## IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM WITH QUICKMOUNT L-MOUNT ROOF ATTACHMENTS

## GENERAL NOTES:

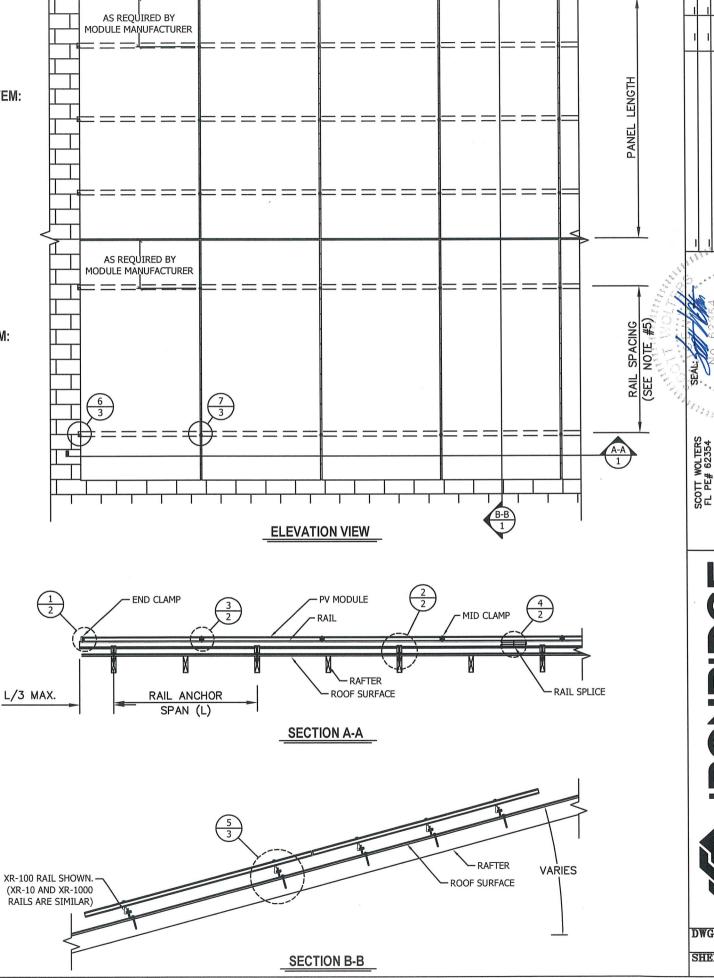
- 1. THIS SYSTEM MEETS ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
- 2. THIS SYSTEM HAS BEEN TESTED PER TAS 100(A) AND ASTM D7147. IT IS NOT A PART OF THE BUILDING ENVELOPE, AND IMPACT RESISTANCE IS NOT REQUIRED.
- 3. THIS SYSTEM SHALL BE INSTALLED PER THE IRONRIDGE XR FLUSH MOUNT INSTALLATION MANUAL.
- 4. THE PV PANELS ARE BY OTHERS AND ARE NOT A PART OF THIS APPROVAL.
- 5. RAIL SPACING TO BE AS SPECIFIED BY THE PV PANEL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 6. 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.
- 7. FIRE RATINGS OR FIRE RESISTANCE IS NOT A PART OF THIS REVIEW.
- 8. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
- 9. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PROTECTED PER FBC REQUIREMENTS.
- 10. 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:

- 1. DESIGN WINDLOADS MUST BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT, PER ASCE 7-22 SECTION 29.4.4. DESIGN (ASD) WINDLOADS MAY NOT EXCEED THE ALLOWABLE WINDLOADS SHOWN IN THIS CHART.
- 2. PANEL SYSTEM LOCATION, HEIGHT, AND SPACING MUST MEET THE REQUIREMENTS OF ASCE 7-22 SECTION 29.4.4. WINDLOADS ACT NORMAL TO THE SURFACE OF THE PV PANEL SYSTEM.

