

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

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

SOLAR PANELS TO BE INSTALLED PARALLEL TO THE ROOF SURFACE WITH A TOLERANCE OF LESS THAN 2 DEGREES.

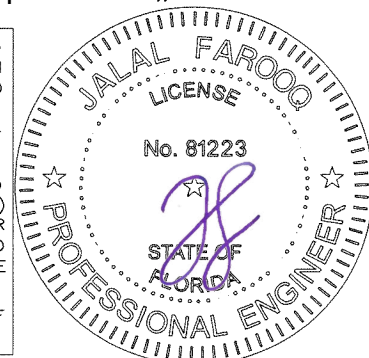
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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 ROOF MOUNT TYPE CAPACITY FOR LANDSCAPE INSTALLATION USING CHARTS ON SHEET 5 AND PORTRAIT INSTALLATION USING CHARTS ON SHEET 6 WITH RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 3** THE LOWEST VALUE RESULTING FROM STEPS 1 AND 2 SHALL APPLY TO ENTIRE SYSTEM.

Sealed: 8/20/2024

FL #46074



date: 12-07-23

scale: 1/2"=1'-0"

dr. by: TARIQ

chk. by:

revisions:

no	date	description

drawing no. 23-59F

sheet 1 of 10

ROOF TOP PV MOUNTING SYSTEM

SunModo Corp.
14800 N.E. 65th Street
Vancouver, WA. 98682
Phone: (360) 844-0048

sunmodo.com

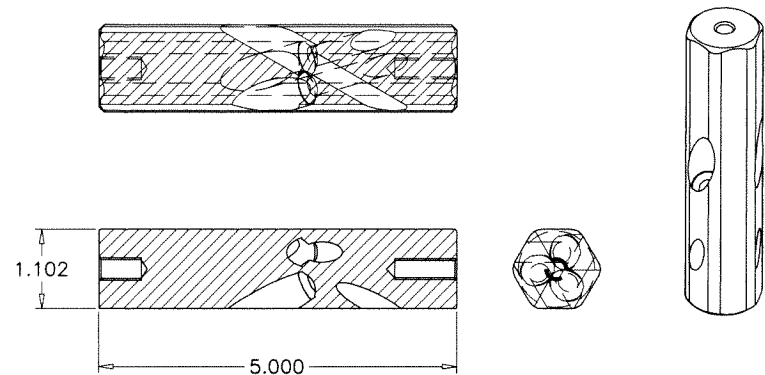
AL-FAROOG CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM

