

**ROOF TOP PV MOUNTING SYSTEM**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

THIS PRODUCT APPROVAL IS FOR THE ROOF TOP PV MOUNTING SYSTEM AS SHOWN ON THESE DRAWINGS. ROOF DETAILS, UPLIFT, SLOPE, ROOF TRUSSES AND OTHER ELEMENTS SHALL BE DESIGNED BY A FLORIDA REGISTERED ENGINEER AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. ENGINEER OF RECORD TO VERIFY THAT ROOF MEMBERS CAN SUPPORT THE PV MODULE ARRAY UNDER ALL CODE LEVEL LOADING CONDITIONS. INSTALLER TO MAINTAIN THE WATERPROOF INTEGRITY OF THE ROOF.

INSTALLATION OF PV PANEL ACCESSORIES SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF FLORIDA BUILDING CODE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ROOF COVERING.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'. SOLAR PANELS TO BE INSTALLED PARALLEL TO THE ROOF SURFACE WITH A TOLERANCE OF LESS THAN 2 DEGREES.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

**INSTRUCTIONS:**

USE CHARTS AS FOLLOWS.

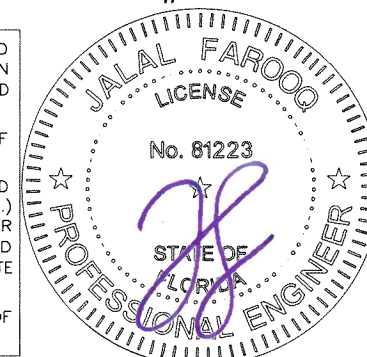
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SELECT LIGHT RAIL OR MAX. RAIL FOR REQUIRED LOADS FROM LANDSCAPE OR PORTRAIT RAIL CAPACITY CHARTS SHOWN ON SHEET 9.
- STEP 3** VERIFY HIDDEN & MULTI-CLAMP CAPACITY USING CHART ON SHEET 9.
- STEP 4** SELECT ROOF MOUNT TYPE CAPACITY FOR LANDSCAPE INSTALLATION USING CHARTS ON SHEET 10 AND PORTRAIT INSTALLATION USING CHARTS ON SHEET 11 WITH RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PV PANELS NOT PART OF THIS APPROVAL. FOR PANEL DETAILS, GENERAL NOTES, COMPONENT SIZES, FIRE AND ELECTRICAL SAFETY STANDARDS, PANEL CONNECTION TO MOUNTS AND INSTALLATION REQUIREMENTS/LIMITATIONS SEE CORRESPONDING FLA. APPROVAL DWGS.

Sealed: 8/11/2023

FL #41396

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

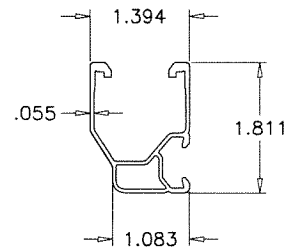


**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100  
WWW.AFCENG.COM  
FBPE #3538

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**Pegasus Solar Inc.**  
506 West Ohio Avenue  
Richmond CA. 94804  
Phone: (510) 210-3797  
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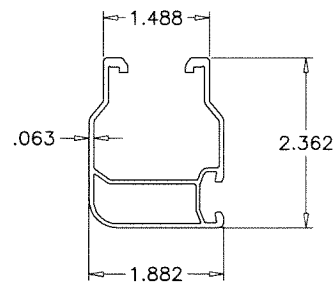
revisions:	no.	date	description	by
	A	02.07.23	INSTAFASH MOUNT ADDED	
	B	06.02.23	Butyl-Foot MOUNT ADDED	
date:	06-31-22	scale:	1/2"=1'-0"	dr. by: TARIQ
				chk. by:
drawing no.	22-21F			
sheet	1 of 15			

SOLAR-RACK\22-21F-PS



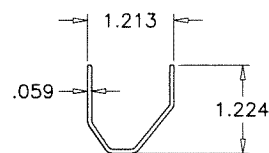
**LIGHT RAIL**

6000 SERIES ALUMINUM  
 (Fy MIN. = 35.0 KSI)  
 (Fu MIN. = 38.0 KSI)  
 (Kt = 1.0)



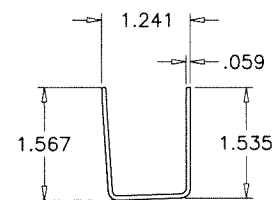
**MAX. RAIL**

6000 SERIES ALUMINUM  
 (Fy MIN. = 35.0 KSI)  
 (Fu MIN. = 38.0 KSI)  
 (Kt = 1.0)



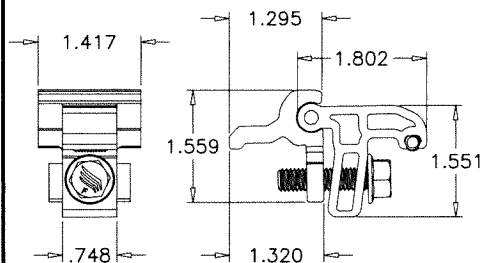
**LIGHT RAIL SPLICE**

300 SERIES ST. STEEL OR EQUIVALENT  
 (Fy MIN. = 110.0 KSI)  
 (Fu MIN. = 150.0 KSI)



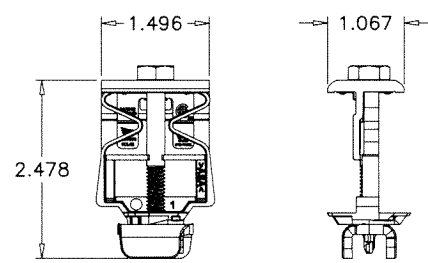
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 (Fy MIN. = 110.0 KSI)  
 (Fu MIN. = 150.0 KSI)



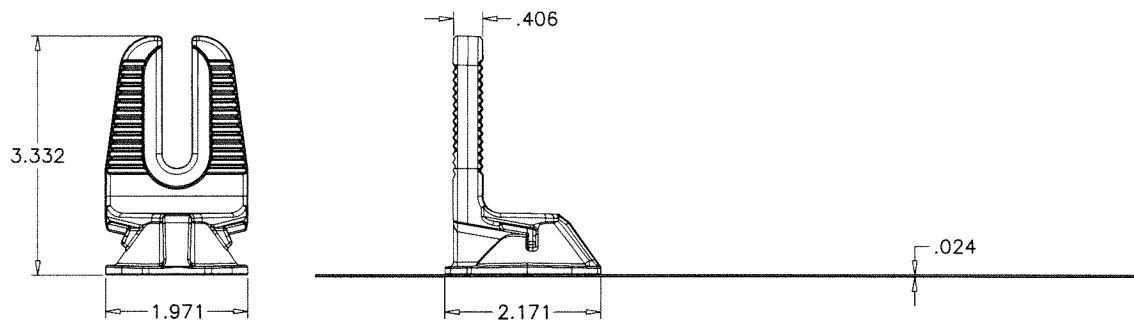
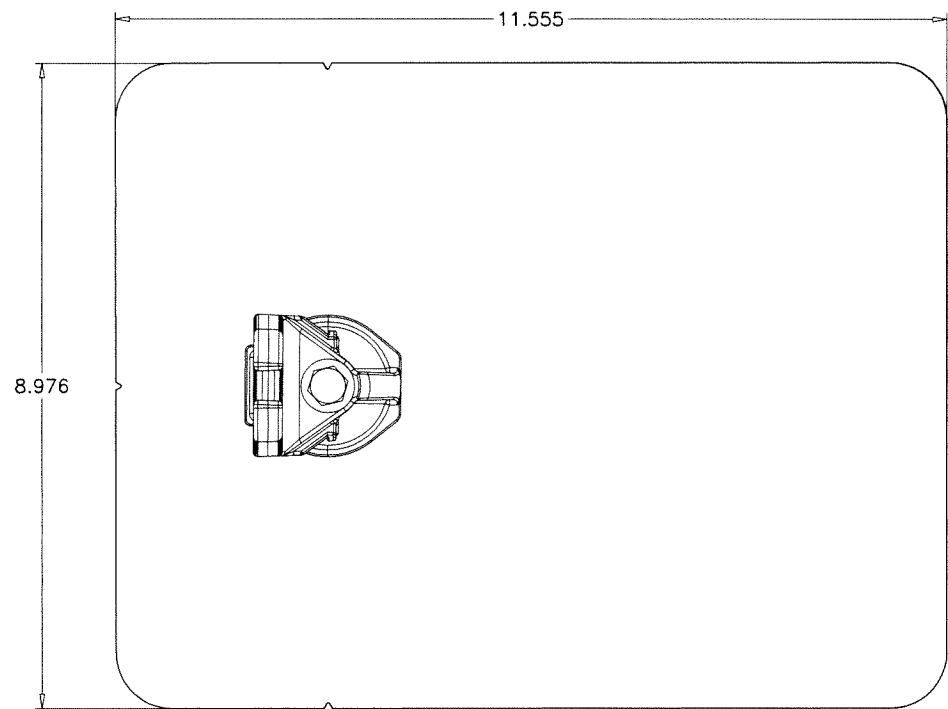
**HIDDEN END CLAMP**

6000 SERIES ALUMINUM  
 (Fy MIN. = 35.0 KSI)  
 (Fu MIN. = 38.0 KSI)



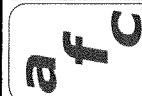
**MULTI-CLAMP**

6000 SERIES ALUMINUM  
 (Fy MIN. = 35.0 KSI)  
 (Fu MIN. = 38.0 KSI)



**COMP MOUNT GEN 2  
 OPEN SLOT L-FOOT**

CAST ALUMINUM  
 (Fy MIN. = 23.0 KSI)  
 (Fu MIN. = 47.0 KSI)



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SOLAR-RACK\22-21F-PS

FBPE #3538

ROOF TOP PV MOUNTING SYSTEM

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revisions:  
 no date by description

date: 06-31-22

scale: 3/8" = 1"

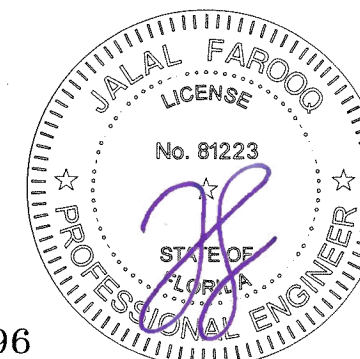
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chk. by:

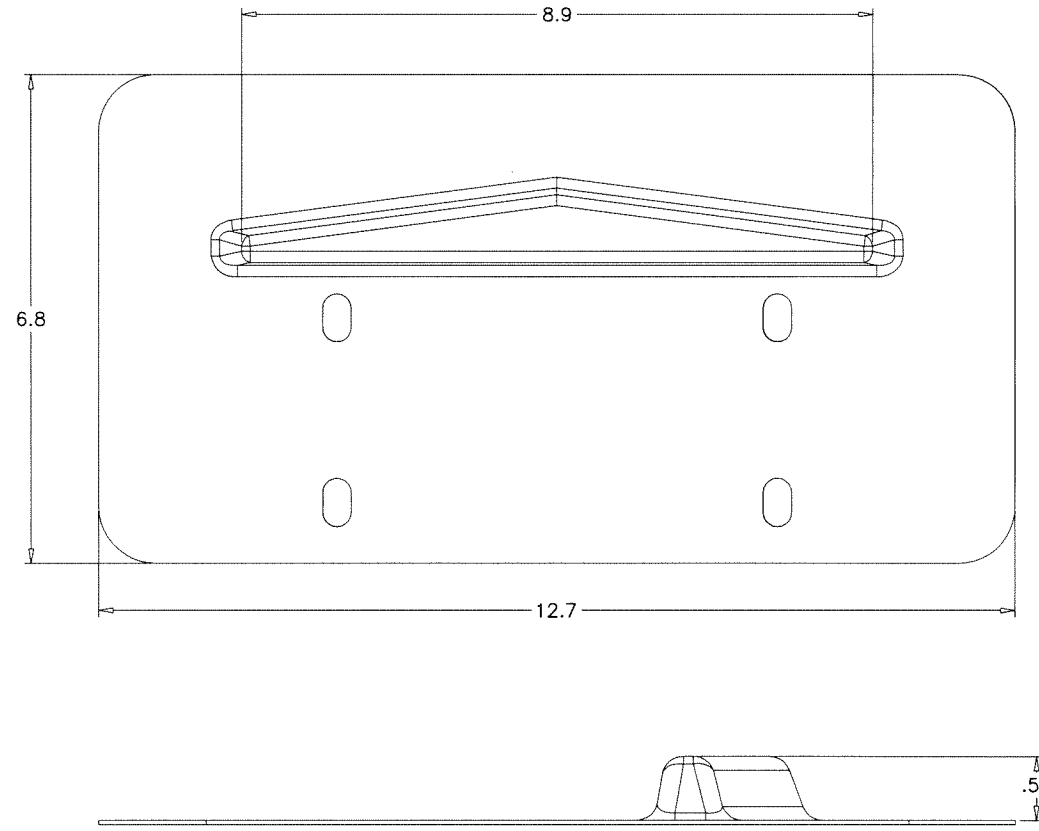
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**22-21F**

sheet 2 of 15

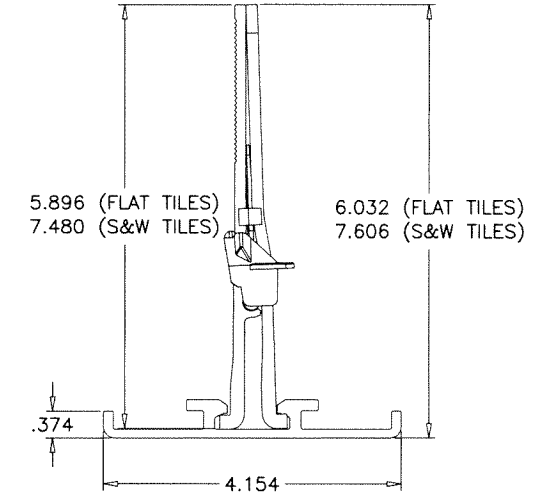
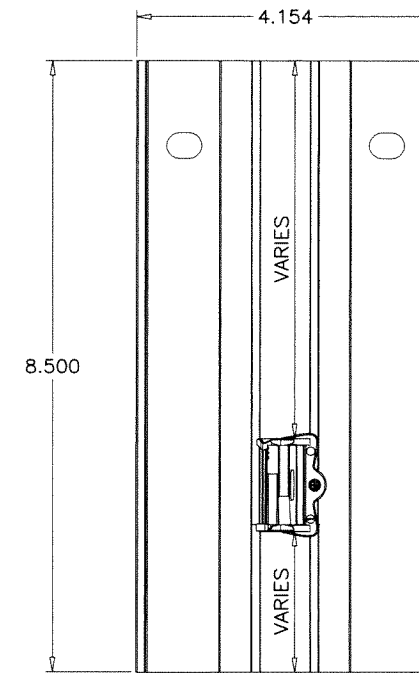
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BASE FLASHING (OPTIONAL)

