

ECOFASTEN ROCKIT RAIL-LESS PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH ECOFASTEN GF1 COMP SLIDE ROOF ATTACHMENTS

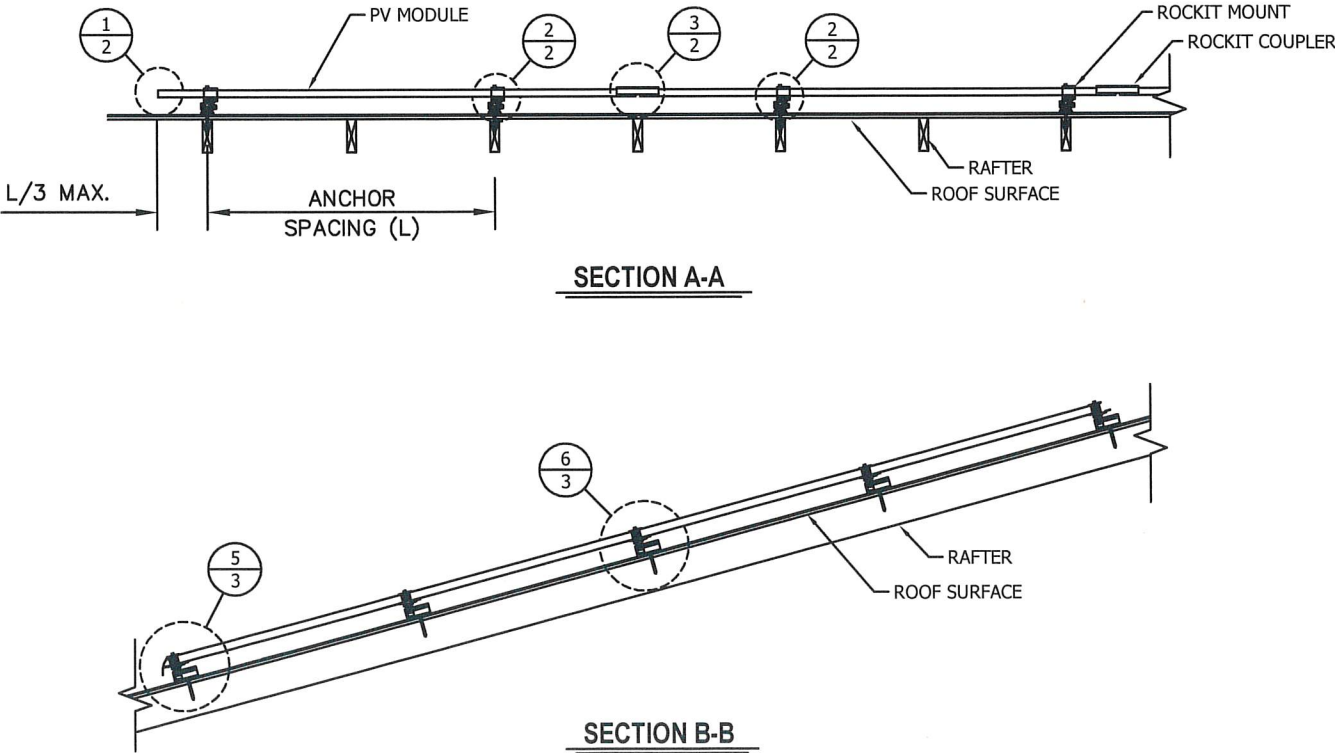
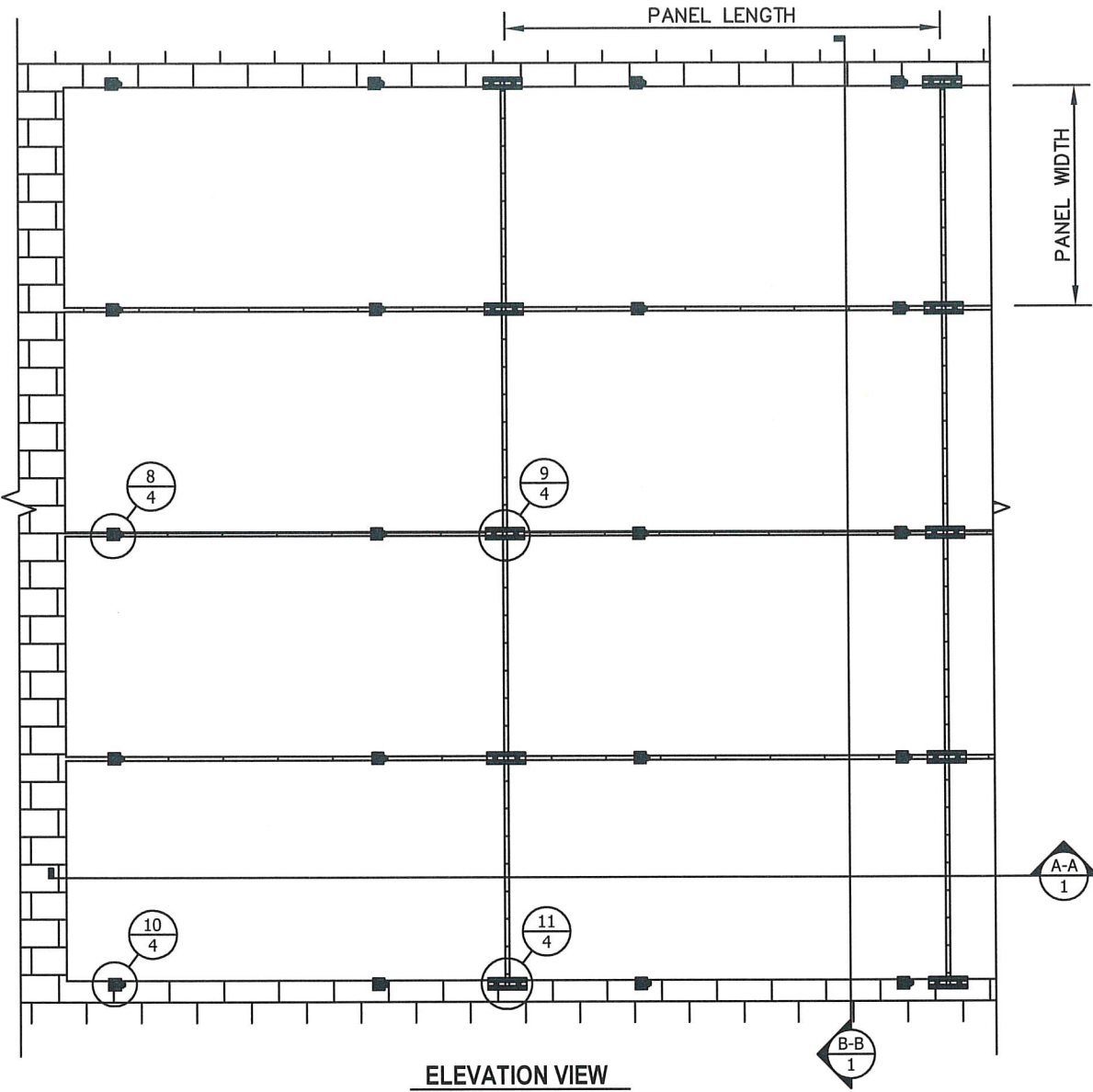
GENERAL NOTES:

