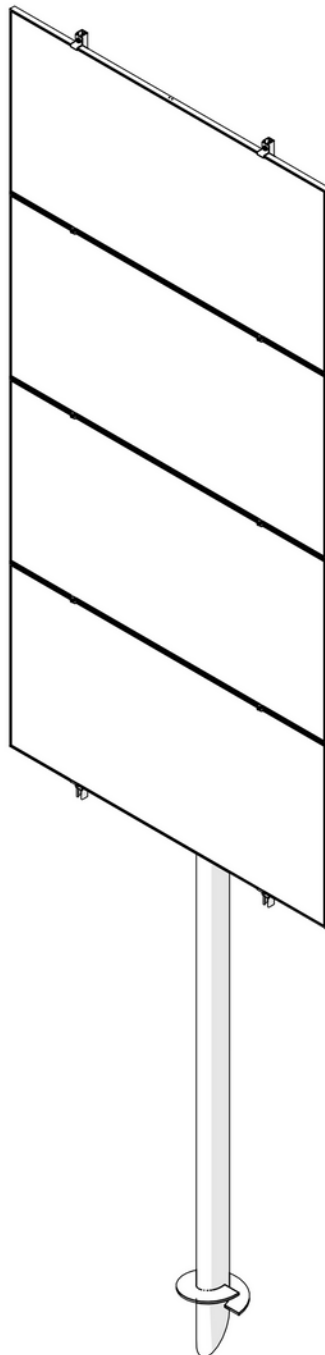
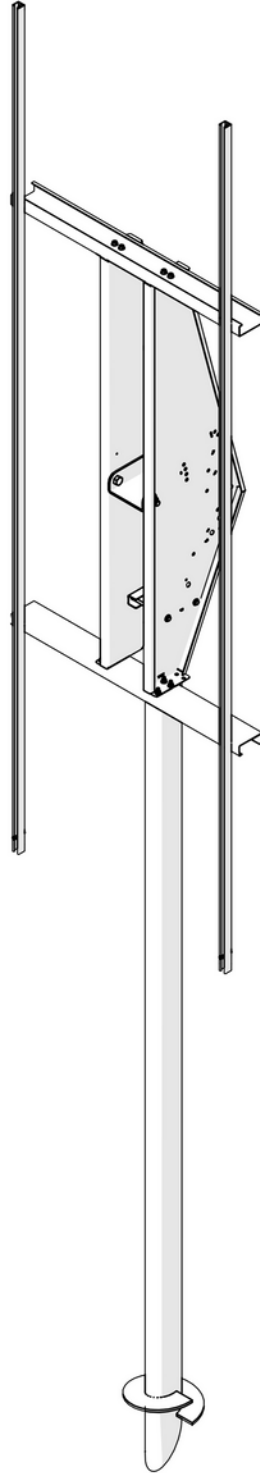