FBPE #3538

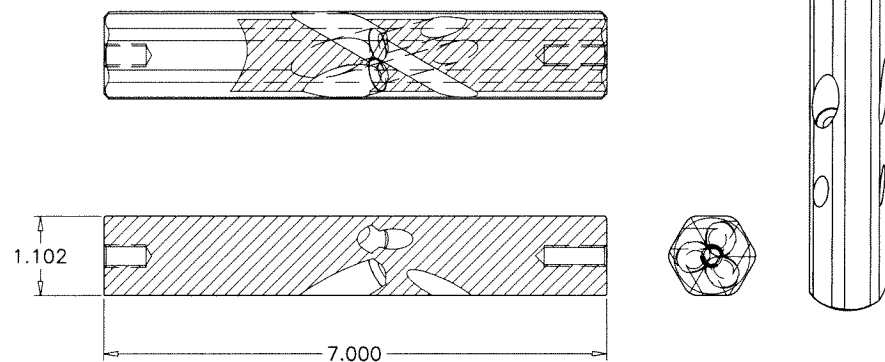
SOLAR-RACK '23-

FBPE #3538

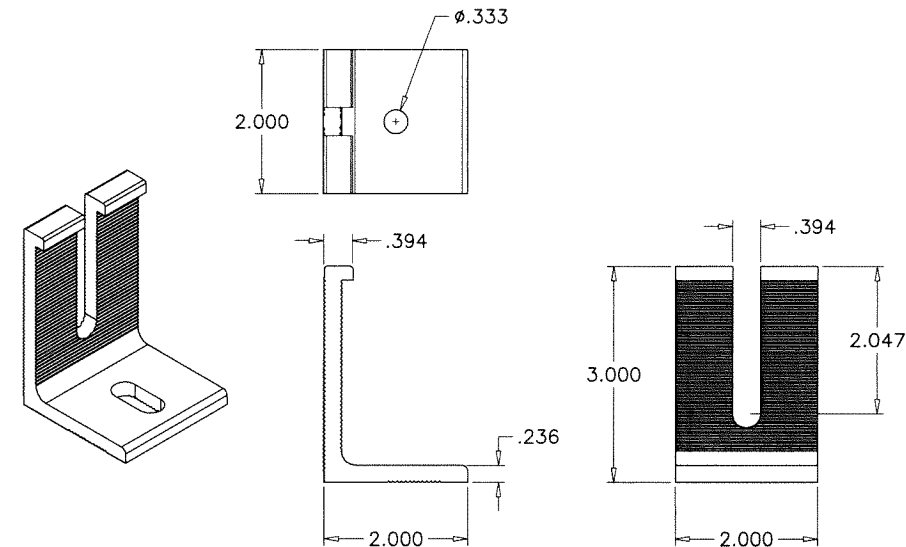
SOLAR-RACK/23-59F-SMC



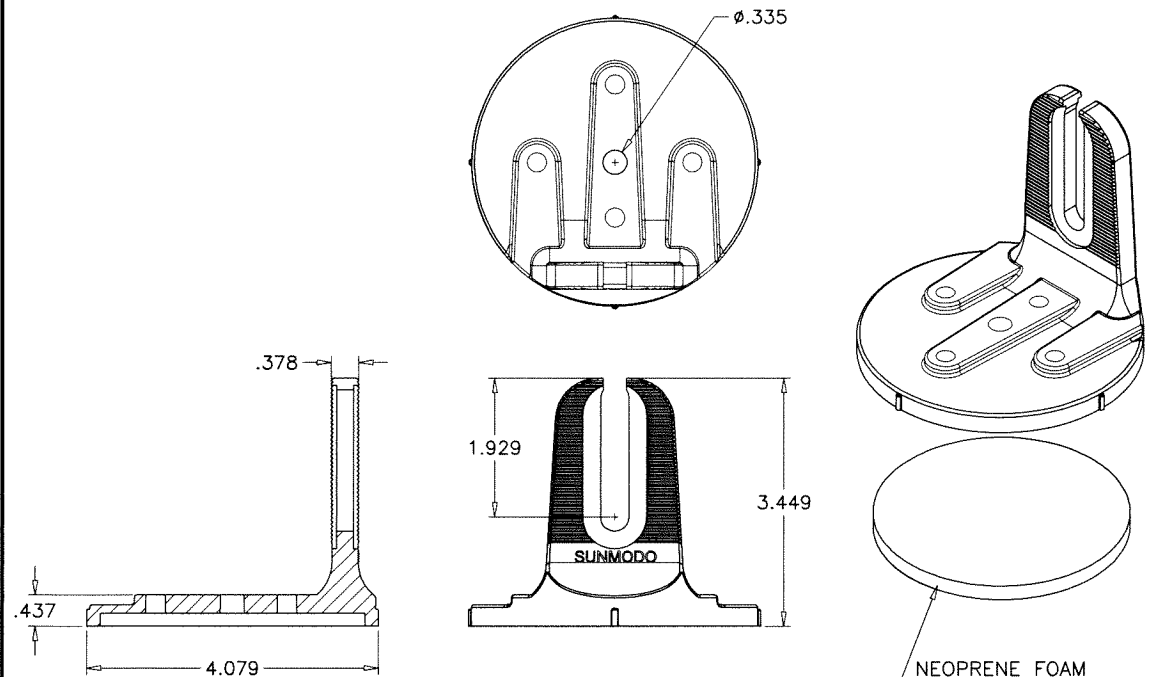
TopTile 5"
A20452-005
6005-T5



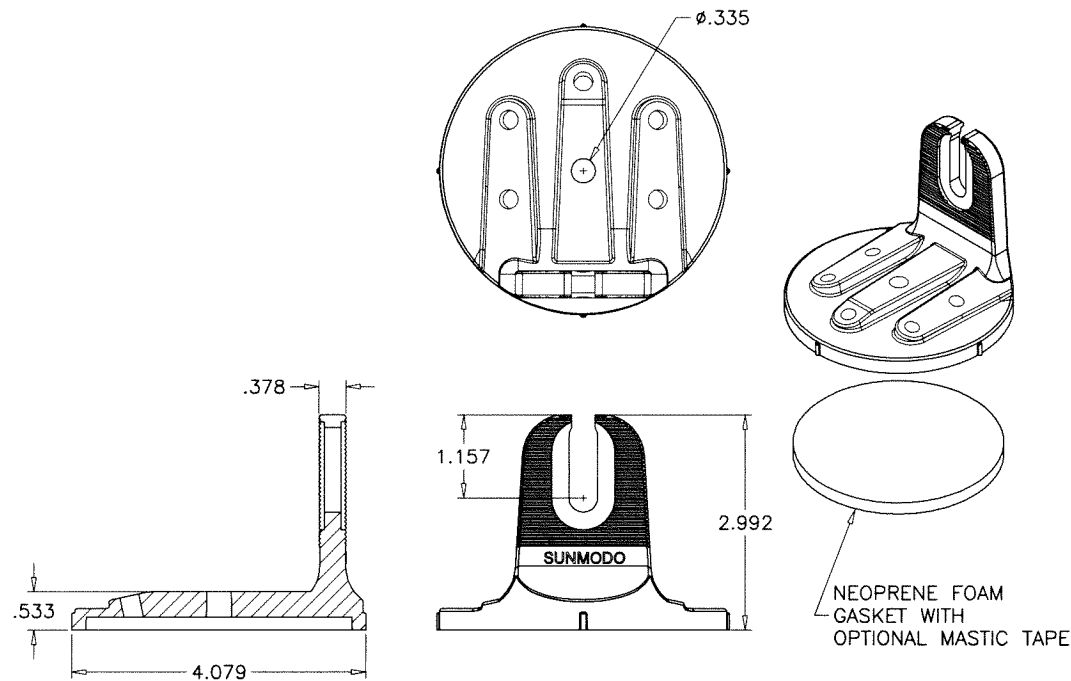
TopTile 7"
A20452-007
6005-T5



L-foot
A50223
6005-T5

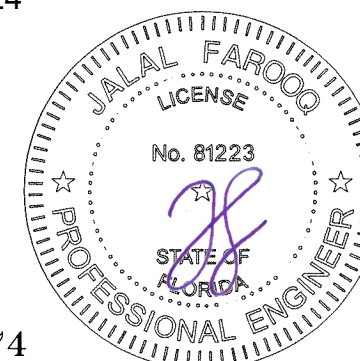


NanoMount (3.45" TALL)
A50263
6005-T5



NanoPlus (2.99" TALL)
A50259
6005-T5

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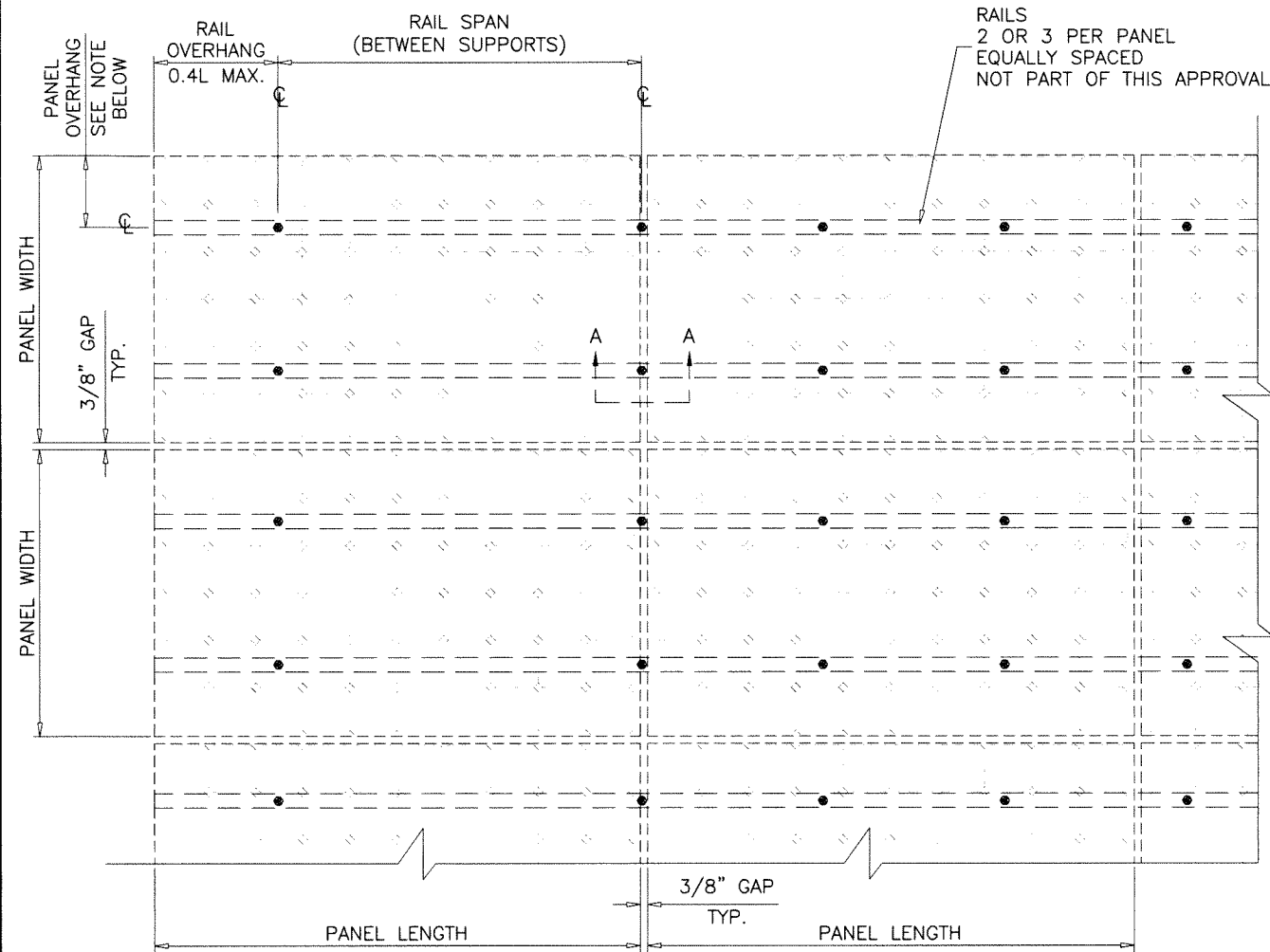
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sunmodo.com

