

ROOF TOP PV MOUNTING SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH 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.

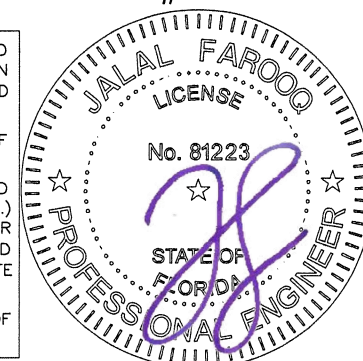
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SELECT LIGHT RAIL OR MAX. RAIL FOR REQUIRED LOADS FROM LANDSCAPE OR PORTRAIT RAIL CAPACITY CHARTS SHOWN ON SHEET 8.
- STEP 3** VERIFY HIDDEN & MULTI-CLAMP CAPACITY USING CHART ON SHEET 8.
- STEP 4** SELECT ROOF MOUNT TYPE CAPACITY FOR LANDSCAPE INSTALLATION USING CHARTS ON SHEET 9 AND PORTRAIT INSTALLATION USING CHARTS ON SHEET 10 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: 2/13/2023

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.



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 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100
 WWW.AFCENG.COM
 FBPE #3538
 SOLAR-RACK\22-21F-PS

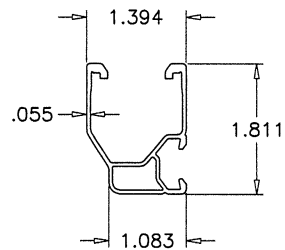
ROOF TOP PV MOUNTING SYSTEM
Pegasus Solar Inc.
 506 West Ohio Avenue
 Richmond CA. 94804
 Phone: (510) 210-3797
 www.pegasussolar.com

revisions:	no.	date	by	description
	A	02.07.23		INSTAFASH MOUNT ADDED

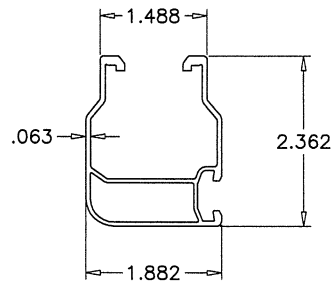
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 chk. by:

drawing no.
22-21F

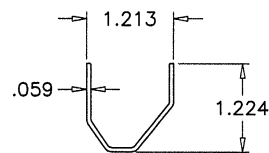
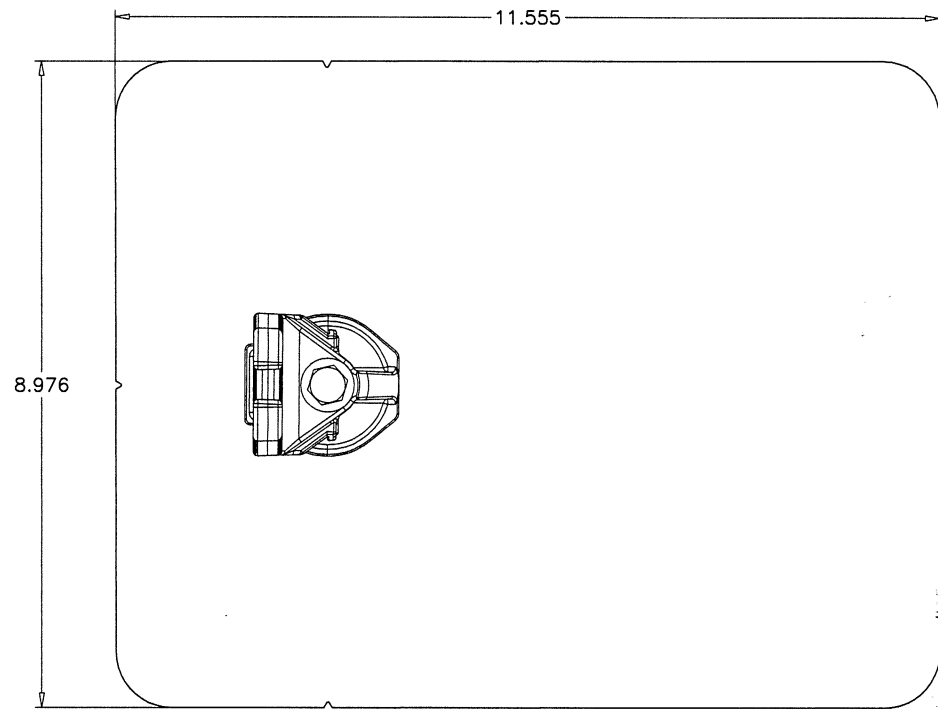
sheet 1 of 13



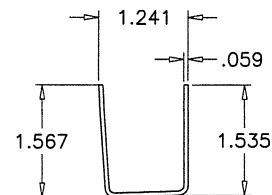
LIGHT RAIL
6000 SERIES ALUMINUM
(Fy MIN. = 35.0 KSI)
(Fu MIN. = 38.0 KSI)
(Kt = 1.0)



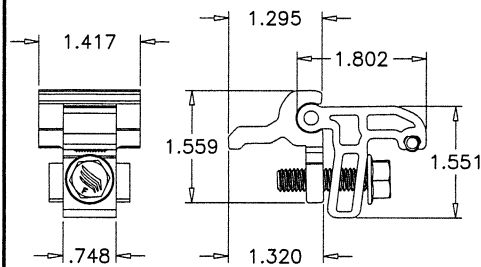
MAX. RAIL
6000 SERIES ALUMINUM
(Fy MIN. = 35.0 KSI)
(Fu MIN. = 38.0 KSI)
(Kt = 1.0)



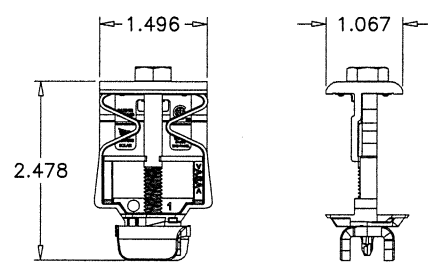
LIGHT RAIL SPLICE
300 SERIES ST. STEEL OR EQUIVALENT
(Fy MIN. = 110.0 KSI)
(Fu MIN. = 150.0 KSI)



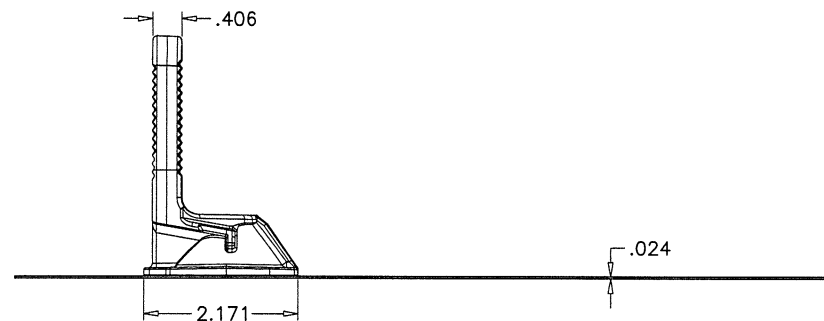
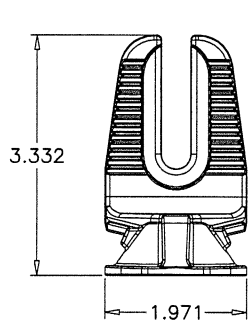
MAX. RAIL SPLICE
300 SERIES ST. STEEL OR EQUIVALENT
(Fy MIN. = 110.0 KSI)
(Fu MIN. = 150.0 KSI)



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)

af c
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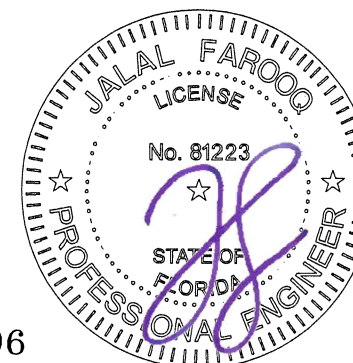
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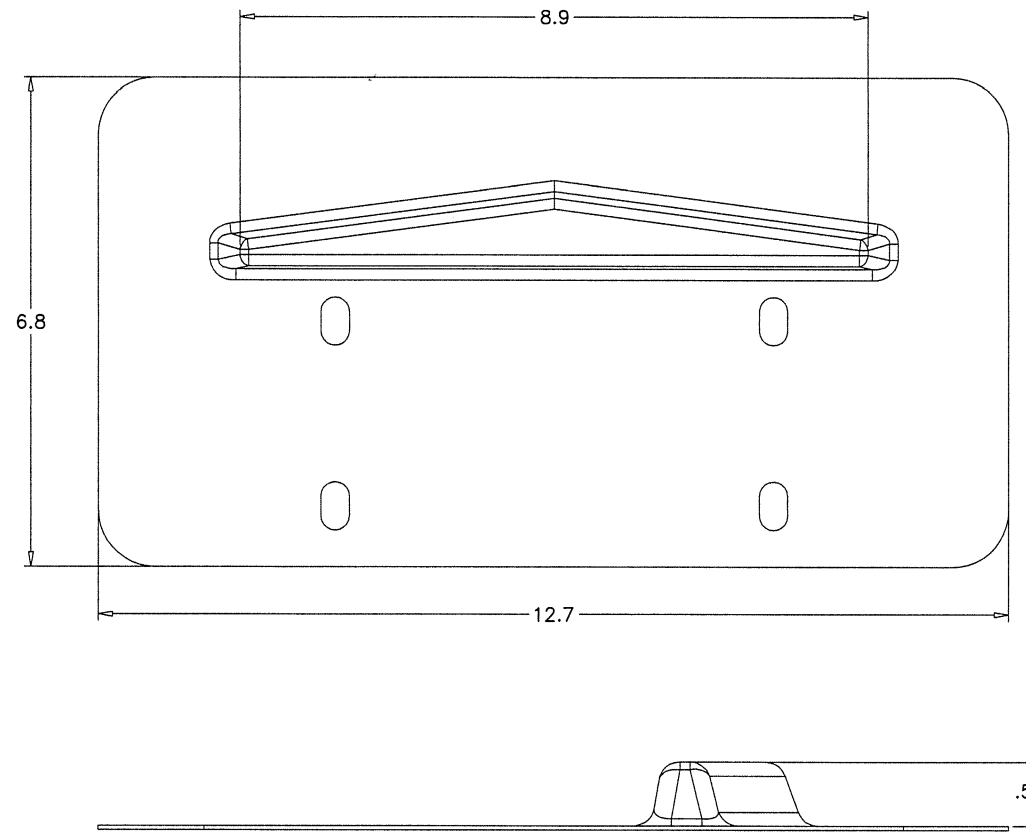
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dr. by: TARIQ
chk. by:

drawing no.
22-21F
sheet 2 of 13

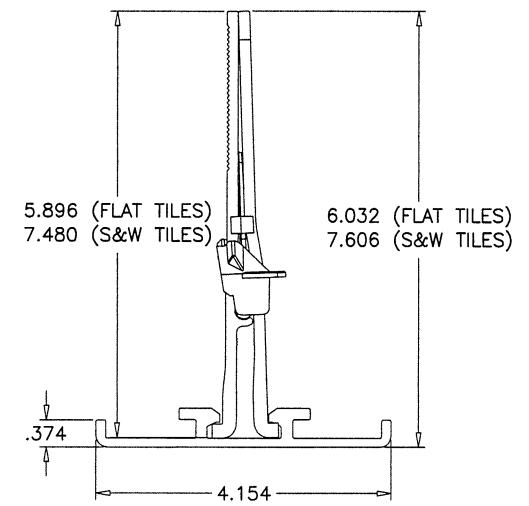
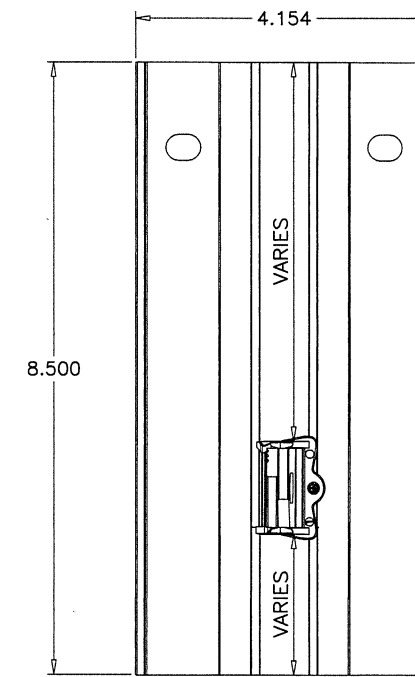
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BASE FLASHING (OPTIONAL)

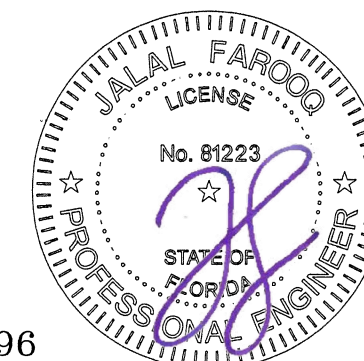


SCISSOR MOUNT ASSEMBLY

6000 SERIES ALUMINUM
 (F_y MIN. = 35.0 KSI)
 (F_u MIN. = 38.0 KSI)

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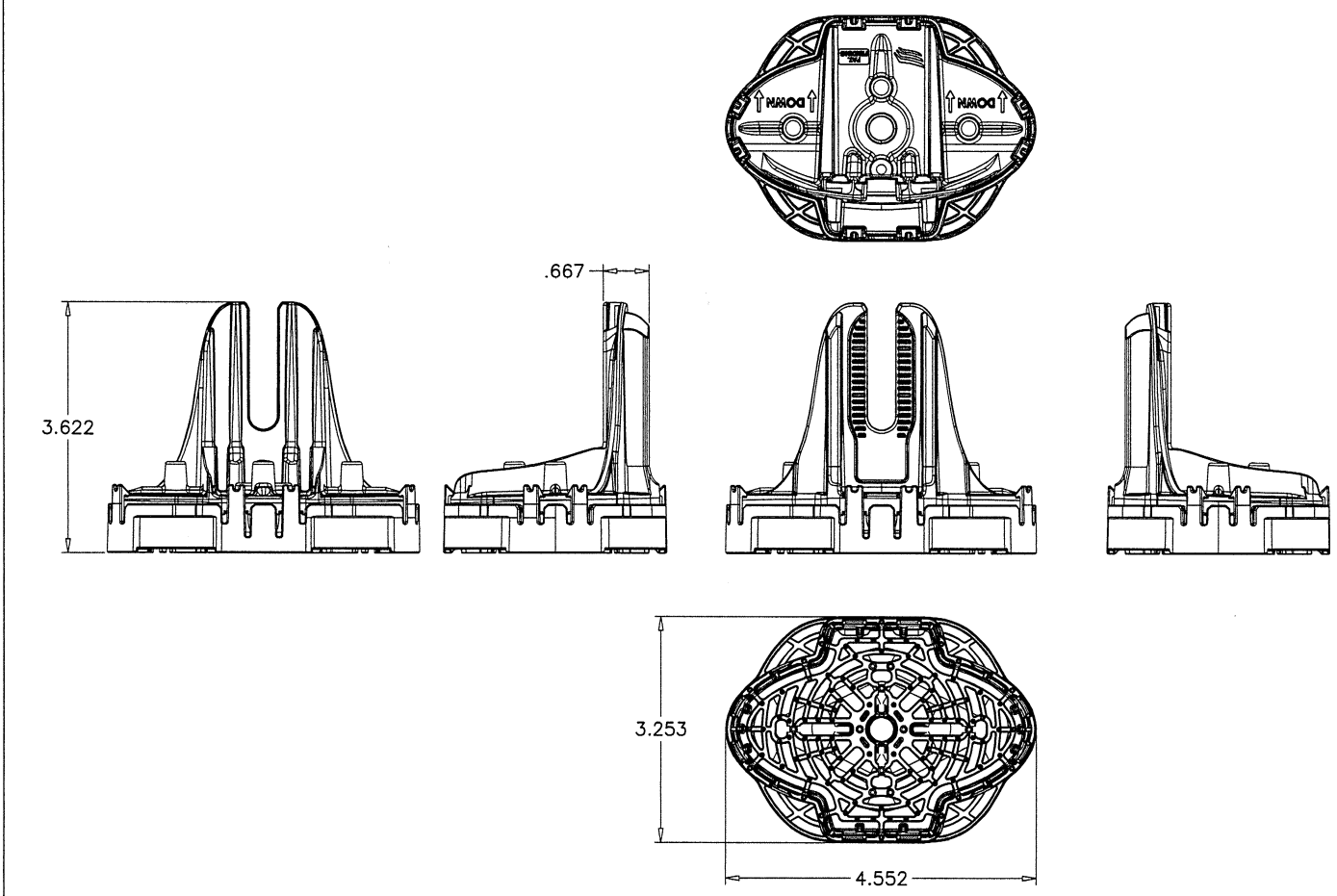
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 sheet 3 of 13

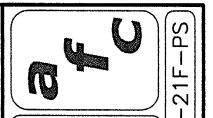


INSTAFLASH MOUNT
 CAST ALUMINUM
 (Fy MIN. = 23 KSI)
 (Fu MIN. = 47 KSI)