ASSEMBLY INSTRUCTIONS

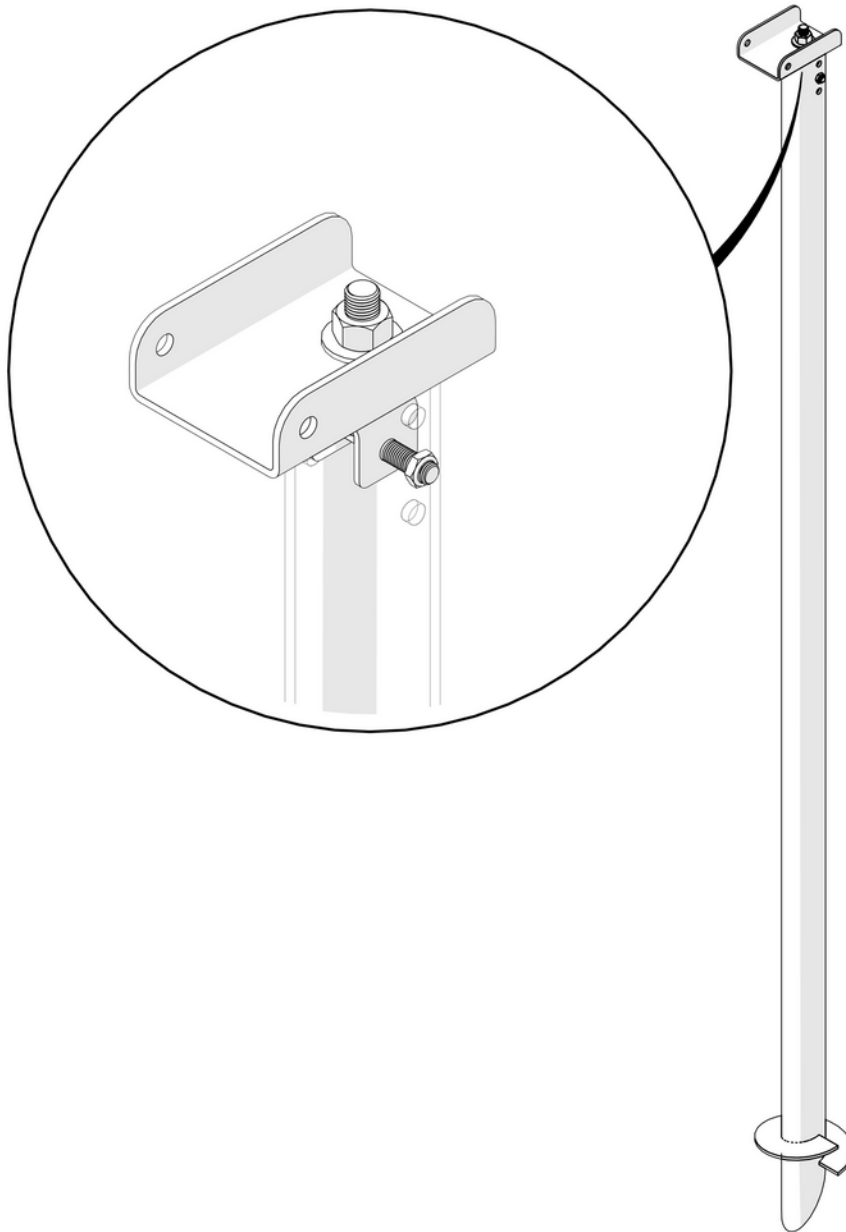
SunRanger® Monopole ST-4L



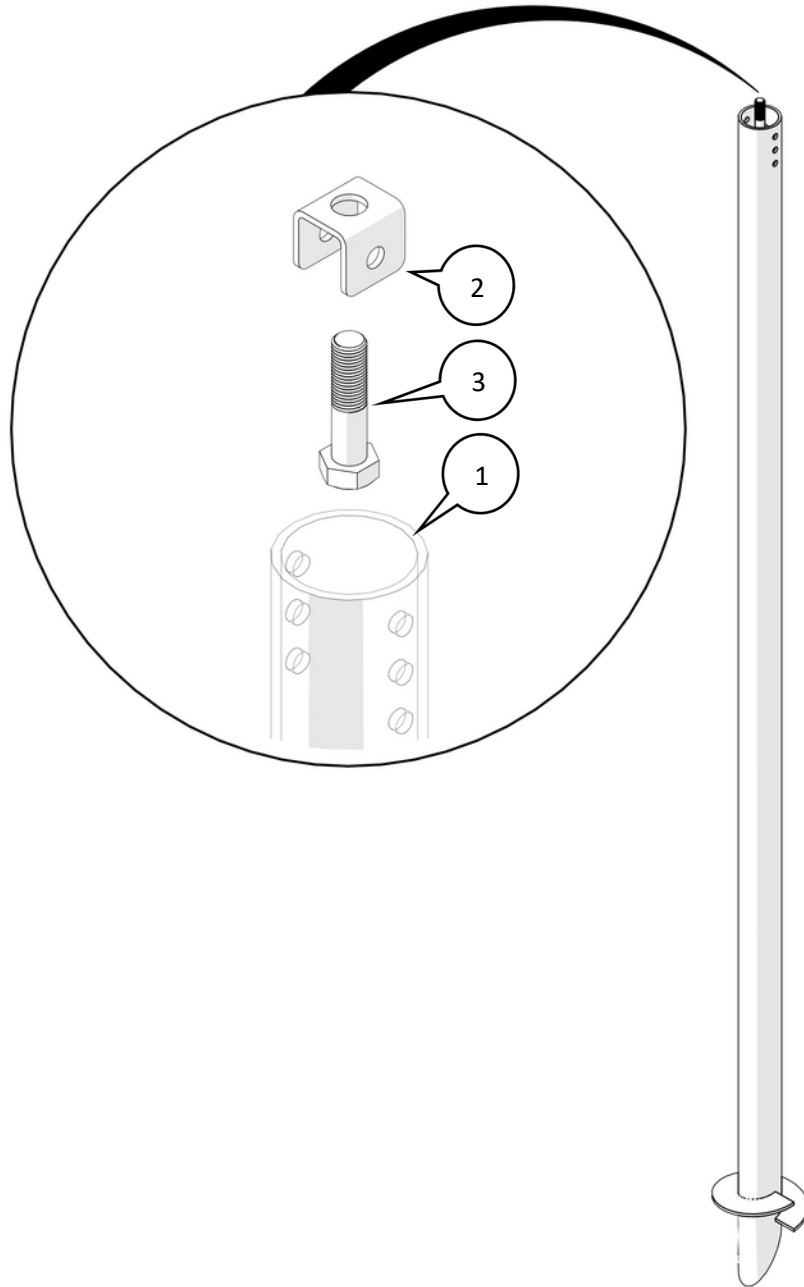
WITHOUT SOLAR PANELS Assembled View