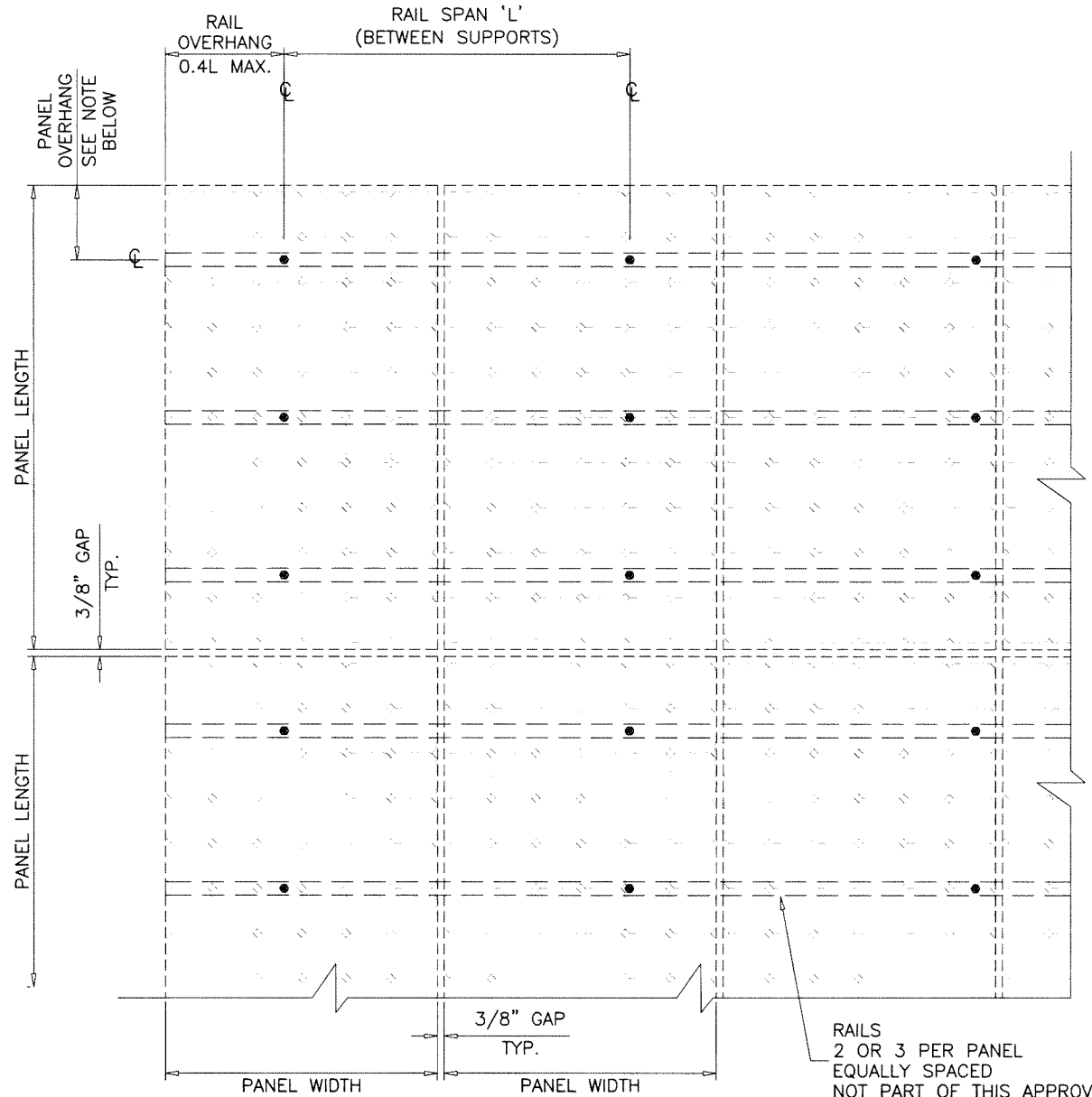
revisions:	no	date	by	description

date: 12-07-23	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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drawing no.
23-59F
sheet 2 of 10



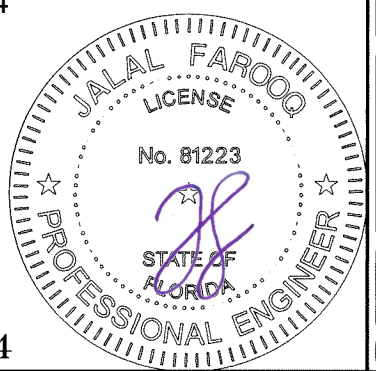
LANDSCAPE MODULES
PLAN VIEW



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.

Sealed: 8/20/2024



TopTile 5", TopTile 7"

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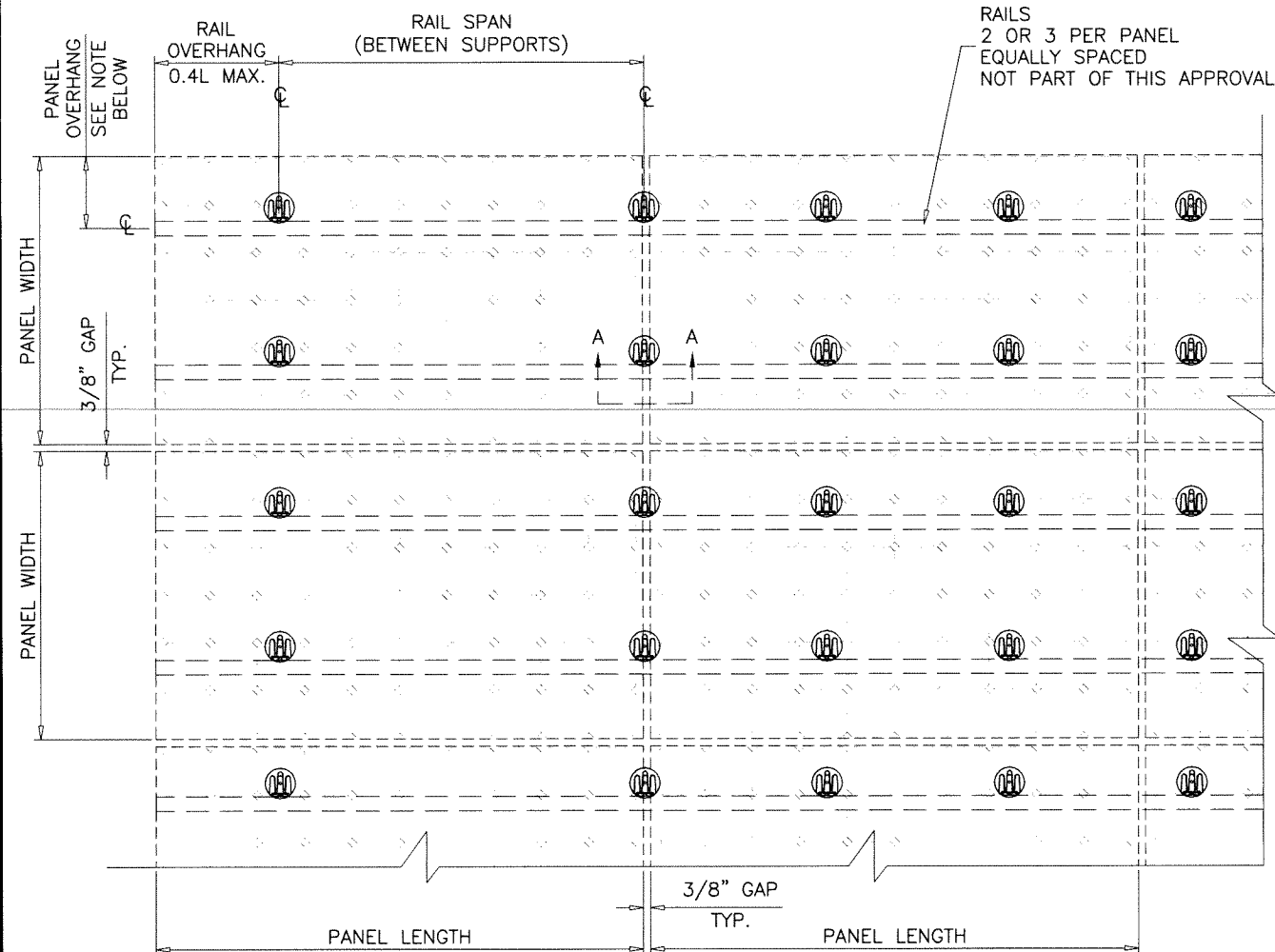
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dr. by: TARIQ

