

IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS

GENERAL NOTES:

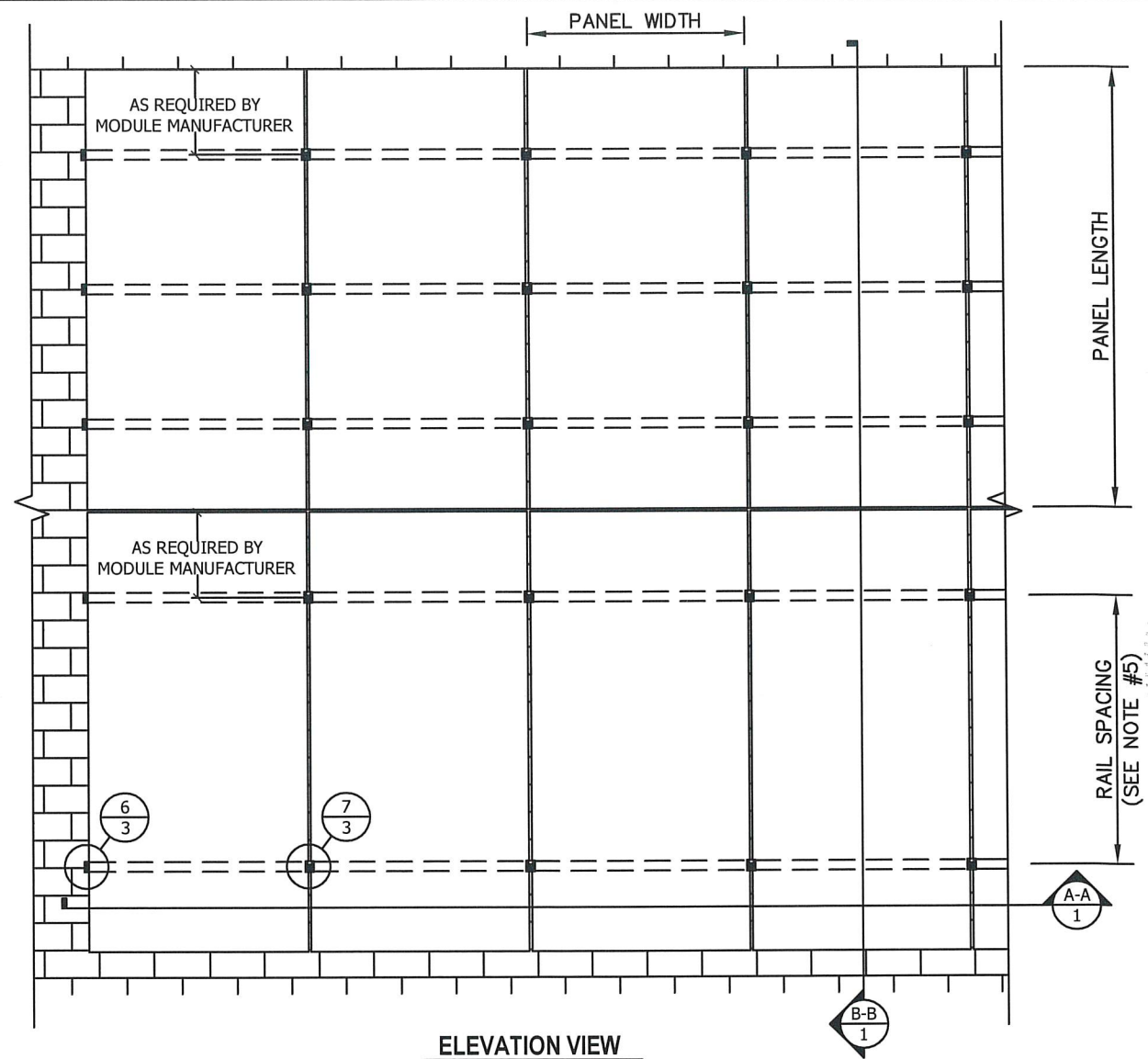
- THIS SYSTEM MEETS ALL OF THE REQUIREMENTS OF THE 7TH EDITION (2020) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
- THIS SYSTEM HAS BEEN TESTED PER TAS 100(A) AND ASTM D7147. IT IS NOT A PART OF THE BUILDING ENVELOPE, AND IMPACT RESISTANCE IS NOT REQUIRED.
- THIS SYSTEM SHALL BE INSTALLED PER THE IRONRIDGE AIRE INSTALLATION MANUAL.
- THE PV PANELS ARE BY OTHERS AND ARE NOT A PART OF THIS APPROVAL.
- RAIL SPACING TO BE AS SPECIFIED BY THE PV PANEL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- THE DESIGN OF THE ROOF SUBSTRATE IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD OR OTHER SPECIALTY ENGINEER, AND IS NOT A PART OF THIS APPROVAL. THE SUBSTRATE MUST SAFELY TRANSMIT THE LOADS APPLIED TO THIS SYSTEM TO THE BUILDING STRUCTURE.
- FIRE RATINGS OR FIRE RESISTANCE IS NOT A PART OF THIS REVIEW.
- ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PROTECTED PER FBC REQUIREMENTS.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.

WINDLOAD NOTES:

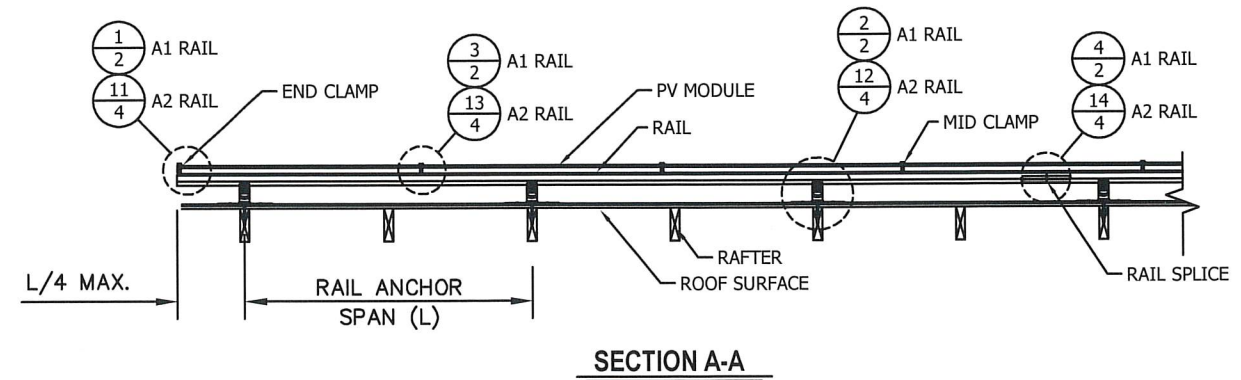
- DESIGN WINDLOADS MUST BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT, PER ASCE 7-16 SECTION 29.4.4. DESIGN WINDLOADS MAY NOT EXCEED THE ALLOWABLE WINDLOADS SHOWN IN THE CHARTS ON THIS SHEET OR SHEET 7.
- PANEL SYSTEM LOCATION, HEIGHT, AND SPACING MUST MEET THE REQUIREMENTS OF ASCE 7-16 SECTION 29.4.4. WINDLOADS ACT NORMAL TO THE SURFACE OF THE PV PANEL SYSTEM.
- OTHER CONFIGURATIONS REQUIRE PROJECT SPECIFIC ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT.
- ALLOWABLE WINDLOADS BELOW ARE BASED ON ANCHORING IN WOOD RAFTERS WITH S.G.=0.55 MIN. SEE SHEET 7 FOR ALLOWABLE LOADS BASED ON RAFTERS WITH OTHER SPECIFIC GRAVITY VALUES.

THREE RAIL SYSTEM:

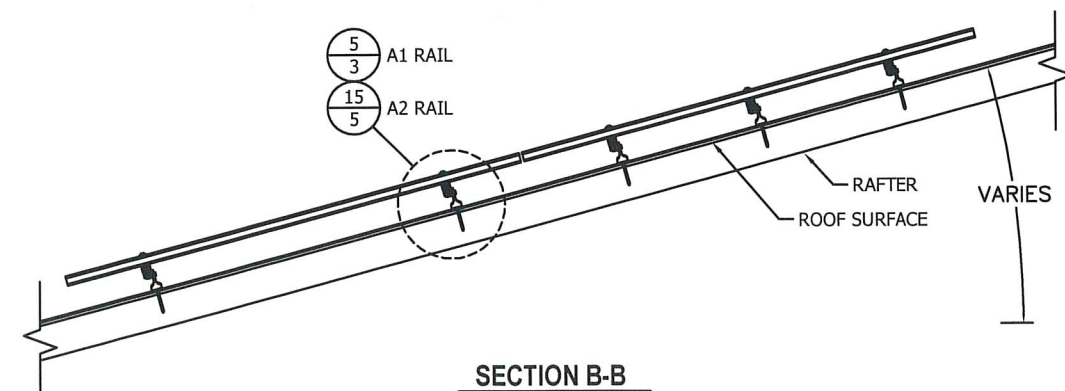
TWO RAIL SYSTEM:



ELEVATION VIEW



SECTION A-A



SECTION B-B

ALLOWABLE WINDLOADS

TWO RAIL SYSTEM					THREE RAIL SYSTEM						
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	A1 RAIL (+/- psf)	A2 RAIL (+/- psf)	PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	A1 RAIL (+/- psf)	A2 RAIL (+/- psf)		
45	67 1/2	16	109.2	109.2	45	67 1/2	16	163.8	163.8		
		24	89.1	109.2			24	133.7	163.8		
		32	79.6	109.2			32	119.4	163.8		
		36	78.2	104			36	117.3	156.0		
		48	64.5	97.5			48	96.8	146.3		
		64	39.3	66.4			64	59.0	99.6		
	72	31.3	54	72		47.0	81.0				
	80	80	16	92.1		92.1	80	80	16	138.2	138.2
			24	75.2		92.1			24	112.8	138.2
			32	67.2		92.1			32	100.8	138.2
			36	66		87.8			36	99.0	131.7
			48	54.4		82.3			48	81.6	123.5
			64	33.2		56			64	49.8	84.0
	86	86	16	85.7		85.7	86	86	16	128.6	128.6
			24	70		85.7			24	105.0	128.6
			32	62.5		85.7			32	93.8	128.6
			36	61.4		81.6			36	92.1	122.4
			48	50.6		76.5			48	75.9	114.8
			64	30.9		52.1			64	46.4	78.2
	92 1/2	92 1/2	16	79.7		79.7	92 1/2	92 1/2	16	119.6	119.6
24			65	79.7	24	97.5			119.6		
32			58.1	79.7	32	87.2			119.6		
36			57.1	75.9	36	85.7			113.9		
48			47	80.2	48	70.5			120.3		
64			28.7	48.4	64	43.1			72.6		
92 1/2	92 1/2	16	79.7	79.7	92 1/2	92 1/2	16	119.6	119.6		
		24	71.2	79.7			24	106.8	119.6		
		32	55.3	79.7			32	83.0	119.6		
		36	48.4	75.9			36	72.6	113.9		
		48	32.2	54.6			48	48.3	81.9		
		64	28.4	48.4			64	42.6	72.6		
45	92 1/2	36	48.4	48.4	45	92 1/2	36	72.6	113.9		
		48	32.2	54.6			48	48.3	81.9		
		64	28.4	48.4			64	42.6	72.6		
		72	27.7	48.4			72	41.6	72.6		

