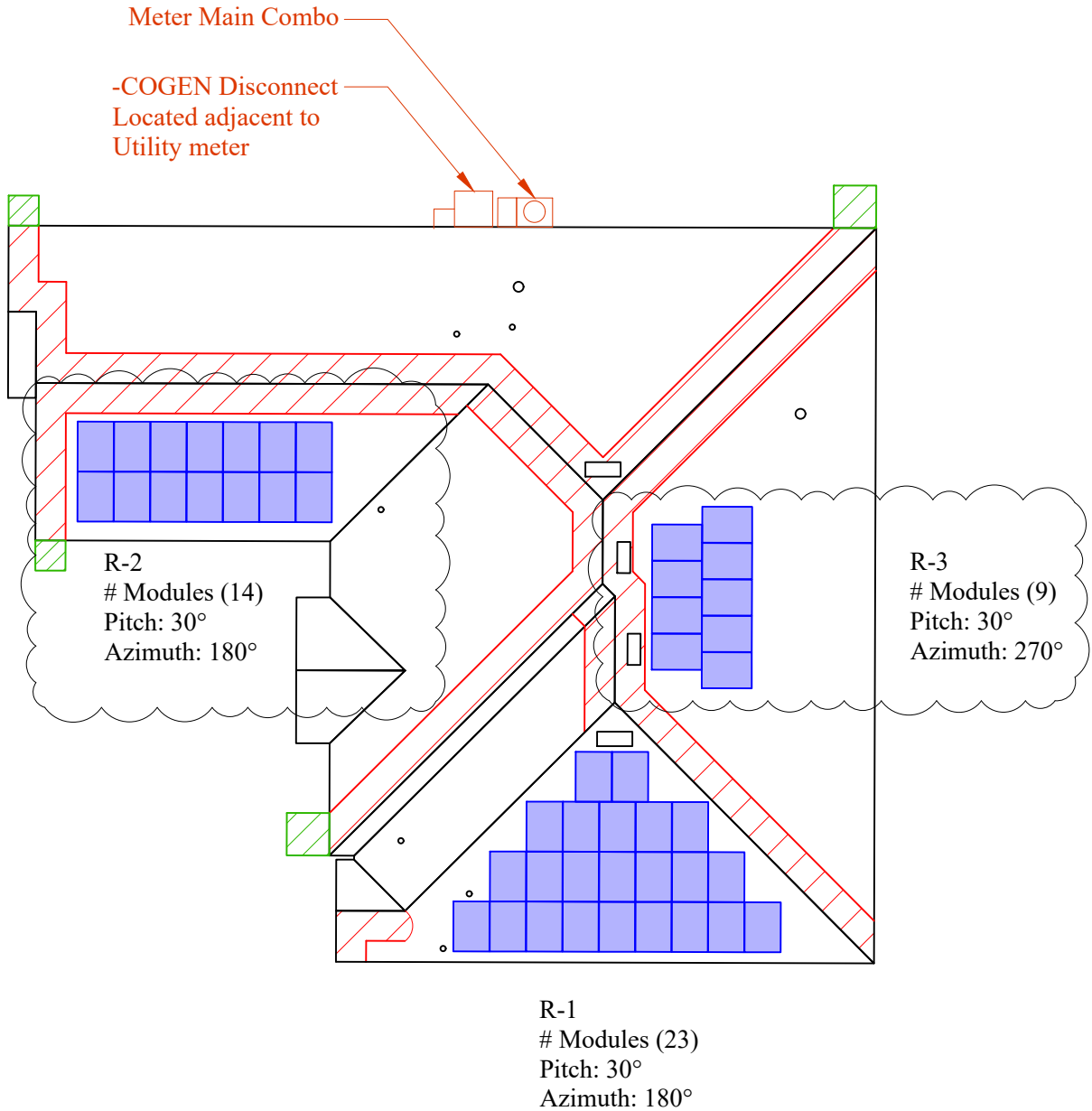
- S-1 Cover Sheet / Site Plan
- S-2 Detail
- E-1 One - Line
- E-2 Electrical Code
- S-1A Mounting Plan

General Notes:

- Enphase IQ8PLUS-72-2-US Micro Inverters are located on roof behind each module.
- First responder access maintained and from adjacent roof.
- Wire run from array to connection is 40 feet.