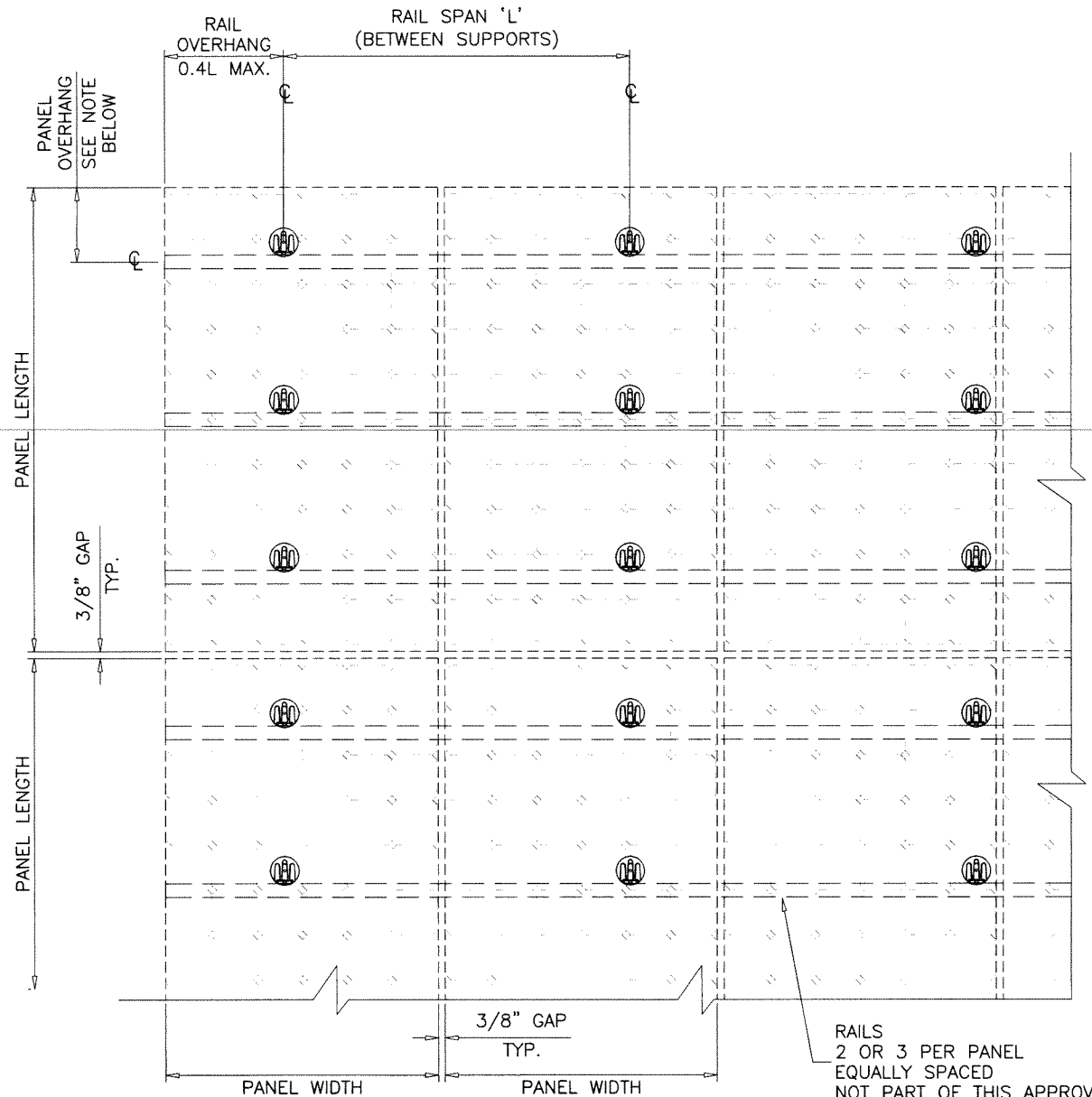
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drawing no. 23-59F

sheet 3 of 10



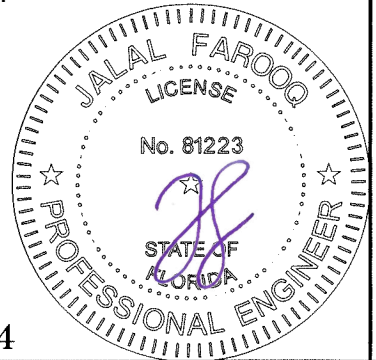
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NanoMount 3.45", NanoPlus 2.99"

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SOLAR-RACK\23-59F-SMC

Roof Top PV Mounting System

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sheet 4 of 10

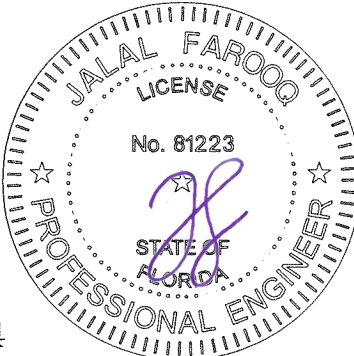
TopTile 5", TopTile 7", NanoMount 3.45", NanoPlus 2.99"

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°			
			TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"
68"	2	16"	148.5	148.5	124.9	102.9	141.7	141.7	124.0	102.4	129.3	129.3	122.2	101.4	122.9	122.9	121.2	100.8	108.1	108.1	118.6	99.1
		24"	100.3	100.3	84.6	69.9	93.5	93.5	83.7	69.4	81.1	81.1	81.9	68.4	74.7	74.7	80.9	67.8	59.9	59.9	78.3	66.1
		32"	76.2	76.2	64.5	53.4	69.4	69.4	63.5	53.0	57.0	57.0	61.7	51.9	50.6	50.6	60.7	51.3	35.9	35.9	58.1	49.6
		48"	52.2	52.2	44.3	37.0	45.4	45.4	43.4	36.5	33.0	33.0	41.6	35.4	26.6	26.6	40.6	34.8	-	-	38.0	33.1
		64"	40.1	40.1	34.2	28.7	33.3	33.3	33.3	28.2	20.9	20.9	31.5	27.2	-	-	30.5	26.6	-	-	27.9	24.9
		72"	36.1	36.1	30.9	26.0	29.3	29.3	29.9	25.5	16.9	16.9	28.1	24.5	-	-	27.1	23.8	-	-	24.5	22.2
	3	16"	176.7	176.7	148.6	122.3	170.0	170.0	147.7	121.8	157.5	157.5	145.8	120.7	151.1	151.1	144.8	120.1	136.4	136.4	142.3	118.4
		24"	119.2	119.2	100.4	82.8	112.4	112.4	99.5	82.4	100.0	100.0	97.7	81.3	93.6	93.6	96.6	80.7	78.8	78.8	94.1	79.0
		32"	90.4	90.4	76.3	63.1	83.6	83.6	75.4	62.6	71.2	71.2	73.6	61.6	64.8	64.8	72.5	61.0	50.0	50.0	70.0	59.3
		48"	61.6	61.6	52.2	43.4	54.8	54.8	51.3	42.9	42.4	42.4	49.5	41.9	36.0	36.0	48.5	41.3	21.2	21.2	45.9	39.6
		64"	47.2	47.2	40.1	33.6	40.4	40.4	39.2	33.1	28.0	28.0	37.4	32.0	21.6	21.6	36.4	31.4	-	-	33.8	29.7
		72"	42.4	42.4	36.1	30.3	35.6	35.6	35.2	29.8	23.2	23.2	33.4	28.8	16.8	16.8	32.4	28.1	-	-	29.8	26.5
80"	2	16"	148.5	148.5	124.9	102.9	141.7	141.7	124.0	102.4	129.3	129.3	122.2	101.4	122.9	122.9	121.2	100.8	108.1	108.1	118.6	99.1
		24"	100.3	100.3	84.6	69.9	93.5	93.5	83.7	69.4	81.1	81.1	81.9	68.4	74.7	74.7	80.9	67.8	59.9	59.9	78.3	66.1
		32"	76.2	76.2	64.5	53.4	69.4	69.4	63.5	53.0	57.0	57.0	61.7	51.9	50.6	50.6	60.7	51.3	35.9	35.9	58.1	49.6
		48"	52.2	52.2	44.3	37.0	45.4	45.4	43.4	36.5	33.0	33.0	41.6	35.4	26.6	26.6	40.6	34.8	-	-	38.0	33.1
		64"	40.1	40.1	34.2	28.7	33.3	33.3	33.3	28.2	20.9	20.9	31.5	27.2	-	-	30.5	26.6	-	-	27.9	24.9
		72"	36.1	36.1	30.9	26.0	29.3	29.3	29.9	25.5	16.9	16.9	28.1	24.5	-	-	27.1	23.8	-	-	24.5	22.2
	3	16"	176.7	176.7	148.6	122.3	170.0	170.0	147.7	121.8	157.5	157.5	145.8	120.7	151.1	151.1	144.8	120.1	136.4	136.4	142.3	118.4
		24"	119.2	119.2	100.4	82.8	112.4	112.4	99.5	82.4	100.0	100.0	97.7	81.3	93.6	93.6	96.6	80.7	78.8	78.8	94.1	79.0
		32"	90.4	90.4	76.3	63.1	83.6	83.6	75.4	62.6	71.2	71.2	73.6	61.6	64.8	64.8	72.5	61.0	50.0	50.0	70.0	59.3
		48"	61.6	61.6	52.2	43.4	54.8	54.8	51.3	42.9	42.4	42.4	49.5	41.9	36.0	36.0	48.5	41.3	21.2	21.2	45.9	39.6
		64"	47.2	47.2	40.1	33.6	40.4	40.4	39.2	33.1	28.0	28.0	37.4	32.0	21.6	21.6	36.4	31.4	-	-	33.8	29.7
		72"	42.4	42.4	36.1	30.3	35.6	35.6	35.2	29.8	23.2	23.2	33.4	28.8	16.8	16.8	32.4	28.1	-	-	29.8	26.5

SEE SHEET 7 FOR TopTile 5" INSTALLATION
SEE SHEET 8 FOR TopTile 7" INSTALLATION
SEE SHEET 9 FOR NanoMount INSTALLATION
SEE SHEET 10 FOR NanoPlus INSTALLATION

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (40" X 68")
AND 72 CELLS PANEL (40" X 80").