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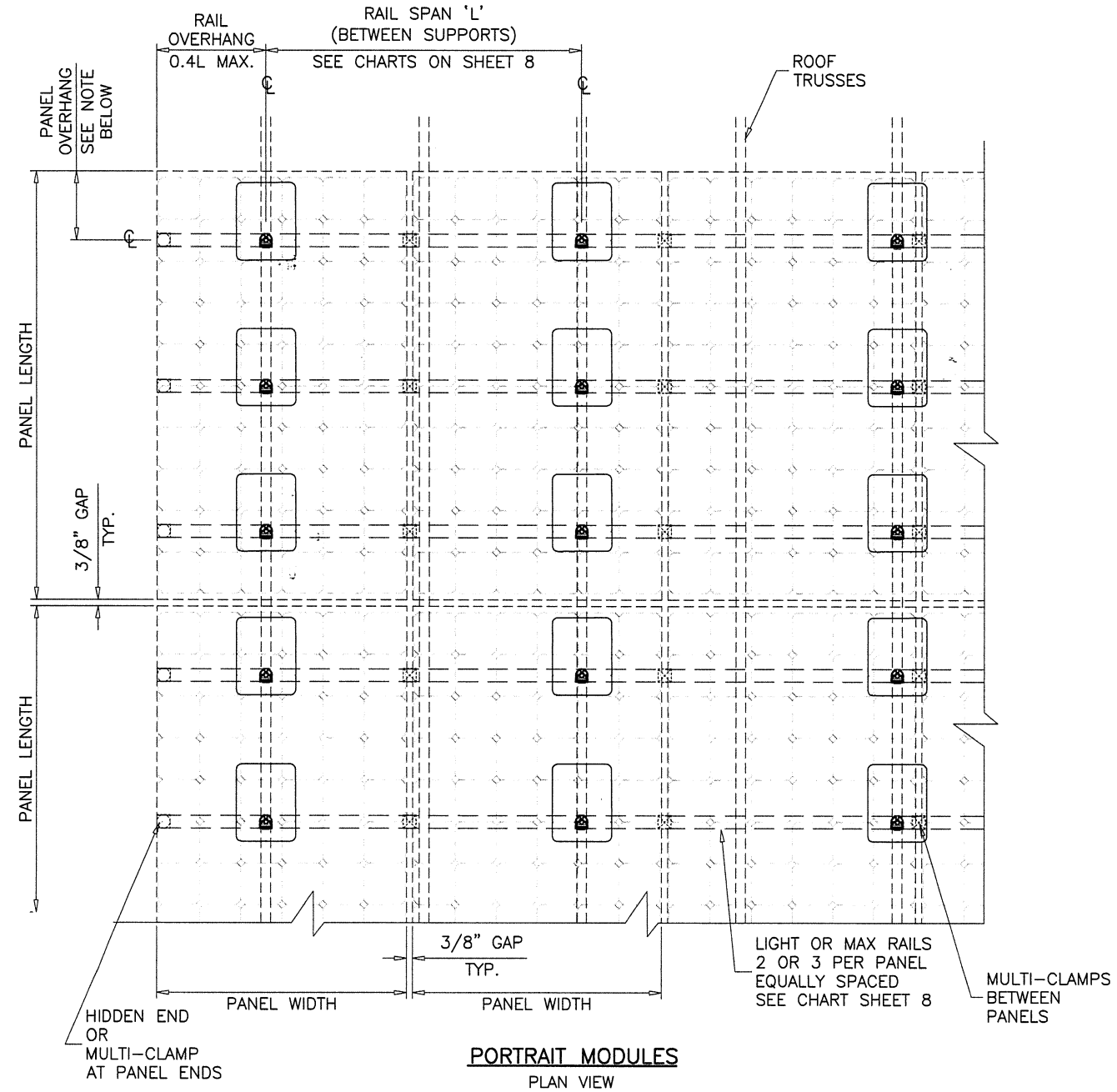
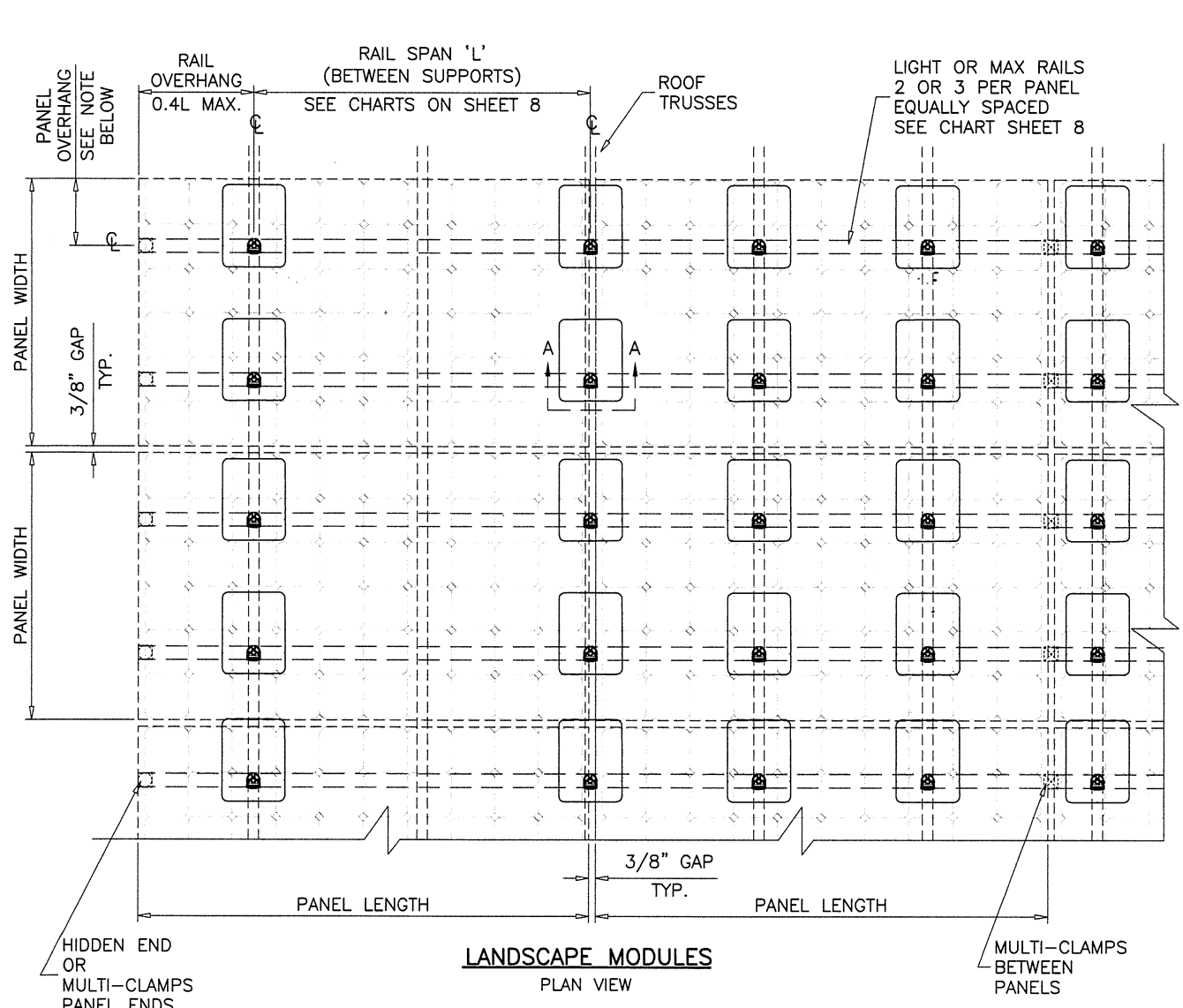
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drawing no.
22-21F

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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.