- 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 ECOFASTEN ROCKIT INSTALLATION MANUAL.
- 4. THIS SYSTEM IS DESIGNED TO WORK WITH SEVERAL TYPES OF PV PANELS. THE DESIGN OF THE PANELS IS BY OTHERS AND IS NOT A PART OF THIS APPROVAL.
- 5. 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.
- 6. FIRE RATINGS OR FIRE RESISTANCE IS NOT A PART OF THIS REVIEW.
- 7. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
- 8. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PROTECTED PER FBC REQUIREMENTS.
- 9. 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. (ASD) DESIGN WINDLOADS MAY NOT EXCEED THE ALLOWABLE WINDLOADS SHOWN IN THE CHART BELOW.
- 2. THE ALLOWABLE LOADS (ASD) FOR THE ROCKIT SYSTEM COMPONENTS ARE LISTED BELOW. THE ENGINEER OF RECORD (EOR) OR THE AUTHORITIES HAVING JURISDICTION (AHJ) MUST VERIFY THE PV PANELS USED WITH THIS PRODUCT WILL MEET THE LOAD REQUIREMENTS OF EACH PROJECT WHEN INSTALLED AS PART OF A RAIL-LESS SYSTEM.
- 3. 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.
- 4. ALLOWABLE WINDLOADS ARE BASED ON ANCHORING IN WOOD RAFTERS WITH S.G.=0.42 MIN.

ALLOWABLE WINDLOADS							
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	ROCKIT MOUNT WITH GF1 COMP SLIDE (psf)	PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	ROCKIT MOUNT WITH GF1 COMP SLIDE (psf)
LANDSCAPE LAYOUT:				PORTRAIT LAYOUT:			
41.5	86	16	136.7	45	67.5	16	84.0
		24	91.6			24	56.3
		32	69.4			32	42.6
		36	61.4			36	37.7
		48	45.8			48	28.1
		60	36.8	45	80	16	70.9
45	92.5	64	34.3			24	47.5
		72	30.5			32	36.0
		16	126.1			36	31.8
		24	84.5			48	23.7
		32	64.0	45	86	16	66.0
		36	56.6			24	44.2
		48	42.2			32	33.5
		60	33.9			36	29.6
		64	31.7			48	22.1
		72	28.1				



10/18/23

8/15/22

REV#

DATE

2023 CODE UPDATE

1ST SUBMITTAL

PRINTS ISSUED FOR

SEAL: SCOTT WOLTERS

No. 62354

OCT 18 2023

STATE OF FLORIDA

PROFESSIONAL ENGINEER

SCOTT WOLTERS

FL PE# 62354

WOLTERS ENGINEERING

(COA# 27194)