Sealed: 8/20/2024



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af c

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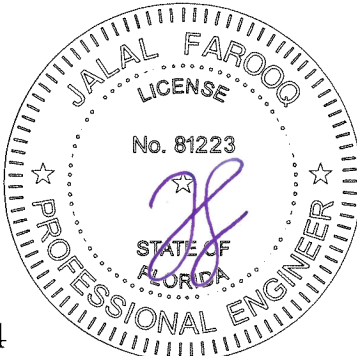
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PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS				ROOF SLOPES UP TO 7°				ROOF SLOPES 8° TO 20°				ROOF SLOPES 21° TO 27°				ROOF SLOPES 28° TO 45°			
			TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"
68"	2	16"	89.0	89.0	75.1	62.2	82.2	82.2	74.2	61.7	69.8	69.8	72.4	60.6	63.4	63.4	71.4	60.0	48.6	48.6	68.8	58.4
		24"	60.6	60.6	51.4	42.8	53.9	53.9	50.5	42.3	41.4	41.4	48.7	41.3	35.0	35.0	47.7	40.6	20.3	20.3	45.1	39.0
		32"	46.5	46.5	39.6	33.1	39.7	39.7	38.6	32.6	27.3	27.3	36.8	31.6	20.9	20.9	35.8	31.0	—	—	33.2	29.3
		48"	32.3	32.3	27.7	23.4	25.5	25.5	26.8	22.9	—	—	25.0	21.9	—	—	24.0	21.3	—	—	21.4	19.6
		64"	25.2	25.2	21.8	18.5	18.5	18.5	20.9	18.1	—	—	19.0	17.0	—	—	18.0	16.4	—	—	15.5	—
		72"	22.9	22.9	19.8	16.9	16.1	16.1	18.9	16.4	—	—	17.1	15.4	—	—	16.1	—	—	—	—	—
	3	16"	105.6	105.6	89.0	73.6	98.8	98.8	88.1	73.1	86.4	86.4	86.3	72.0	80.0	80.0	85.3	71.4	65.2	65.2	82.7	69.7
		24"	71.7	71.7	60.7	50.4	65.0	65.0	59.8	49.9	52.5	52.5	58.0	48.9	46.1	46.1	57.0	48.2	31.4	31.4	54.4	46.6
		32"	54.8	54.8	46.5	38.8	48.0	48.0	45.6	38.3	35.6	35.6	43.8	37.3	29.2	29.2	42.8	36.6	—	—	40.2	35.0
		48"	37.9	37.9	32.3	27.2	31.1	31.1	31.4	26.7	18.7	18.7	29.6	25.7	—	—	28.6	25.1	—	—	26.0	23.4
		64"	29.4	29.4	25.3	21.4	22.6	22.6	24.3	20.9	—	—	22.5	19.9	—	—	21.5	19.3	—	—	18.9	17.6
		72"	26.6	26.6	22.9	19.5	19.8	19.8	22.0	19.0	—	—	20.2	17.9	—	—	19.2	17.3	—	—	16.6	15.6
80"	2	16"	76.2	76.2	64.5	53.4	69.4	69.4	63.5	53.0	57.0	57.0	61.7	51.9	50.6	50.6	60.7	51.3	35.9	35.9	58.1	49.6
		24"	52.2	52.2	44.3	37.0	45.4	45.4	43.4	36.5	33.0	33.0	41.6	35.4	26.6	26.6	40.6	34.8	—	—	38.0	33.1
		32"	40.1	40.1	34.2	28.7	33.3	33.3	33.3	28.2	20.9	20.9	31.5	27.2	—	—	30.5	26.6	—	—	27.9	24.9
		48"	28.1	28.1	24.2	20.5	21.3	21.3	23.2	20.0	—	—	21.4	19.0	—	—	20.4	18.3	—	—	17.8	16.7
		64"	22.1	22.1	19.1	16.4	15.3	15.3	18.2	15.9	—	—	16.4	—	—	—	15.4	—	—	—	—	—
		72"	20.1	20.1	17.4	—	—	—	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—
	3	16"	90.4	90.4	76.3	63.1	83.6	83.6	75.4	62.6	71.2	71.2	73.6	61.6	64.8	64.8	72.5	61.0	50.0	50.0	70.0	59.3
		24"	61.6	61.6	52.2	43.4	54.8	54.8	51.3	42.9	42.4	42.4	49.5	41.9	36.0	36.0	48.5	41.3	21.2	21.2	45.9	39.6
		32"	47.2	47.2	40.1	33.6	40.4	40.4	39.2	33.1	28.0	28.0	37.4	32.0	21.6	21.6	36.4	31.4	—	—	33.8	29.7
		48"	32.8	32.8	28.1	23.7	26.0	26.0	27.2	23.2	—	—	25.4	22.2	—	—	24.4	21.6	—	—	21.8	19.9
		64"	25.6	25.6	22.1	18.8	18.8	18.8	21.2	18.3	—	—	19.3	17.3	—	—	18.3	16.6	—	—	15.8	—
		72"	23.2	23.2	20.1	17.1	16.4	16.4	19.1	16.7	—	—	17.3	15.6	—	—	16.3	15.0	—	—	—	—