COMP MOUNT GEN2 L-FOOT

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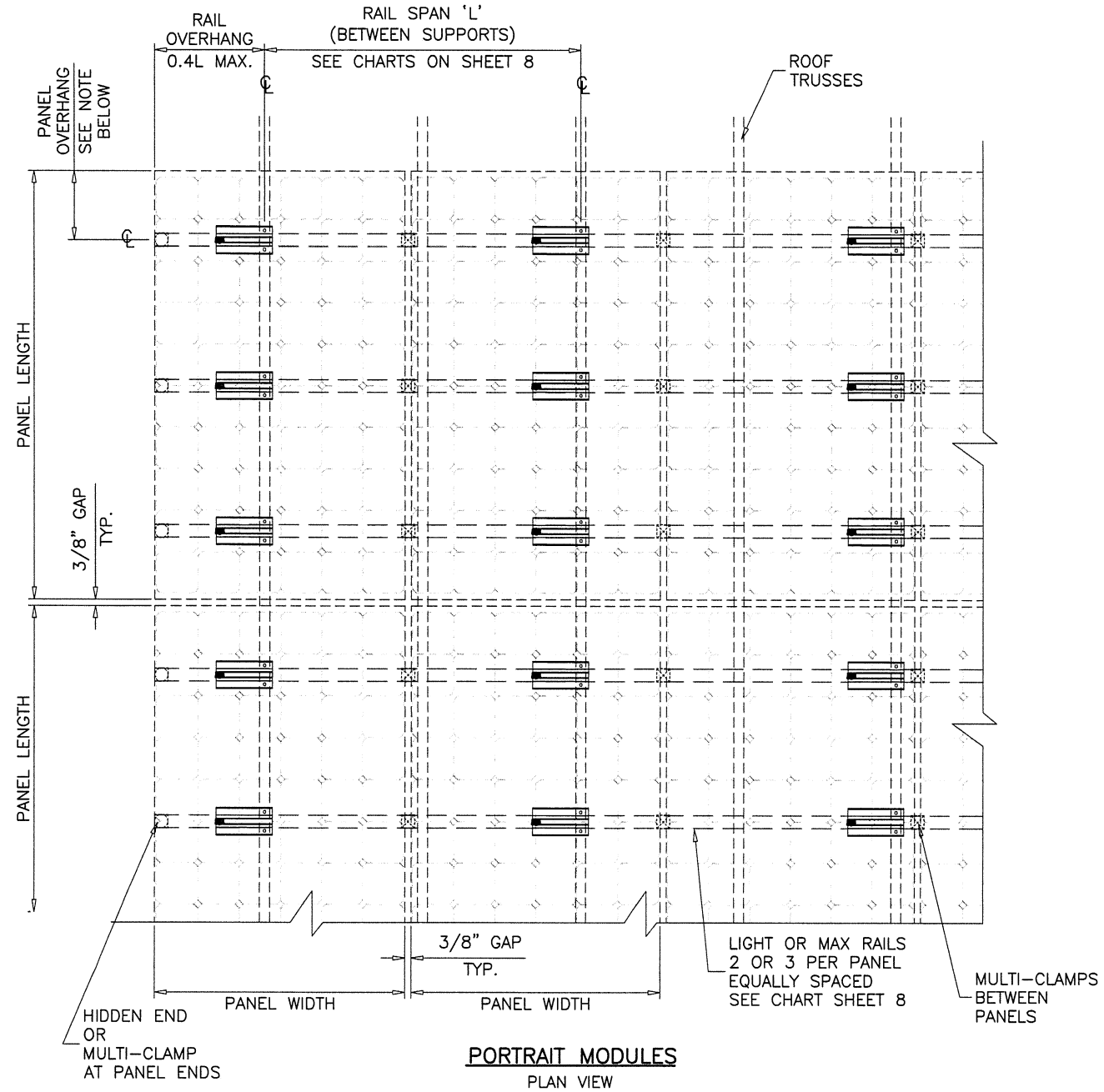
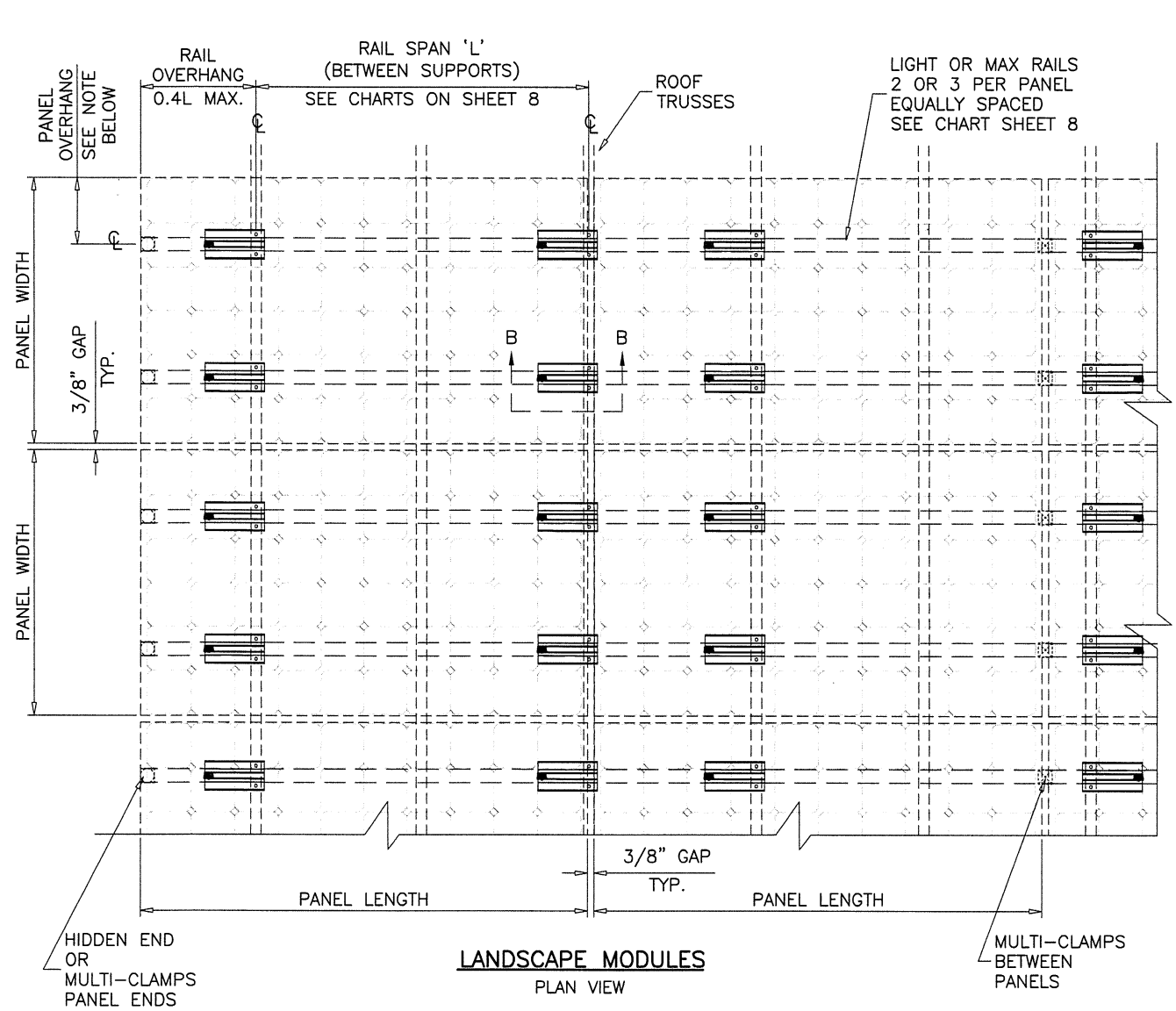
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sheet 5 of 13

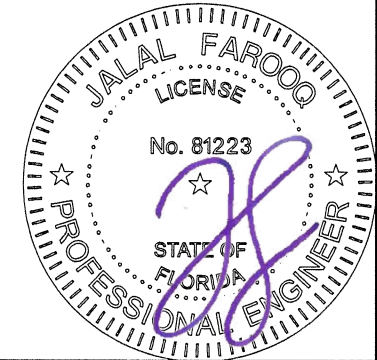


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SCISSOR MOUNT ASSEMBLY

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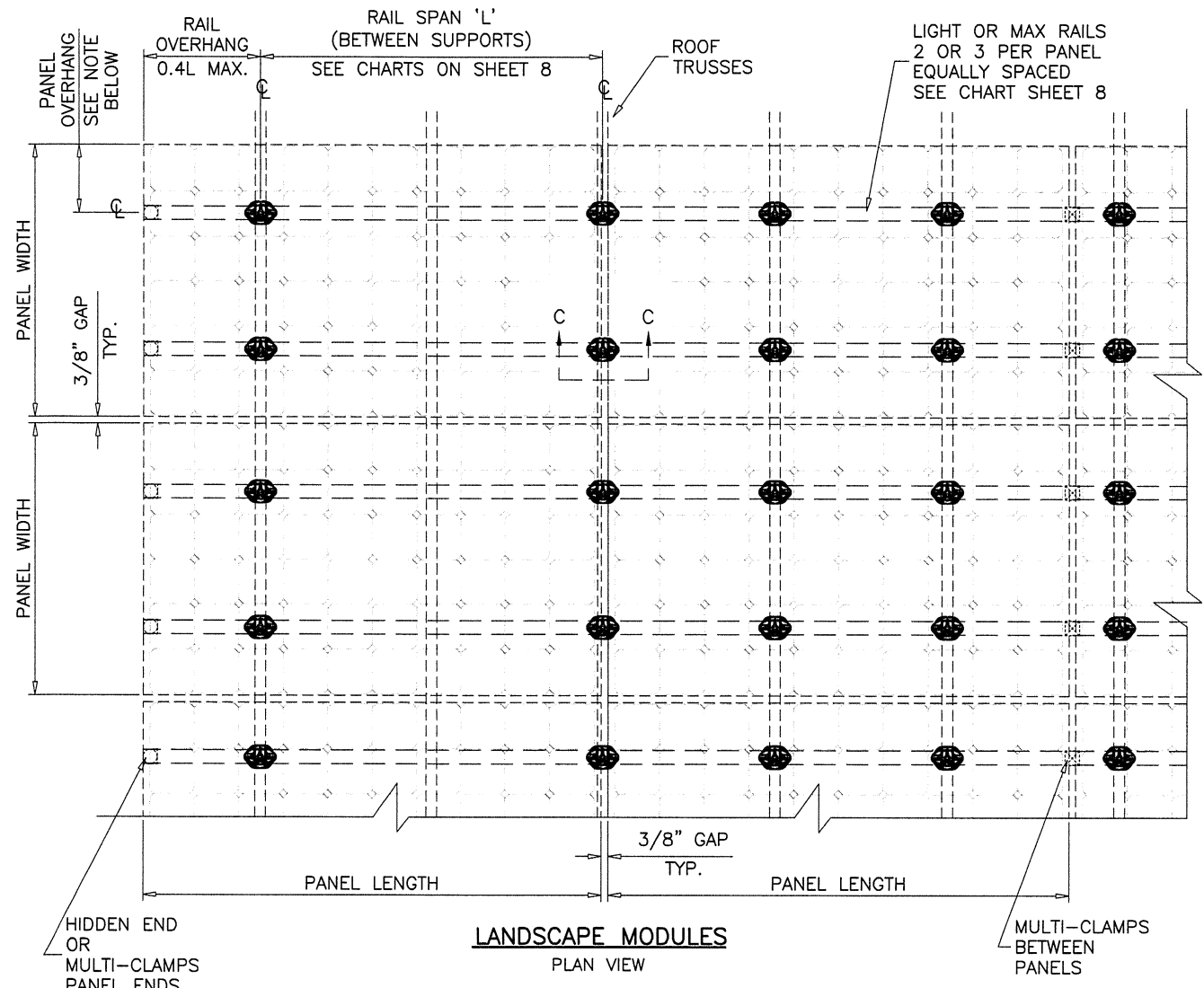
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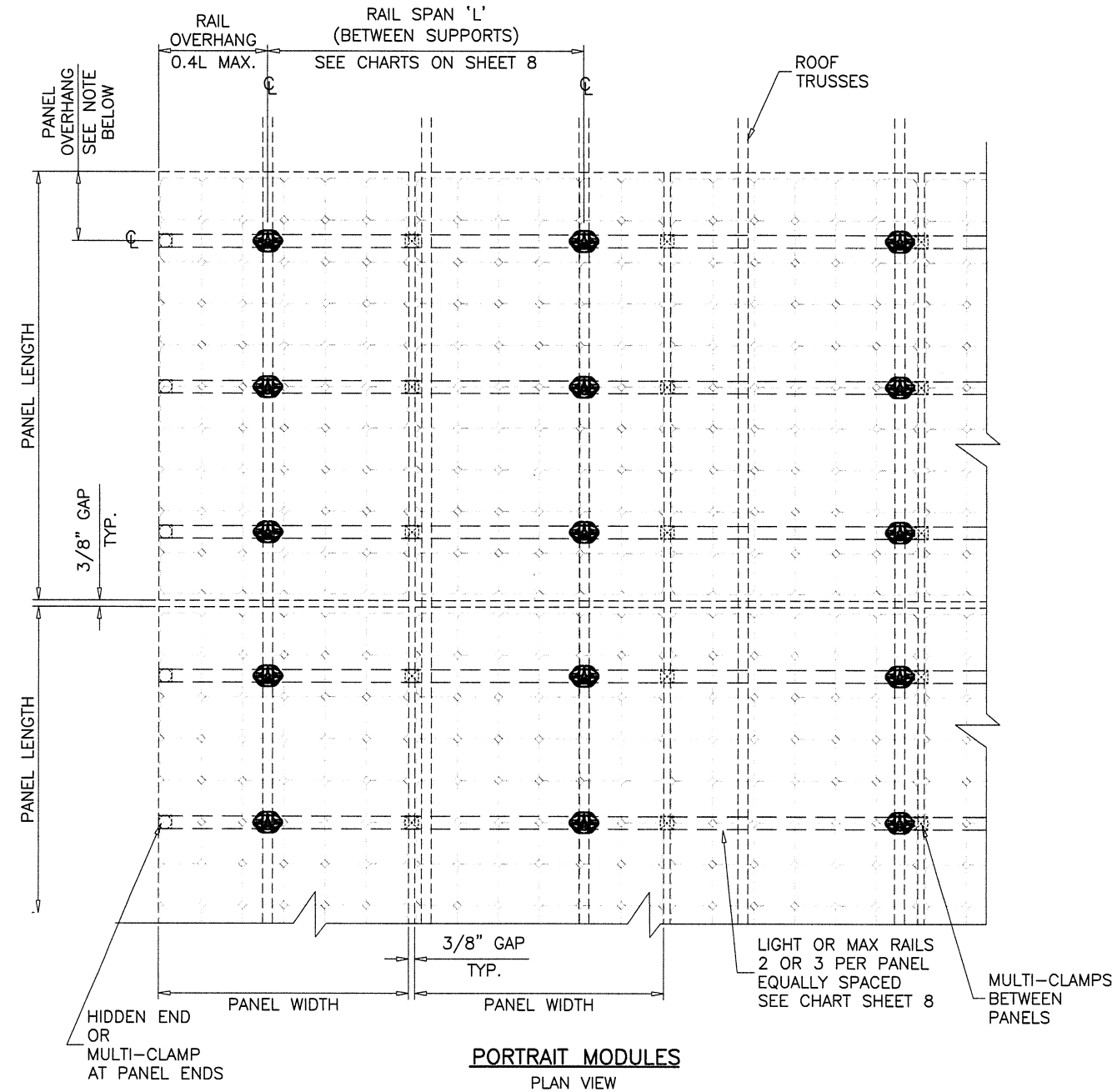
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 dr. by: TARIQ
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drawing no.
22-21F