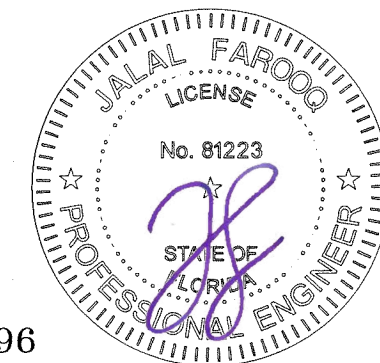


SCISSOR MOUNT ASSEMBLY

6000 SERIES ALUMINUM  
 (Fy MIN. = 35.0 KSI)  
 (Fu MIN. = 38.0 KSI)

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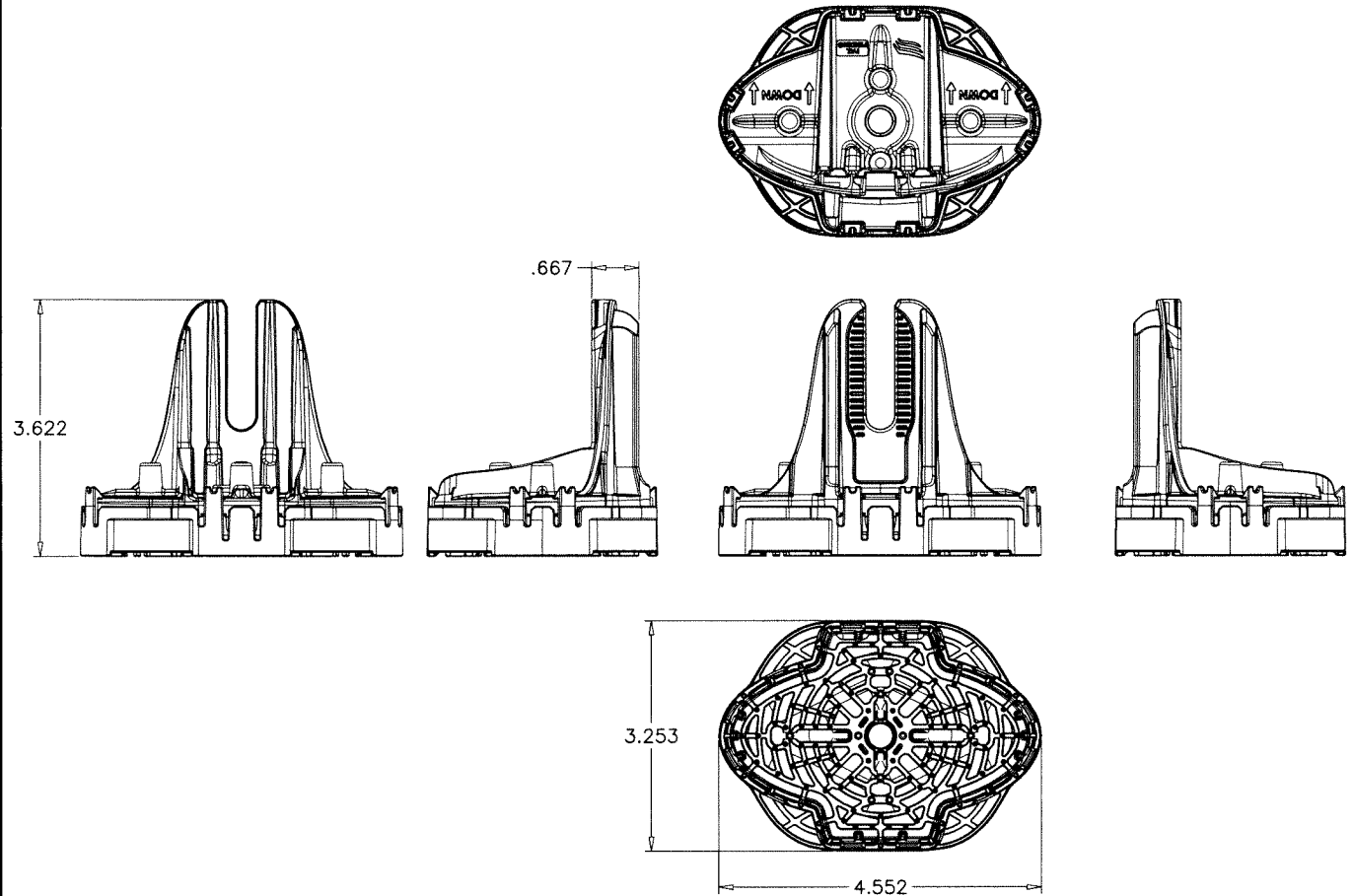
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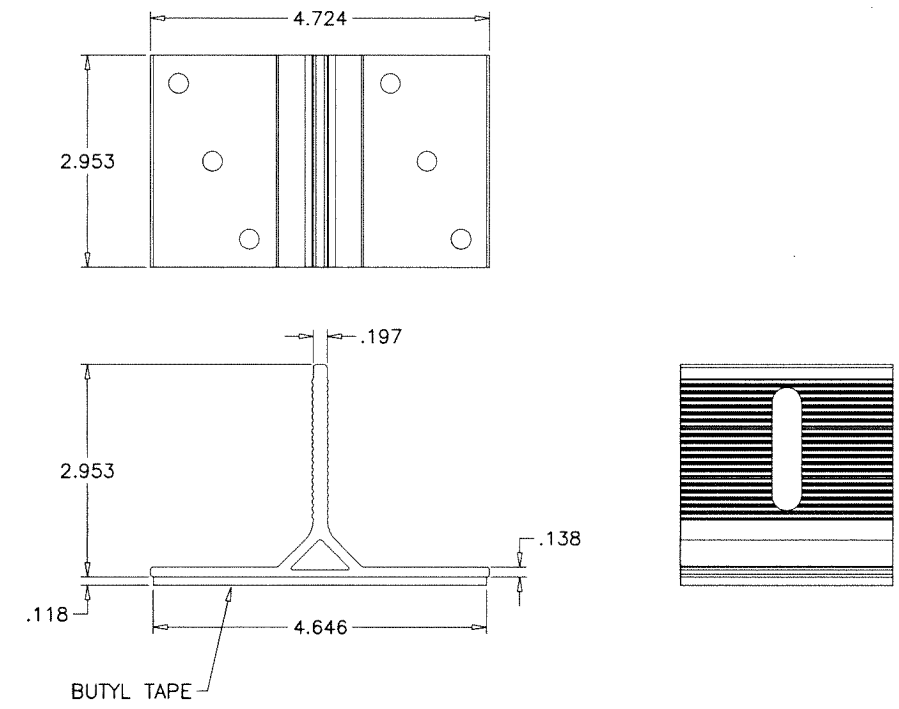
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drawing no.  
**22-21F**

sheet 3 of 15

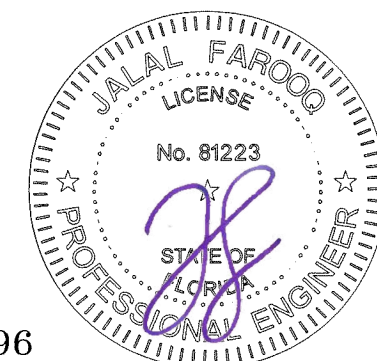


**INSTAFLASH MOUNT**  
 CAST ALUMINUM  
 (Fy MIN. = 23 KSI)  
 (Fu MIN. = 47 KSI)



**Butyl-Foot MOUNT**  
 6000 SERIES ALUMINUM  
 (Fy MIN. = 35.0 KSI)  
 (Fu MIN. = 38.0 KSI)

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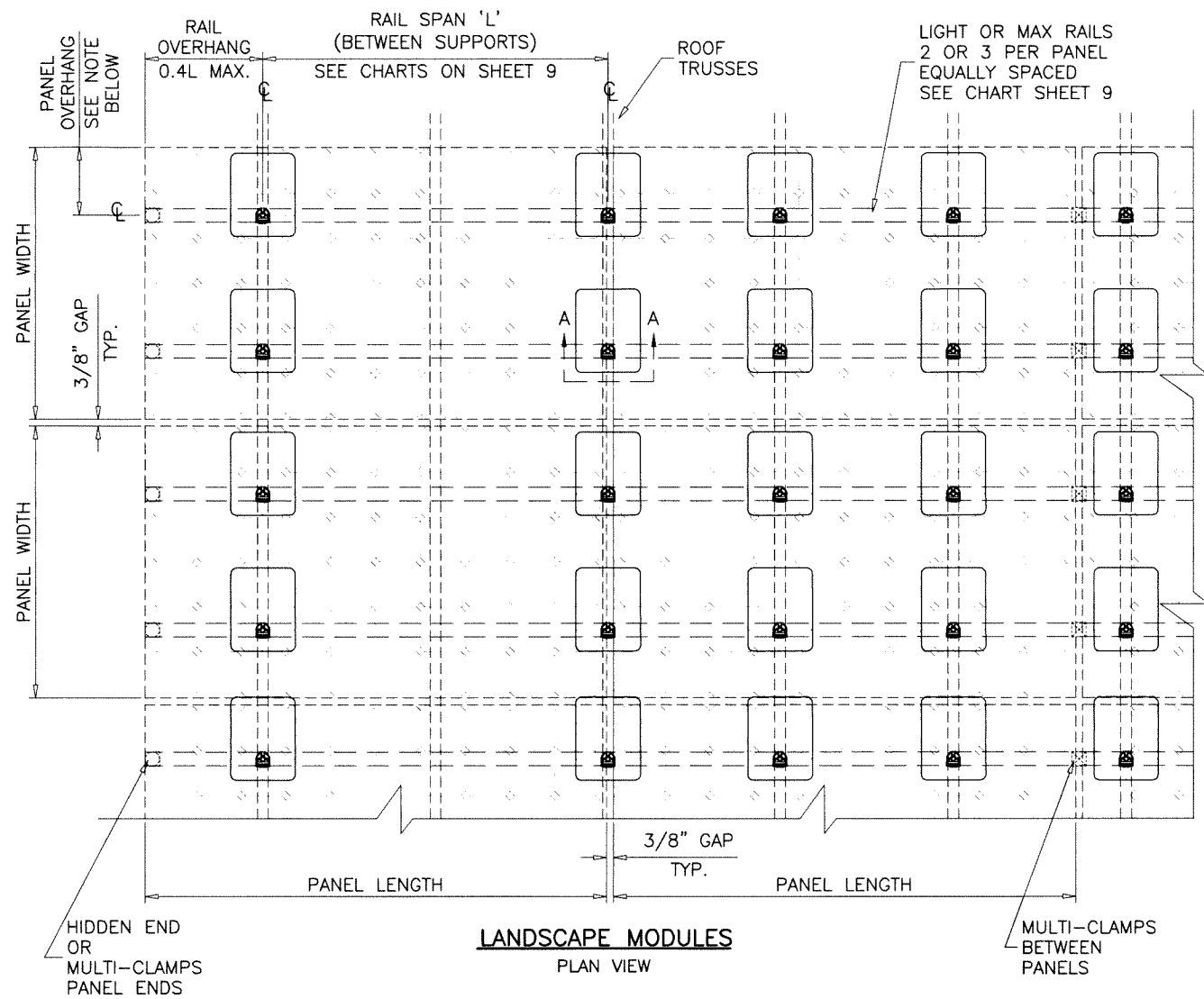
FL #41396