THREE RAIL SYSTEM:

SECTION 29.4.4. WINDLOADS ACT NORMAL TO THE SURFACE OF THE PV PANEL SYSTEM.  3. OTHER CONFIGURATIONS REQUIRE PROJECT SPECIFIC ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT.											TWO RAIL SYSTEM		
			DS ARE BASE		ORING IN WOO				IIN.			and the state of t	
				Α	LLOWABL	ΕV	VINDLOAI	os					
TWO RAIL SYSTEM							THREE RAIL SYSTEM						
PANEL	PANEL	ANCHOR	XR-10	XR-100	XR-1000		PANEL	PANEL	ANCHOR	XR-10	XR-100	XR-1000	
WIDTH	LENGTH	SPAN (L)	RAIL	RAIL	RAIL		WIDTH	LENGTH	SPAN (L)	RAIL	RAIL	RAIL	
(in)	(in)	(in)	(+/- psf)	(+/- psf)	(+/- psf)		(in)	(in)	(in)	(+/- psf)	(+/- psf)	(+/- psf)	
		16	90	90	90			67 1/2	16	135.0	135.0	135.0	
		24	65.4	90	90				24	98.1	135.0	135.0	
		32	56.1	90	90				32	84.2	135.0	135.0	
	67 1/2	36	49.9	90	90				36	74.9	135.0	135.0	
		48	37.4	85.6	90				48	56.1	128.4	135.0	
		64	28.1	64.2	68.4				64	42.2	96.3	102.6	
		72	23.7	54	59.5				72	35.6	81.0	89.3	
		16	75.9	75.9	75.9			80	16	113.9	113.9	113.9	
	1	24	55.2	75.9	75.9				24	82.8	113.9	113.9	
	80	32	47.3	75.9	75.9				32	71.0	113.9	113.9	
		36	42.1	75.9	75.9				36	63.2	113.9	113.9	
		48	31.6	72.2	75.9				48	47.4	108.3	113.9	
		64	23.7	54.2	57.7				64	35.6	81.3	86.6	
		72	20	45.6	50.2				72	30.0	68.4	75.3	
45		16	70.6	70.6	70.6		. 45		16	105.9	105.9	105.9	
	86	24	51.3	70.6	70.6			92 1/2	24	77.0	105.9	105.9	
		32	44	70.6	70.6				32	66.0	105.9	105.9	
		36	39.1	70.6	70.6				36	58.7	105.9	105.9	
		48	29.4	67.2	70.6				48	44.1	100.8	105.9	
		64	22	50.4	53.7				64	33.0	75.6	80.6	
		72	18.6	42.4	46.7				72	27.9	63.6	70.1	
		16	65.7	65.7 65.7	65.7				16	98.6	98.6	98.6	
		24	47.7	65.7	65.7				24	71.6	98.6	98.6	
	00.4/0	32	40.9	65.7	65.7				32	61.4	98.6	98.6	
	92 1/2	36	36.4	65.7	65.7				36	54.6	98.6	98.6	
		48	27.3	62.5	65.7				48	41.0	93.8	98.6	
		64	20.5	46.9	49.9				64	30.8	70.4	74.9	
LANDOGA	DE LAVOUT	72	17.3	39.4	43.4		L		72	26.0	59.1	65.1	
LANDSCA	PE LAYOUT		65.7	GE 7	65.7		Т		16	00.6	00.6	00.6	
45	92 1/2	16	65.7 52.9	65.7 65.7	65.7 65.7		45	92 1/2	16	98.6	98.6	98.6	
		24		2. 25.20.30					24	79.4	98.6	98.6	
		32	40.8	65.7	65.7				32	61.2	98.6	98.6	
		36	36	65.7	65.7				36	54.0	98.6	98.6	
		48	24.2	55 46.0	65.7				48	36.3	82.5	98.6	
		64	20.5	46.9	65.7				64	30.8	70.4	98.6	
		72	18.2	41.7	65.7				72	27.3	62.6	98.6	