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LANDSCAPE MODULES
PLAN VIEW



PORTRAIT MODULES
PLAN VIEW

NOTES:
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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.

INSTAFLASH MOUNT

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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

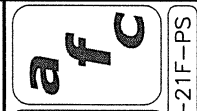
LIMIT MAXIMUM POSITIVE(+) LOADS TO 75.0 PSF

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").

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revisions:	no	date	description
date:	06-31-22	scale:	-
dr. by:	TARIQ	chk. by:	
drawing no.	22-21F		
sheet	8 of 13		

COMP MOUNT, SCISSOR MOUNT & INSTAFLASH MOUNT

ROOF MOUNTS DESIGN LOAD CAPACITY - PSF (LANDSCAPE MODULES)

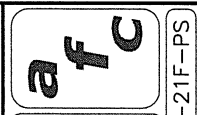
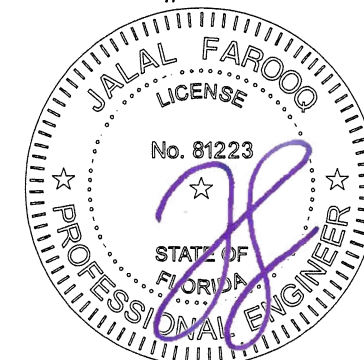
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS			ROOF SLOPES UP TO 7°			ROOF SLOPES 8° TO 20°			ROOF SLOPES 21° TO 27°			ROOF SLOPES 28° TO 45°		
			COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH 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
		24"	115.0	93.0	115.0	115.0	91.8	115.0	115.0	89.5	115.0	115.0	88.2	115.0	115.0	85.1	115.0
		32"	115.0	70.7	115.0	115.0	69.5	115.0	115.0	67.2	115.0	115.0	66.0	115.0	115.0	62.8	115.0
		48"	102.1	48.5	99.0	99.7	47.3	98.3	95.2	45.0	96.9	92.9	43.7	96.1	87.2	40.6	94.0
		64"	77.6	37.4	75.2	75.2	36.2	74.5	70.7	33.9	73.2	68.3	32.6	72.4	62.7	29.4	70.3
		72"	69.4	33.7	67.3	67.0	32.5	66.6	62.5	30.2	65.2	60.2	28.9	64.5	54.5	25.7	62.4
	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
		24"	115.0	110.4	115.0	115.0	109.2	115.0	115.0	106.9	115.0	115.0	105.6	115.0	115.0	102.5	115.0
		32"	115.0	83.8	115.0	115.0	82.6	115.0	115.0	80.3	115.0	115.0	79.0	115.0	115.0	75.9	115.0
		48"	115.0	57.2	115.0	115.0	56.0	115.0	114.5	53.7	115.0	112.1	52.4	114.7	106.4	49.3	112.6
		64"	92.0	43.9	89.2	89.6	42.7	88.5	85.1	40.4	87.1	82.8	39.1	86.3	77.1	36.0	84.2
		72"	82.2	39.5	79.7	79.8	38.3	79.0	75.3	36.0	77.6	73.0	34.7	76.9	67.3	31.5	74.8
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
		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
		32"	76.7	70.7	76.7	76.7	69.5	76.7	76.7	67.2	76.7	76.7	66.0	76.7	76.7	62.8	76.7
		48"	76.7	48.5	76.7	76.7	47.3	76.7	76.7	45.0	76.7	76.7	43.7	76.7	76.7	40.6	76.7
		64"	76.7	37.4	75.2	75.2	36.2	74.5	70.7	33.9	73.2	68.3	32.6	72.4	62.7	29.4	70.3
		72"	69.4	33.7	67.3	67.0	32.5	66.6	62.5	30.2	65.2	60.2	28.9	64.5	54.5	25.7	62.4
	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
		24"	115.0	110.4	115.0	115.0	109.2	115.0	115.0	106.9	115.0	115.0	105.6	115.0	115.0	102.5	115.0
		32"	115.0	83.8	115.0	115.0	82.6	115.0	115.0	80.3	115.0	115.0	79.0	115.0	115.0	75.9	115.0
		48"	115.0	57.2	115.0	115.0	56.0	115.0	114.5	53.7	115.0	112.1	52.4	114.7	106.4	49.3	112.6
		64"	92.0	43.9	89.2	89.6	42.7	88.5	85.1	40.4	87.1	82.8	39.1	86.3	77.1	36.0	84.2
		72"	82.2	39.5	79.7	79.8	38.3	79.0	75.3	36.0	77.6	73.0	34.7	76.9	67.3	31.5	74.8

LIMIT MAXIMUM POSITIVE(+) LOADS TO 75.0 PSF

SEE SHEET 11 FOR COMP MOUNT INSTALLATION
 SEE SHEET 12 FOR SCISSOR MOUNT INSTALLATION
 SEE SHEET 13 FOR INSTAFLASH 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: 2/13/2023



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revisions:	no	date	by	description
date:	06-31-22	scale:	-	dr. by: TARIQ
chk. by:				
drawing no.	22-21F			
sheet	9 of 13			