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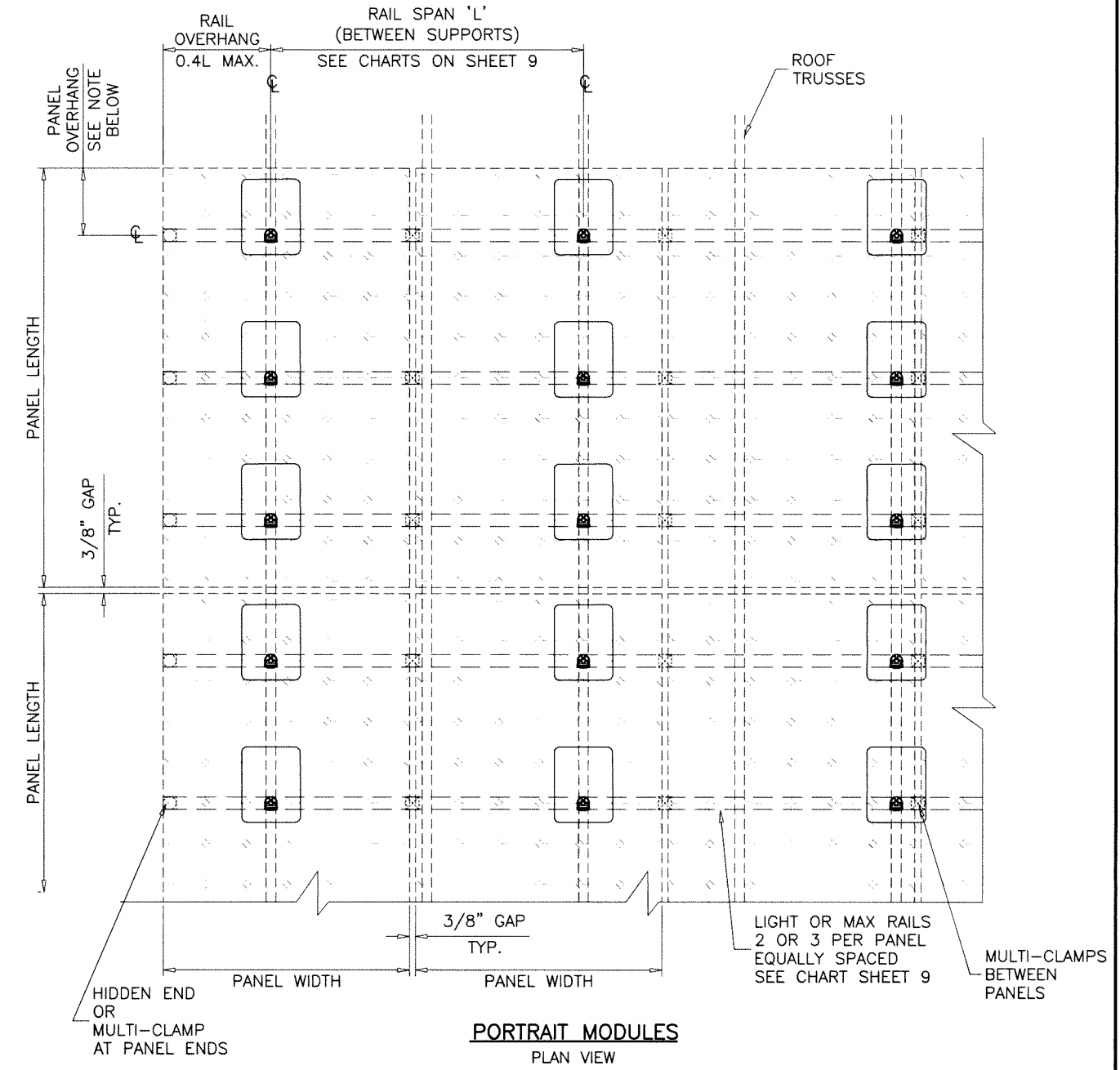
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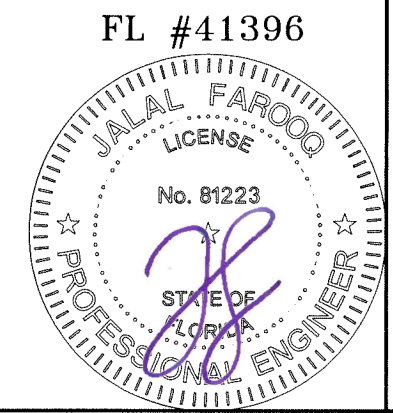
**LANDSCAPE MODULES**  
PLAN VIEW



**PORTRAIT MODULES**  
PLAN VIEW

NOTES:  
 PANEL OVERHANG AS PER PANEL MANUFACTURER'S INSTRUCTIONS.  
 SHOULD BE EQUAL ON BOTH SIDES OF PANELS  
 FOR 3 RAILS SUPPORTED PANELS, OVERHANGS TO BE  
 BETWEEN 12-20% OF PANEL LENGTH OR WIDTH.  
 RAILS CAN BE JOINED WITH 6.9" LONG SPLICE TO ACHIEVE REQUIRED LENGTHS.  
 SPLICE JOINTS TO BE ANYWHERE ALONG THE RAIL EXCEPT NO PART OF THE  
 SPLICE SHOULD BE WITHIN THE RAIL CANTILEVER.

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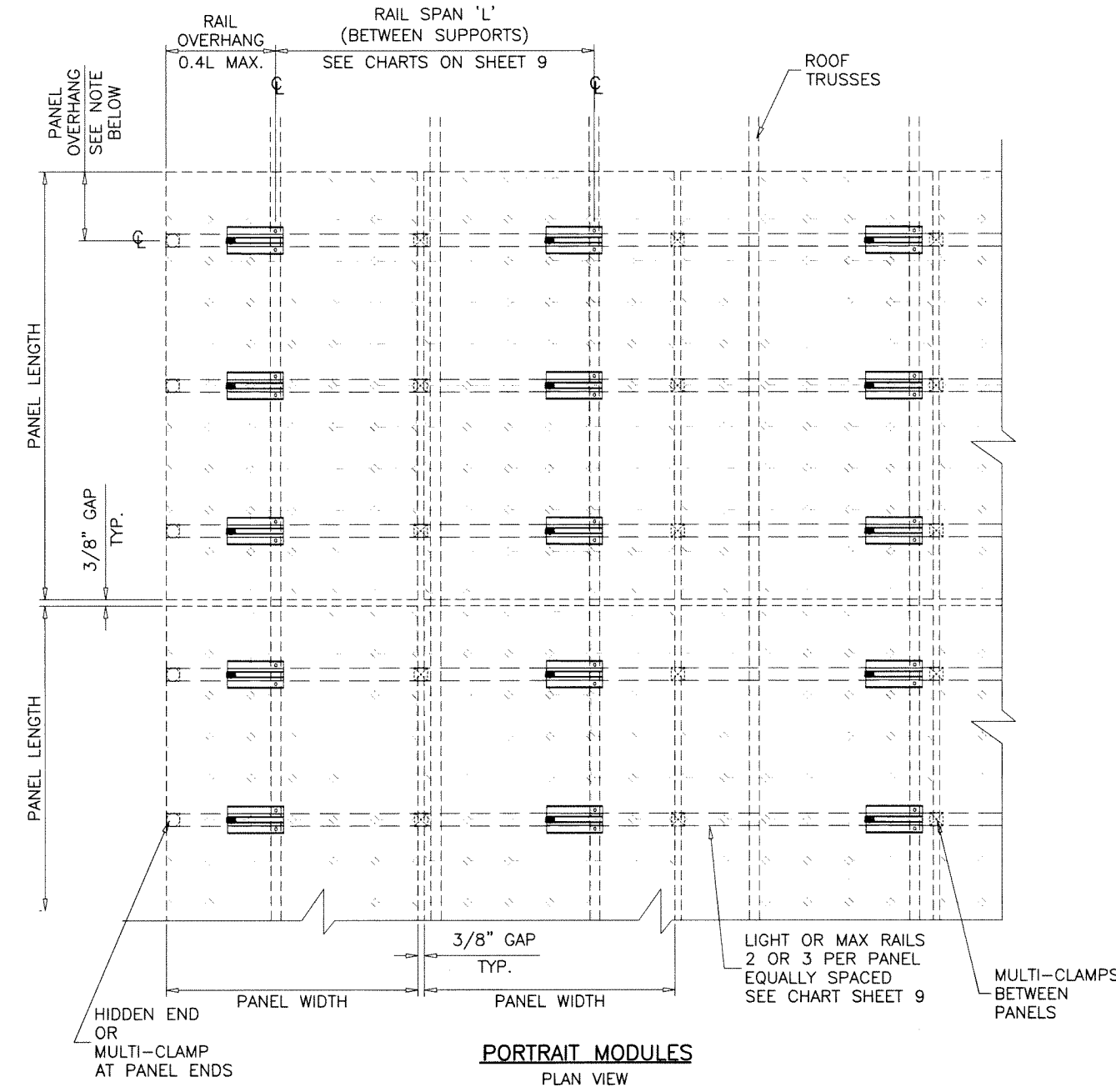
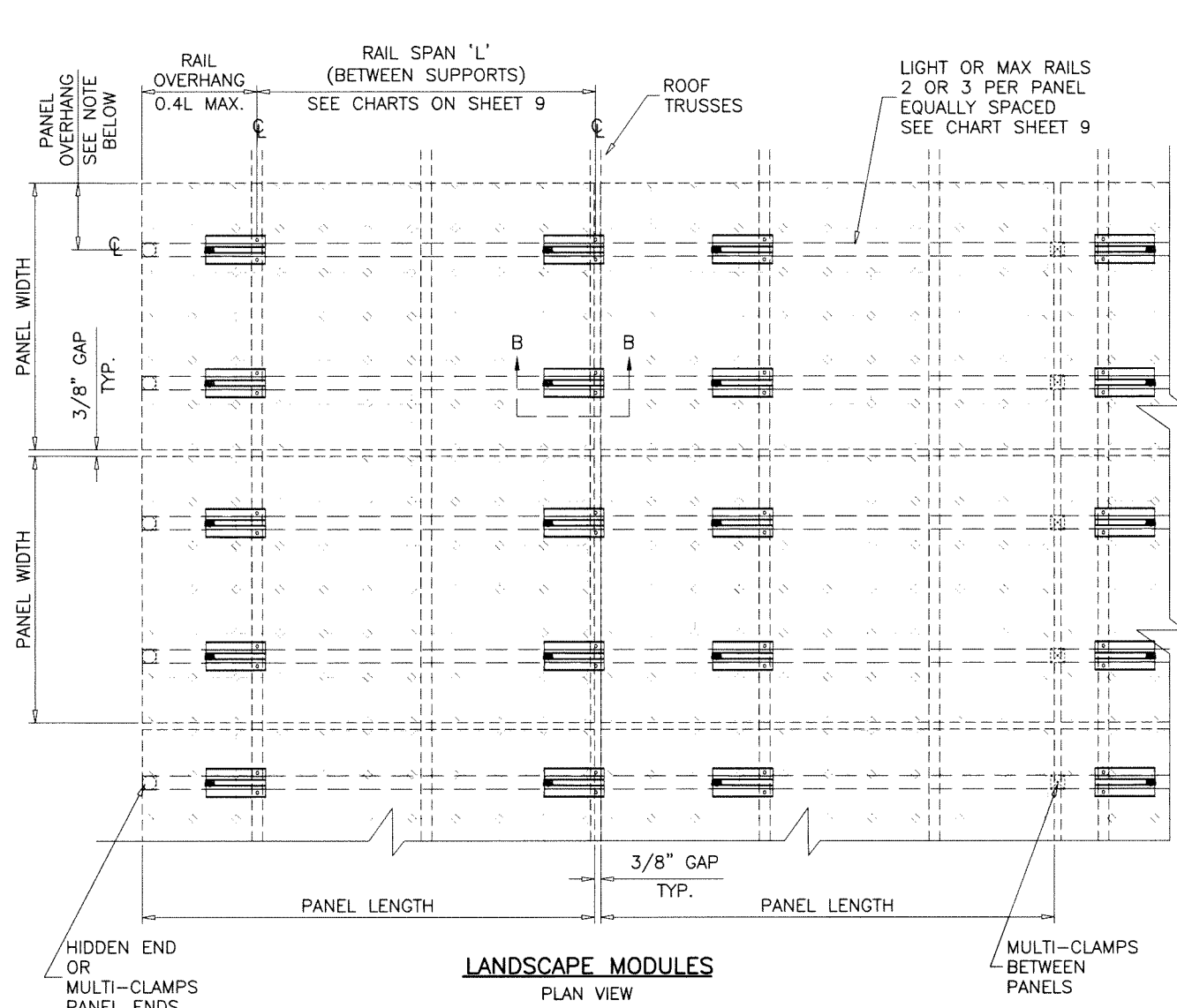


**COMP MOUNT GEN2 L-FOOT**

**af c**  
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drawing no.	22-21F			
sheet	5 of 15			

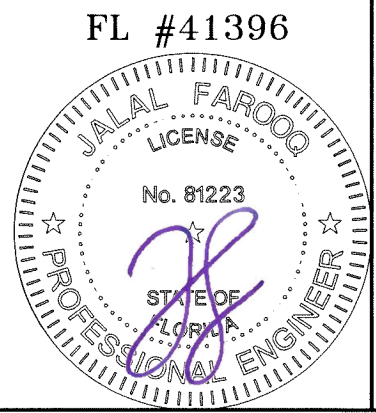


NOTES:  
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**SCISSOR MOUNT ASSEMBLY**