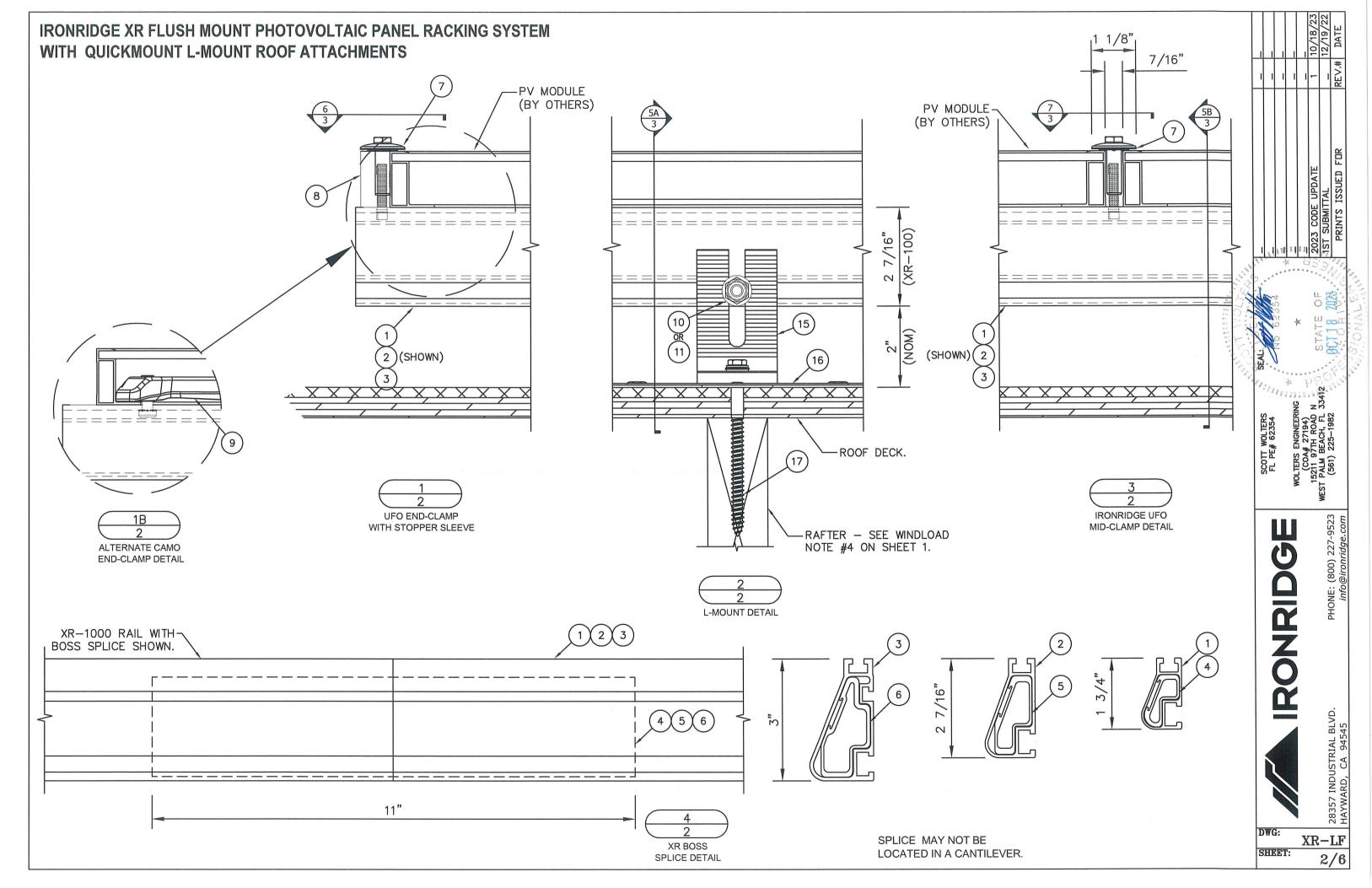
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