SOLAR-RACK\22-21F-PS

COMP MOUNT, SCISSOR MOUNT & INSTAFLASH 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	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT	COMP MOUNT	SCISSOR MOUNT	INSTAFLASH MOUNT
69-1/2"	2	16"	115.0	82.9	115.0	115.0	81.7	115.0	115.0	79.4	115.0	115.0	78.2	115.0	75.0	115.0	
		24"	115.0	56.6	115.0	115.0	55.4	115.0	113.2	53.1	114.2	110.8	51.8	113.5	105.1	48.7	111.4
		32"	91.1	43.5	88.2	88.7	42.3	87.5	84.2	40.0	86.2	81.8	38.7	85.4	76.1	35.5	83.3
		48"	62.0	30.3	60.2	59.6	29.1	59.5	55.1	26.8	58.1	52.8	25.5	57.3	47.1	22.4	55.2
		64"	47.5	23.7	46.1	45.1	22.5	45.4	40.6	20.2	44.1	38.3	19.0	43.3	32.6	15.8	41.2
		72"	42.7	21.5	41.4	40.3	20.3	40.8	35.8	18.0	39.4	33.4	16.8	38.6	27.8	13.6	36.5
	3	16"	115.0	98.4	115.0	115.0	97.2	115.0	115.0	94.9	115.0	115.0	93.6	115.0	115.0	90.5	115.0
		24"	115.0	66.9	115.0	115.0	65.7	115.0	115.0	63.4	115.0	115.0	62.2	115.0	115.0	59.0	115.0
		32"	108.1	51.2	104.7	105.7	50.0	104.0	101.2	47.7	102.7	98.8	46.4	101.9	93.2	43.3	99.8
		48"	73.4	35.5	71.1	71.0	34.3	70.5	66.5	32.0	69.1	64.1	30.7	68.3	58.5	27.5	66.2
80"	2	16"	76.7	72.6	76.7	76.7	71.4	76.7	76.7	69.1	76.7	76.7	67.8	76.7	76.7	64.6	76.7
		24"	76.7	49.7	76.7	76.7	48.5	76.7	76.7	46.2	76.7	76.7	44.9	76.7	76.7	41.8	76.7
		32"	76.7	38.3	76.7	76.7	37.1	76.5	72.7	34.8	75.1	70.4	33.5	74.3	64.7	30.4	72.2
		48"	54.4	26.9	52.8	52.0	25.7	52.1	47.5	23.3	50.7	45.2	22.1	49.9	39.5	18.9	47.9
		72"	37.6	19.2	36.5	35.2	18.0	35.8	30.7	15.7	34.5	28.3	14.5	33.7	22.7	11.3	31.6
	3	16"	115.0	86.0	115.0	115.0	84.8	115.0	115.0	82.5	115.0	115.0	81.2	115.0	115.0	78.1	115.0
		24"	115.0	58.7	115.0	115.0	57.5	115.0	115.0	55.2	115.0	115.0	53.9	115.0	109.7	50.7	115.0
		32"	94.4	45.0	91.5	92.0	43.8	90.8	87.5	41.5	89.4	85.2	40.2	88.7	79.5	37.1	86.6
		48"	64.3	31.3	62.3	61.9	30.1	61.7	57.4	27.8	60.3	55.0	26.6	59.5	49.4	23.4	57.4
		72"	44.2	22.2	42.9	41.8	21.0	42.2	37.3	18.7	40.8	34.9	17.4	40.0	29.3	14.3	38.0

LIMIT MAXIMUM POSITIVE(+) LOADS TO 75.0 PSF

SEE SHEET 11 FOR COMP MOUNT INSTALLATION
 SEE SHEET 12 FOR SCISSOR MOUNT INSTALLATION
 SEE SHEET 13 FOR INSTAFLASH MOUNT INSTALLATION

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (41.1" X 69.5")
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 MIAMI, FLORIDA 33173
 TEL: (305) 264-8100 WWW.AFCENG.COM
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revisions:	no	date	by	description

date: 06-31-22

scale: -

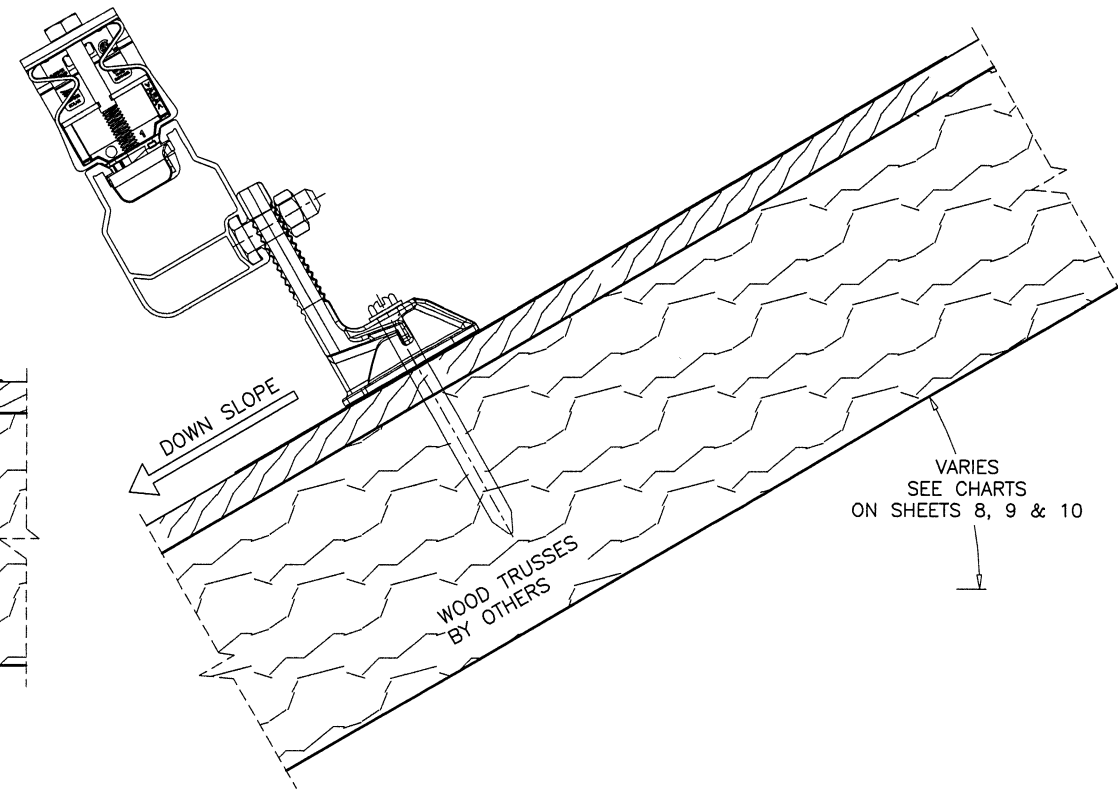
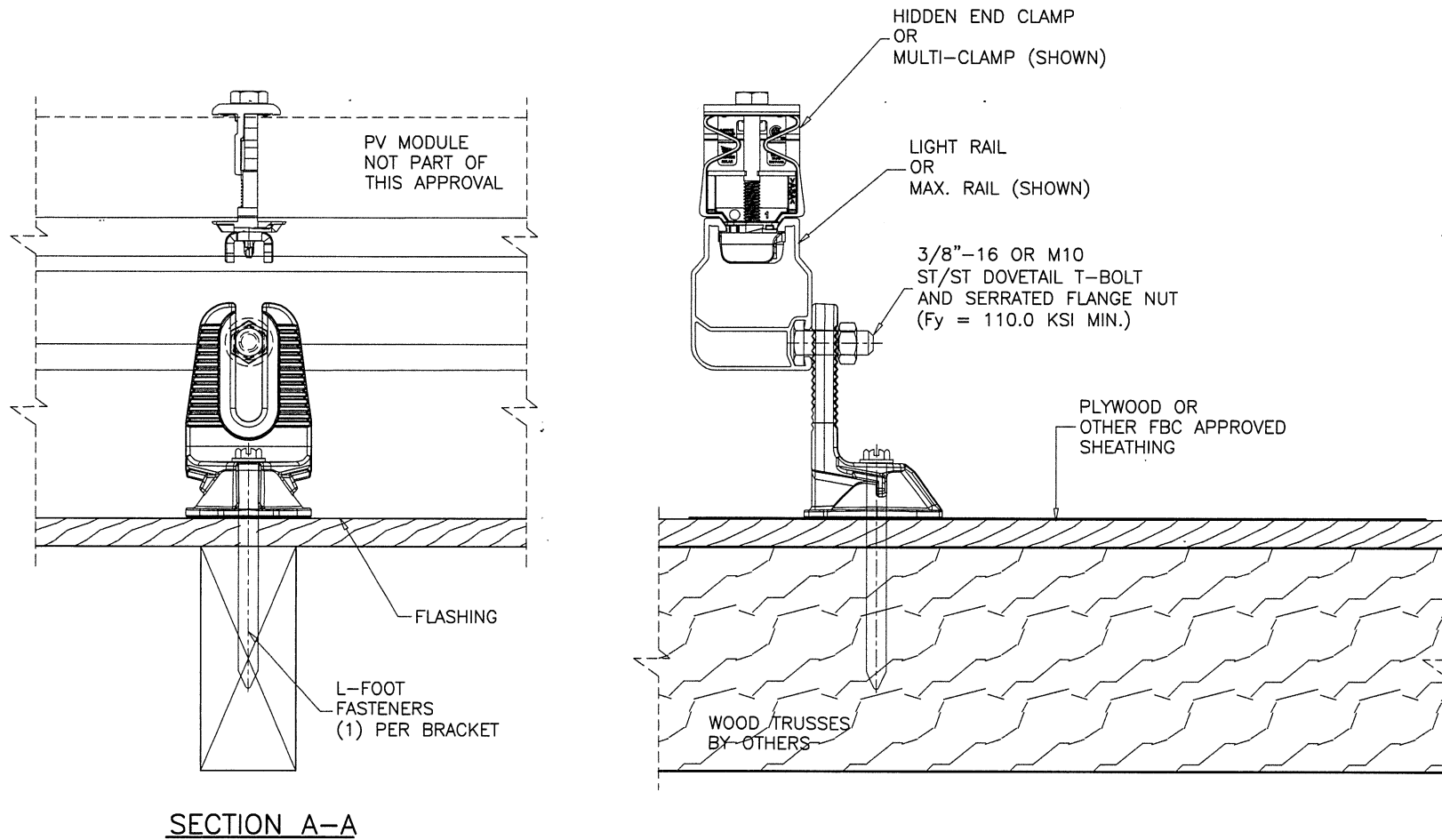
dr. by: TARIQ