LANDSCAPE LAYOUT:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

STATE OF FLORIDA
PROFESSIONAL ENGINEER
DEC 30 2021

12/30/22 DATE
REV.#
1ST SUBMITTAL
PRINTS ISSUED FOR

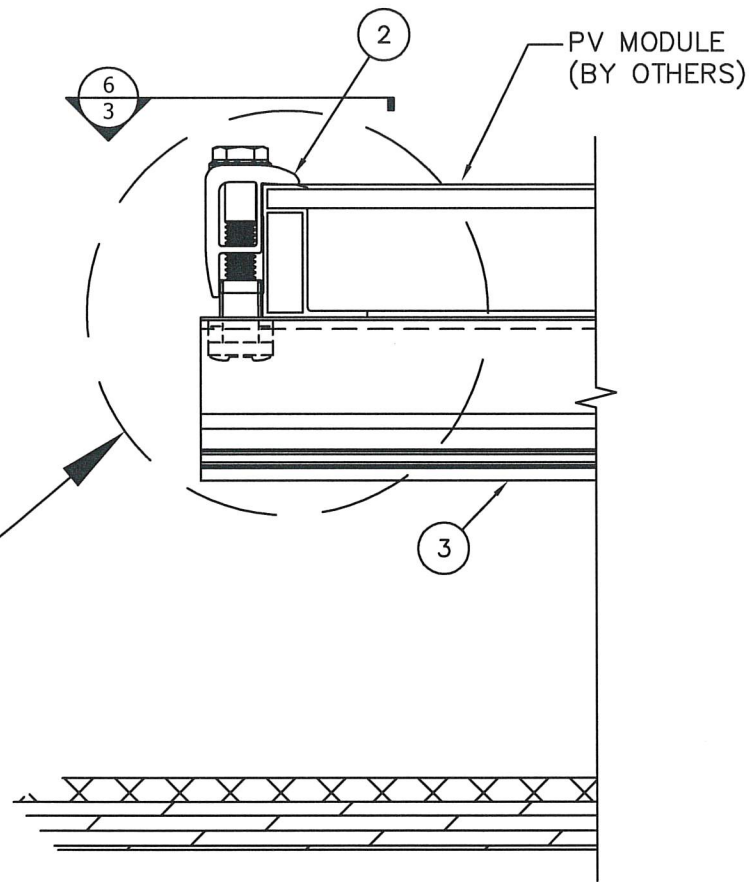
IRONRIDGE

PHONE: (800) 227-9523
info@ironridge.com

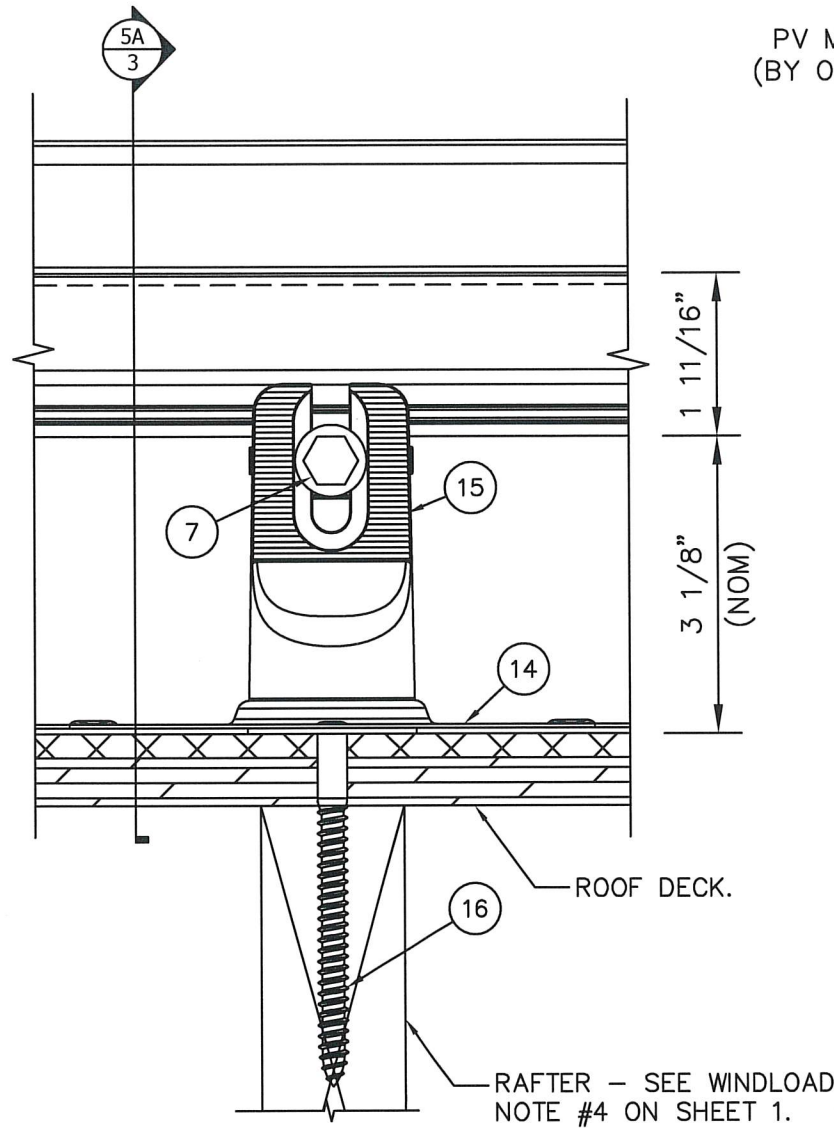
28357 INDUSTRIAL BLVD.
HAYWARD, CA 94545

DWG: AIRE-FF2
SHEET: 1/10

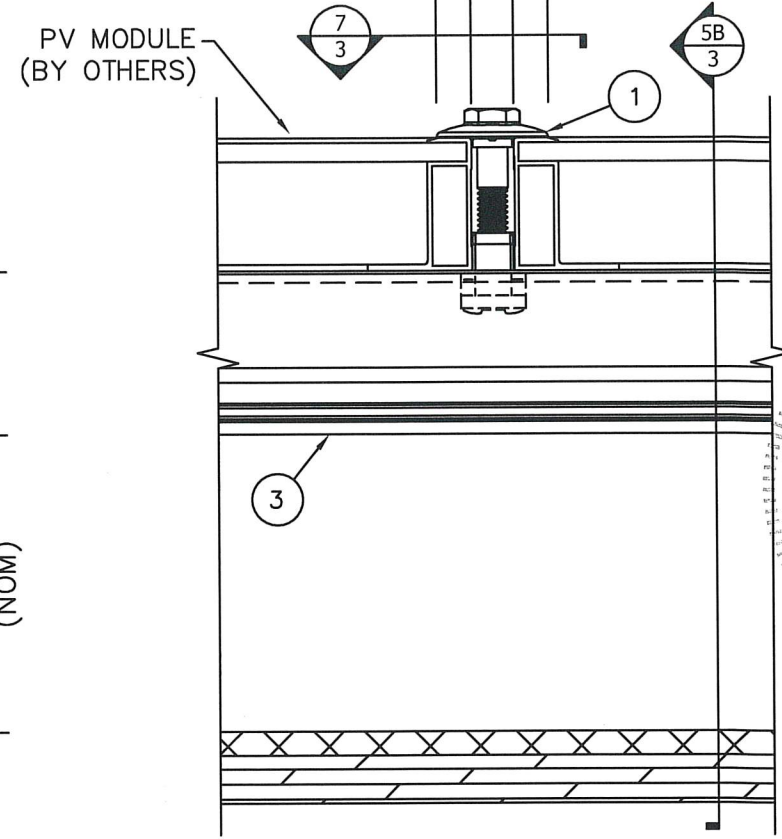
**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**



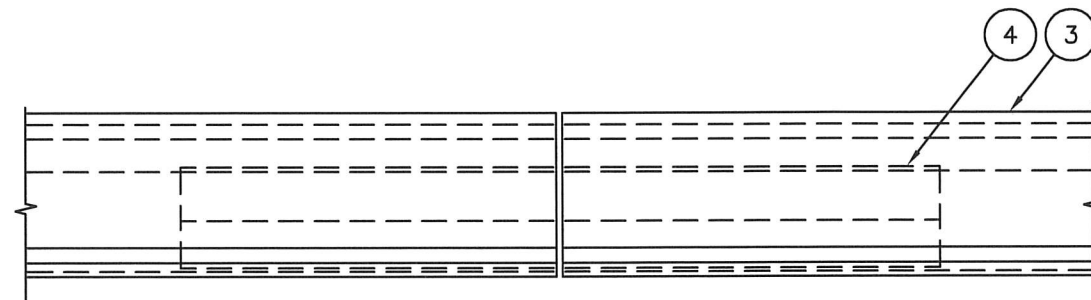
1
2
AIRE LOCK
END-CLAMP DETAIL



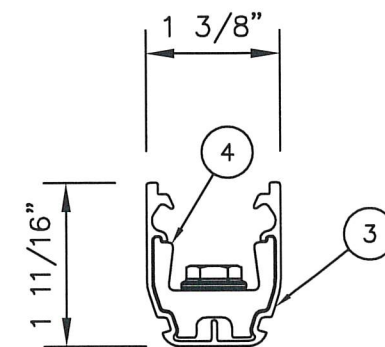
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2
FLASHFOOT2 DETAIL



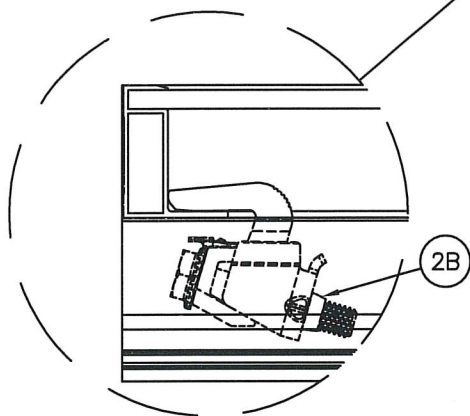
3
2
AIRE LOCK
MID-CLAMP DETAIL



4
2
AIRE TIE
SPlice DETAIL



SPlice MAY NOT BE
LOCATED IN A CANTILEVER.