15211 97TH ROAD, N 33412

WEST PALM BEACH, FL

(561) 225-1982

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PHOENIX, AZ 85009

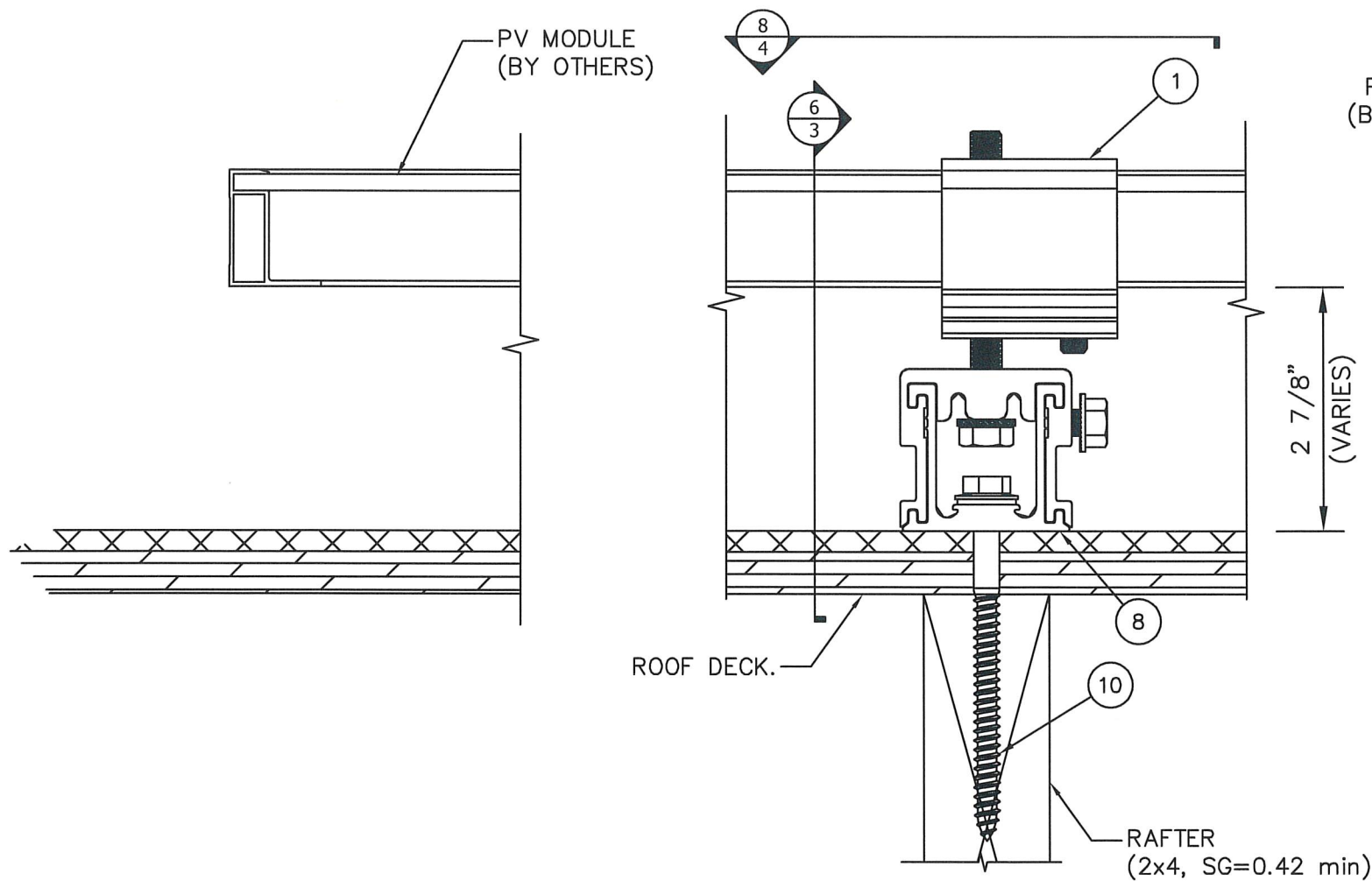
PHONE (877) 859-3947

info@ecofastensolar.com

DWG: ROCKIT-GF1

SHEET: 1/6

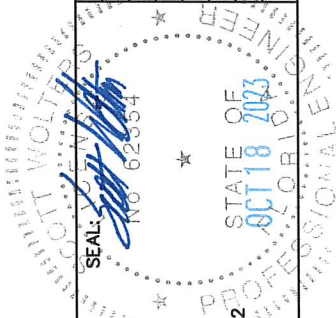
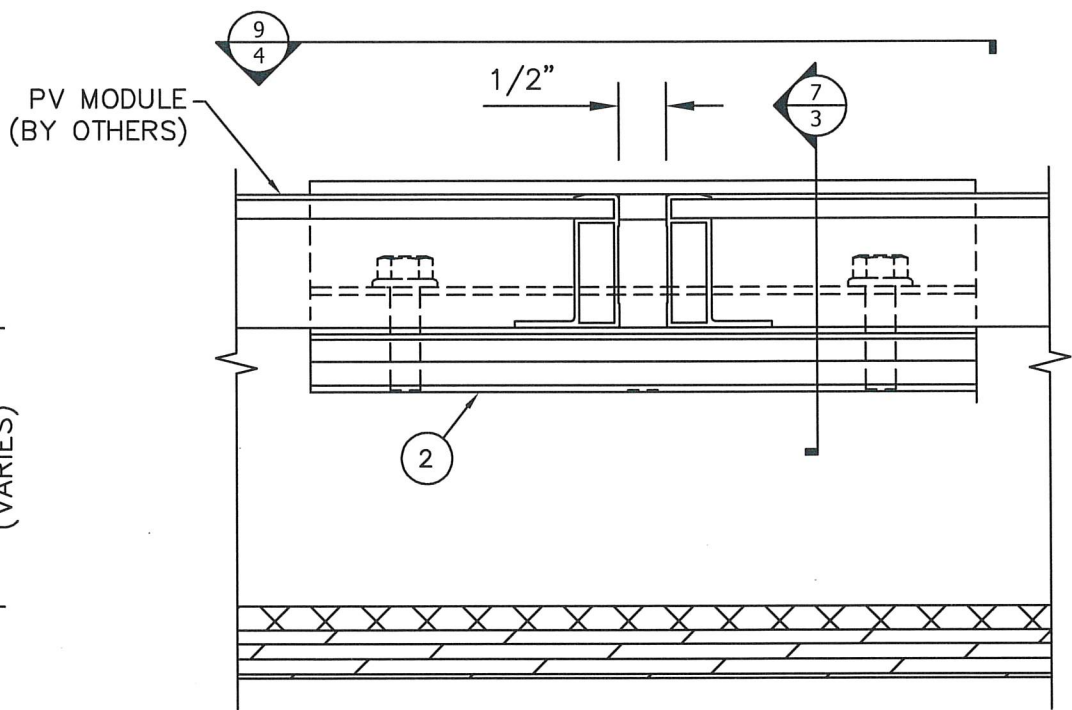
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1
2
CANTILEVERED
PANEL DETAIL