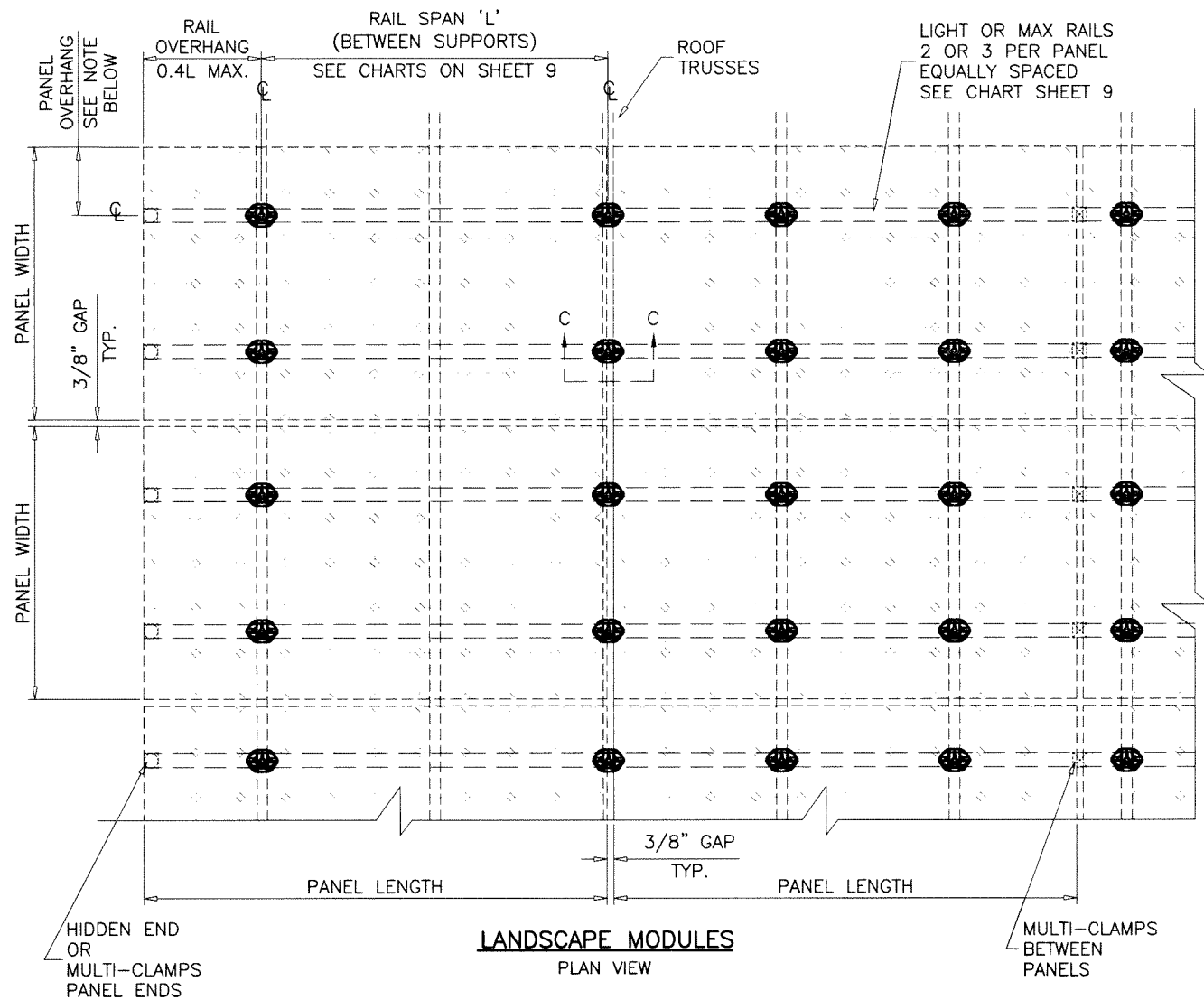
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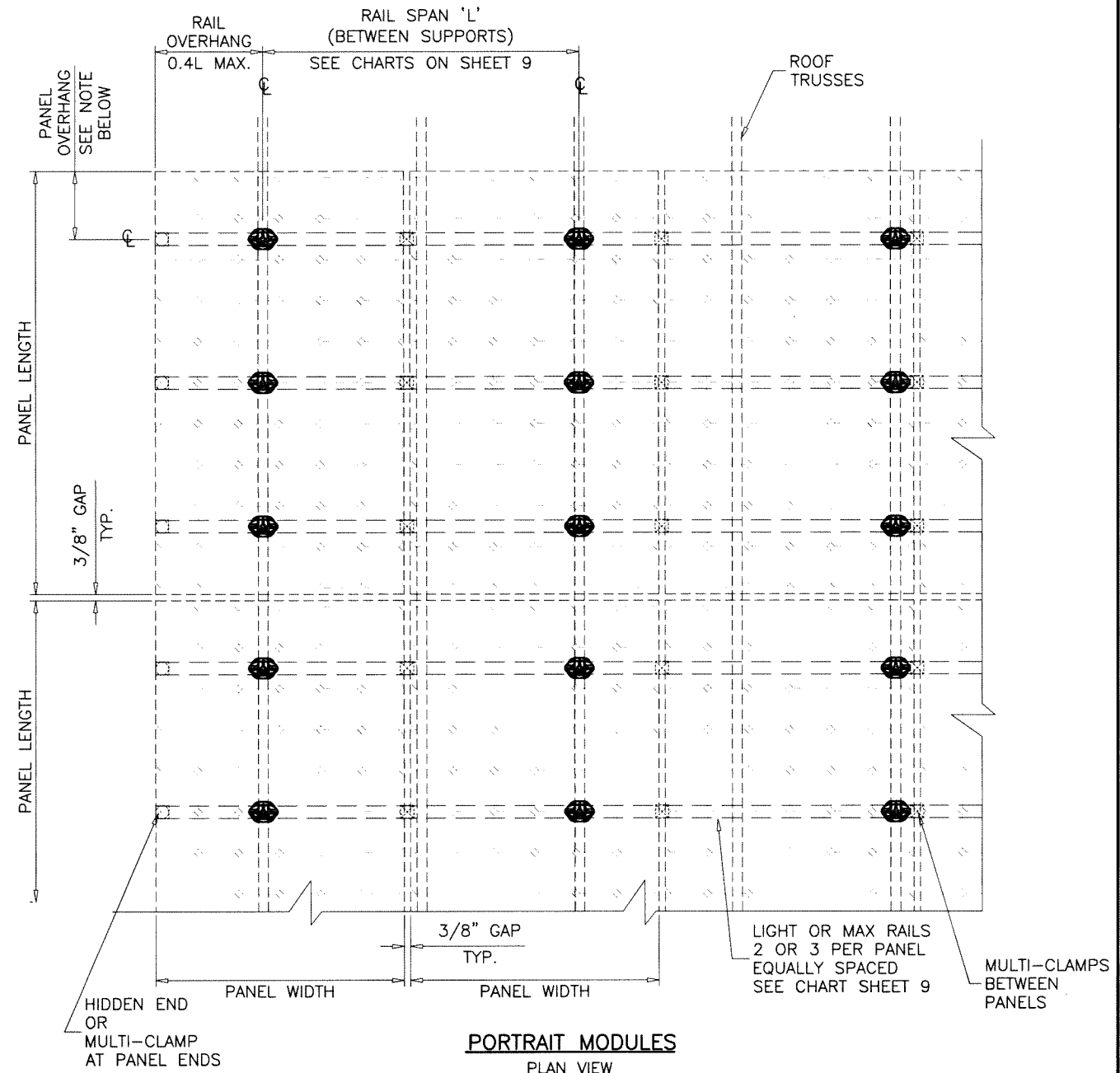
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date:	06-31-22	scale:	1/2" = 1'-0"
dr. by:	TARIQ	chk. by:	
drawing no.	22-21F		
sheet	6 of 15		



**LANDSCAPE MODULES**  
PLAN VIEW

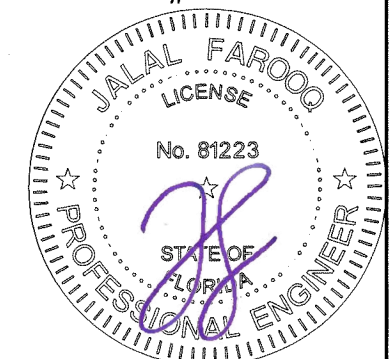


**PORTRAIT MODULES**  
PLAN VIEW

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 SPLICE JOINTS TO BE ANYWHERE ALONG THE RAIL EXCEPT NO PART OF THE  
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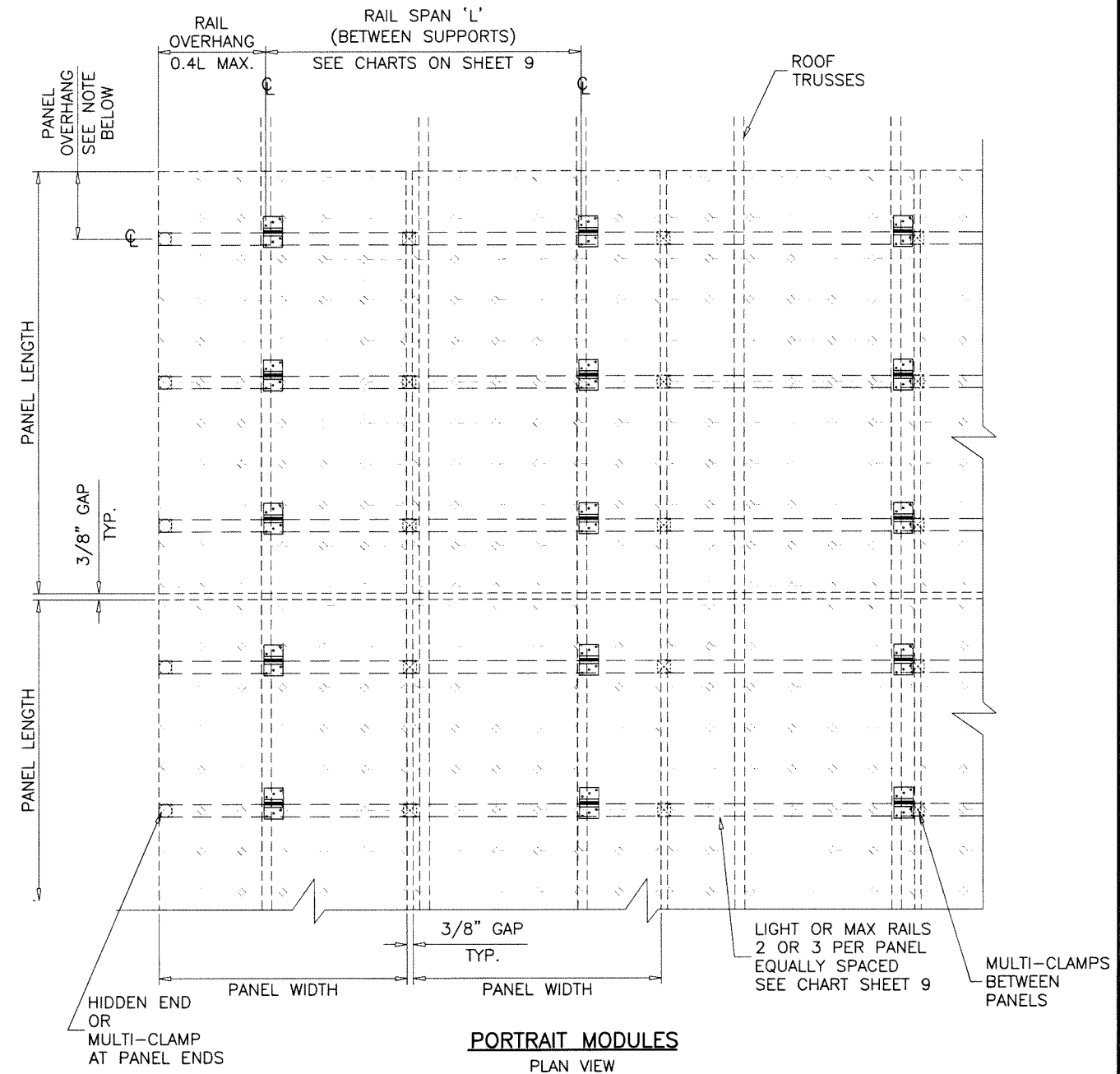
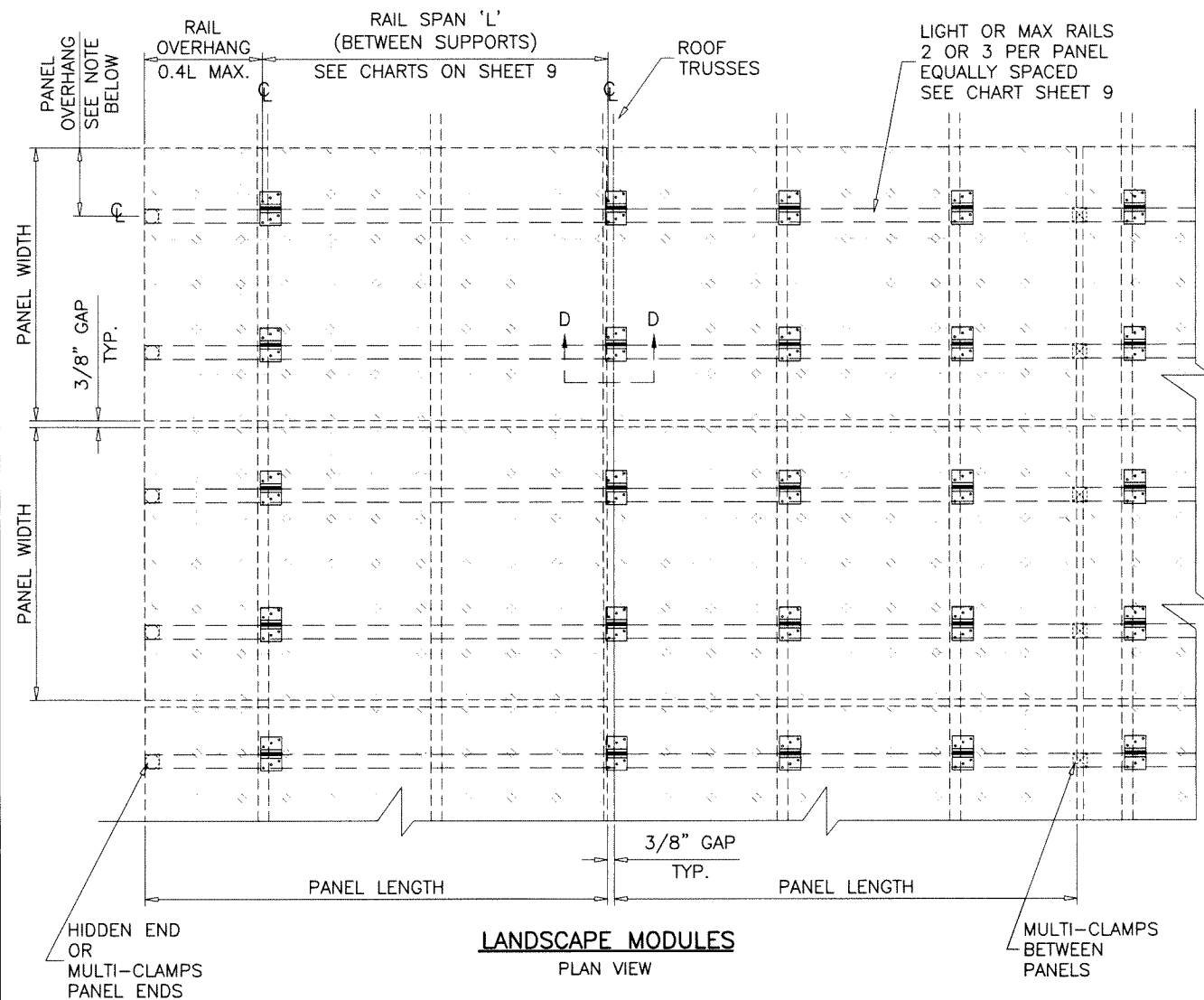
**INSTAFLASH MOUNT**