1B
2

ALTERNATE AIRE LOCK
STEALTH END-CLAMP DETAIL

DATE	12/30/22
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STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DEC 30 2022

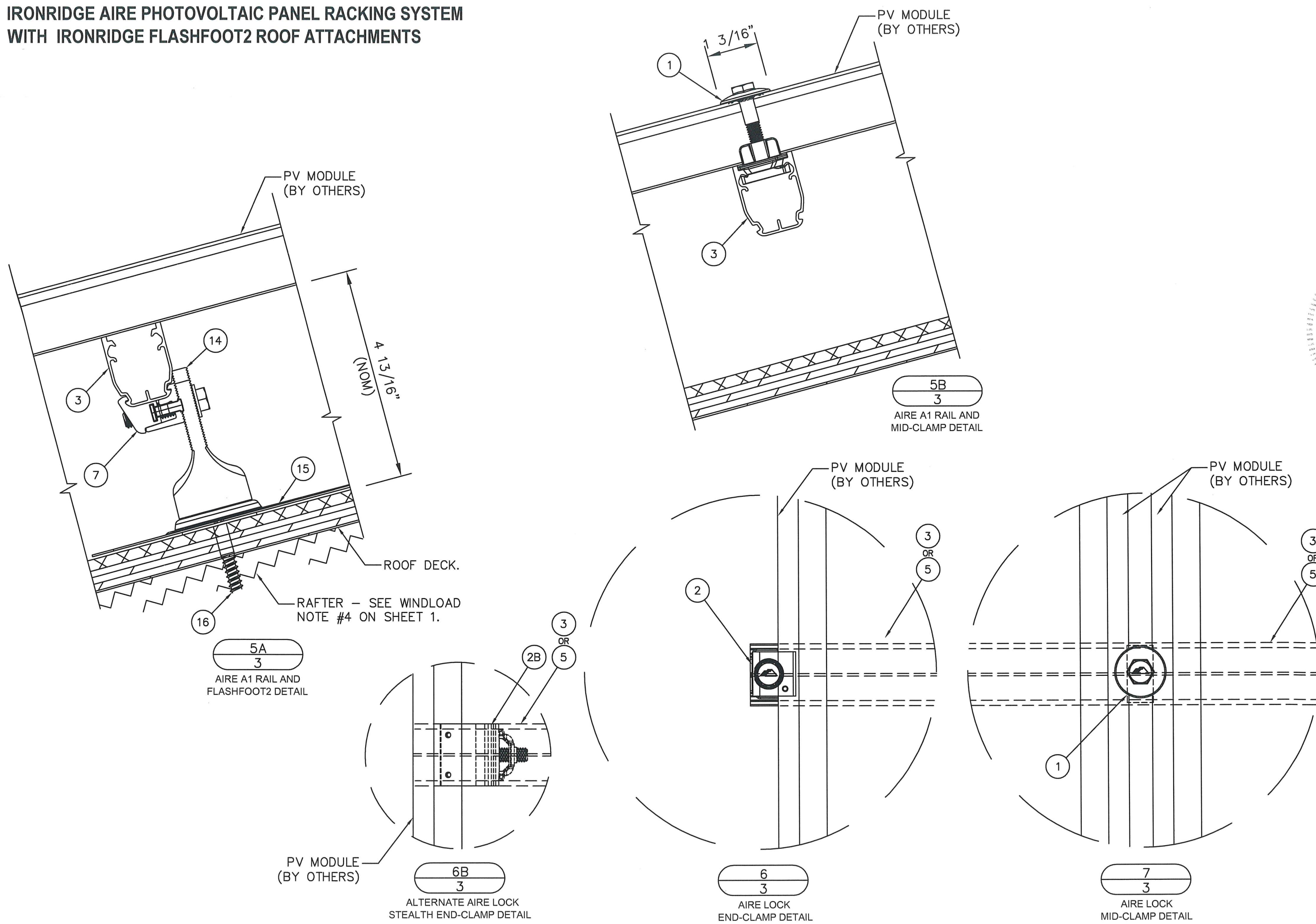
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DWG: **AIRE-FF2**
 SHEET: **2/10**

**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**



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PROFESSIONAL ENGINEER
SEAL: Scott Wolters
NOV 2022
DEC 30 2022

IRONRIDGE

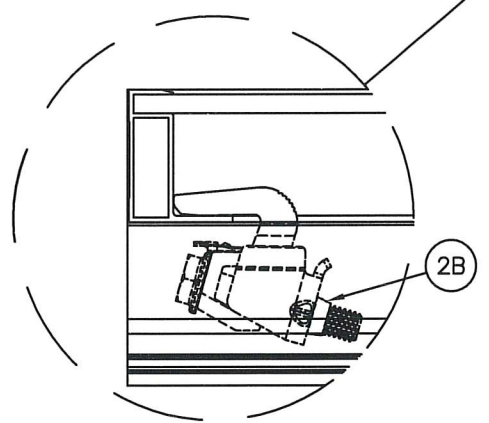
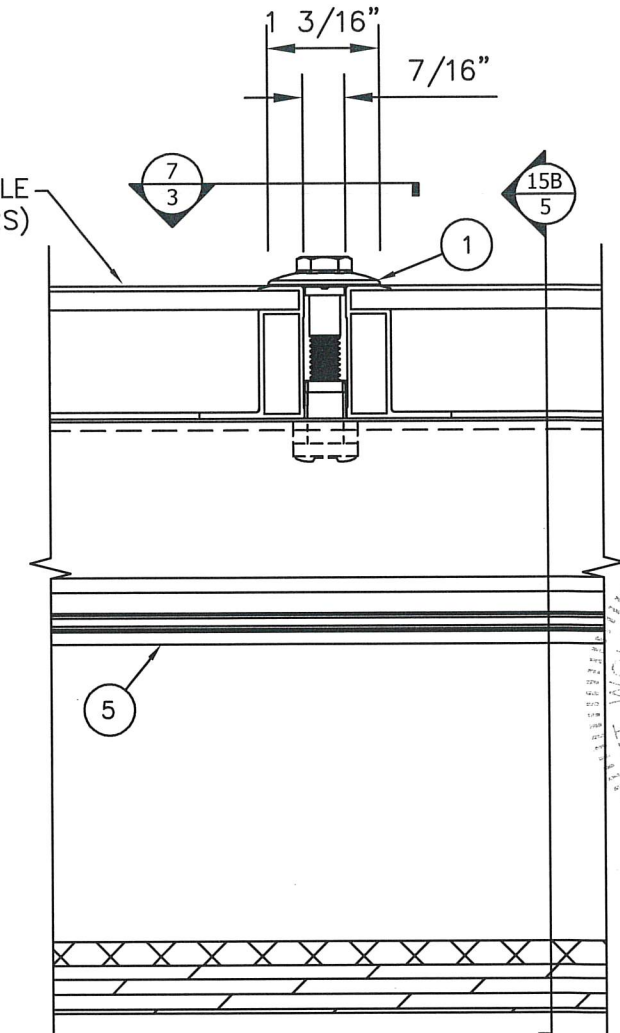
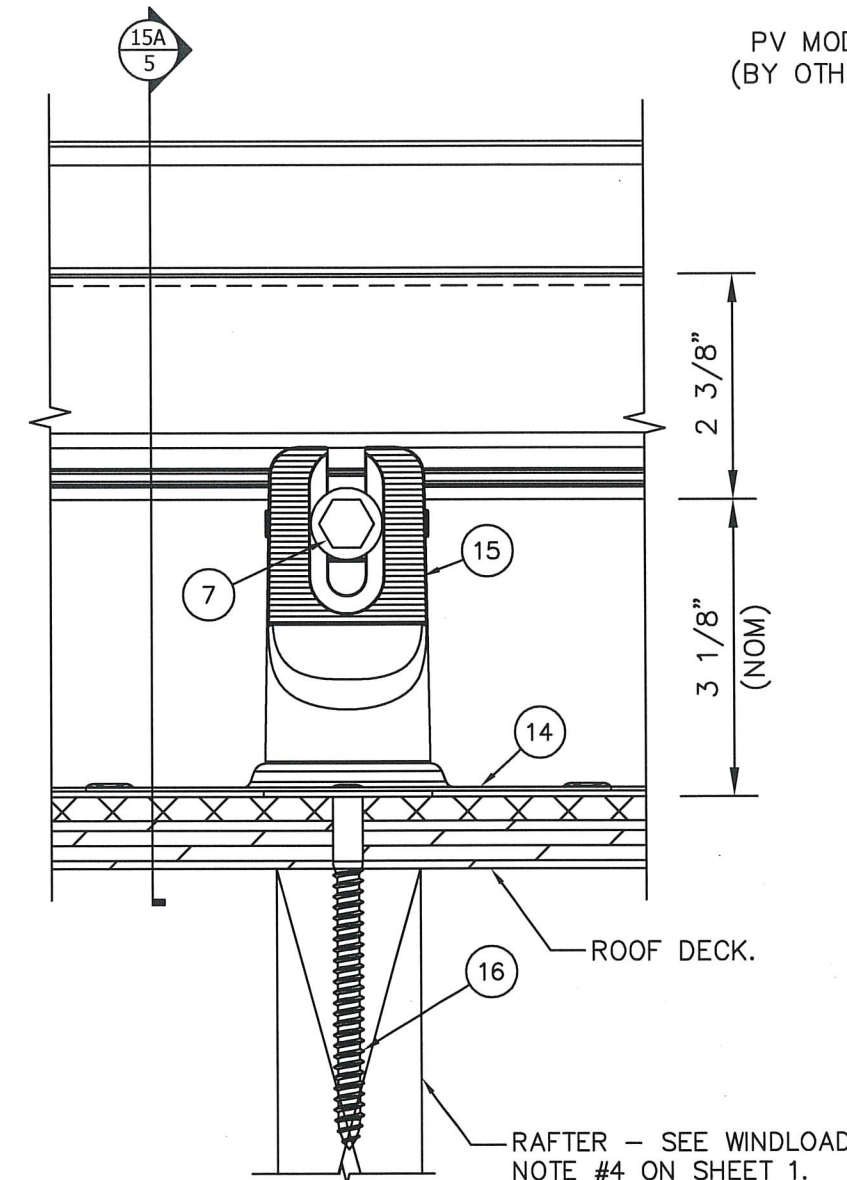
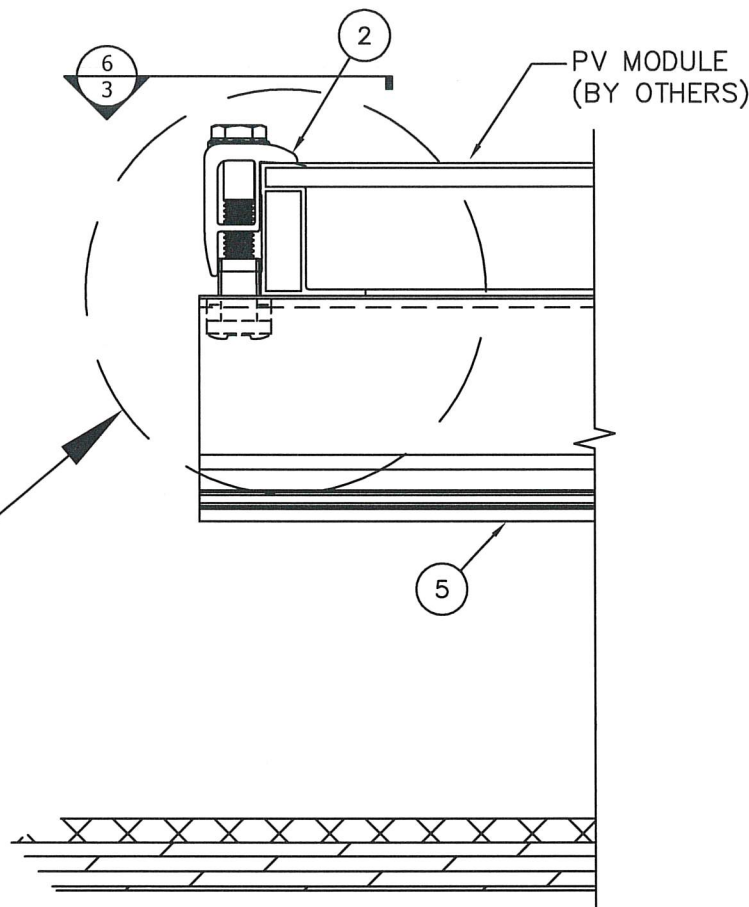
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DWG: **AIRE-FF2**
SHEET: **3/10**