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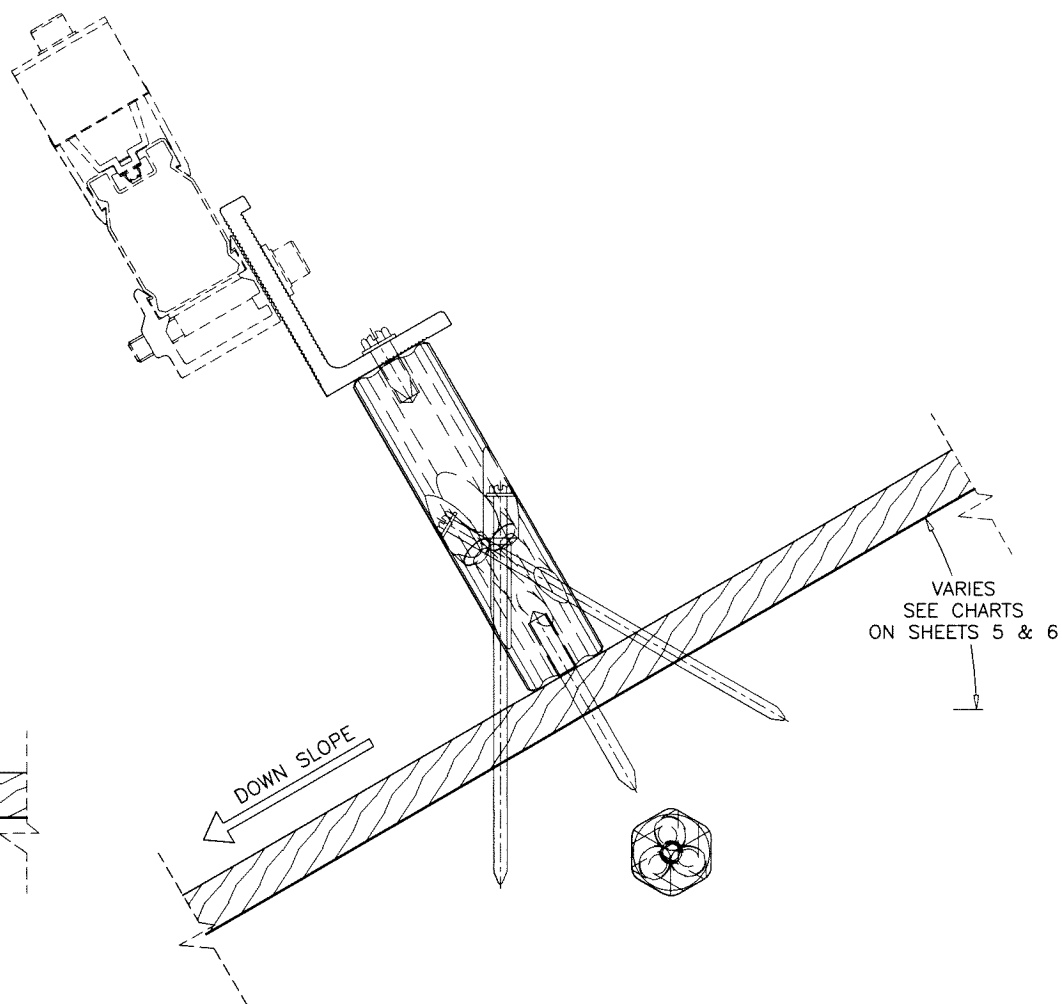
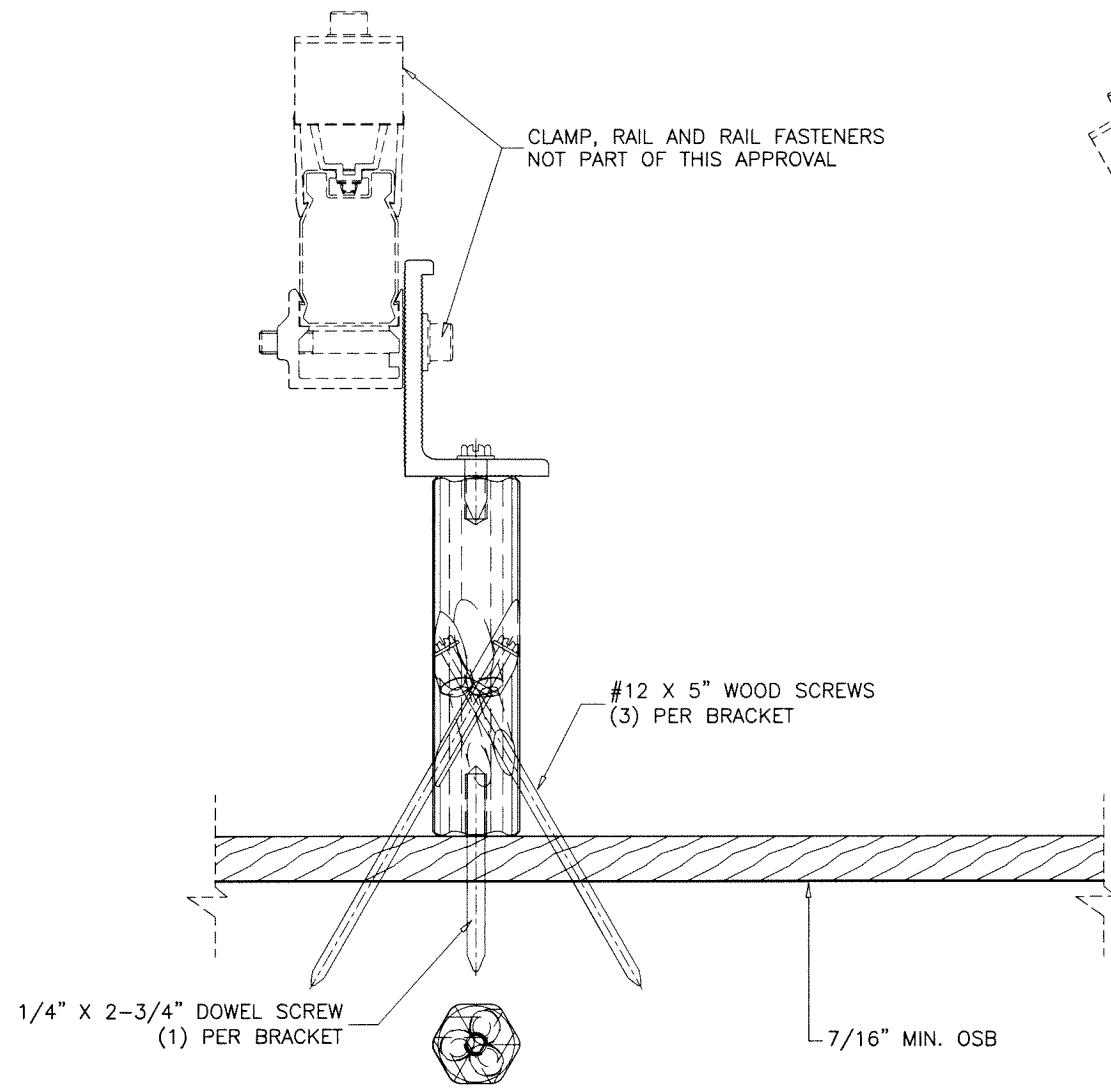
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sheet 6 of 10

TopTile 5"



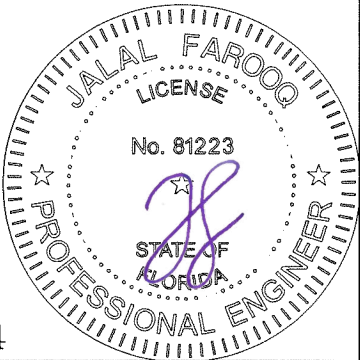
TopTile 5" FASTENERS:

1/4" X 2-3/4" ST/ST DOWEL SCREWS (Fy = 65 KSI MIN.)

#12 X 5" (17 POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 385.2 Lbs MAX.
SHEAR RESISTANCE = 27.8 Lbs MAX.

Sealed: 8/20/2024





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FBPE #3538

ROOF TOP PV MOUNTING SYSTEM

SunModo Corp.
14800 N.E. 65th Street
Vancouver, WA. 98682
Phone: (360) 844-0048
sunmodo.com

revisions:	
no	date by description

date: 12-07-23	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. 23-59F			
sheet 7 of 10			



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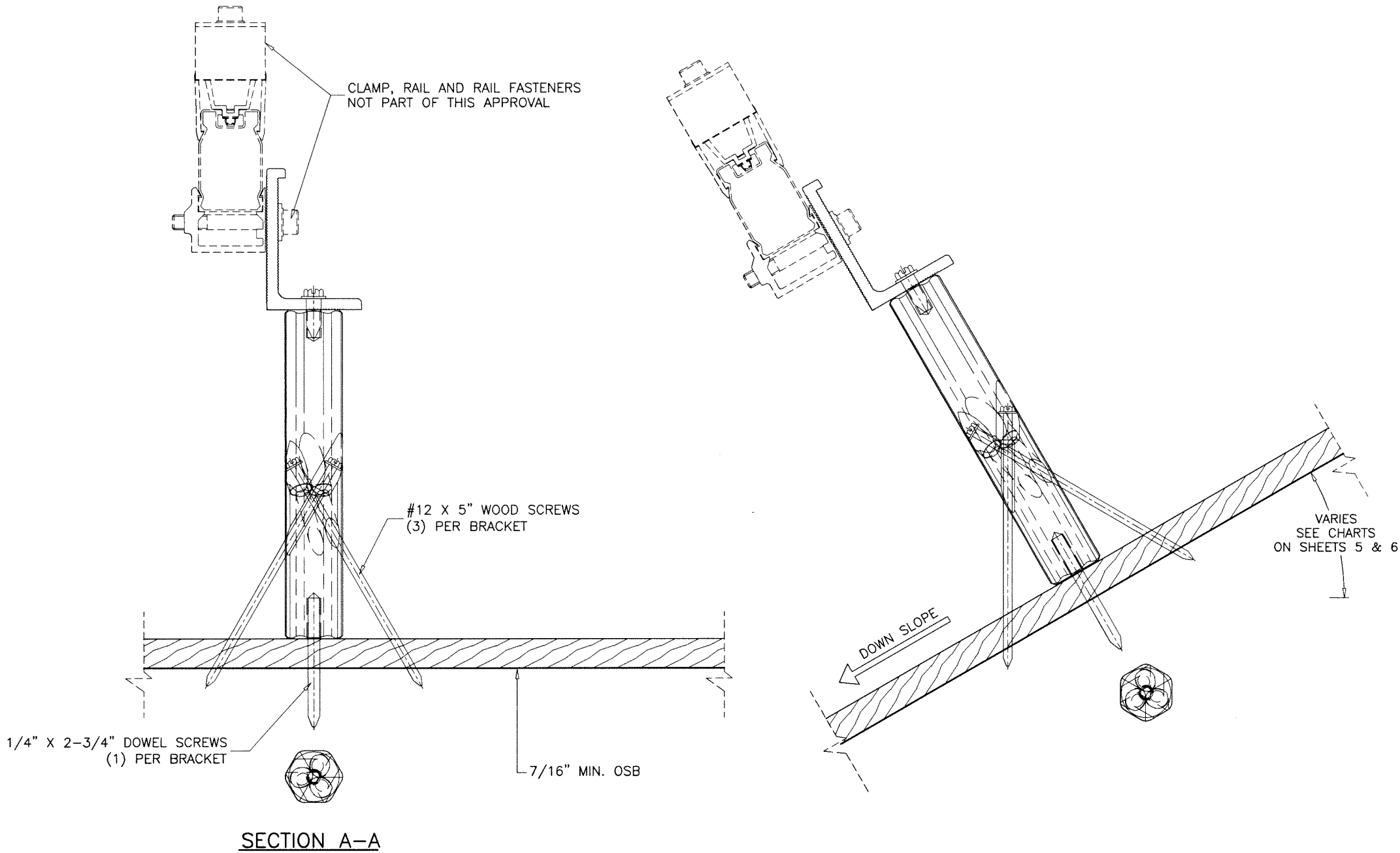


