

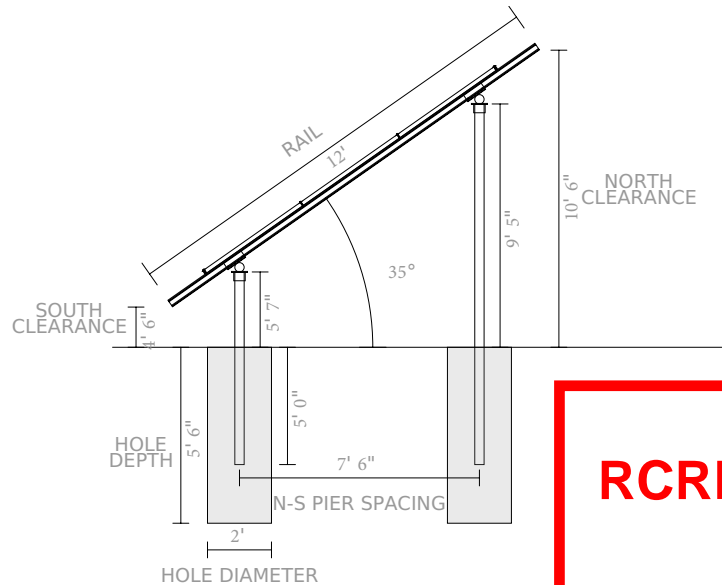
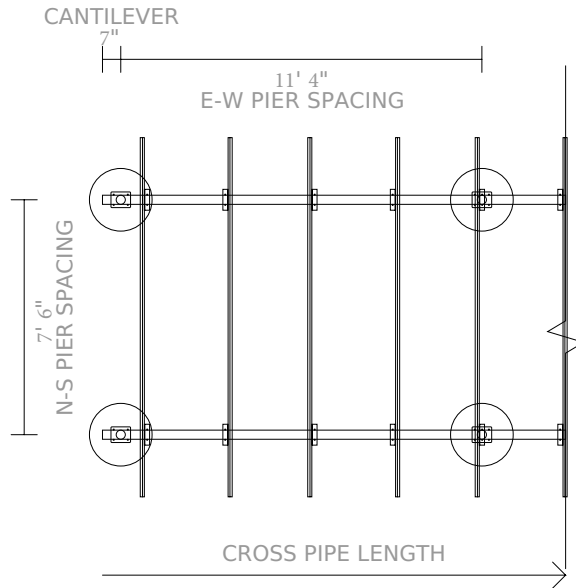
Project Details			
Name	Trousil Residence	Date	05/05/2020
Location	35400 Humble Ranch Rd. Steamboat Springs, CO	ASCE code	7.10
Total modules	60	Piers	20
Module	Solaria: Power XT 400-R-PD	Concrete	12.80 yd ³
Dimensions	64.7" x 47.4" x 1.57" (1644.0mm x 1204.0mm x 40.0mm)	Wind exposure	B
Total watts	24.0 KW	Wind speed	90 mph
		Snow load	100 psf

Substructure & Foundation			
Tilt	35°	Pipe/tubing diameter	3"
Soil class	4	Hole diameter	24"

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10/26/2020

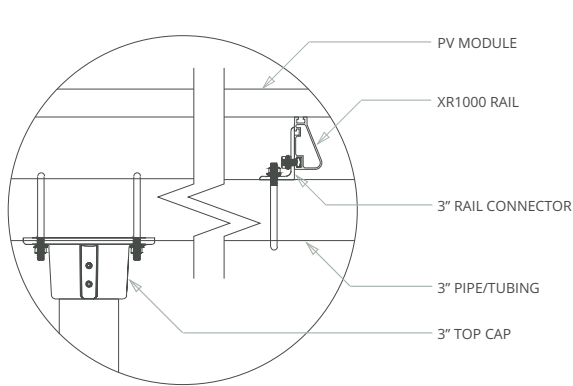
Sub array #1					
Rows	3	Columns	21	Repeats	1
Area	113' 3" (EW) × 10' (NS)	Rail type	XR1000	Diagonal bracing	no
E/W spacing	11' 4"	Rail cantilever	7"	Pipe cantilever	7"
Piers/repeat	20	Total south piers	10 (10'7")	Total north piers	10 (14' 5")
Total cross pipes	2 (114' 5")	Total pipe length	478' 10"		
Shear	1,389 lbs	Moment	3,474 ft-lbs	Uplift	-910 lbs



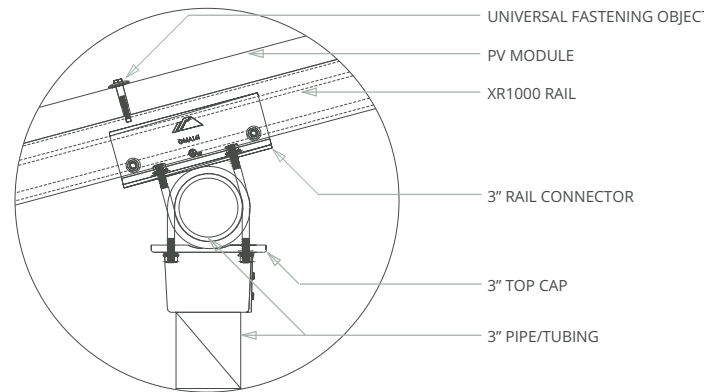
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Pipe Fitting Detail