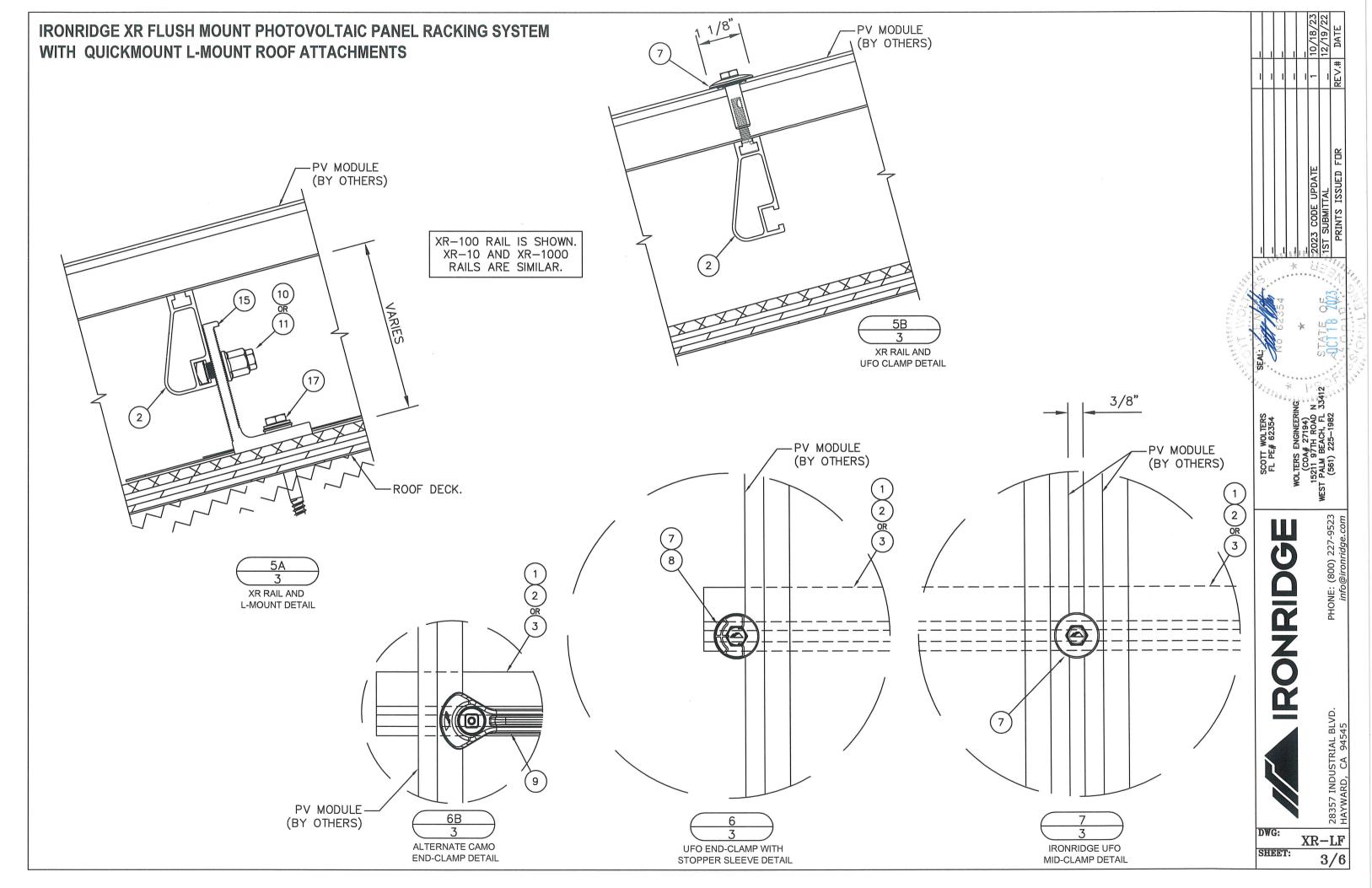