chk. by:

drawing no.
22-21F

sheet 10 of 13

COMP MOUNT GEN2 L-FOOT



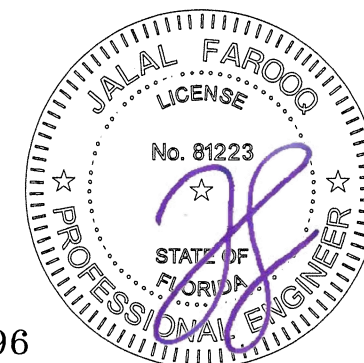
L-FOOT FASTENERS:

5/16" X 4-1/2" ST/ST LAG SCREWS ($F_y = 65$ 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.

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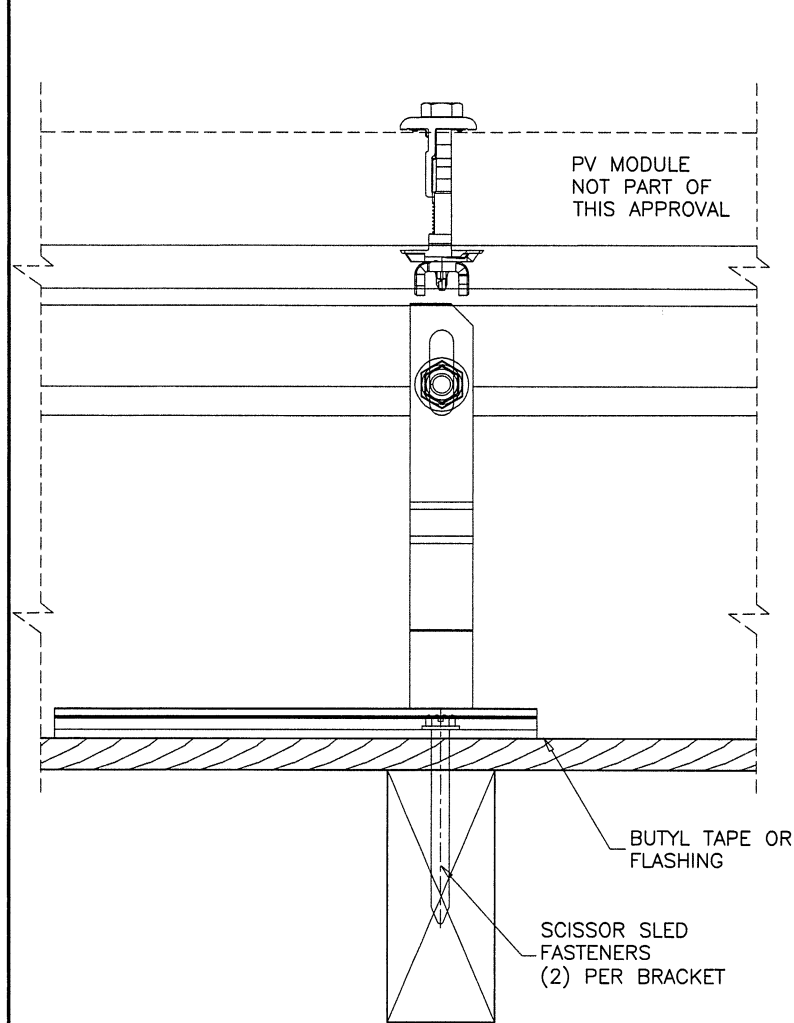
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date: 06-31-22
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

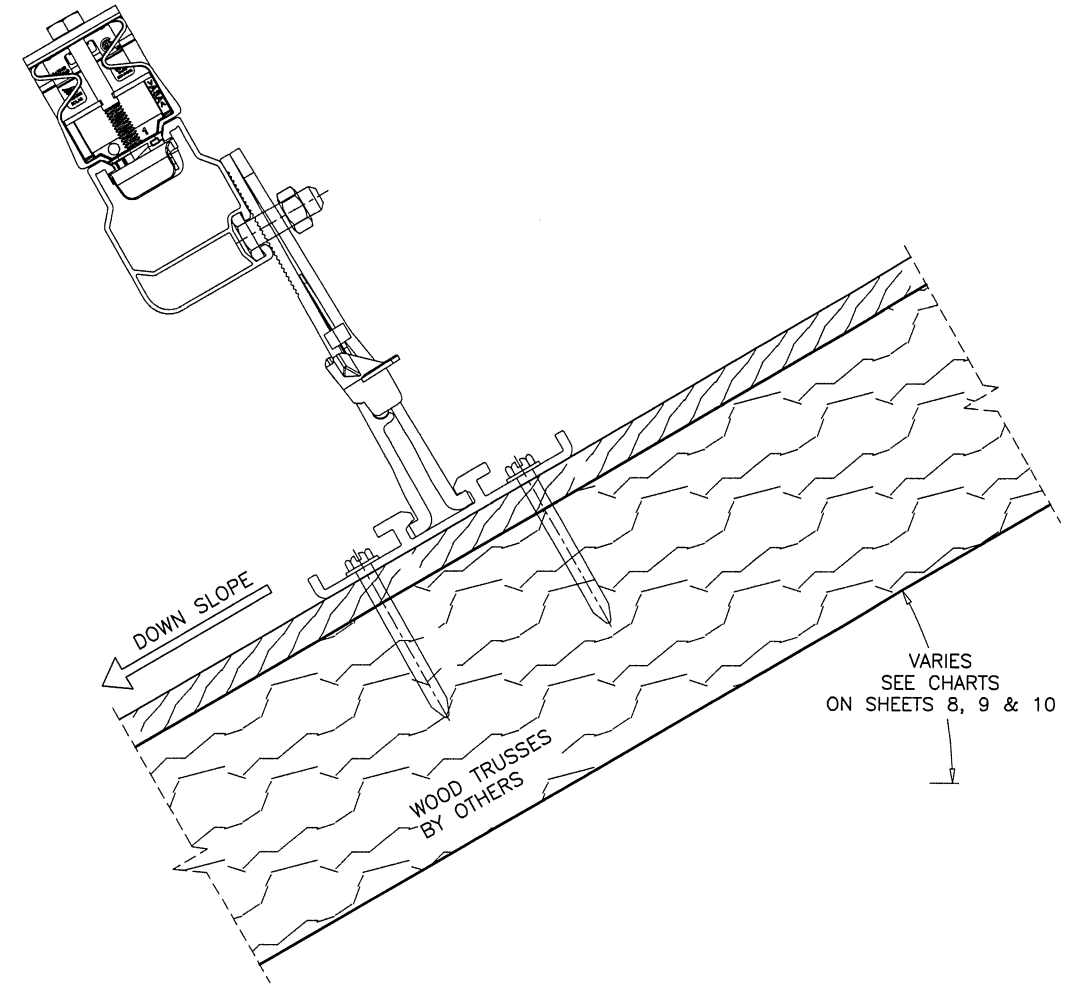
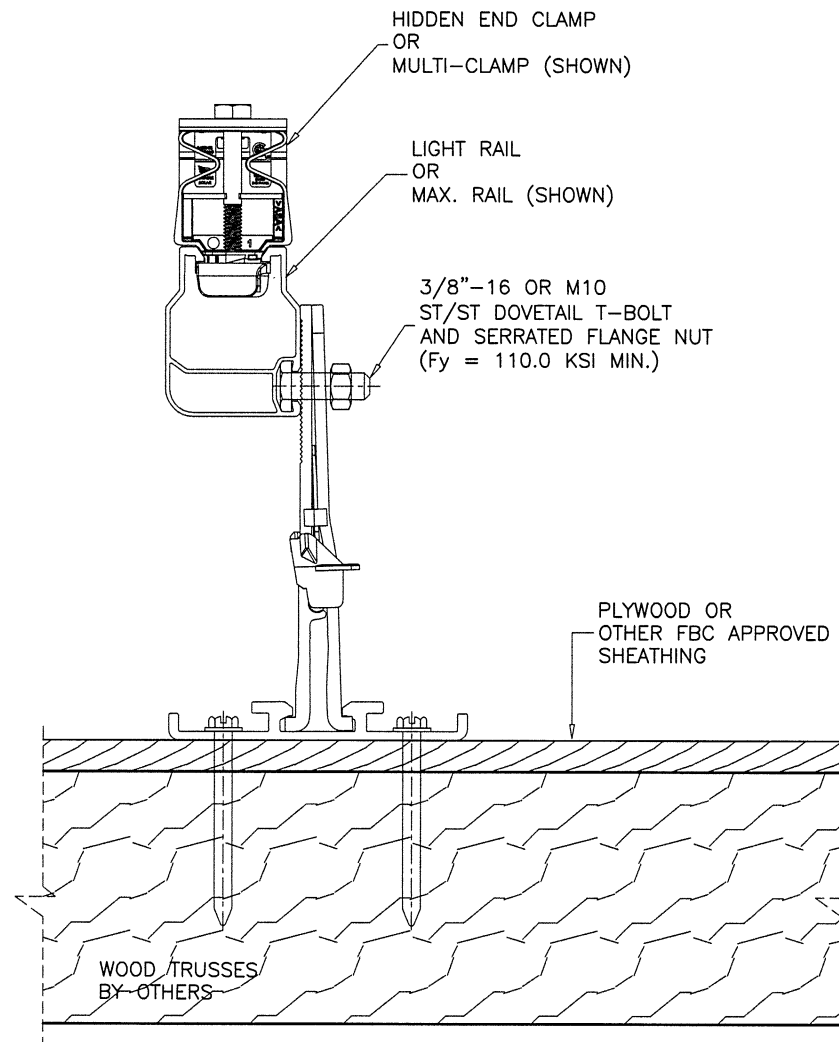
drawing no.
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SCISSOR MOUNT ASSEMBLY