FRONT OF HOUSE



Layout Subject to Change Based on Site Conditions

System meets the requirements of NFPA 70th Edition, Chapter 1:11.12 (2018 Edition)

Install will be done to Manufacturer Spec

Legend

- 3' First responder access
- 1'-6" First responder access
- Ground Access
- Chimney
- Utility Meter
- Satellite
- PV Disconnect
- Vent Pipe

Meets All Editions of Florida Fire Prevention Code 2020 7th Edition
Meets all requirements of 2018 Editions of NFPA-1 and NFPA-101



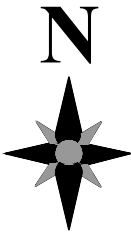
Represents all Fire Clearance including Alternative methods
1st Responder Access minimum of 36" unobstructed as per Section R324 of the 2020 IRC

Customer Info:

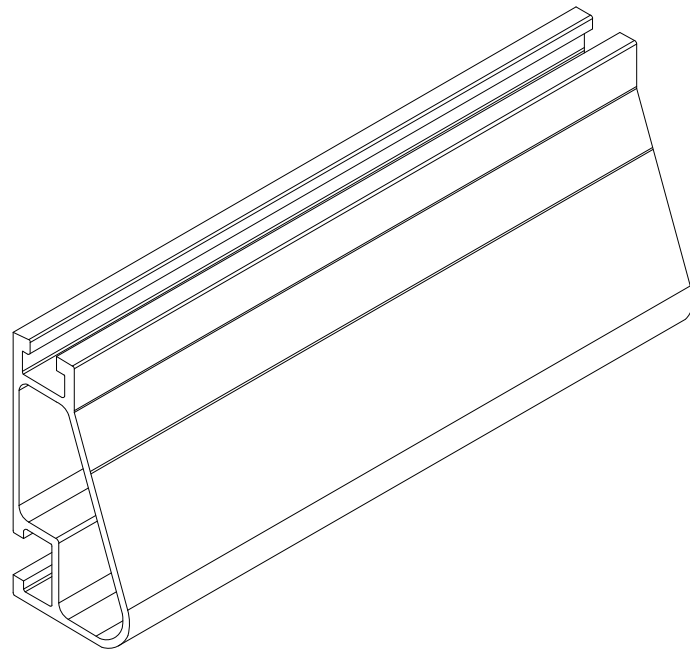
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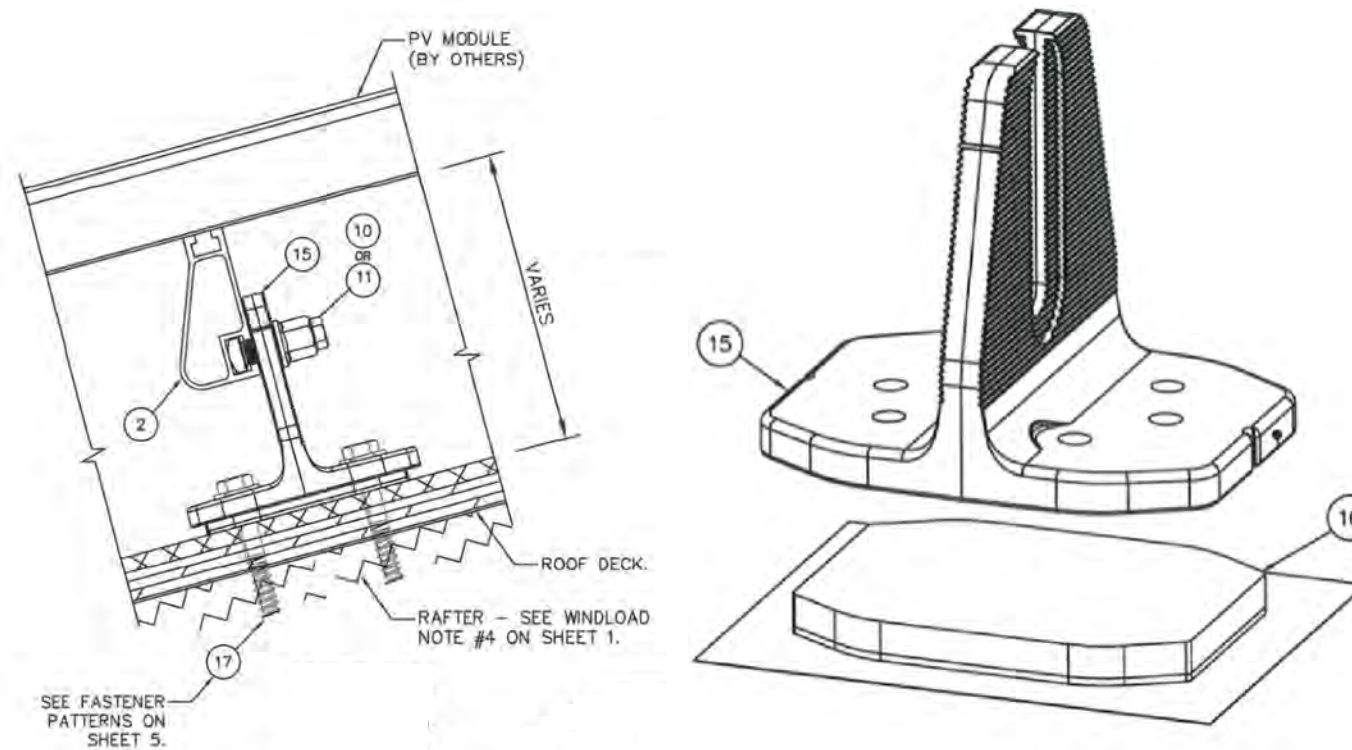
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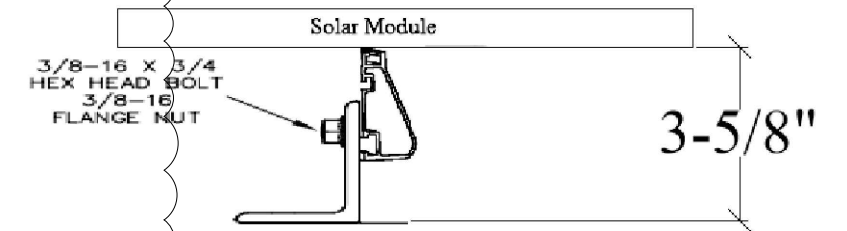
Meets the requirements of the following- (2020 FL Residential Code & FBC, 7th Edition (2018 International Residential Code) - 2nd Printing modified by the FL Building Standards, 2020 Florida Building Energy Conservation Code 7th edition, County of Columbia Code, 2017 National Electric Code.)



