

March 24, 2023

MT Solar 54179 Herak Road Charlo, MT 59824

RE: Solar ground mount footing and assembly for Tamarack Solar, 288 F Street, Arcata, CA 95521

As per your request, I have evaluated the proposed footing and assembly for the solar array. The solar array consists of 6 panels with 1 footings. The following loads were used in the analysis of the pole mount system:

Snow load	40 psf
Wind speed	105 mph (ASCE 7-16)
Exposure Category	В
Soil Lateral Pressure	150 psf/ft
Soil Vertical Pressure	2000 psf

It is my recommendation that the MT Solar design (TE-102) will adequately support the solar array. The footing should be reinforced per detail 6. The 6" schedule 40 pipe supporting the solar array should be embedded as the footing shown.

The contractor shall notify the engineer if there are any discrepancies including soil profile. Right Angle Engineering assumes no responsibility for improper installation of solar panels or their components. Alterations to this engineering design and/or sealed plans shall not be made without direct written consent of the engineer of record.

Respectfully,



Robert D Smythe, P.E. Right Angle Engineering





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THIS CONF			
THE	FIGURATION SATIS	FIES RTH IN	
• 2018 INT	ERNATIONAL BUI	DING	
• 15TH ED.	. AISC STEEL DESIG	5N	
MANUAL MATERIALS	S:		
CONNECTI	ION LOCATIONS U	N.O	
	DWING	R	◄
• WIDE FLA	ANGE SECTIONS: A	STM	◄ 11'-11" ►
A992, Fy=	50 KSI GUI AR HSS SECTIO		
ASTM A50 • PLATES:	0, GR C, Fy=50 KS ASTM A36 Fv=36 K	I SI	
CONCRETE	E WORK TO BE IN NCE WITH ACI 318	-14	
• CONCRE MINIMUM	TE SHALL HAVE A COMPRESSIVE		
STRENGTH CONFIGUR	l OF (F'c) of 3000 P RATION SATISFIES	STHIS THE	
REQUIREM THE:	IENTS SET FORTH I	N	
• 2018 INT CODE			
MANUAL	. ΑΙSC STEEL DESIG		╞━━┫╞━━━━┥╢╞━━┩╎╞━┫┫╞╾┿━━━━┫╞━━╣
GR 5 BOLT	S. S USED AT ALL	NO	│ <mark>┌─╊───────────────────────────────────</mark>
STEEL MAT	TERIALS CONFORM	то	
• STEEL PII Fy=35 KSI	PE: ASTM A53, GR	В,	
• WIDE FLA A992, Fy=	ANGE SECTIONS: A 50 KSI	STM	
• RECTANC ASTM A50	GULAR HSS SECTIC 00, GR C, Fy=50 KS	I DNS:	
PLATES: / CONCRETE	ASTM A36 Fy=36 K WORK TO BE IN	SI	6 '-0"
ACCORDAI ONCRE	NCE WITH ACI 318 TE SHALL HAVE A	-14	
STRENGTH	COMPRESSIVE I OF (F'c) of 3000 P	s	
			Sch 40
Item	Quantity	Name	HSS3x2x1/8
Item	Quantity	Name	HSS3x2x1/8
Item 1	Quantity	Name CB-POLECAP-6	HSS3x2x1/8 2.5in Pipe Sch 40
Item 1 2	Quantity 1 1	Name CB-POLECAP-6 CYBER-BACKPLATE-6	HSS3x2x1/8 2.5in Pipe Sch 40
Item 1 2 3	Quantity 1 1 1 1	Name CB-POLECAP-6 CYBER-BACKPLATE-6 CB-LID-6	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4	Quantity 1 1 1 1 2	Name CB-POLECAP-6 CYBER-BACKPLATE-6 CB-LID-6 BOLT-KIT-CYBER-6	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5	Quantity 1 1 1 1 2 1	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTER	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6	Quantity 1 1 1 1 2 1 9	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLT	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7	Quantity 1 1 1 2 1 9 2	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SD	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8	Quantity 1 1 1 2 1 9 2 1 9 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SD	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8 9	Quantity 1 1 1 2 1 9 2 1 1 1 1 1 1 2 1 9 2 1 1 1 1 1 1 1 1	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SD	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8 9 10	Quantity 1 1 1 2 1 9 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 4	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8 9 10 11	Quantity 1 1 1 2 1 9 2 1 1 9 2 1 1 9 2 1 4 1	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)POLT KIT CR FRAME	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8 9 10 11	Quantity 1 1 1 2 1 9 2 1 1 9 2 1 4 1	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)BOLT-KIT-CB-FRAME	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8 9 10 11 12	Quantity 1 1 1 2 1 9 2 1 9 2 1 4 1 1 1 1 1 1 1 1 1 1 1 1	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)BOLT-KIT-CB-FRAMEPOLE (NOT INCLUDED)	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8 9 10 11 12 13	Quantity 1 1 1 2 1 9 2 1 9 2 1 4 1 4 1 4 1 4 1 4 1 4	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)BOLT-KIT-CB-FRAMEPOLE (NOT INCLUDED)3.1 Rail Configurable	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Quantity 1 1 1 2 1 9 2 1 9 2 1 4 1 4 1 4 1 1 4 1 4 1 4 1 4 16	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)BOLT-KIT-CB-FRAMEPOLE (NOT INCLUDED)3.1 Rail ConfigurableTamarack Module Clamp Assemb	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe Sch 40 2in Pipe Sch 40 2in Pipe Sch 40 2in Pipe Sch 40 Mar 24 2023
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Quantity 1 1 1 2 1 9 2 1 9 2 1 4 1 4 1 4 1 4 16 8	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)BOLT-KIT-CB-FRAMEPOLE (NOT INCLUDED)3.1 Rail ConfigurableTamarack Module Clamp AssembTamarack Rail Adapter Kit	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Quantity 1 1 1 2 1 9 2 1 9 2 1 4 1 4 1 4 16 8 8	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)BOLT-KIT-CB-FRAMEPOLE (NOT INCLUDED)3.1 Rail ConfigurableTamarack Module Clamp AssembTamarack Rail Adapter KitFM-1040M Tamarack Pipe Mount 1	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Quantity 1 1 1 2 1 9 2 1 9 2 1 1 4 1 4 1 4 16 8 1 1	NameCB-POLECAP-6CYBER-BACKPLATE-6CB-LID-6BOLT-KIT-CYBER-6CYBER-ADJUSTERCB-2-U-BOLTTUBE-3x2-60IN-SDPIPE-2IN-36IN-SDPIPE-2.5IN-36IN-SDPIPE-KIT-6FT-SD (NOT INCLUDED)BOLT-KIT-CB-FRAMEPOLE (NOT INCLUDED)3.1 Rail ConfigurableTamarack Module Clamp AssembTamarack Rail Adapter KitFM-1040M Tamarack Pipe Mount 1groundplane	HSS3x2x1/8 2.5in Pipe Sch 40 2in Pipe