2
2
ROCKIT MOUNT
DETAIL

3
2
ROCKIT COUPLING
DETAIL



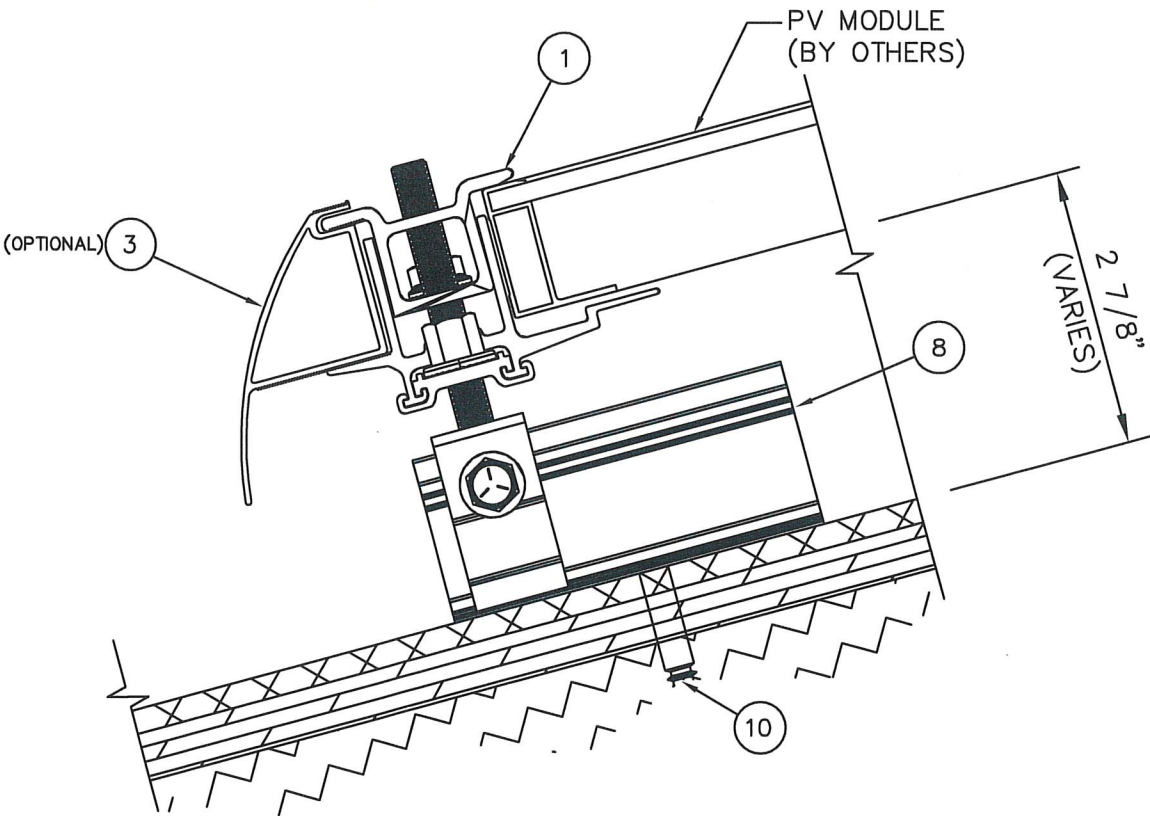
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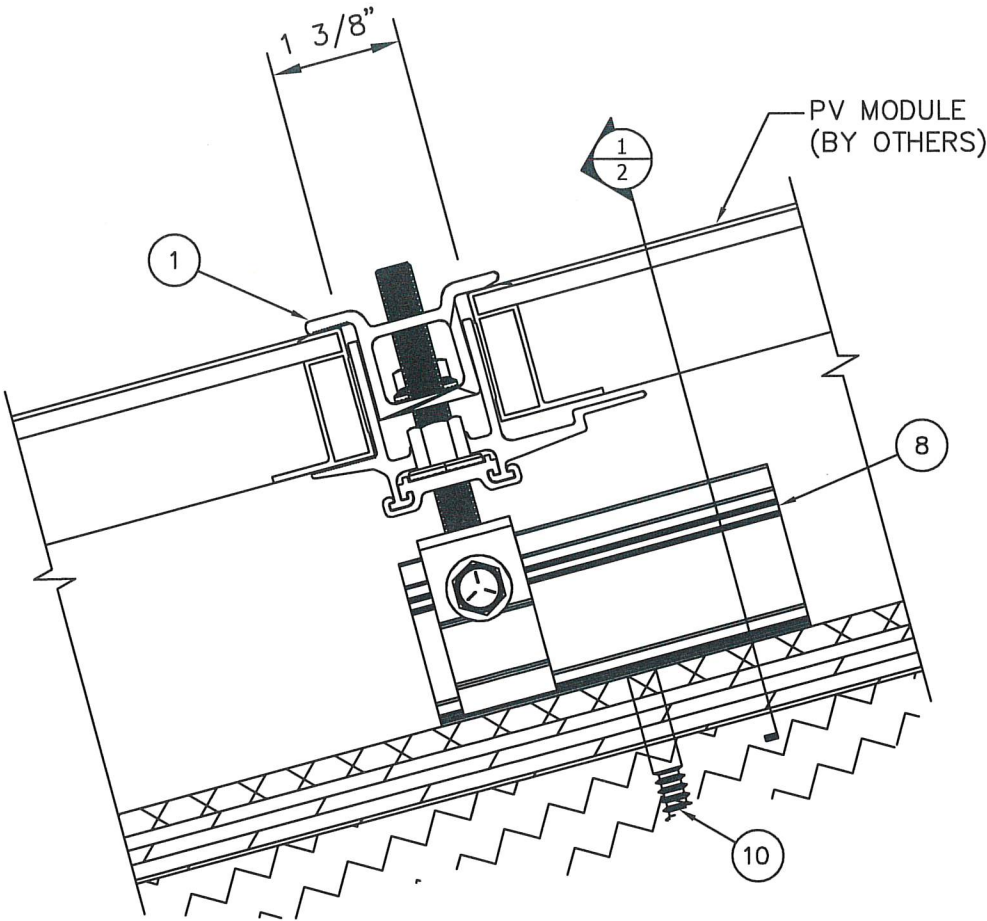
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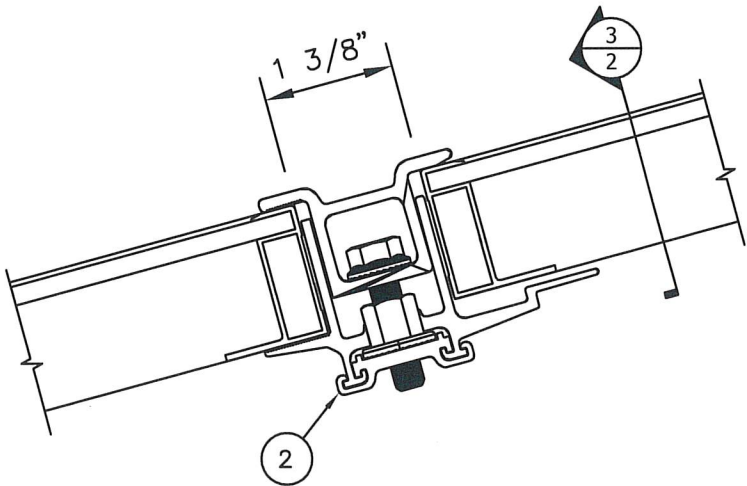
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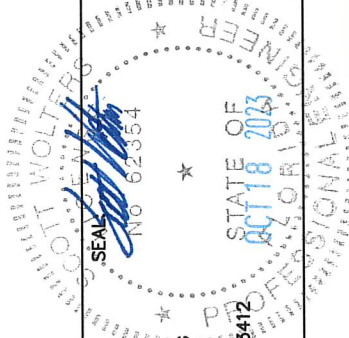
5/3
ROCKIT MOUNT
AND GF1 COMP SLIDE