XR1000 Rail

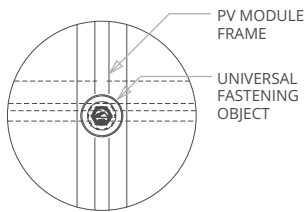


Front View

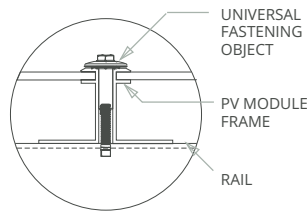


Side View

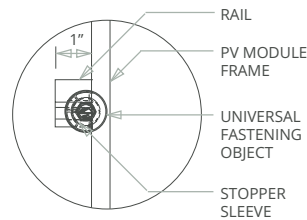
Clamp Detail



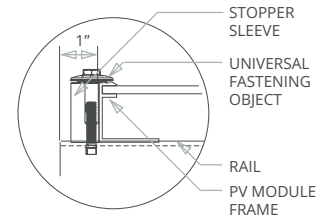
Mid Clamp, Plan



Mid Clamp, Front



End Clamp, Plan

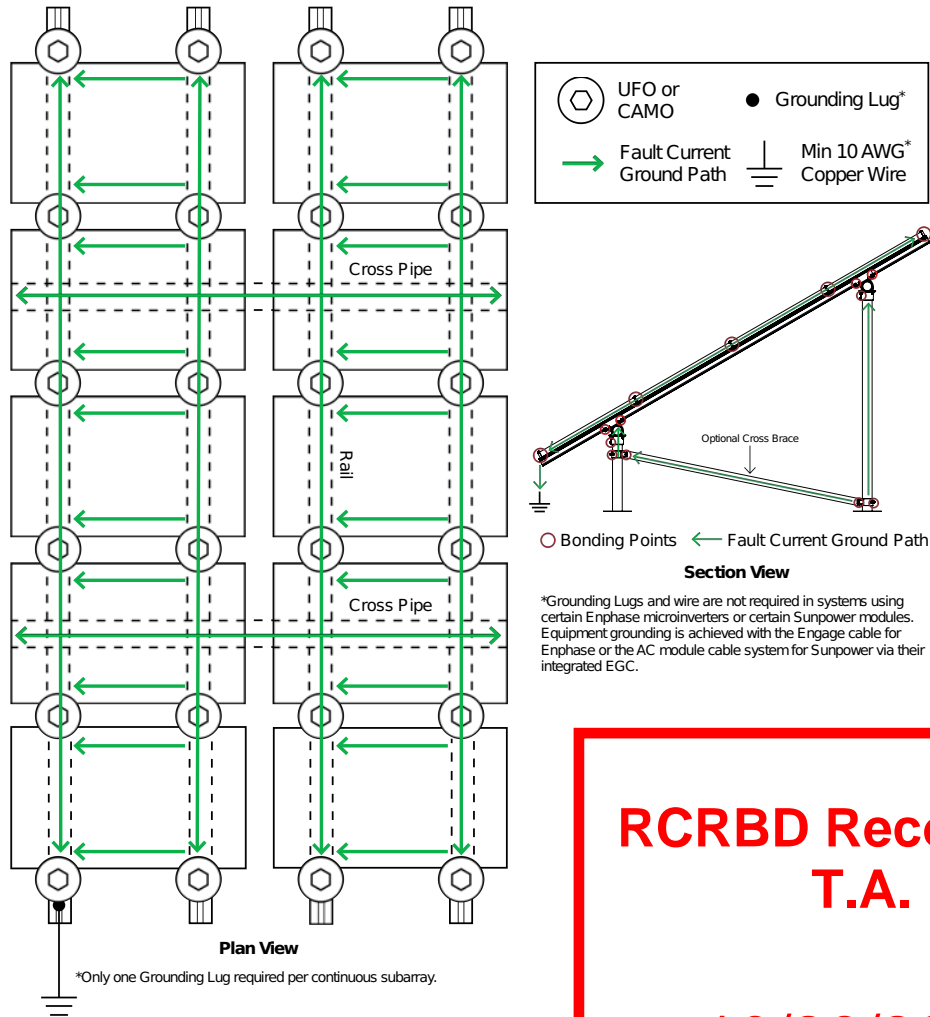


End Clamp, Front

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10/26/2020

Grounding Diagram



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10/26/2020

Bill of Materials

Part	Spares	Total Qty
Rails		
XR-1000-168A XR1000, Rail 168" (14 Feet) Clear	0	46
Clamps & Grounding		
UFO-CL-01-A1 Universal Module Clamp, Clear	0	184
UFO-STP-40MM-M1 Stopper Sleeve, 40MM, Mill	0	92
XR-LUG-03-A1 Grounding Lug, Low Profile	0	2
Substructure		
70-0300-SGA SGA Top Cap at 3"	0	24
GM-BRC-003 Ground Mount Bonded Rail Connector - 3"	0	92

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10/26/2020