SECTION B-B



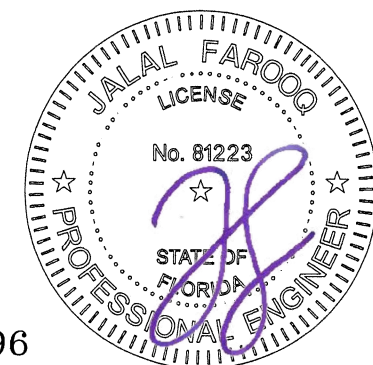
SCISSOR SLED FASTENERS:

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.

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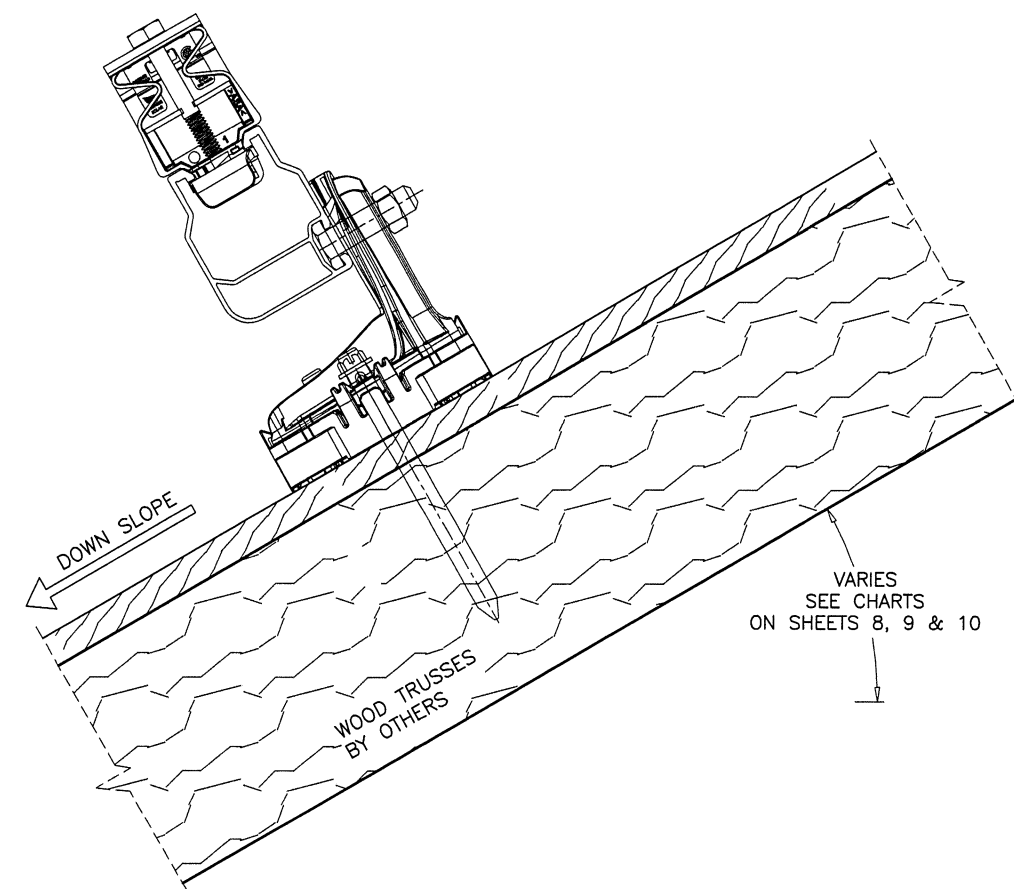
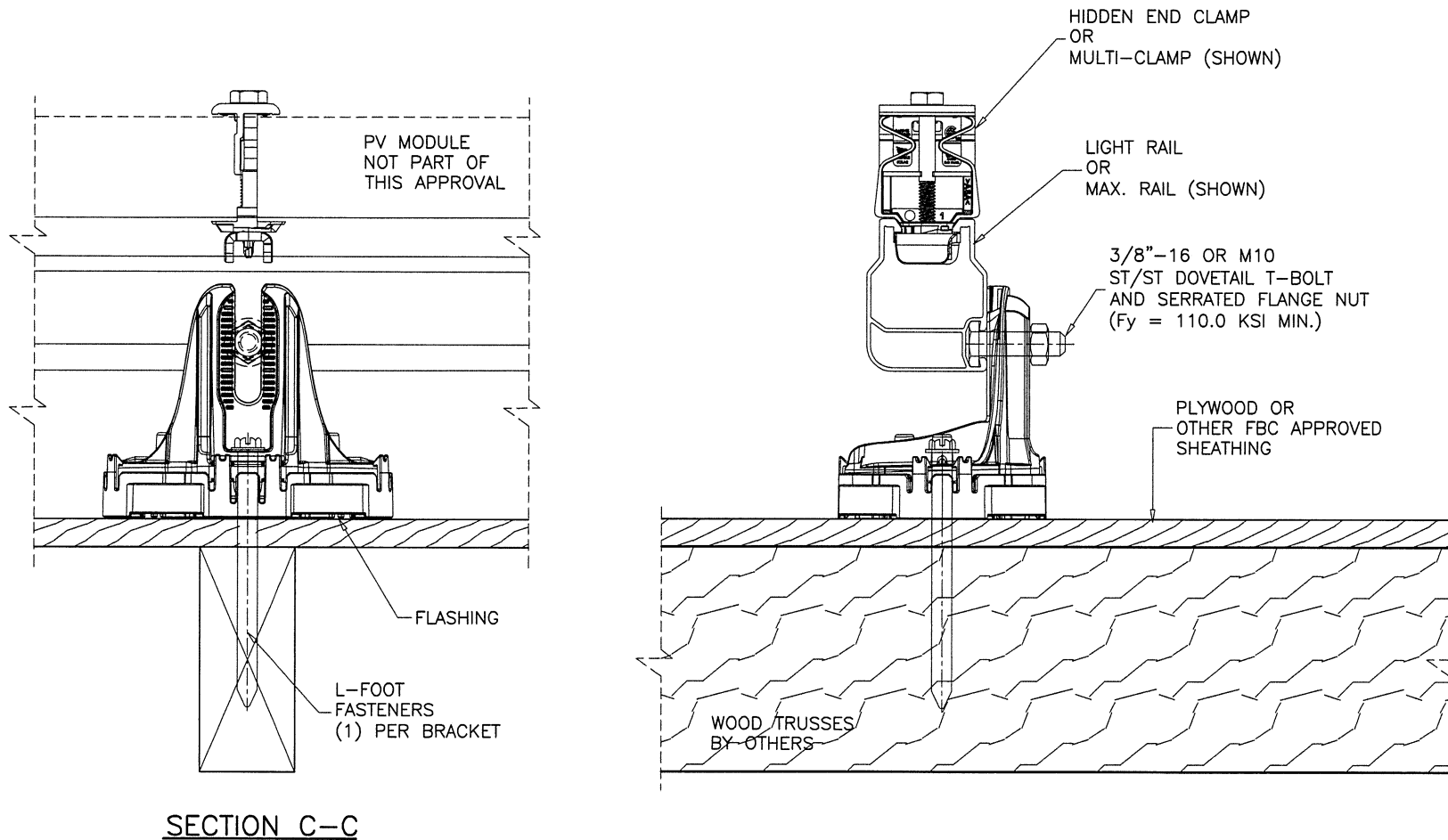
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date: 06-31-22
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 dr. by: TARIQ
 chk. by:

drawing no.
22-21F
 sheet 12 of 13

INSTAFLASH MOUNT



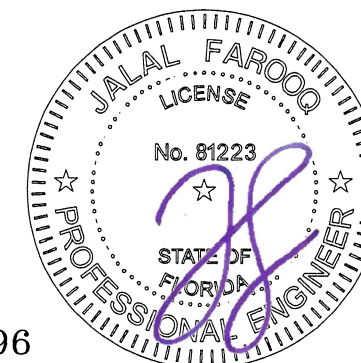
INSTAFLASH MOUNT FASTENERS:

5/16" X 4" ST/ST LAG SCREWS (F_y = 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.

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SOLAR-RACK\22-21F-PS