6/3
ROCKIT MOUNT
AND GF1 COMP SLIDE



7/3
ROCKIT COUPLING
DETAIL



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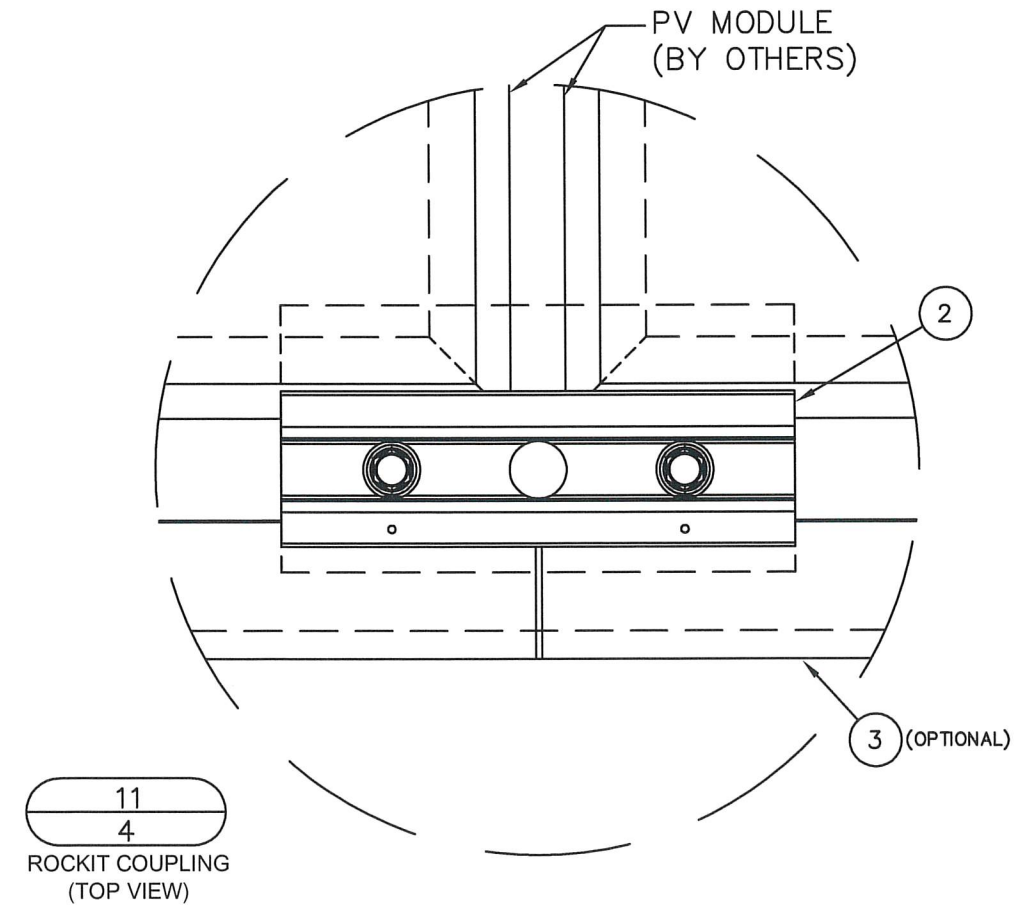
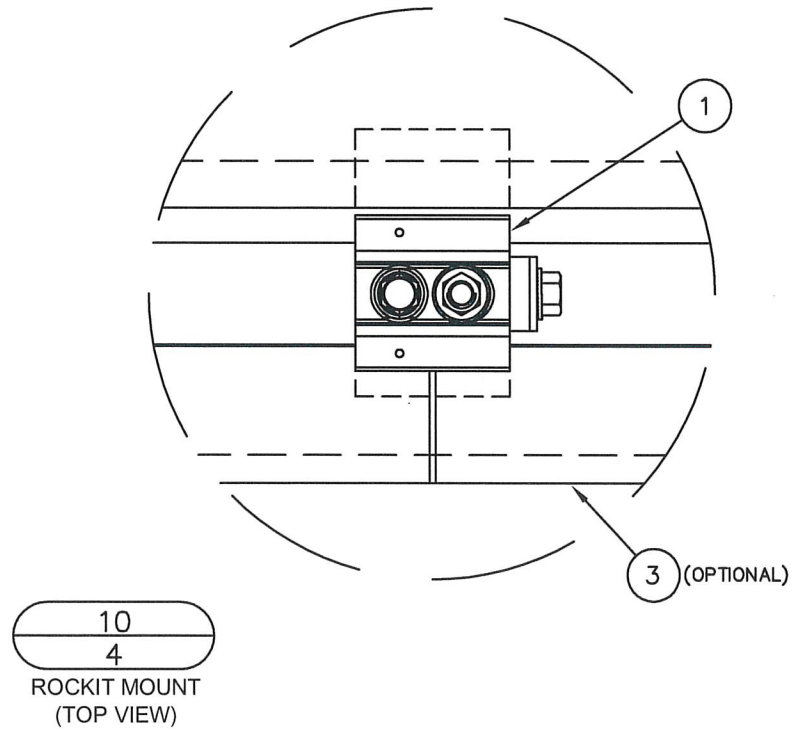
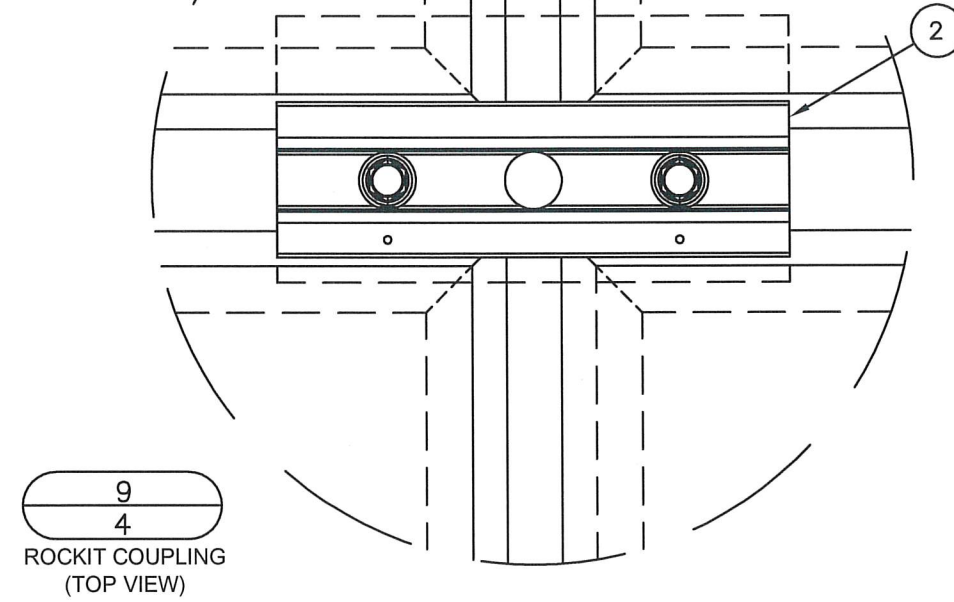
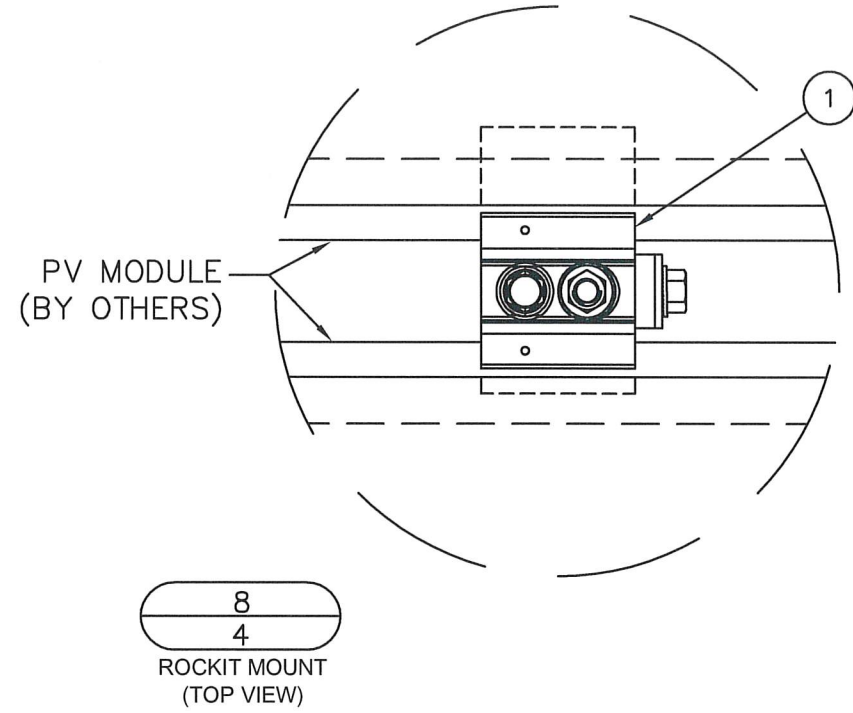