**af c**  
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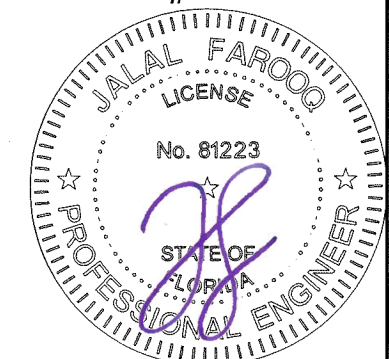




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ButyL-Foot MOUNT

**af c**  
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sheet	8 of 15			



**LIGHT RAIL & MAX. RAIL**

RAILS DESIGN LOAD CAPACITY - PSF (LANDSCAPE MODULES)												
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS		ROOF SLOPES UP TO 7°		ROOF SLOPES 8° TO 20°		ROOF SLOPES 21° TO 27°		ROOF SLOPES 28° TO 45°	
			LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	MAX. RAIL	LIGHT RAIL
69-1/2"	2	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		32"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		48"	64.0	112.0	63.5	111.5	62.4	110.6	61.7	110.0	59.9	108.4
		64"	37.7	64.7	37.2	64.3	36.1	63.3	35.5	62.7	33.7	61.1
	72"	30.7	52.0	30.1	51.5	29.0	50.6	28.4	50.0	26.6	48.4	
	3	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		32"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		48"	75.7	115.0	75.2	115.0	74.1	115.0	73.4	115.0	71.7	115.0
64"		44.4	76.6	43.8	76.2	42.7	75.2	42.1	74.6	40.3	73.0	
72"	35.9	61.4	35.4	60.9	34.2	60.0	33.6	59.4	31.8	57.8		
80"	2	16"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
		24"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
		32"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
		48"	64.0	76.7	63.5	76.7	62.4	76.7	61.7	76.7	59.9	76.7
		64"	37.7	64.7	37.2	64.3	36.1	63.3	35.5	62.7	33.7	61.1
	72"	30.7	52.0	30.1	51.5	29.0	50.6	28.4	50.0	26.6	48.4	
	3	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		32"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		48"	75.7	115.0	75.2	115.0	74.1	115.0	73.4	115.0	71.7	115.0
64"		44.4	76.6	43.8	76.2	42.7	75.2	42.1	74.6	40.3	73.0	
72"	35.9	61.4	35.4	60.9	34.2	60.0	33.6	59.4	31.8	57.8		

LIMIT MAXIMUM POSITIVE(+) LOADS TO 75.0 PSF

**LIGHT RAIL & MAX. RAIL**

RAILS DESIGN LOAD CAPACITY - PSF (PORTRAIT MODULES)												
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS		ROOF SLOPES UP TO 7°		ROOF SLOPES 8° TO 20°		ROOF SLOPES 21° TO 27°		ROOF SLOPES 28° TO 45°	
			LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL	LIGHT RAIL	MAX. RAIL
69-1/2"	2	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		32"	83.8	115.0	83.3	115.0	82.2	115.0	81.5	115.0	79.8	115.0
		48"	39.5	67.9	38.9	67.4	37.8	66.4	37.2	65.8	35.4	64.2
		64"	24.0	39.9	23.4	39.5	22.3	38.5	21.7	37.9	19.9	36.3
	72"	19.8	32.4	19.2	31.9	18.1	31.0	17.5	30.4	15.7	28.8	
	3	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		32"	99.5	115.0	98.9	115.0	97.8	115.0	97.2	115.0	95.4	115.0
		48"	46.4	80.4	45.9	79.9	44.8	78.9	44.1	78.4	42.4	76.7
64"		27.9	47.0	27.3	46.5	26.2	45.5	25.6	44.9	23.8	43.3	
72"	22.9	37.9	22.3	37.5	21.2	36.5	20.6	35.9	18.8	34.3		
80"	2	16"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
		24"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
		32"	73.3	76.7	72.8	76.7	71.7	76.7	71.1	76.7	69.3	76.7
		48"	34.8	59.5	34.3	59.0	33.2	58.0	32.5	57.5	30.8	55.9
		64"	21.3	35.2	20.8	34.8	19.7	33.8	19.0	33.2	17.3	31.6
	72"	17.7	28.7	17.2	28.2	16.1	27.2	15.4	26.6	13.6	25.0	
	3	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		32"	86.9	115.0	86.4	115.0	85.3	115.0	84.6	115.0	82.9	115.0
		48"	40.9	70.3	40.3	69.9	39.2	68.9	38.6	68.3	36.8	66.7
64"		24.7	41.3	24.2	40.9	23.1	39.9	22.4	39.3	20.7	37.7	
72"	20.4	33.5	19.9	33.0	18.7	32.1	18.1	31.5	16.3	29.9		

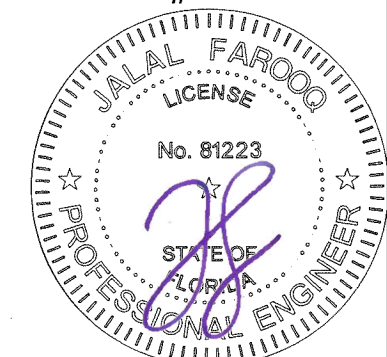
LIMIT MAXIMUM POSITIVE(+) LOADS TO 75.0 PSF

**HIDDEN CLAMP & MULTI-CLAMP**

CLAMP DESIGN LOAD CAPACITY - PSF (LANDSCAPE & PORTRAIT MODULES)							
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS	ROOF SLOPES UP TO 7°	ROOF SLOPES 8° TO 20°	ROOF SLOPES 21° TO 27°	ROOF SLOPES 28° TO 45°
69-1/2"	2	16" TO 72"	72.2	71.2	69.4	68.3	65.7
	3	16" TO 72"	85.5	84.6	82.7	81.7	79.1
80"	2	16" TO 72"	63.2	62.3	60.4	59.4	56.8
	3	16" TO 72"	74.8	73.9	72.0	71.0	68.4

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (41.1" X 69.5") AND 72 CELLS PANEL (41.1" X 80").

Sealed: 8/11/2023



**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL: (305) 264-8100  
 WWW.AFCENG.COM  
 FBPE #3538

**ROOF TOP PV MOUNTING SYSTEM**  
**Pegasus Solar Inc.**  
 506 West Ohio Avenue  
 Richmond CA. 94804  
 Phone: (510) 210-3797  
 www.pegasussolar.com

revisions: no date by description

date: 06-31-22  
 scale: -  
 dr. by: TARIQ  
 chk. by:

drawing no. **22-21F**  
 sheet **9** of **15**

SOLAR-RACK 22-21F-PS

COMP MOUNT, SCISSOR MOUNT, INSTAFLASH MOUNT & ButyL-Foot MOUNT

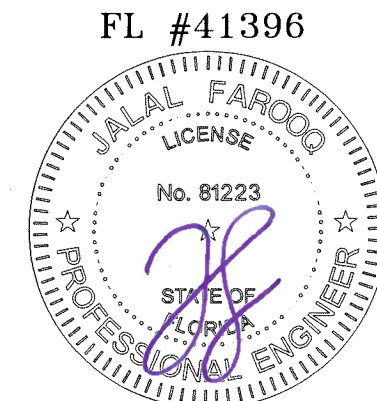
ROOF MOUNTS DESIGN LOAD CAPACITY - PSF (LANDSCAPE MODULES)																						
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS				ROOF SLOPES UP TO 7°				ROOF SLOPES 8° TO 20°				ROOF SLOPES 21° TO 27°				ROOF SLOPES 28° TO 45°			
			COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT
69-1/2"	2	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	93.0	115.0	92.4	115.0	91.8	115.0	92.2	115.0	89.5	115.0	91.6	115.0	88.2	115.0	91.2	115.0	85.1	115.0	90.0
		32"	115.0	70.7	115.0	70.3	115.0	69.5	115.0	70.1	115.0	67.2	115.0	69.5	115.0	66.0	115.0	69.1	115.0	62.8	115.0	67.9
		48"	102.1	48.5	99.0	48.2	99.7	47.3	98.3	48.0	95.2	45.0	96.9	47.4	92.9	43.7	96.1	47.0	87.2	40.6	94.0	45.8
		64"	77.6	37.4	75.2	37.2	75.2	36.2	74.5	36.9	70.7	33.9	73.2	36.3	68.3	32.6	72.4	35.9	62.7	29.4	70.3	34.7
		72"	69.4	33.7	67.3	33.5	67.0	32.5	66.6	33.2	62.5	30.2	65.2	32.6	60.2	28.9	64.5	32.2	54.5	25.7	62.4	31.1
	3	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	110.4	115.0	109.7	115.0	109.2	115.0	109.5	115.0	106.9	115.0	108.9	115.0	105.6	115.0	108.5	115.0	102.5	115.0	107.3
		32"	115.0	83.8	115.0	83.3	115.0	82.6	115.0	83.1	115.0	80.3	115.0	82.5	115.0	79.0	115.0	82.1	115.0	75.9	115.0	80.9
		48"	115.0	57.2	115.0	56.9	115.0	56.0	115.0	56.6	114.5	53.7	115.0	56.0	112.1	52.4	114.7	55.6	106.4	49.3	112.6	54.5
		64"	92.0	43.9	89.2	43.7	89.6	42.7	88.5	43.4	85.1	40.4	87.1	42.8	82.8	39.1	86.3	42.4	77.1	36.0	84.2	41.2
		72"	82.2	39.5	79.7	39.2	79.8	38.3	79.0	39.0	75.3	36.0	77.6	38.4	73.0	34.7	76.9	38.0	67.3	31.5	74.8	36.8
80"	2	16"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
		24"	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
		32"	76.7	70.7	76.7	70.3	76.7	69.5	76.7	70.1	76.7	67.2	76.7	69.5	76.7	66.0	76.7	69.1	76.7	62.8	76.7	67.9
		48"	76.7	48.5	76.7	48.2	76.7	47.3	76.7	48.0	76.7	45.0	76.7	47.4	76.7	43.7	76.7	47.0	76.7	40.6	76.7	45.8
		64"	76.7	37.4	75.2	37.2	75.2	36.2	74.5	36.9	70.7	33.9	73.2	36.3	68.3	32.6	72.4	35.9	62.7	29.4	70.3	34.7
		72"	69.4	33.7	67.3	33.5	67.0	32.5	66.6	33.2	62.5	30.2	65.2	32.6	60.2	28.9	64.5	32.2	54.5	25.7	62.4	31.1
	3	16"	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
		24"	115.0	110.4	115.0	109.7	115.0	109.2	115.0	109.5	115.0	106.9	115.0	108.9	115.0	105.6	115.0	108.5	115.0	102.5	115.0	107.3
		32"	115.0	83.8	115.0	83.3	115.0	82.6	115.0	83.1	115.0	80.3	115.0	82.5	115.0	79.0	115.0	82.1	115.0	75.9	115.0	80.9
		48"	115.0	57.2	115.0	56.9	115.0	56.0	115.0	56.6	114.5	53.7	115.0	56.0	112.1	52.4	114.7	55.6	106.4	49.3	112.6	54.5
		64"	92.0	43.9	89.2	43.7	89.6	42.7	88.5	43.4	85.1	40.4	87.1	42.8	82.8	39.1	86.3	42.4	77.1	36.0	84.2	41.2
		72"	82.2	39.5	79.7	39.2	79.8	38.3	79.0	39.0	75.3	36.0	77.6	38.4	73.0	34.7	76.9	38.0	67.3	31.5	74.8	36.8

LIMIT MAXIMUM POSITIVE(+) LOADS TO 75.0 PSF

SEE SHEET 12 FOR COMP MOUNT INSTALLATION  
 SEE SHEET 13 FOR SCISSOR MOUNT INSTALLATION  
 SEE SHEET 14 FOR INSTAFLASH MOUNT INSTALLATION  
 SEE SHEET 15 FOR ButyL-Foot MOUNT INSTALLATION

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (41.1" X 69.5")  
 AND 72 CELLS PANEL (41.1" X 80").