HELICAL SCREW PILE Pivot Adapter Assembled View

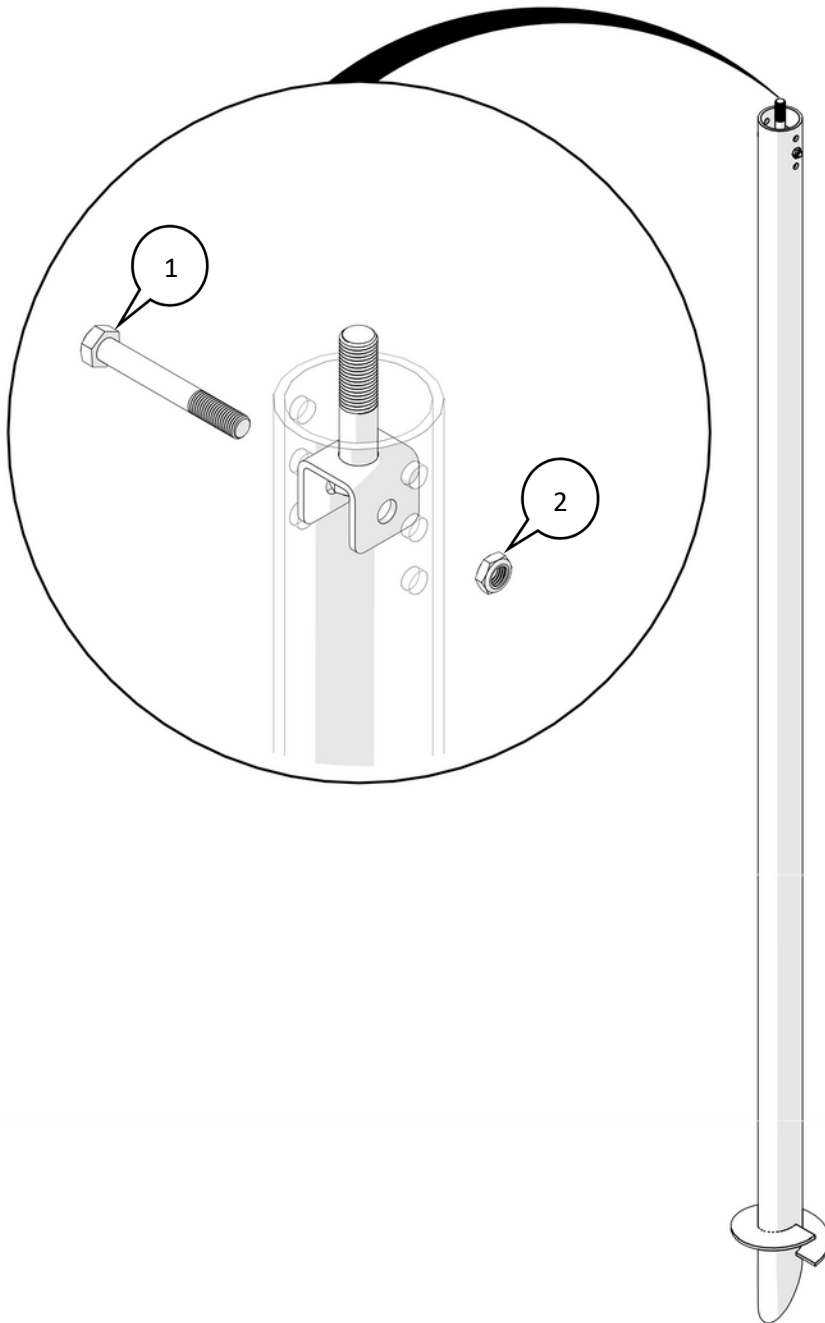


PILE INSERT Assembly View



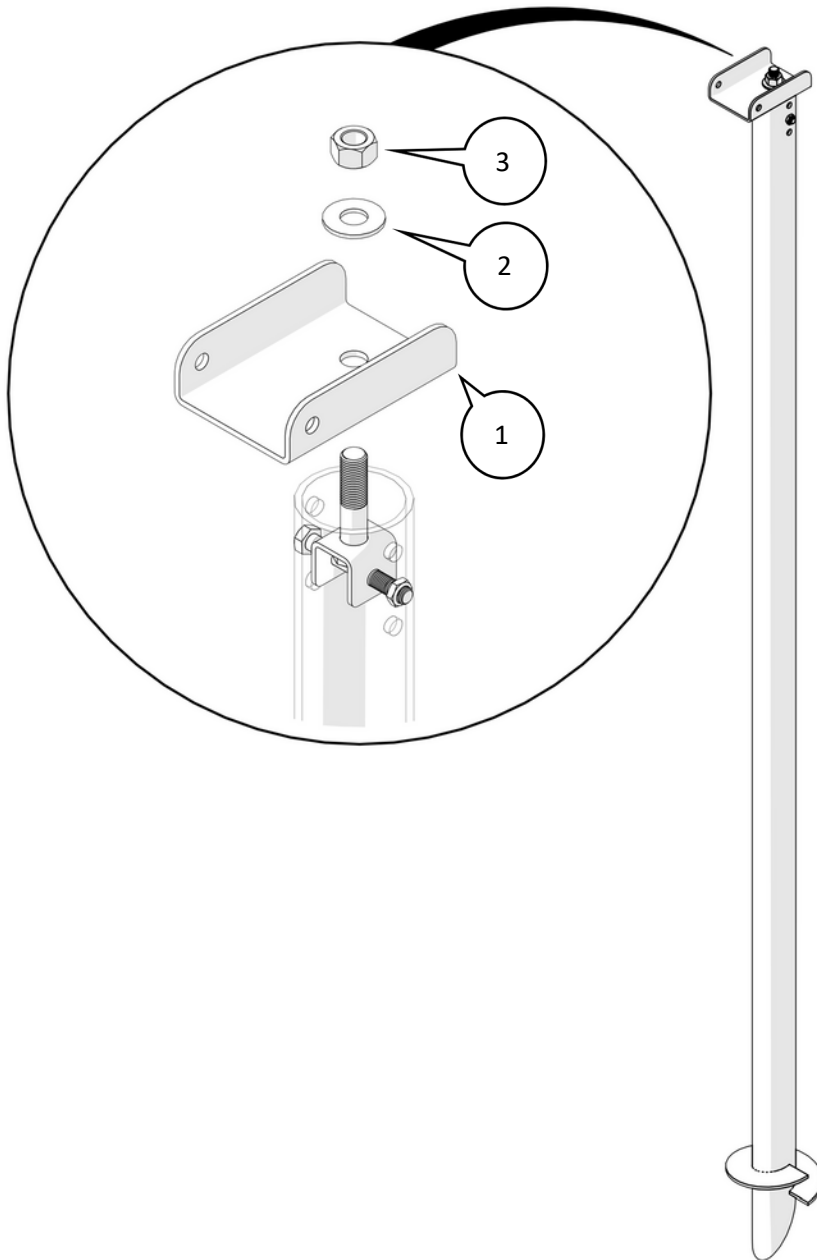
ITEM NO.	DESCRIPTION	QTY
1	HELICAL SCREW PILE	1
2	PILE INSERT	1