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DWG: ROCKIT-GF1
SHEET: 3/6

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STATE OF
OCT 16 2013

NO 62354

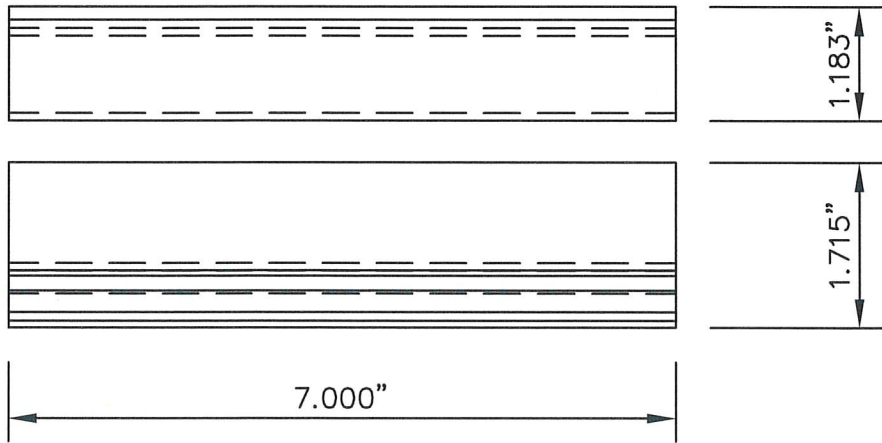
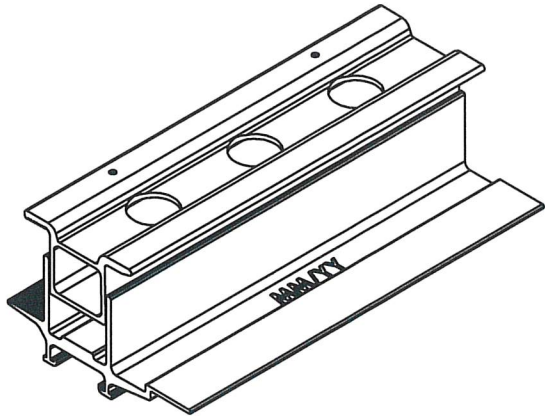
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2023 CODE UPDATE	1	10/18/23		
1ST SUBMITTAL	—	8/15/22		
PRINTS ISSUED FOR	REV.#	DATE		

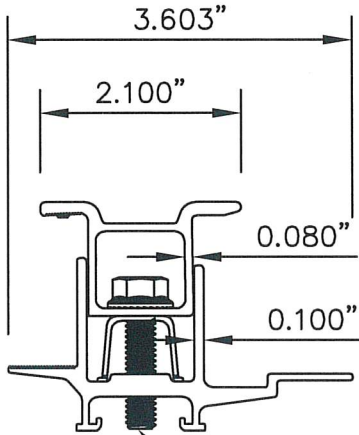
DWG:	ROCKIT-GF1
SHEET:	4/6

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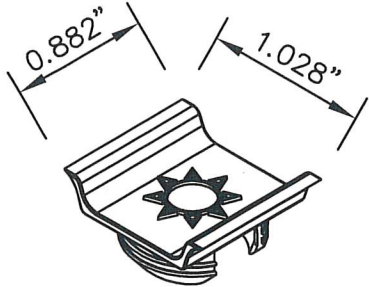
BILL OF MATERIALS- ROCKIT SYSTEM		
#	DESCRIPTION	MATERIALS/NOTES
1	ROCKIT MOUNT ASSEMBLY	6000 SERIES ALUMINUM & 300 SERIES STAINLESS & POLYMERIC
2	ROCKIT COUPLING ASSEMBLY	6000 SERIES ALUMINUM & 300 SERIES STAINLESS & POLYMERIC
3a	ROCKIT SKIRT 35MM&40MM AXX	6000 SERIES ALUMINUM
3b	ROCKIT SKIRT 32MM&38MM BXX	6000 SERIES ALUMINUM
3c	ROCKIT SKIRT 30MM CXX	6000 SERIES ALUMINUM
4	ROCKIT SKIRT END CAP	POLYMERIC
5	ROCKIT COUPLING FOOT ASSEMBLY (OPTIONAL)	POLYMERIC
6	ROCKIT MID CLAMP CAP PLUG (OPTIONAL)	POLYMERIC