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TopTile 7"



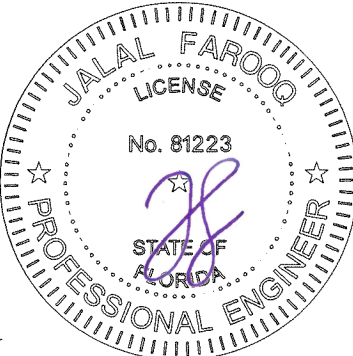
TopTile 7" FASTENERS:

1/4" X 2-3/4" ST/ST DOWEL SCREWS (Fy = 65 KSI MIN.)

#12 X 5" (17 POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 385.2 Lbs MAX.
SHEAR RESISTANCE = 27.8 Lbs MAX.

Sealed: 8/20/2024



FL #46074



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revisions:	
no	date by description

date: 12-07-23

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dr. by: TARIQ

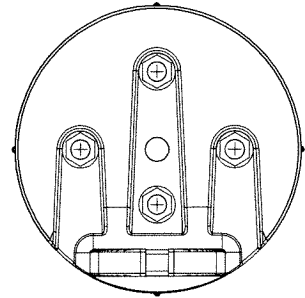
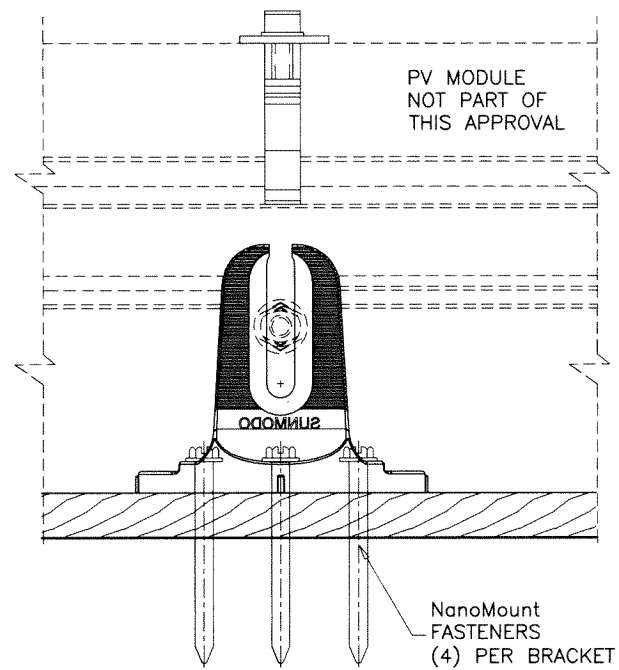
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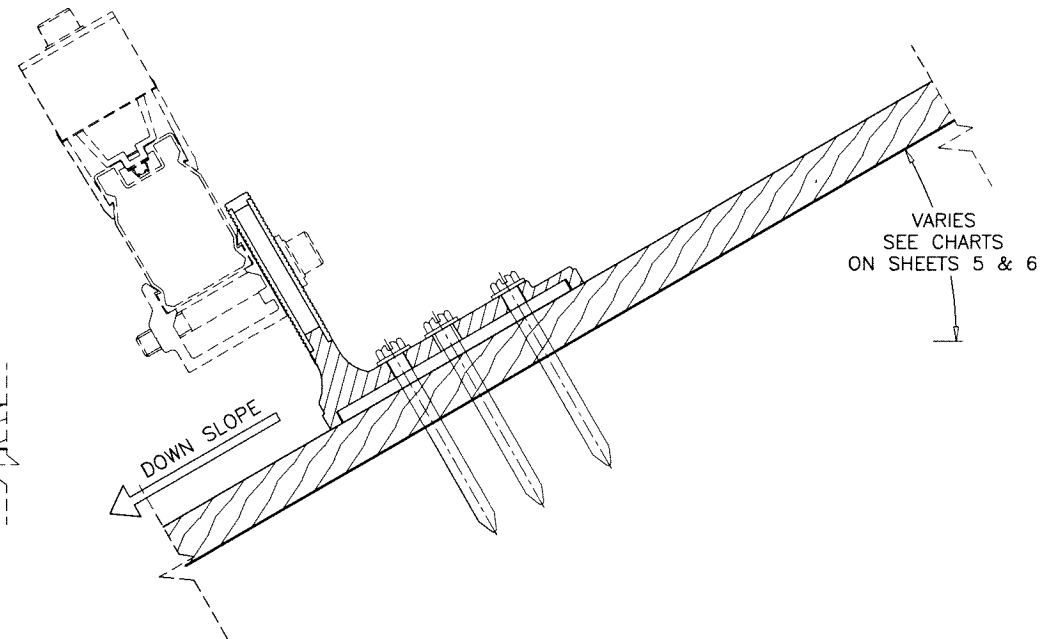
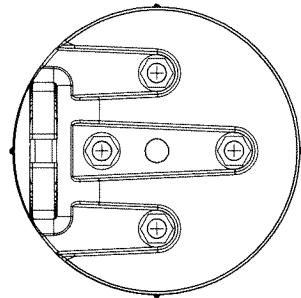
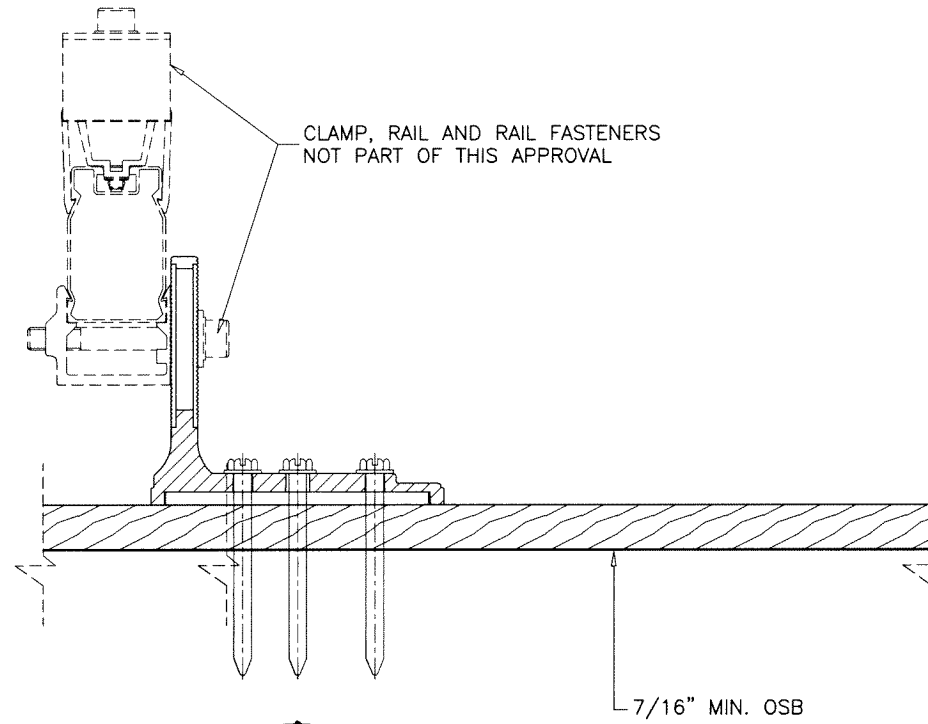
23-59F

sheet 8 of 10

NanoMount



SECTION A-A

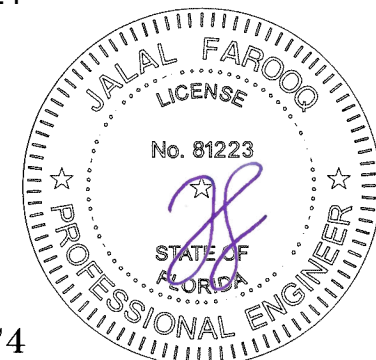


NanoMount FASTENERS:

1/4" X 3" (A POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 322.4 Lbs MAX.
SHEAR RESISTANCE = 177.2 Lbs MAX.