12/30/22	DATE
REV.#	REV.#
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**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**

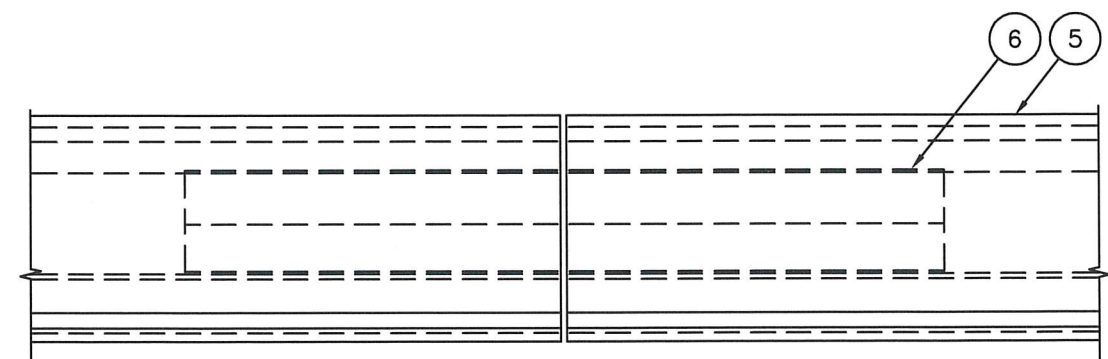


11B
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ALTERNATE AIRE LOCK
STEALTH END-CLAMP DETAIL

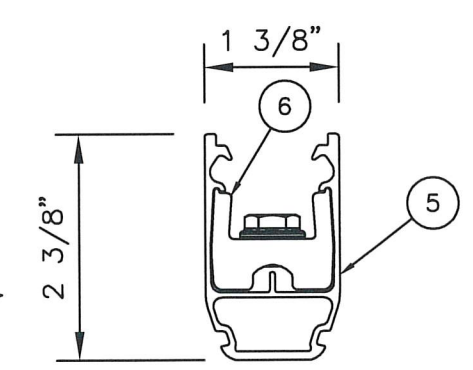
11
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AIRE LOCK
END-CLAMP DETAIL

12
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FF2 DETAIL

13
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AIRE LOCK
MID-CLAMP DETAIL



14
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AIRE TIE
SPlice DETAIL



SPlice MAY NOT BE
LOCATED IN A CANTILEVER.

DATE	12/30/22
REV.#	
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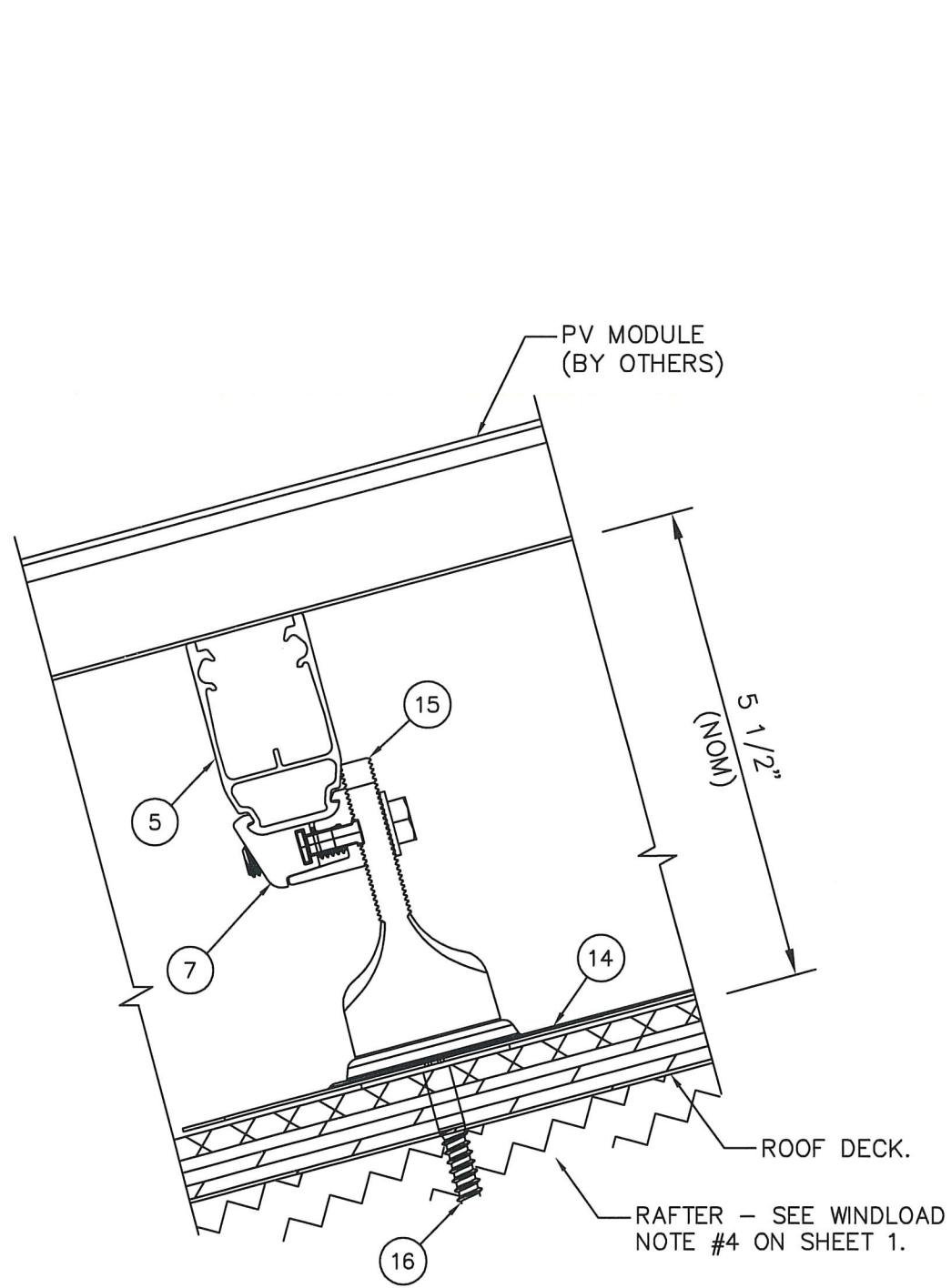
STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DEC 30 2022

IRONRIDGE

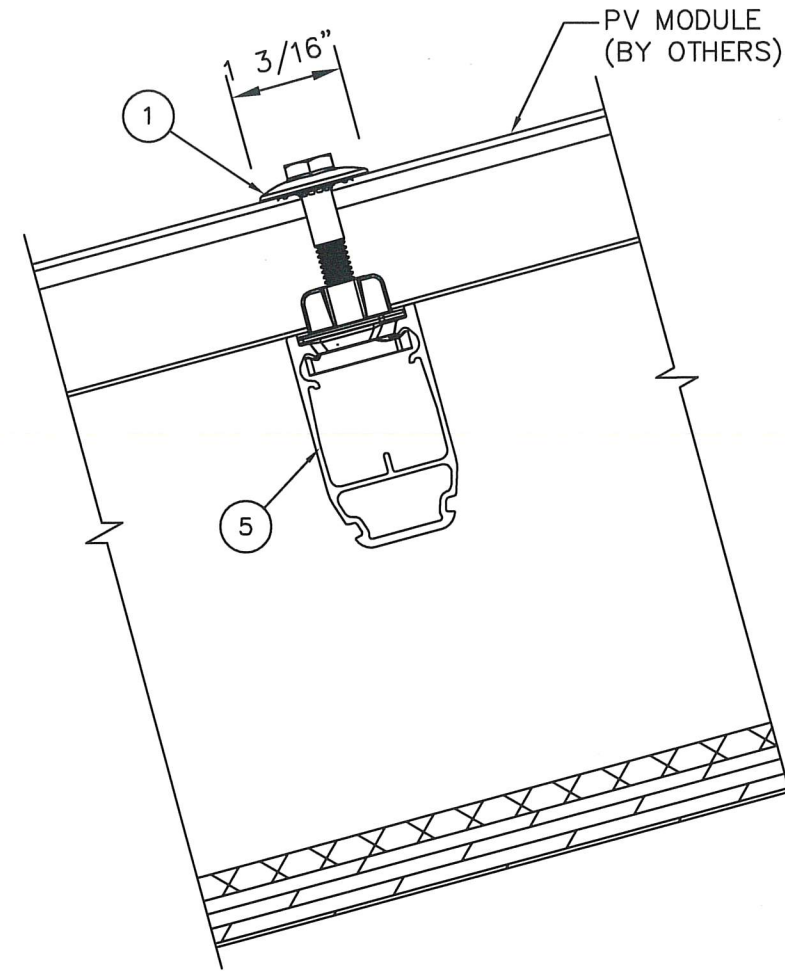
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DWG: **AIRE-FF2**
 SHEET: **4/10**

