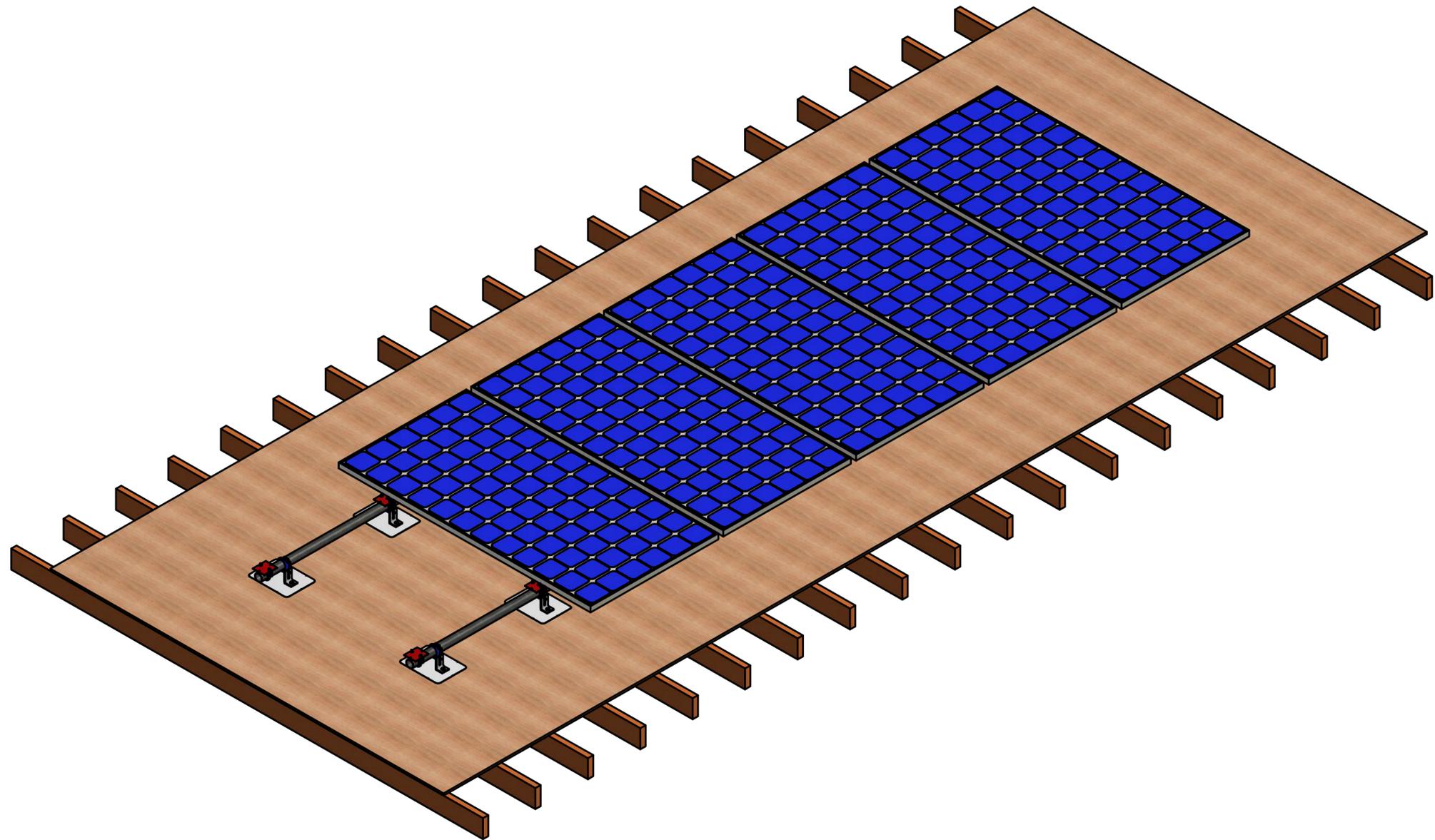


This is an effort to show an inexpensive roof mount system. It utilizes QuickMount mounting plates. These are attached to EMT electro mechanical tubing (2") with pipe clamps from McMasterr-Carr. It does NOT use what is called rails. These are extruded aluminum shapes that are expensive compared to galvanized mechanical tubing.