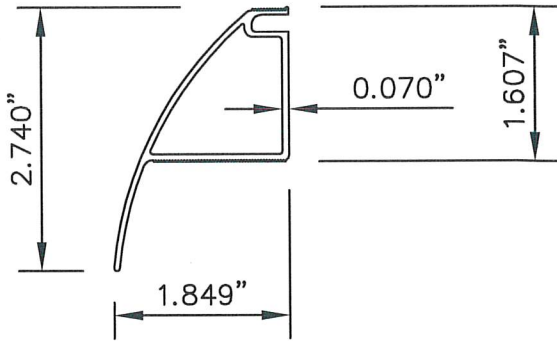
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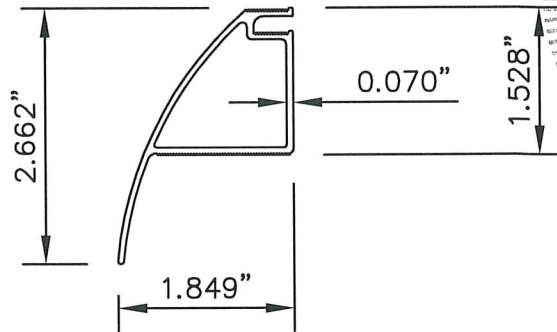
5/16"x1 1/4" HH FLANGE
BOLTS (300 SERIES SS,
Fut=100 ksi min)



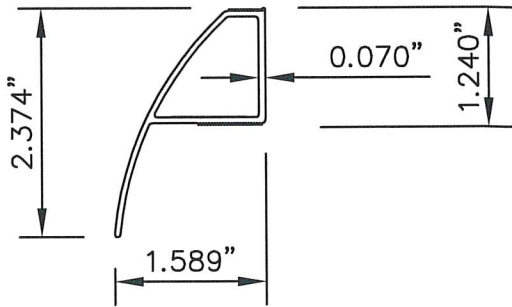
6



3A



3B



3C

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OCT 18 2023
PROFESSIONAL ENGINEER

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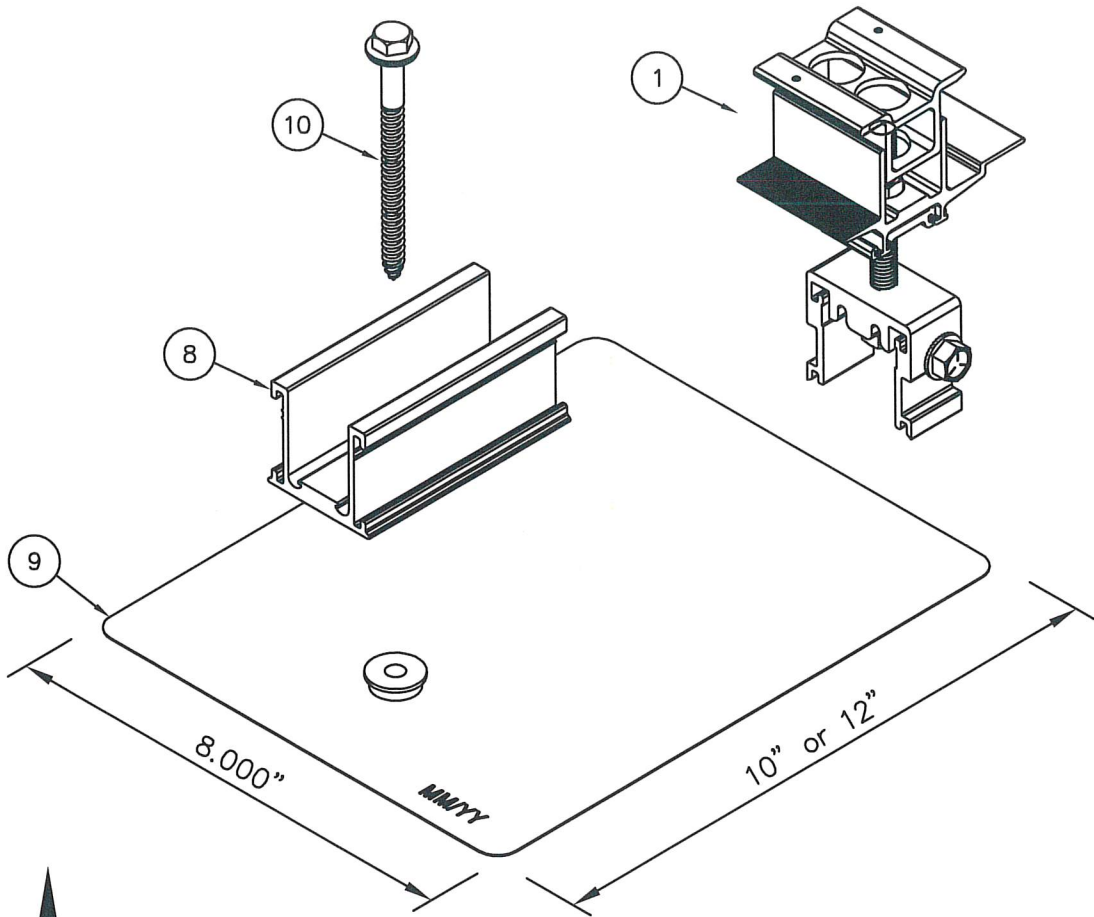
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DWG: **ROCKIT-GF1**
SHEET: **5/6**