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revisions:	no date	by description

date: 12-07-23

scale: $3/8" = 1"$

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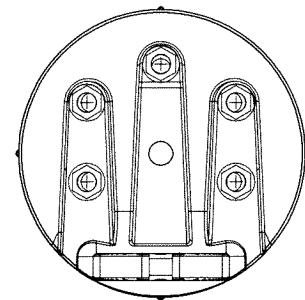
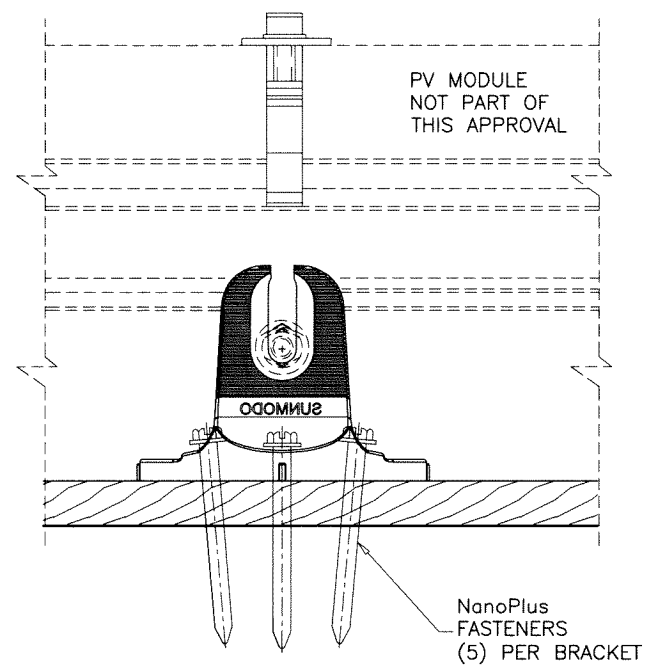
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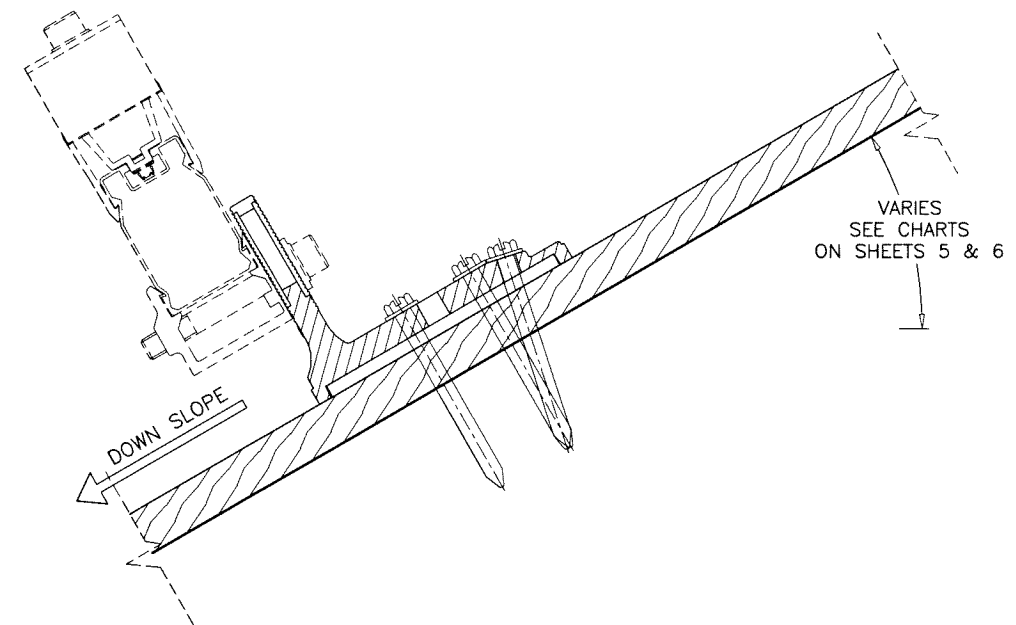
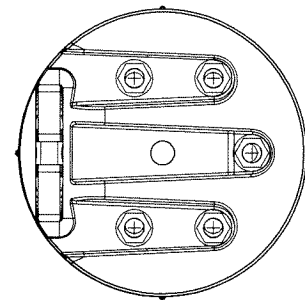
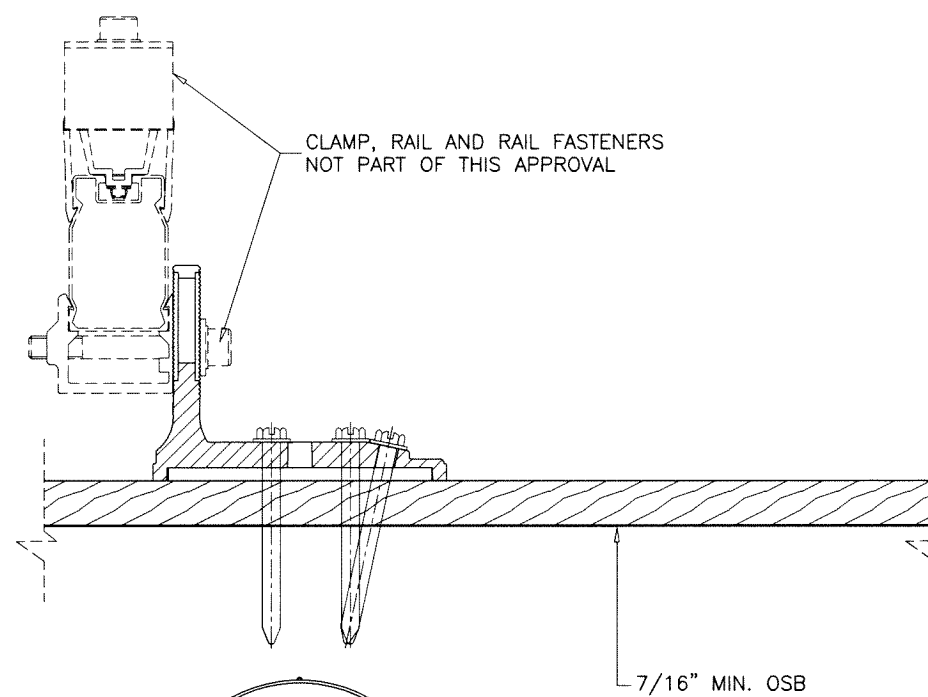
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sheet 9 of 10

NanoPlus



SECTION A-A

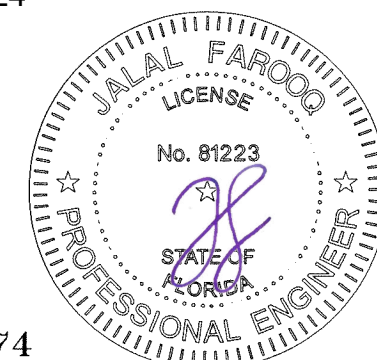


Sealed: 8/20/2024

NanoPlus FASTENERS:

1/4" X 3" (A POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 263.7 Lbs MAX.
SHEAR RESISTANCE = 282.2 Lbs MAX.



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sheet 10 of 10