Sealed: 8/11/2023



**af c**  
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revisions:	no.	date	by	description
date:	06-31-22			
scale:	-			
dr. by:	TARIQ			
chk. by:				
drawing no.	22-21F			
sheet	10 of 15			



COMP MOUNT, SCISSOR MOUNT, INSTAFLASH MOUNT & ButyL-Foot MOUNT

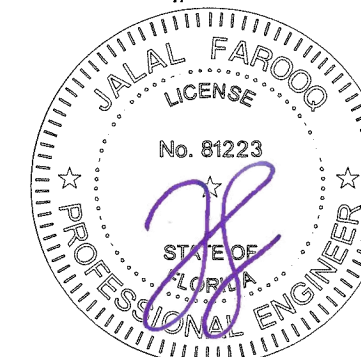
ROOF MOUNTS DESIGN LOAD CAPACITY - PSF (PORTRAIT MODULES)																						
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS				ROOF SLOPES UP TO 7°				ROOF SLOPES 8° TO 20°				ROOF SLOPES 21° TO 27°				ROOF SLOPES 28° TO 45°			
			COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	ButyL-Foot MOUNT
69-1/2"	2	16"	115.0	82.9	115.0	82.4	115.0	81.7	115.0	82.2	115.0	79.4	115.0	81.6	115.0	78.2	115.0	81.2	115.0	75.0	115.0	80.0
		24"	115.0	56.6	115.0	56.3	115.0	55.4	115.0	56.0	113.2	53.1	114.2	55.4	110.8	51.8	113.5	55.1	105.1	48.7	111.4	53.9
		32"	91.1	43.5	88.2	43.2	88.7	42.3	87.5	43.0	84.2	40.0	86.2	42.4	81.8	38.7	85.4	42.0	76.1	35.5	83.3	40.8
		48"	62.0	30.3	60.2	30.1	59.6	29.1	59.5	29.9	55.1	26.8	58.1	29.3	52.8	25.5	57.3	28.9	47.1	22.4	55.2	27.7
		64"	47.5	23.7	46.1	23.6	45.1	22.5	45.4	23.4	40.6	20.2	44.1	22.8	38.3	19.0	43.3	22.4	32.6	15.8	41.2	21.2
	72"	42.7	21.5	41.4	21.4	40.3	20.3	40.8	21.2	35.8	18.0	39.4	20.6	33.4	16.8	38.6	20.2	27.8	13.6	36.5	19.0	
	3	16"	115.0	98.4	115.0	97.8	115.0	97.2	115.0	97.5	115.0	94.9	115.0	97.0	115.0	93.6	115.0	96.6	115.0	90.5	115.0	95.4
		24"	115.0	66.9	115.0	66.5	115.0	65.7	115.0	66.3	115.0	63.4	115.0	65.7	115.0	62.2	115.0	65.3	115.0	59.0	115.0	64.1
		32"	108.1	51.2	104.7	50.9	105.7	50.0	104.0	50.7	101.2	47.7	102.7	50.1	98.8	46.4	101.9	49.7	93.2	43.3	99.8	48.5
		48"	73.4	35.5	71.1	35.3	71.0	34.3	70.5	35.0	66.5	32.0	69.1	34.4	64.1	30.7	68.3	34.0	58.5	27.5	66.2	32.9
64"		56.1	27.6	54.4	27.4	53.7	26.4	53.7	27.2	49.2	24.1	52.3	26.6	46.8	22.8	51.5	26.2	41.1	19.7	49.4	25.0	
72"	50.3	25.0	48.8	24.8	47.9	23.8	48.1	24.6	43.4	21.5	46.7	24.0	41.0	20.2	45.9	23.6	35.3	17.0	43.8	22.4		
80"	2	16"	76.7	72.6	76.7	72.1	76.7	71.4	76.7	71.9	76.7	69.1	76.7	71.3	76.7	67.8	76.7	70.9	76.7	64.6	76.7	69.7
		24"	76.7	49.7	76.7	49.4	76.7	48.5	76.7	49.2	76.7	46.2	76.7	48.6	76.7	44.9	76.7	48.2	76.7	41.8	76.7	47.0
		32"	76.7	38.3	76.7	38.1	76.7	37.1	76.5	37.8	72.7	34.8	75.1	37.2	70.4	33.5	74.3	36.8	64.7	30.4	72.2	35.7
		48"	54.4	26.9	52.8	26.7	52.0	25.7	52.1	26.5	47.5	23.3	50.7	25.9	45.2	22.1	49.9	25.5	39.5	18.9	47.9	24.3
		64"	41.8	21.1	40.6	21.0	39.4	19.9	39.9	20.8	34.9	17.6	38.5	20.2	32.5	16.4	37.7	19.8	26.9	13.2	35.7	18.6
	72"	37.6	19.2	36.5	19.1	35.2	18.0	35.8	18.9	30.7	15.7	34.5	18.3	28.3	14.5	33.7	17.9	22.7	11.3	31.6	16.7	
	3	16"	115.0	86.0	115.0	85.5	115.0	84.8	115.0	85.2	115.0	82.5	115.0	84.6	115.0	81.2	115.0	84.3	115.0	78.1	115.0	83.1
		24"	115.0	58.7	115.0	58.3	115.0	57.5	115.0	58.1	115.0	55.2	115.0	57.5	115.0	53.9	115.0	57.1	109.7	50.7	115.0	55.9
		32"	94.4	45.0	91.5	44.7	92.0	43.8	90.8	44.5	87.5	41.5	89.4	43.9	85.2	40.2	88.7	43.5	79.5	37.1	86.6	42.3
		48"	64.3	31.3	62.3	31.2	61.9	30.1	61.7	30.9	57.4	27.8	60.3	30.3	55.0	26.6	59.5	29.9	49.4	23.4	57.4	28.8
64"		49.2	24.5	47.8	24.4	46.8	23.3	47.1	24.1	42.3	21.0	45.7	23.5	40.0	19.7	44.9	23.1	34.3	16.6	42.8	22.0	
72"	44.2	22.2	42.9	22.1	41.8	21.0	42.2	21.9	37.3	18.7	40.8	21.3	34.9	17.4	40.0	20.9	29.3	14.3	38.0	19.7		

LIMIT MAXIMUM POSITIVE(+) LOADS TO 75.0 PSF

SEE SHEET 12 FOR COMP MOUNT INSTALLATION  
 SEE SHEET 13 FOR SCISSOR MOUNT INSTALLATION  
 SEE SHEET 14 FOR INSTAFLASH MOUNT INSTALLATION  
 SEE SHEET 15 FOR ButyL-Foot MOUNT INSTALLATION

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (41.1" X 69.5")  
 AND 72 CELLS PANEL (41.1" X 80").

Sealed: 8/11/2023



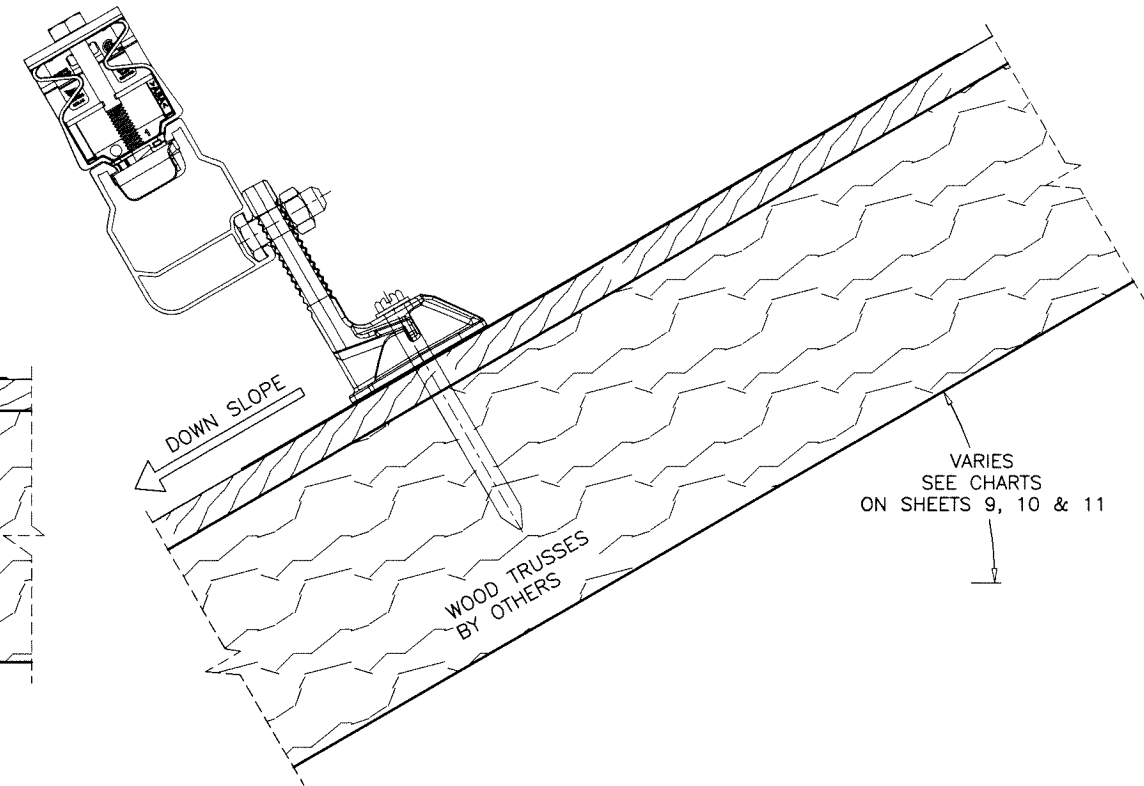
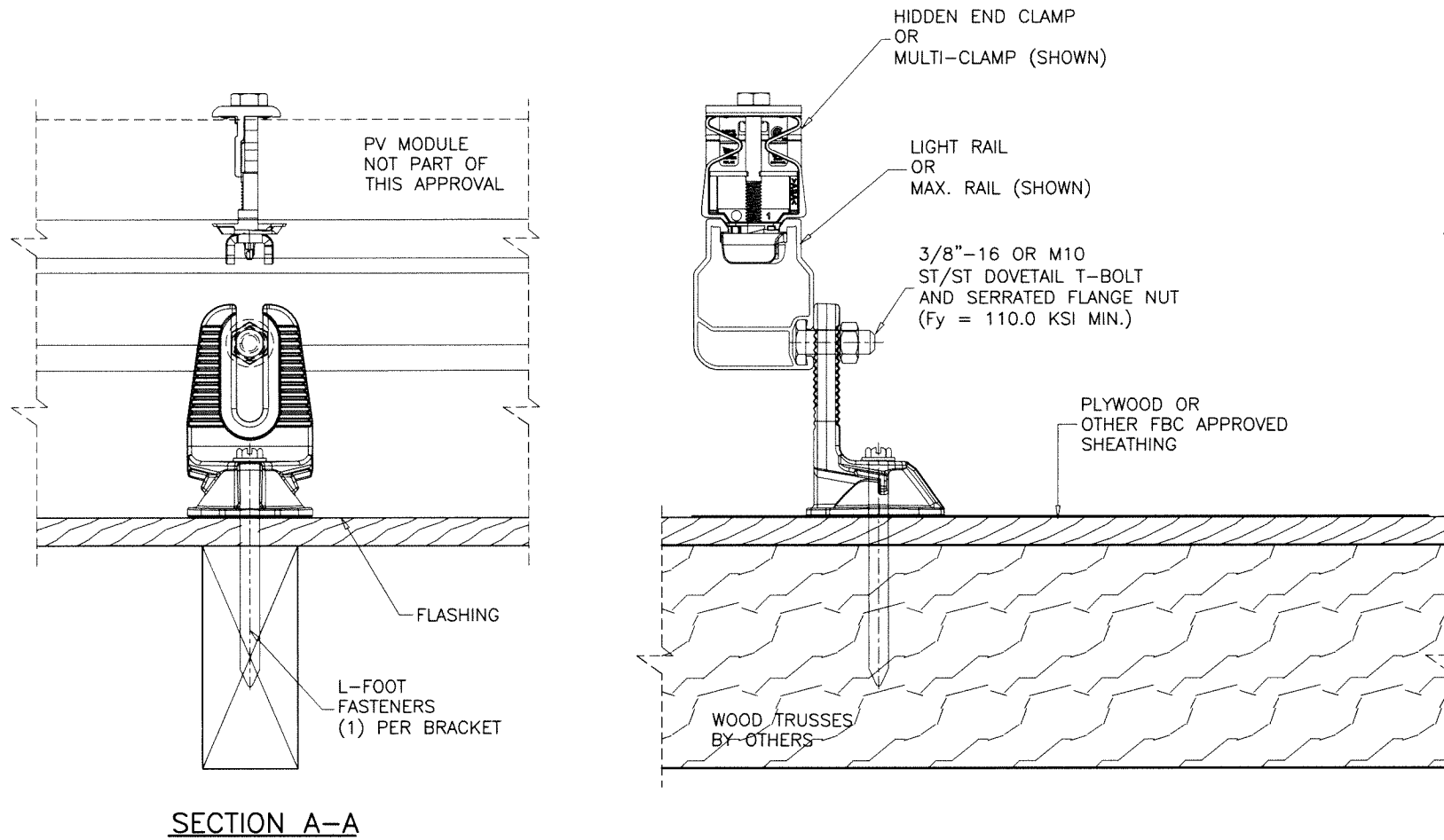
**af c**  
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revisions:	no.	date	by	description
date:	06-31-22			
scale:	-			
dr. by:	TARIQ			
chk. by:				
drawing no.	22-21F			
sheet	11 of 15			