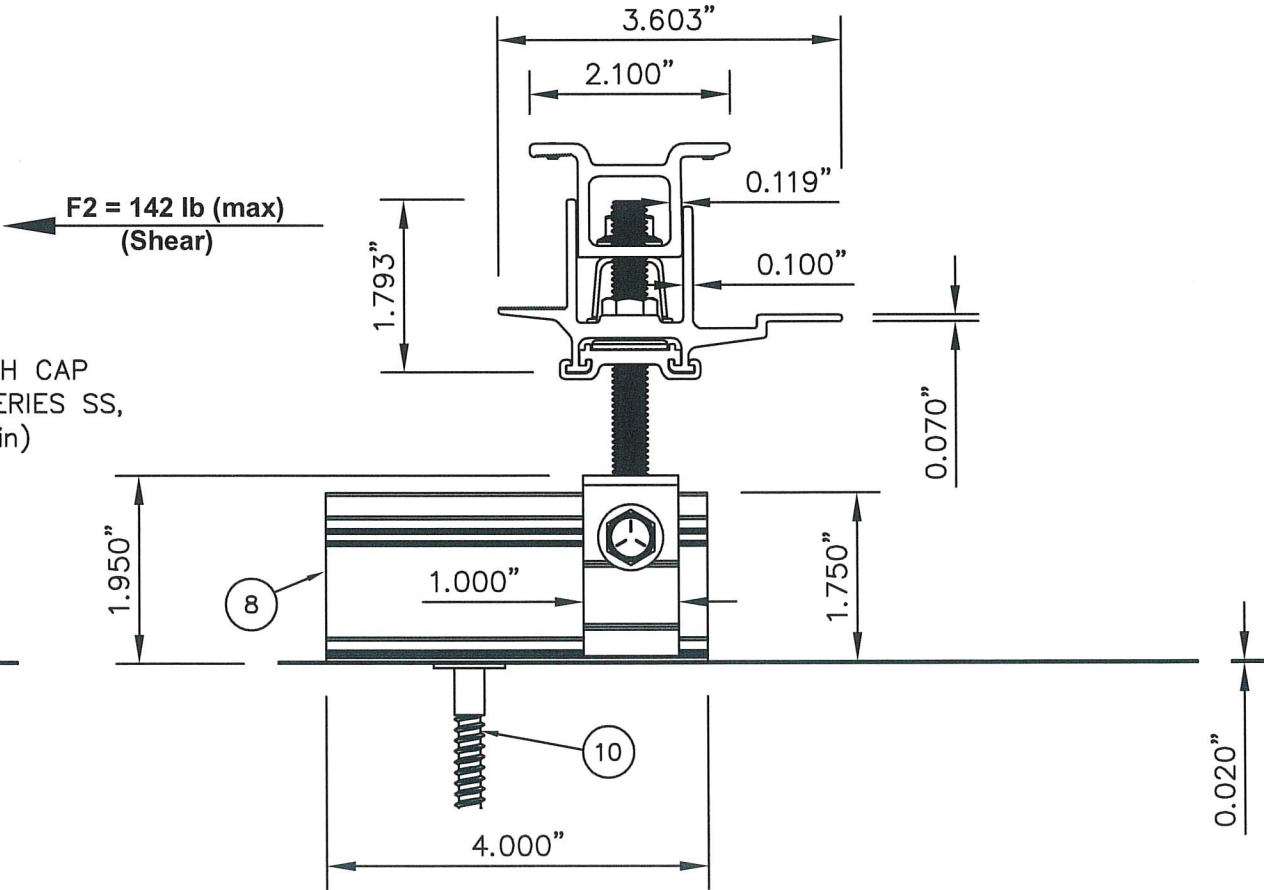
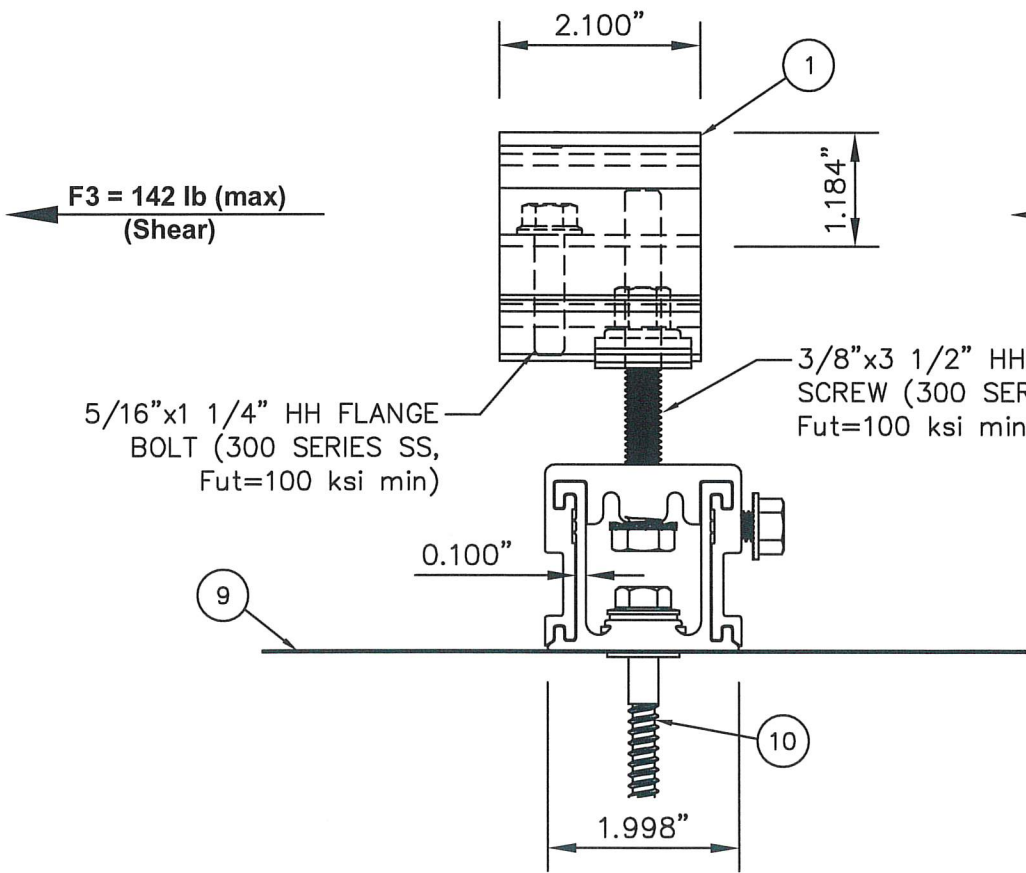
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BILL OF MATERIALS- ROCKIT GF-1 COMP SLIDE		
#	DESCRIPTION	MATERIALS/NOTES
1	ROCKIT MOUNT ASSEMBLY	6000 SERIES ALUMINUM & 300 SERIES STAINLESS & POLYMERIC
8	ROCKIT COMP SLIDE	6000 SERIES ALUMINUM
9	GF1 FLASHING	ALUMINUM OR COATED STEEL & EPDM
10	LAG SCREW 5/16" X 4", 3" THREAD WITH EPDM BACKED WASHER	300 SERIES STAINLESS & EPDM

ANCHOR NOTES:
1. ANCHOR CAPACITIES LISTED ARE PER FLPA# 3987.1.
2. CAPACITIES APPLY TO RAFTER SIZE 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.



F1 = 668 lb (max)
(Direct Tension/Uplift)



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STATE OF FLORIDA
Professional Engineer
No. 62354
Exp. 09/18/2024

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