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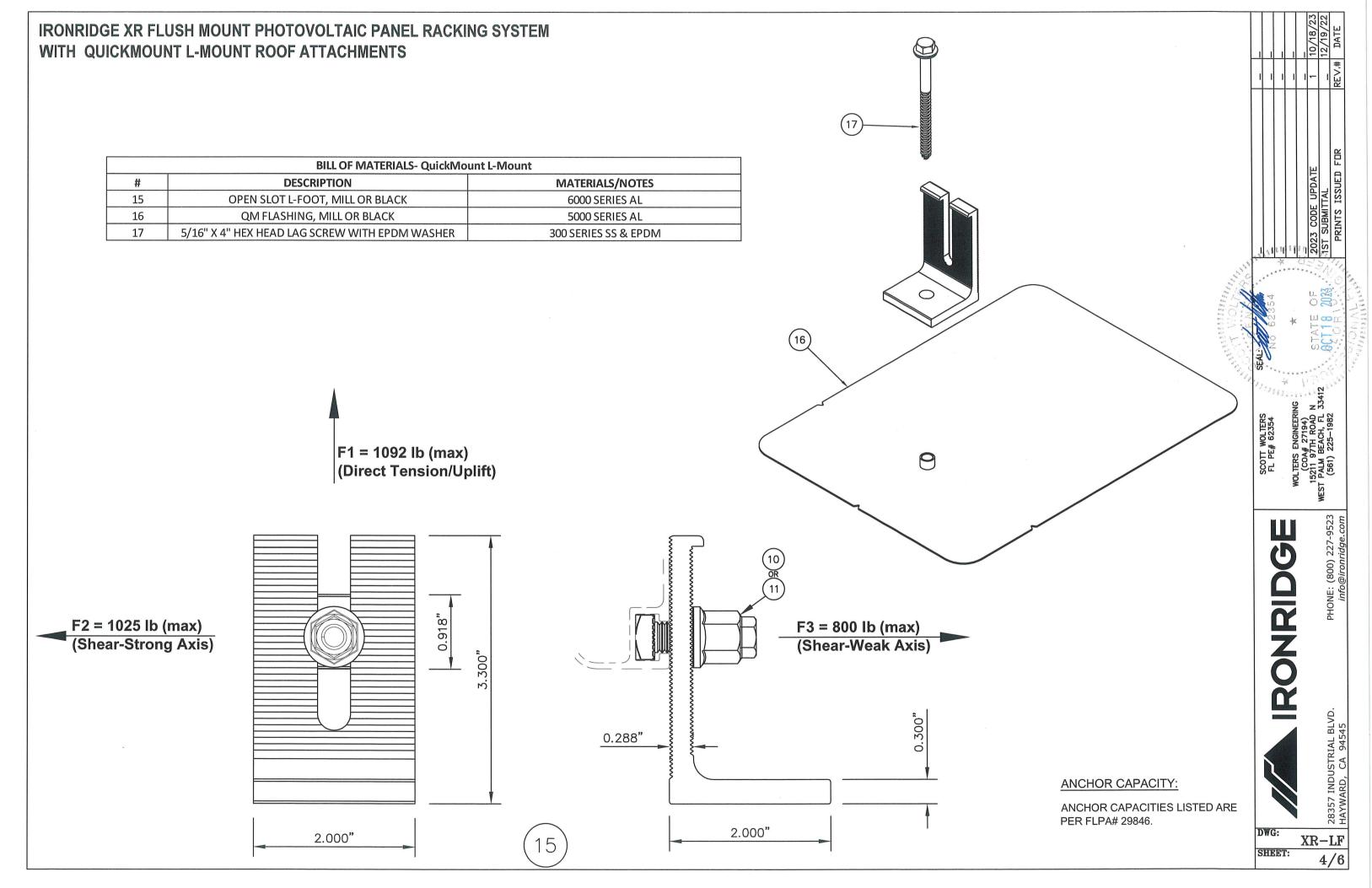
XR-LF