SOLAR-RACK \ 22-21F-PS  
 FBPE #3538

# COMP MOUNT GEN2 L-FOOT

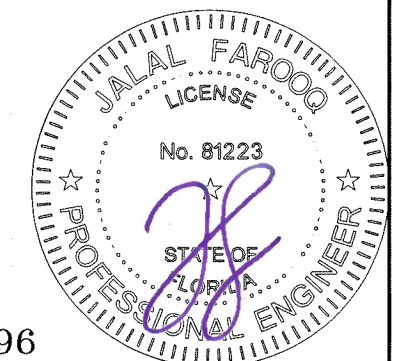


### L-FOOT FASTENERS:

5/16" X 4-1/2" ST/ST LAG SCREWS (Fy = 65 KSI MIN.)  
 2-1/2" MIN. THREAD PENETRATION INTO WOOD TRUSSES  
 CENTERED AT WOOD TRUSSES (SG = 0.50 MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 806.7 Lbs MAX.  
 SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 165.9 Lbs MAX.

Sealed: 8/11/2023



FL #41396

**af c**  
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 WWW.AFCENG.COM  
 FBPE #3538  
 SOLAR-RACK\22-21F-PS

ROOF TOP PV MOUNTING SYSTEM  
**Pegasus Solar Inc.**  
 506 West Ohio Avenue  
 Richmond CA. 94804  
 Phone: (510) 210-3797  
 www.pegasussolar.com

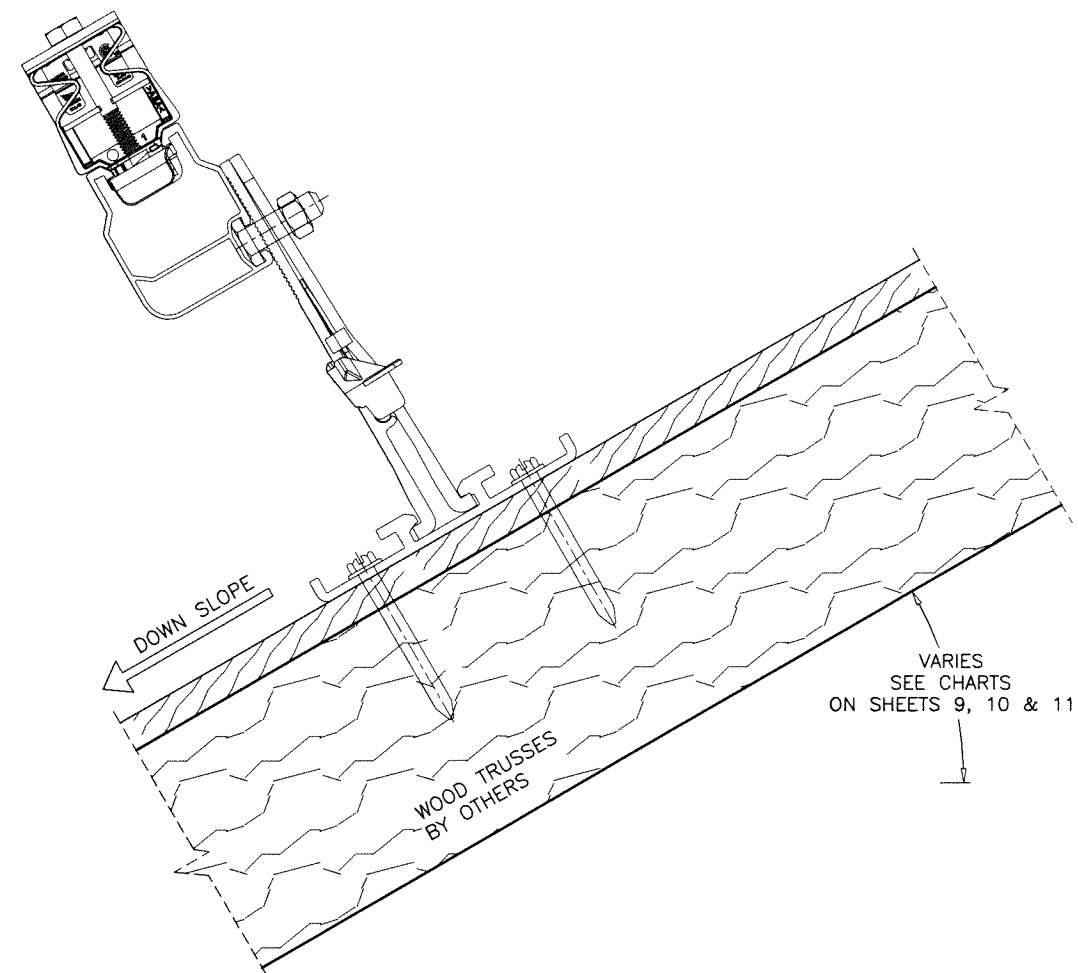
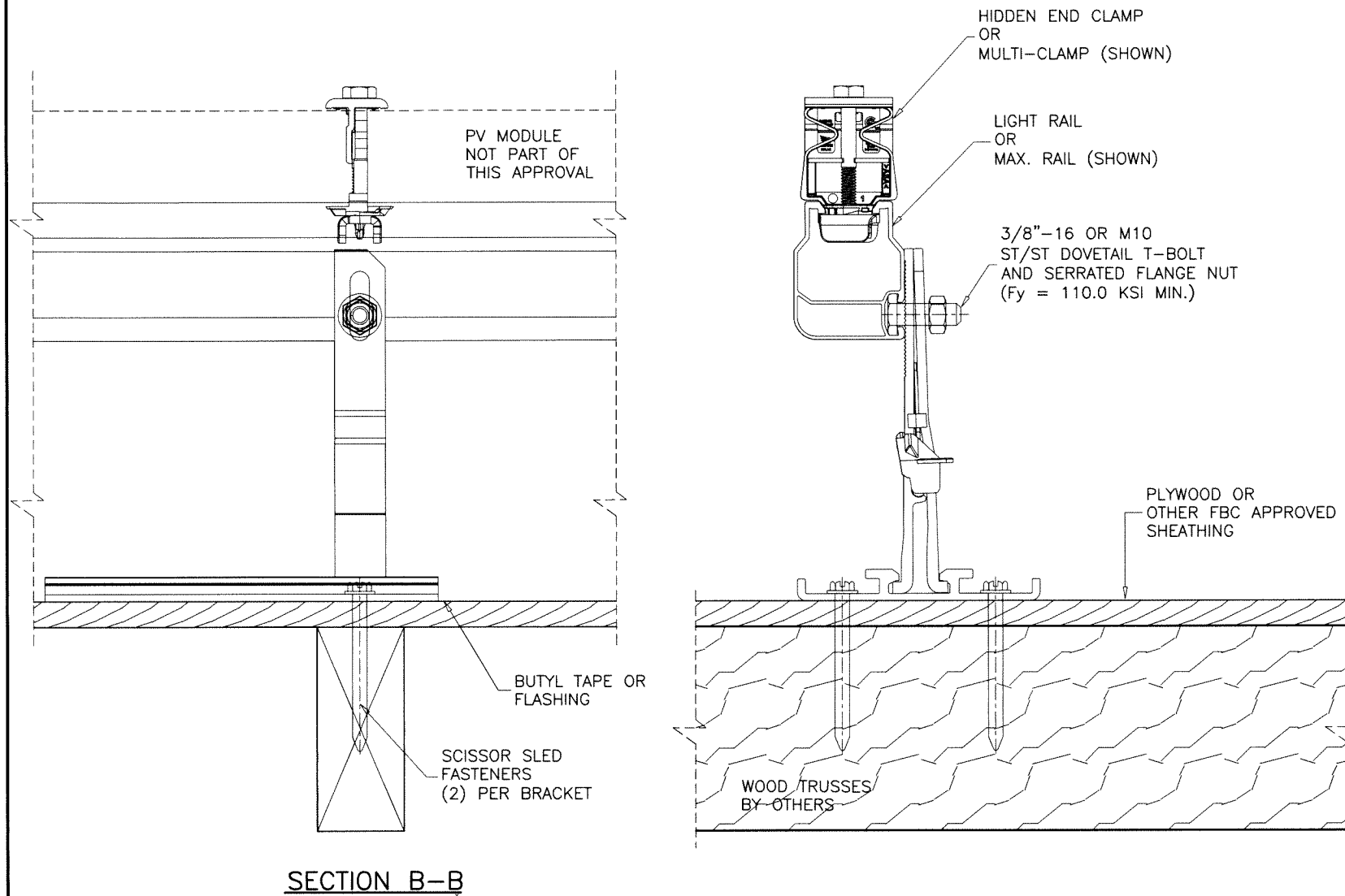
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date: 06-31-22  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**22-21F**  
 sheet 12 of 15



# SCISSOR MOUNT ASSEMBLY



### SCISSOR SLED FASTENERS:

**5/16" X 3-1/2" ST/ST LAG SCREWS** (Fy = 65 KSI MIN.)  
 2-1/2" MIN. THREAD PENETRATION INTO WOOD TRUSSES  
 CENTERED AT WOOD TRUSSES (SG = 0.50 MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 365.7 Lbs MAX.  
 SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 153.1 Lbs MAX.