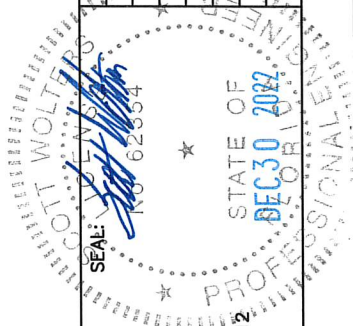
**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**



15A
5
AIRE A2 RAIL AND
FLASHFOOT2 DETAIL



15B
5
AIRE A2 RAIL AND
MID-CLAMP DETAIL



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DWG: **AIRE-FF2**
SHEET: **5/10**

REV.#	DATE
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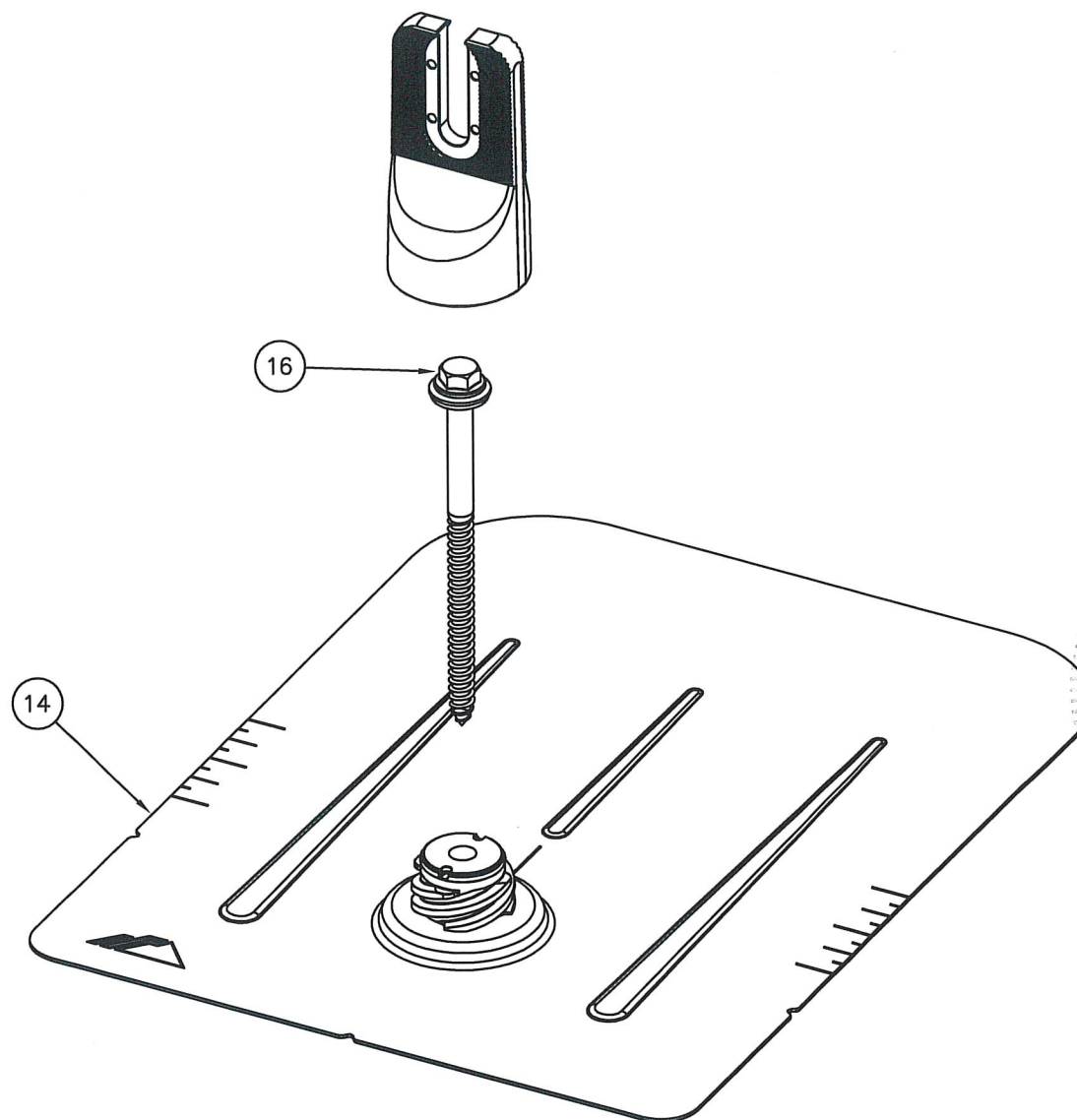
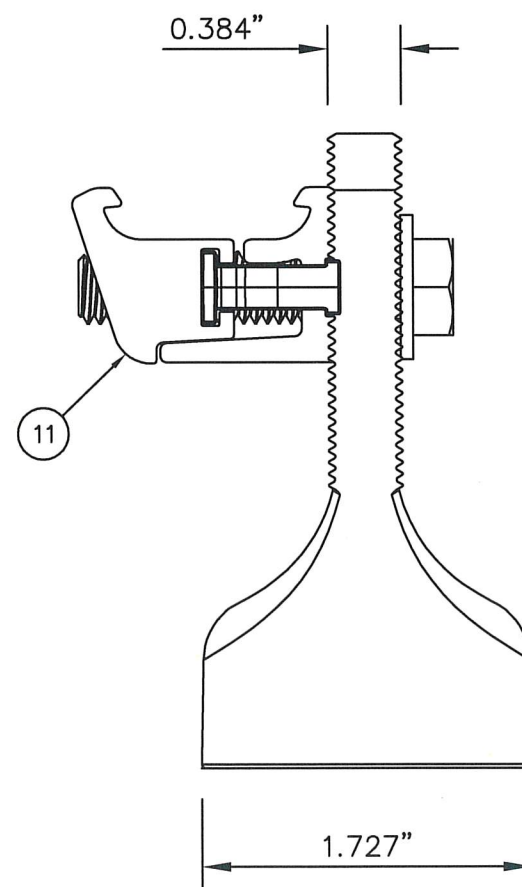
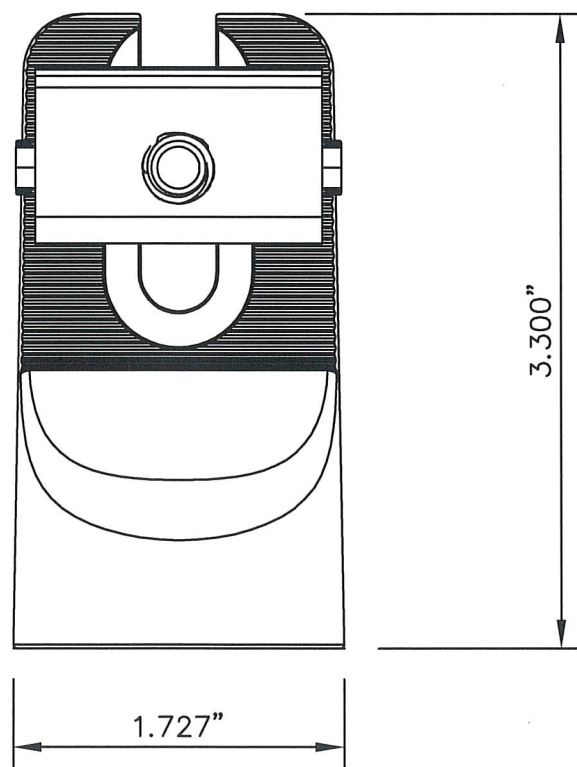
**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**

BILL OF MATERIALS- FlashFoot2		
#	DESCRIPTION	MATERIALS/NOTES
14	ASSY, FLASHING, MILL OR BLACK	6000 SERIES AL
15	ASSY, CAP, MILL OR BLACK	A300 SERIES AL
16	5/16" X 4 3/4" HWH LAG SCREW WITH EPDM WASHER	300 SERIES SS & EPDM

ALLOWABLE CAPACITY OF FF2 ANCHOR BASED ON RAFTER SPECIFIC GRAVITY		
WOOD SPECIFIC GRAVITY	ALLOWABLE UPLIFT CAPACITY (lb)	ALLOWABLE LATERAL CAPACITY (lb)
0.42	732	364
0.46	839	380
0.5	951	396
0.55	1097	416

SEE CHART ON SHEET 7 FOR ALLOWABLE WINDLOADS BASED ON RAFTER SPECIFIC GRAVITY.

Direct Tension/Uplift
(See Chart)



ANCHOR NOTES:

CAPACITIES APPLY TO RAFTER SIZER OF 2x4 OR GREATER, DECK THICKNESS OF 15/32" OR GREATER, AND LAG BOLTS SECURED WITHIN THE CENTER 1/3 OF RAFTER WITH 2 1/2" MIN. END DISTANCE.