Ironridge XR-100



BILL OF MATERIALS- QuickMount Halo Ultra Grip (HUG)		
#	DESCRIPTION	MATERIALS/NOTES
15	HALO ULTRAGRIP BASE, MILL OR BLACK	300 SERIES ALUMINUM
16	ULTRAGRIP FLASHING SYSTEM	PRESSURE SENSITIVE ADHESIVE
17	SCREW, #14 X 3" WITH EPDM BACKED WASHER	300 SERIES SS & EPDM



R1-R3

Roof Type:	Composition Shingle
Roof Pitch & Overhang:	7/12; 12" Overhang
Mount Type:	Halo UltraGrip
Fastener: No Substitutions	(2) #14 x 3" SS Self-drilling Screws into Roof Rafters
Structure:	2"x4" Wood Trusses @ 24" O.C.
Sealing/Flashing:	All penetrations are sealed and flashed with Ultragrip Flashing System
Extra Notes:	(HW-RD1430-01-M1 screw)

Rafter Spans	Zone 1	Zone 2e	Zone 2r	Zone 3
Exposed	24"	24"	24"	24"
Non-Exposed	48"	48"	24"	24"

-Roof Height 15'
-Per 2020 FBC, the Roof Mounted PV System will be subject to the following design criteria:
Design Wind Speed(Vult) - 120mph 3 sec gust,
Exposure Category - C
-Designed as per ASCE7-16

Inverter Type: (46)Enphase IQ8PLUS-72-2-US
PV Panel: (46) TSM-390DE09C.07
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