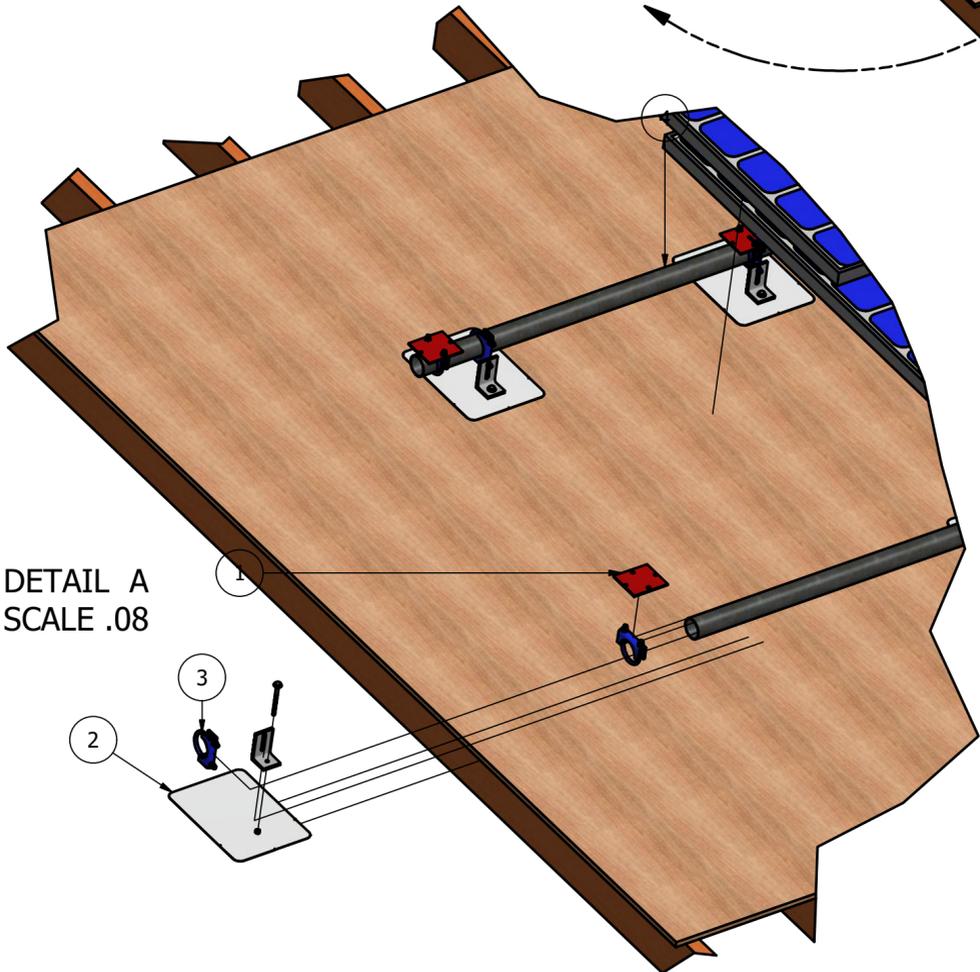
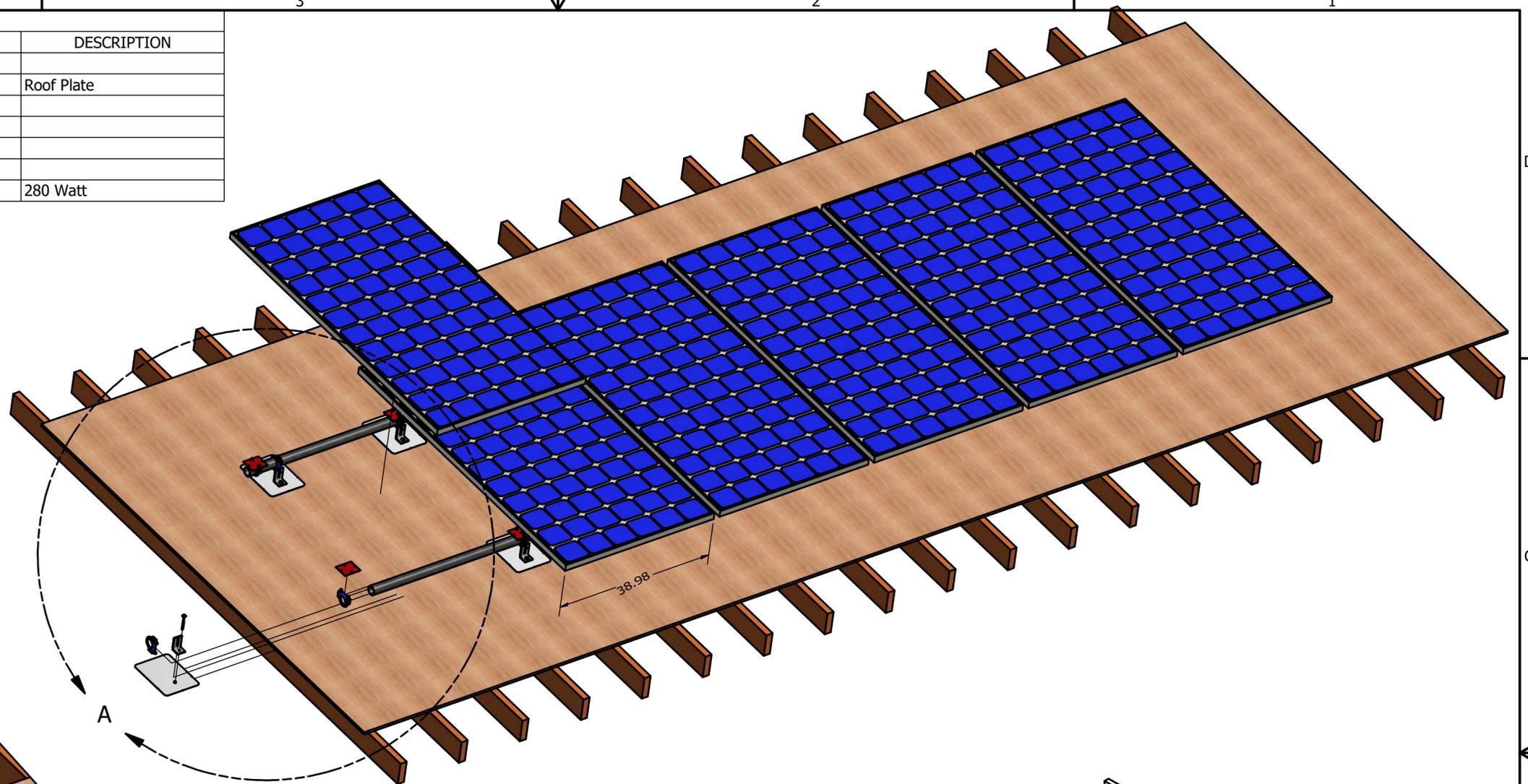