1/6

PANEL WIDTH





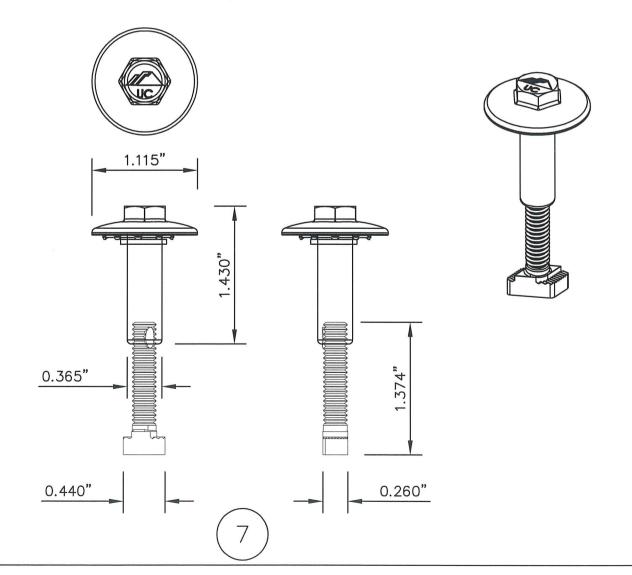


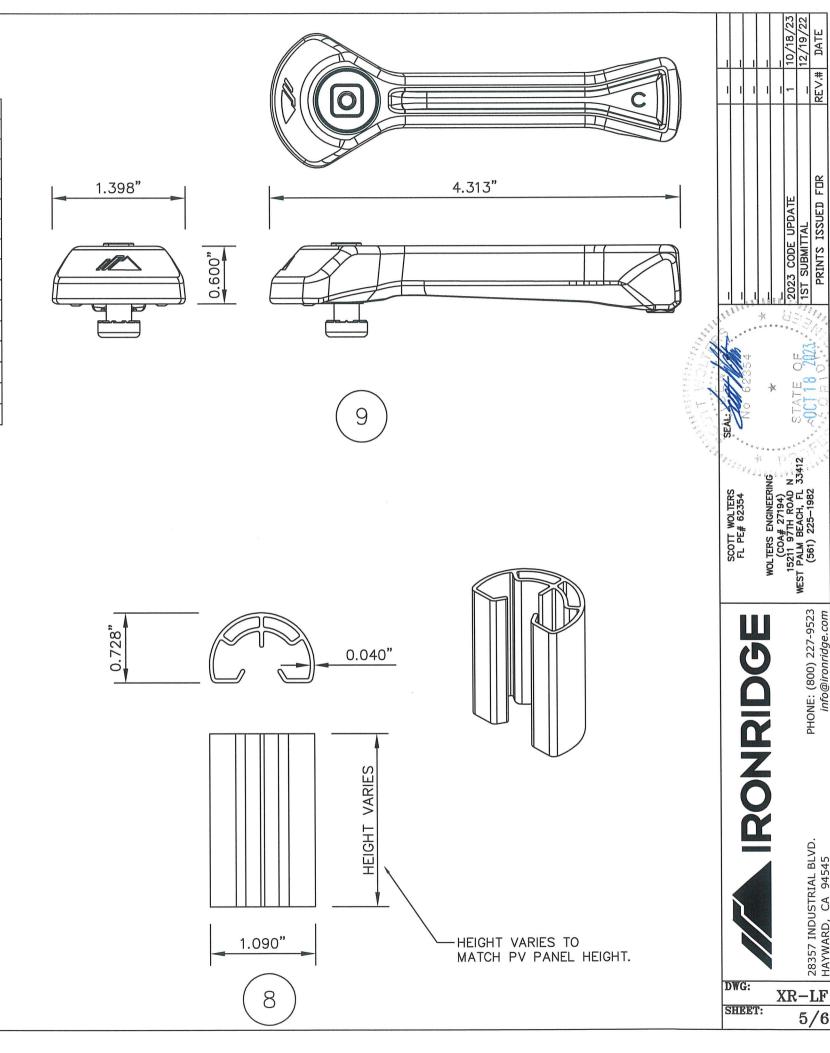
## IRONRIDGE XR FLUSH MOUNT PHOTOVOLTAIC PANEL RACKING SYSTEM WITH QUICKMOUNT L-MOUNT ROOF ATTACHMENTS

BILL OF MATERIALS- XR System							
#	DESCRIPTION	MATERIALS/NOTES					
1	XR-10 RAIL	6000 SERIES AL					
2	XR-100 RAIL	6000 SERIES AL					
3	XR-1000 RAIL	6000 SERIES AL					
4	XR-10 BOSS SPLICE	6000 SERIES AL & 300 SERIES SS					
5	XR-100 BOSS SPLICE	6000 SERIES AL & 300 SERIES SS					
6	XR-1000 BOSS SPLICE	6000 SERIES AL & 300 SERIES SS					
7	UFO UNIVERSAL MODULE CLAMP	300 SERIES SS					
8	STOPPER SLEEVE	6000 SERIES AL					
9	CAMO HIDDEN END CAM	300 SERIES AL & 300 SERIES SS					
10	3/8" X 1" SQUARE BOLT BONDING HARDWARE	300 SERIES SS					
11	3/8" X 1" T-BOLT BONDING HARDWARE	300 SERIES SS					
12	XR-10 RAIL END CAP (OPTIONAL)	POLYMERIC					
13	XR-100 RAIL END CAP (OPTIONAL)	POLYMERIC					
14	XR-1000 RAIL END CAP (OPTIONAL)	POLYMERIC					

FOR 6000 SERIES EXTRUSIONS F<sub>UT</sub>=38 ksi min, F<sub>Y</sub>=34 ksi min.

FOR 300 SERIES STAINLESS STEEL F<sub>Y</sub>=65 ksi min.





5/6