Sealed: 8/11/2023



FL #41396

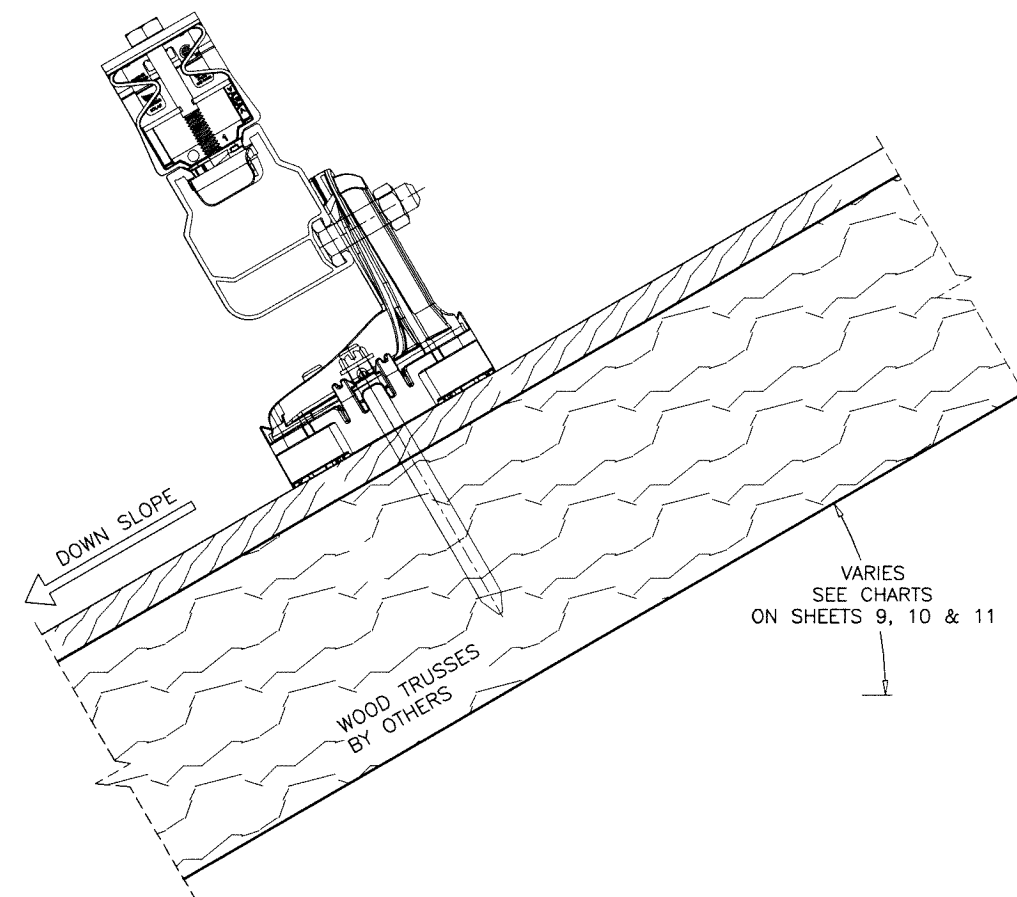
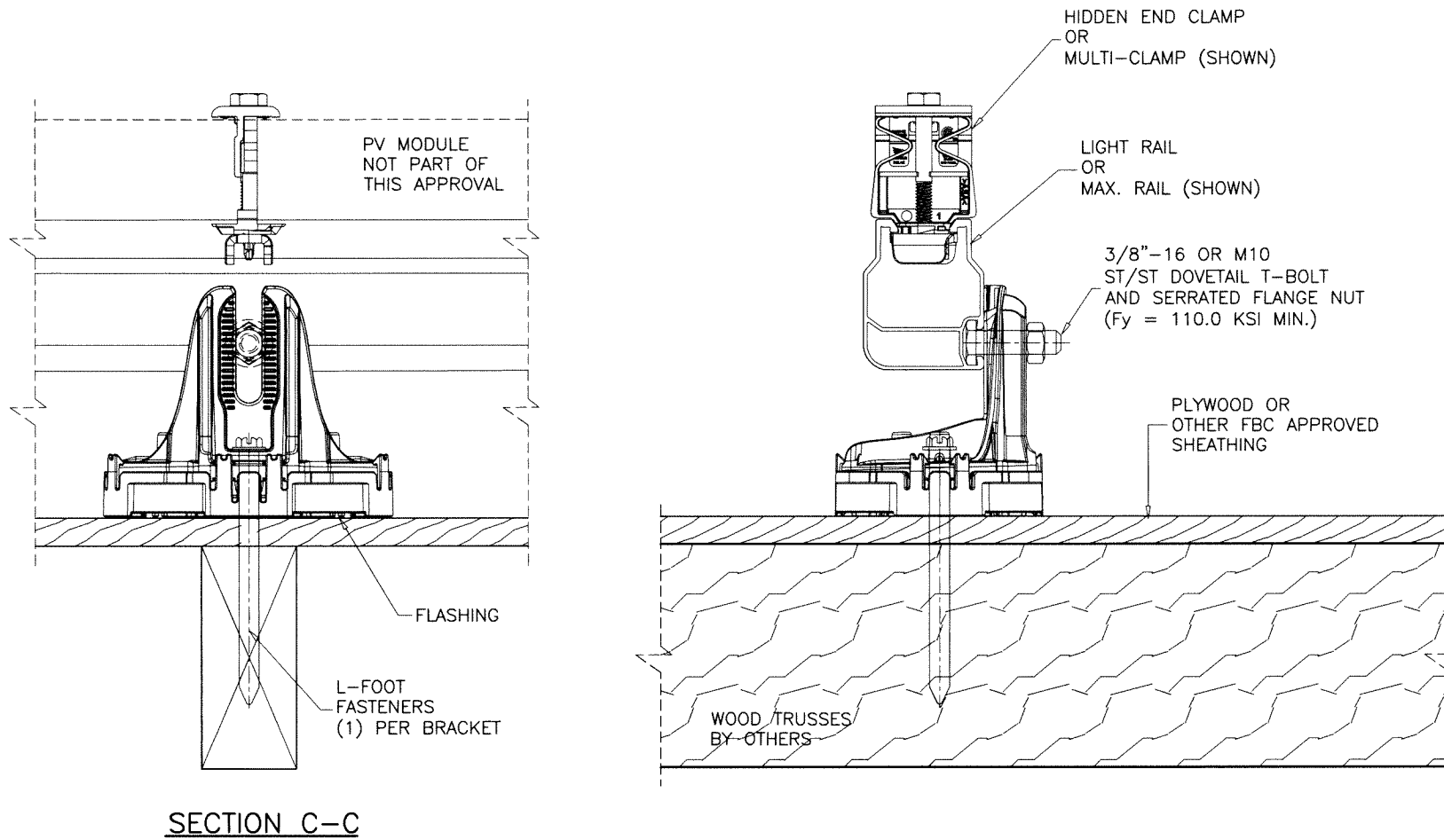
**afc**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL: (305) 264-8100  
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revisions:	no	date	by	description

date: 06-31-22  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:  
 drawing no.  
**22-21F**  
 sheet 13 of 15

# INSTAFLASH MOUNT

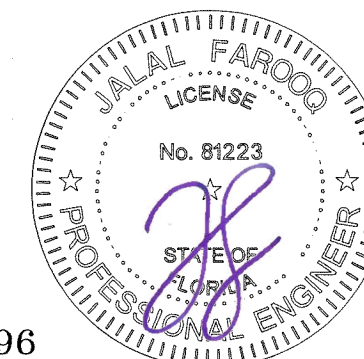


## INSTAFLASH MOUNT FASTENERS:

5/16" X 4" ST/ST LAG SCREWS (Fy = 65 KSI MIN.)  
 2-1/2" MIN. THREAD PENETRATION INTO WOOD TRUSSES  
 CENTERED AT WOOD TRUSSES (SG = 0.50 MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 780.5 Lbs MAX.  
 SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 587.7 Lbs MAX.

Sealed: 8/11/2023



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ROOF TOP PV MOUNTING SYSTEM

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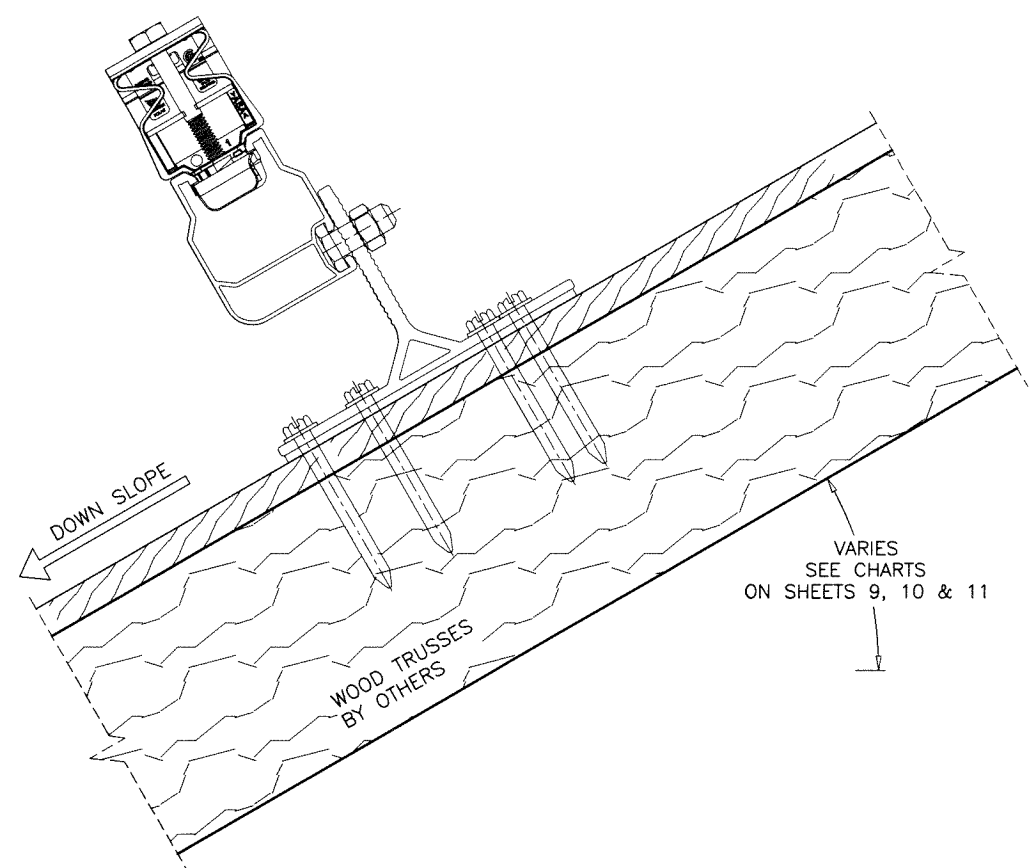
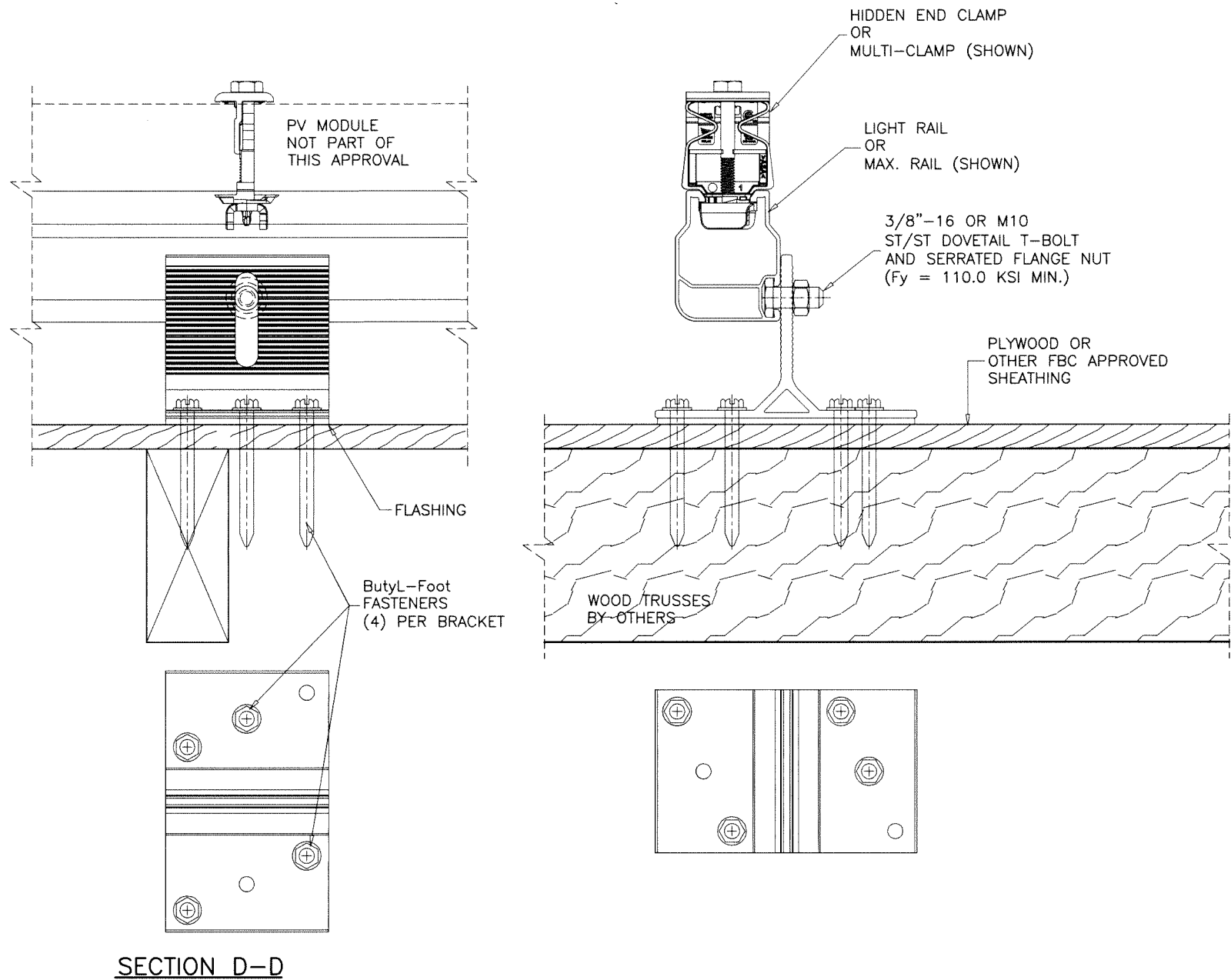
revisions:  
 no. date by description

date: 06-31-22  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**22-21F**

sheet 14 of 15

# ButyL-Foot MOUNT



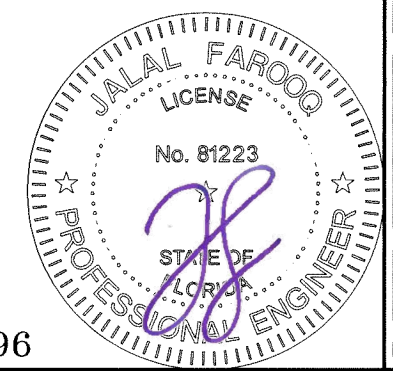
### ButyL-Foot MOUNT FASTENERS:

- #14 X 60MM WOOD SCREWS ( $F_y = 65$  KSI MIN.)
- 1-1/2" MIN. THREAD PENETRATION INTO WOOD TRUSSES
- (2) CENTERED AT WOOD TRUSSES ( $SG = 0.50$  MIN.)
- (2) IN ADJACENT HOLES SEE DETAIL ABOVE

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 363.4 Lbs MAX.  
 SHEAR RESISTANCE (PERPENDICULAR TO RAFTER) = 830.2 Lbs MAX.

Sealed: 8/11/2023

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revisions:	no	date	by	description

date: 06-31-22  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**22-21F**  
 sheet 15 of 15