In order to use a 20' section of EMT, I have 2 comments.

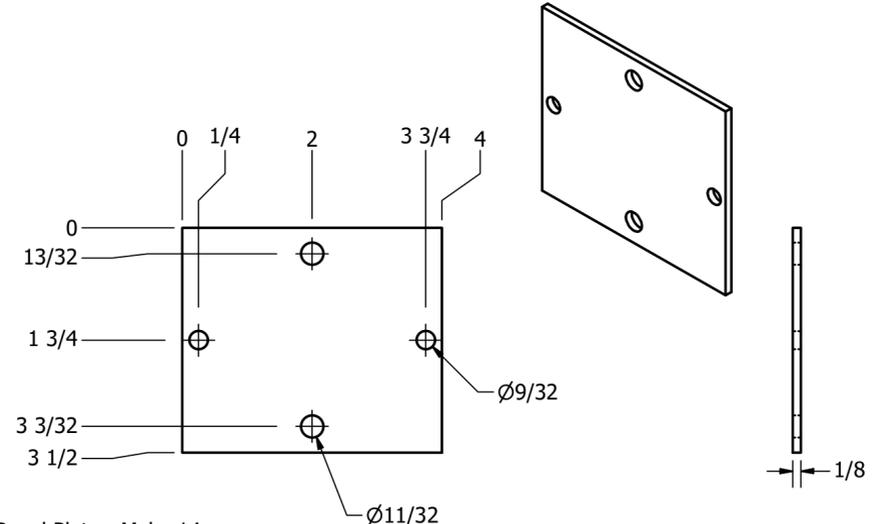
1. The outer panel mount plates, 4 each, shown on page 2, will use the outer holes. Assume the panel width is not much larger than the dimension shown.
2. Recommend clamping the panel mount plates onto the EMT. Then verifying that the panel mount plate locations do not interfere with the roof jacks. One only needs 2 QuikMount per panel. Eliminate some of the center ones.

DRAWN	10/30/2020	Watt-Tracker.com		
BILLS		TITLE		
CHECKED		Asphalt shingle roof mount solar array.		
QA		SIZE	DWG NO	REV
MFG		C	RoofArray2	
APPROVED		SCALE	SHEET 1 OF 2	

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	14	PanelMountPlate	
2	16	QuikMount	Roof Plate
3	16	3042T780_CLAMPING U-BOLT	
4	2	EMT2	
5	1	RoofSheathing	
6	19	Rafter	
7	6	REC_TwinPeak280_TP	280 Watt



DETAIL A
SCALE .08



Panel Plate - Make 14
Number = (# panels)2 + 2

DRAWN	10/30/2020	Watt-Tracker.com		
BILLS		TITLE		
CHECKED		Asphalt shingle roof mount solar array.		
QA		SIZE	DWG NO	REV
MFG		C	RoofArray2	
APPROVED		SCALE	SHEET 2 OF 2	