REV #	DATE
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**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**

ALLOWABLE WINDLOADS (+/- psf)

TWO RAIL SYSTEM									THREE RAIL SYSTEM								
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	AIRE A1 RAIL			AIRE A2 RAIL			PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	AIRE A1 RAIL			AIRE A2 RAIL		
			ROOF RAFTER SPECIFIC GRAVITY			ROOF RAFTER SPECIFIC GRAVITY						ROOF RAFTER SPECIFIC GRAVITY			ROOF RAFTER SPECIFIC GRAVITY		
			SG=0.42	SG=0.46	SG=0.50	SG=0.42	SG=0.46	SG=0.50				SG=0.42	SG=0.46	SG=0.50	SG=0.42	SG=0.46	SG=0.50
45	67 1/2	16	72.9	83.5	94.7	72.9	83.5	94.7	45	67 1/2	16	109.4	125.3	142.1	109.4	125.3	142.1
		24	72.9	83.5	89.1	72.9	83.5	94.7			24	109.4	125.3	133.7	109.4	125.3	142.1
		32	72.9	79.6	79.6	72.9	83.5	94.7			32	109.4	119.4	119.4	109.4	125.3	142.1
		36	72.9	78.2	78.2	72.9	83.5	94.7			36	109.4	117.3	117.3	109.4	125.3	142.1
		48	64.5	64.5	64.5	72.9	83.5	94.7			48	96.8	96.8	96.8	109.4	125.3	142.1
		64	39.3	39.3	39.3	66.4	66.4	66.4			64	59.0	59.0	59.0	99.6	99.6	99.6
		72	31.3	31.3	31.3	54	54	54			72	47.0	47.0	47.0	81.0	81.0	81.0
	80	16	61.5	70.5	79.9	61.5	70.5	79.7		80	16	92.3	105.8	119.9	92.3	105.8	119.9
		24	61.5	70.5	75.2	61.5	70.5	79.9			24	92.3	105.8	112.8	92.3	105.8	119.9
		32	61.5	67.2	67.2	61.5	70.5	79.9			32	92.3	100.8	100.8	92.3	105.8	119.9
		36	61.5	66	66	61.5	70.5	79.9			36	92.3	99.0	99.0	92.3	105.8	119.9
		48	54.4	54.4	54.4	61.5	70.5	79.9			48	81.6	81.6	81.6	92.3	105.8	119.9
		64	33.2	33.2	33.2	56	56	56			64	49.8	49.8	49.8	84.0	84.0	84.0
		72	26.4	26.4	26.4	45.8	45.8	45.8			72	39.6	39.6	39.6	68.7	68.7	68.7
	86	16	57.2	65.6	74.3	57.2	65.6	74.3		86	16	85.8	98.4	111.5	85.8	98.4	111.5
		24	57.2	65.6	70	57.2	65.6	74.3			24	85.8	98.4	105.0	85.8	98.4	111.5
		32	57.2	62.5	62.5	57.2	65.6	74.3			32	85.8	93.8	93.8	85.8	98.4	111.5
		36	57.2	61.4	61.4	57.2	65.6	74.3			36	85.8	92.1	92.1	85.8	98.4	111.5
		48	50.6	50.6	50.6	57.2	65.6	74.3			48	75.9	75.9	75.9	85.8	98.4	111.5
		64	30.9	30.9	30.9	52.1	52.1	52.1			64	46.4	46.4	46.4	78.2	78.2	78.2
		72	24.5	24.5	24.5	42.4	42.4	42.4			72	36.8	36.8	36.8	63.6	63.6	63.6
	92 1/2	16	53.2	61	69.1	53.2	61	69.1		92 1/2	16	79.8	91.5	103.7	79.8	91.5	103.7
		24	53.2	61	65	53.2	61	69.1			24	79.8	91.5	97.5	79.8	91.5	103.7
		32	53.2	58.1	58.1	53.2	61	69.1			32	79.8	87.2	87.2	79.8	91.5	103.7
36		53.2	57.1	57.1	53.2	61	69.1	36	79.8		85.7	85.7	79.8	91.5	103.7		
48		47	47	47	53.2	61	69.1	48	70.5		70.5	70.5	79.8	91.5	103.7		
64		28.7	28.7	28.7	48.4	48.4	48.4	64	43.1		43.1	43.1	72.6	72.6	72.6		
72		22.8	22.8	22.8	39.4	39.4	39.4	72	34.2		34.2	34.2	59.1	59.1	59.1		
LANDSCAPE LAYOUT:																	
45	92 1/2	16	53.2	61	69.1	53.2	61	69.1	45	92 1/2	16	79.8	91.5	103.65	79.8	91.5	103.7
		24	53.2	61	69.1	53.2	61	69.1			24	79.8	91.5	103.65	79.8	91.5	103.7
		32	53.2	55.3	55.3	53.2	61	69.1			32	79.8	82.95	82.95	79.8	91.5	103.7
		36	48.4	48.4	48.4	53.2	61	69.1			36	72.6	72.6	72.6	79.8	91.5	103.7
		48	32.2	32.2	32.2	53.2	54.6	54.6			48	48.3	48.3	48.3	79.8	81.9	81.9
		64	28.4	28.4	28.4	48.4	48.4	48.4			64	42.6	42.6	42.6	72.6	72.6	72.6
		72	27.7	27.7	27.7	48.4	48.4	48.4			72	41.6	41.55	41.55	72.6	72.6	72.6

DATE: 12/30/22

REV.#

JST SUBMITTAL PRINTS ISSUED FOR

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

IRONRIDGE

28357 INDUSTRIAL BLVD.
HAYWARD, CA 94545

PHONE: (800) 227-9523
info@ironridge.com

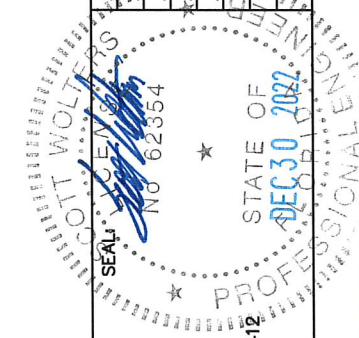
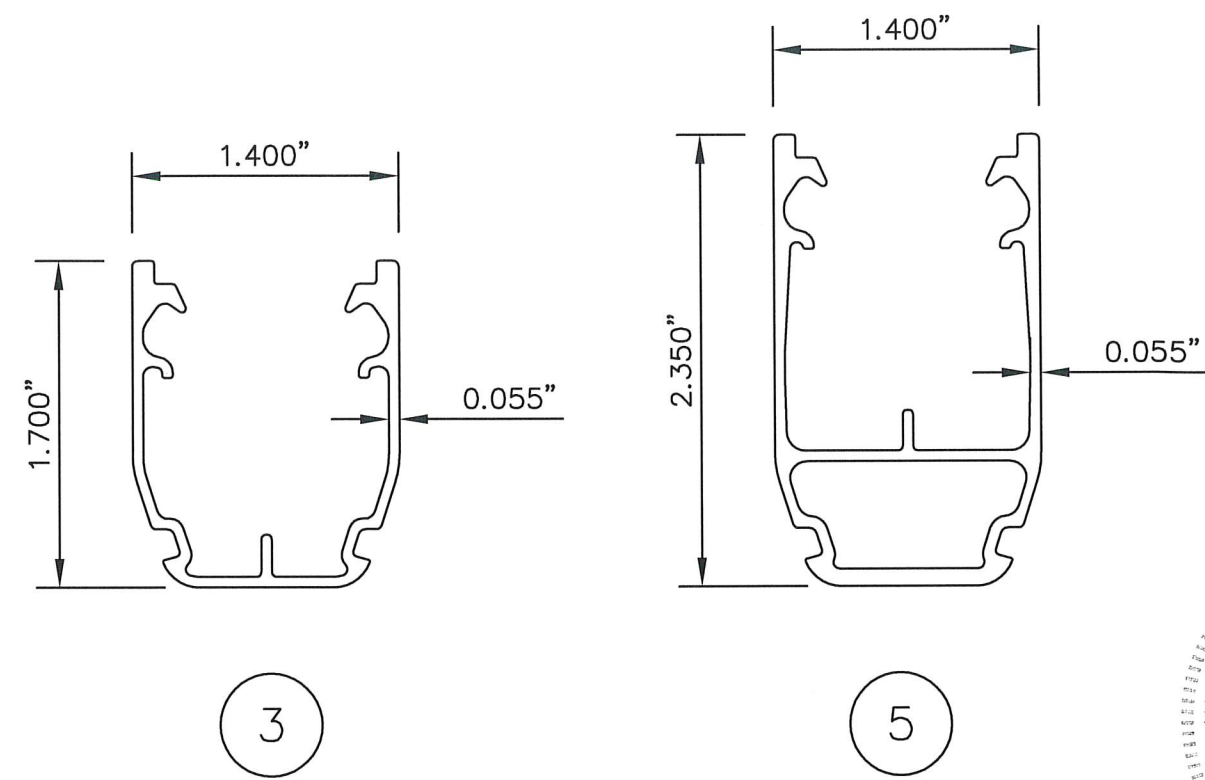
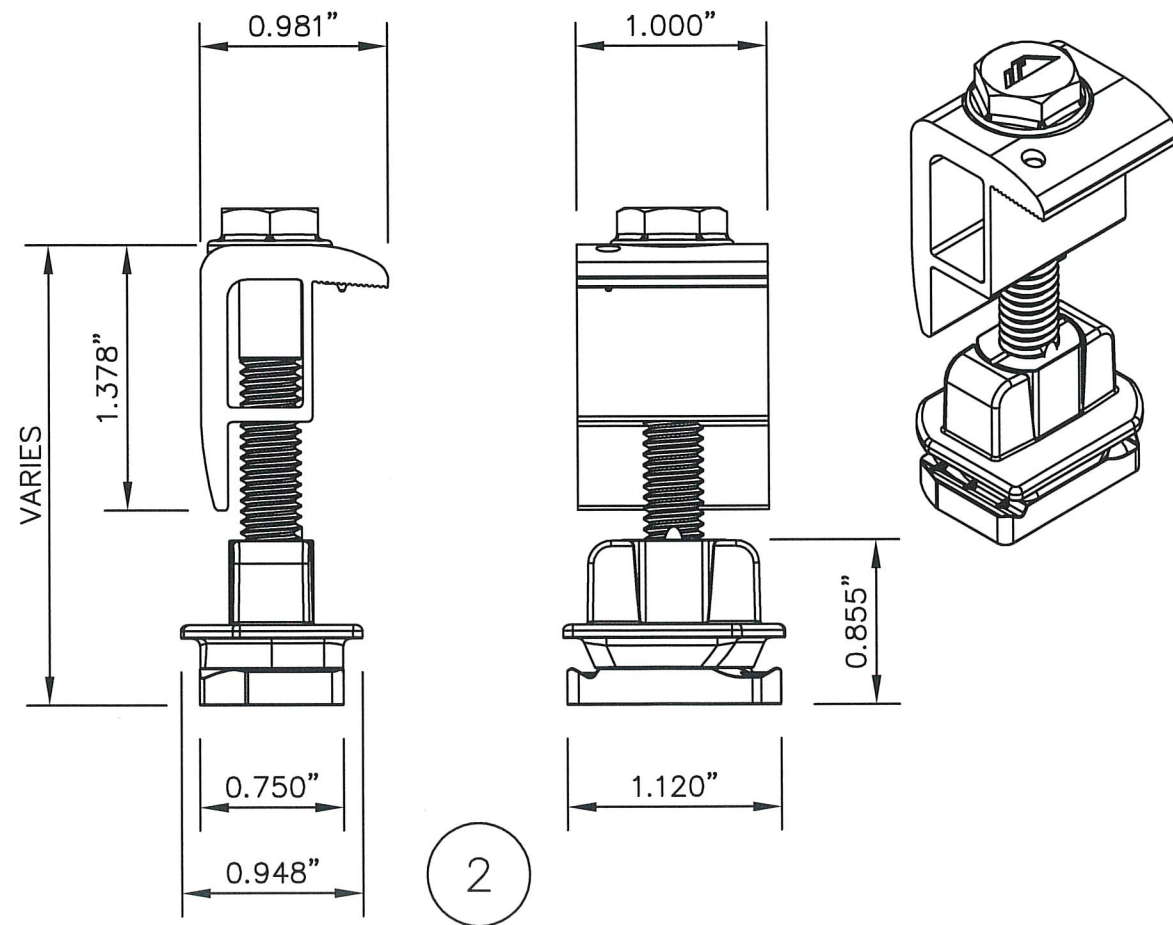
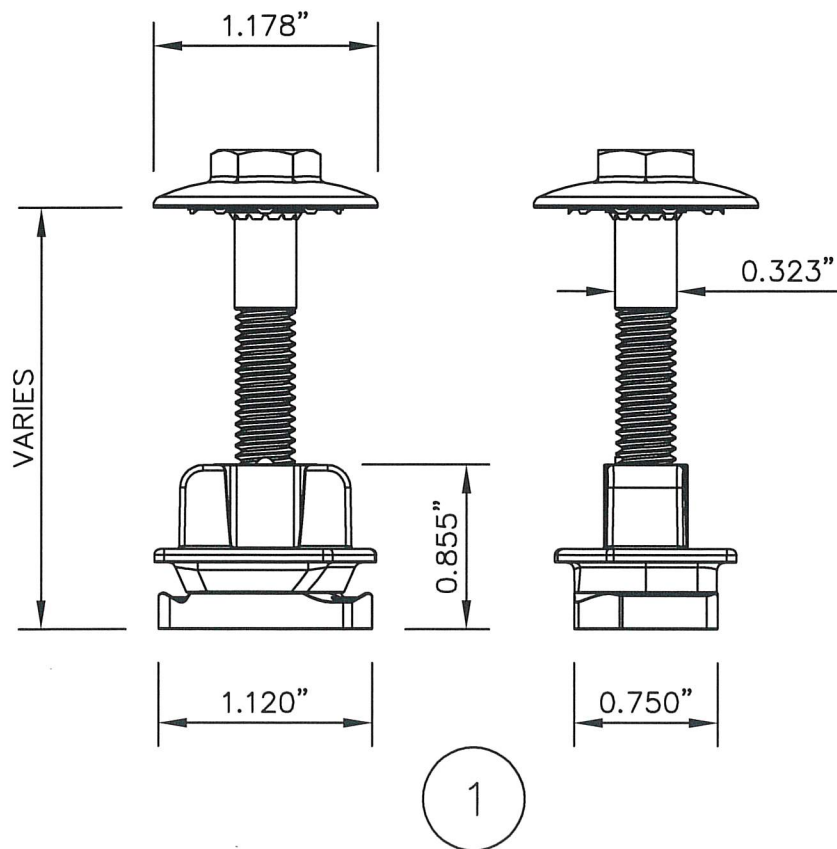
DWG: **AIRE-FF2**

SHEET: **7/10**

**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**

BILL OF MATERIALS- Aire System		
#	DESCRIPTION	MATERIALS/NOTES
1	AIRE LOCK MID-CLAMP ASSEMBLY	6000 SERIES AL & 300 SERIES SS
2	AIRE LOCK END-CLAMP ASSEMBLY	6000 SERIES AL & 300 SERIES SS
2A	AIRE LOCK STEALTH END-CLAMP ASSEMBLY	6000 SERIES AL & 300 SERIES SS
3	A1 RAIL	6000 SERIES AL
4	A1 TIE (SPLICE)	6000 SERIES AL & 300 SERIES SS
5	A2 RAIL	6000 SERIES AL
6	A2 TIE (SPLICE)	6000 SERIES AL & 300 SERIES SS
7	AIRE RAIL DOCK ASSEMBLY WITH 3/8" X 1 3/4" HWH CAP SCREW	6000 SERIES AL & 300 SERIES SS
8	A1 END CAP (OPTIONAL)	POLYMERIC
9	A2 END CAP (OPTIONAL)	POLYMERIC
10	CONTOUR CLAMP ASSEMBLY (OPTIONAL)	6000 SERIES AL & 300 SERIES SS
11	CONTOUR TRIM (OPTIONAL)	6000 SERIES AL

FOR 6000 SERIES EXTRUSIONS $F_{UT}=38$ ksi min, $F_y=34$ ksi min.
FOR 300 SERIES STAINLESS STEEL $F_y=65$ ksi min



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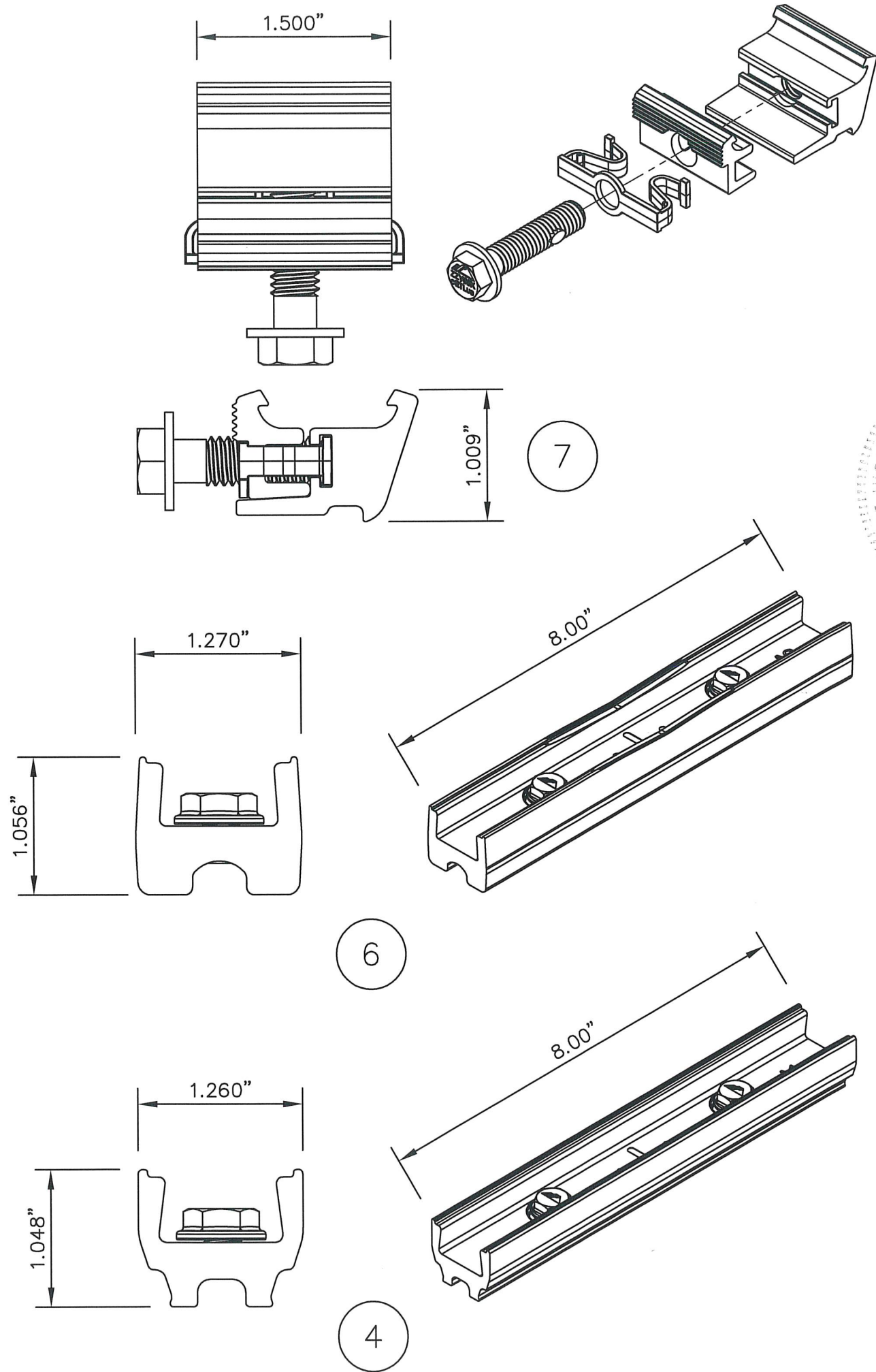
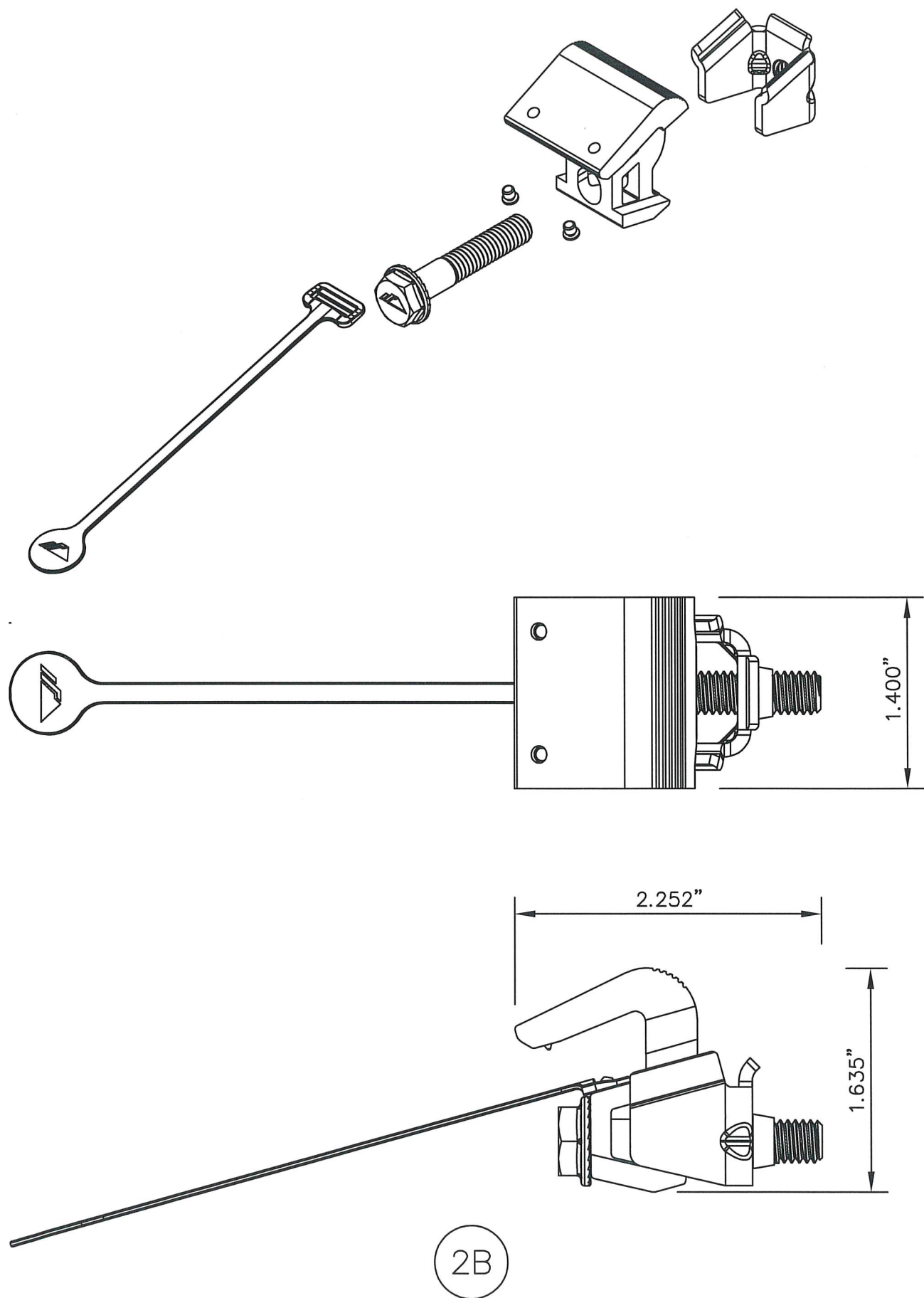


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DWG: AIRE-FF2
SHEET: 8/10

REV.#	DATE
1	12/30/22

**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**



DATE	12/30/22
REV.#	
ISSUED FOR	PRINTS

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
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WEST PALM BEACH, FL 33412
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEAL: SCOTT WOLTERS
No. 62354
DEC 30 2022

IRONRIDGE

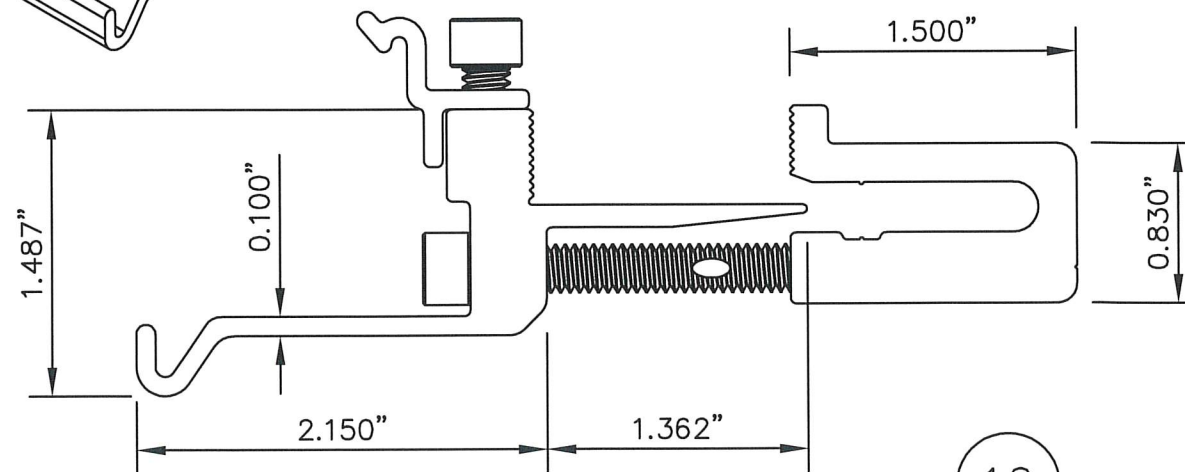
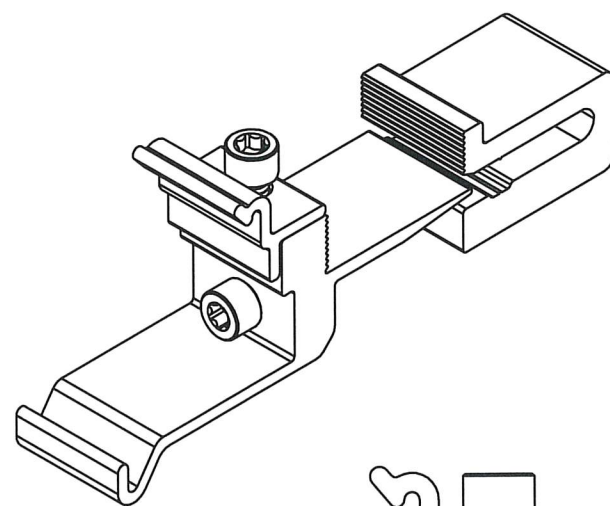
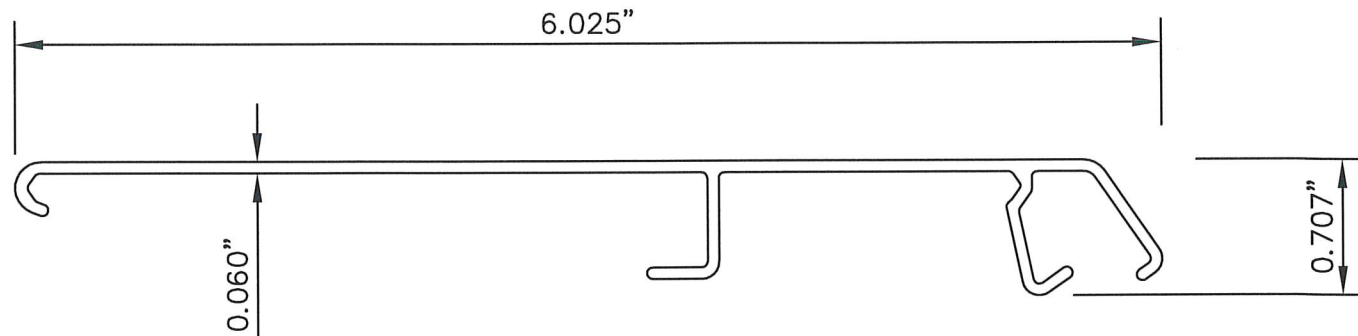
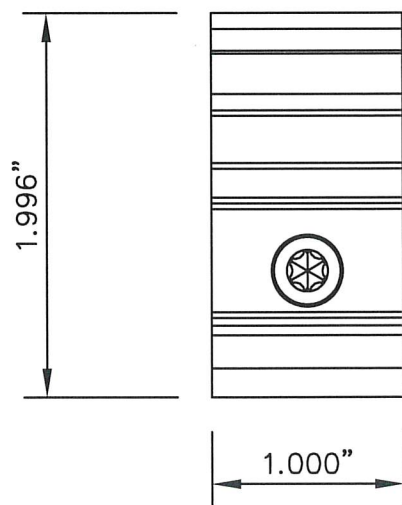
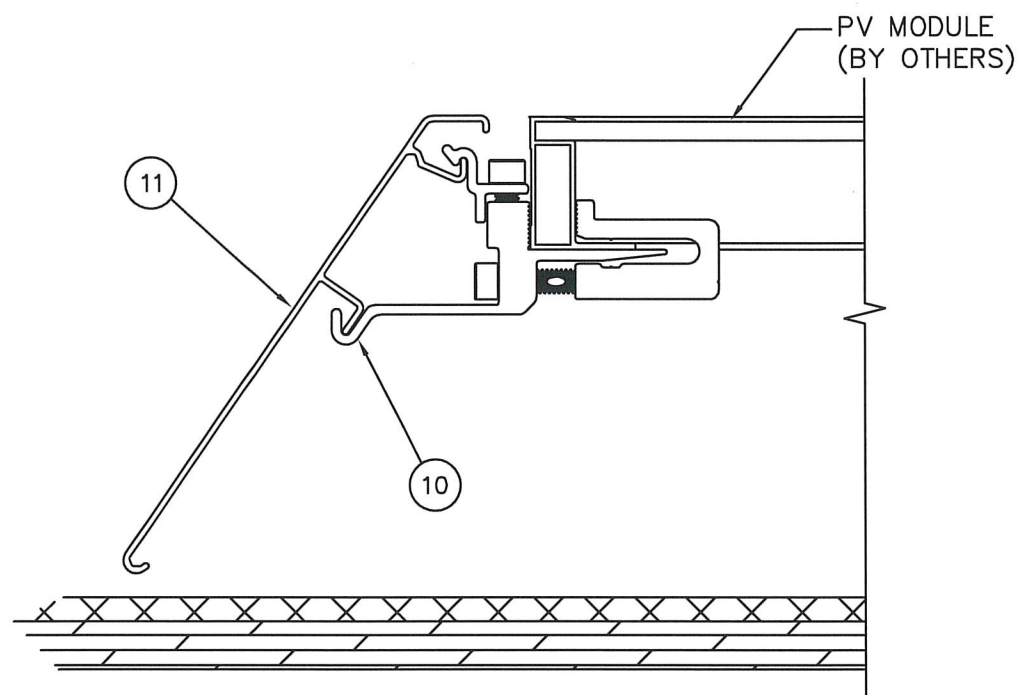
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DWG: AIRE-FF2
SHEET: 9/10

**IRONRIDGE AIRE PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH IRONRIDGE FLASHFOOT2 ROOF ATTACHMENTS**

OPTIONAL CONTOUR TRIM:



DATE	12/30/22
REV #	1
ISSUED FOR	PRINTS
REV #	1
ISSUED FOR	1ST SUBMITTAL

SEAL: SCOTT WOLTERS, No. 62354, STATE OF FLORIDA, PROFESSIONAL ENGINEER, DEC 30 2022

SCOTT WOLTERS
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WOLTERS ENGINEERING
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DWG: **AIRE-FF2**
SHEET: **10/10**