3	1 1/2" x 6" BOLT	1

PILE INSERT Assembly View



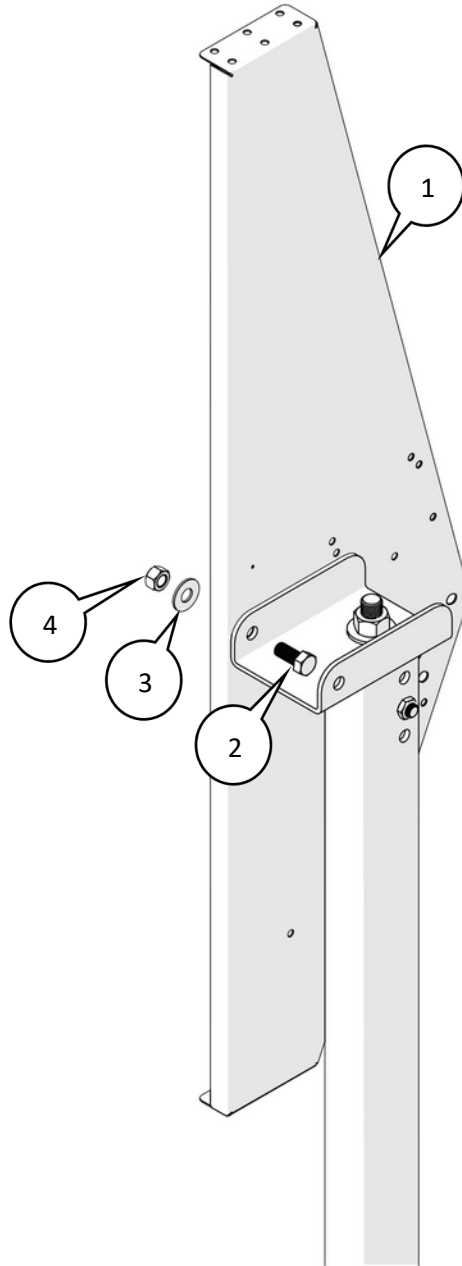
ITEM NO.	DESCRIPTION	QTY
1	1" x 7 1/2" BOLT	1
2	1" NYLOCK JAM NUT	1

PILE ADAPTER Assembly View



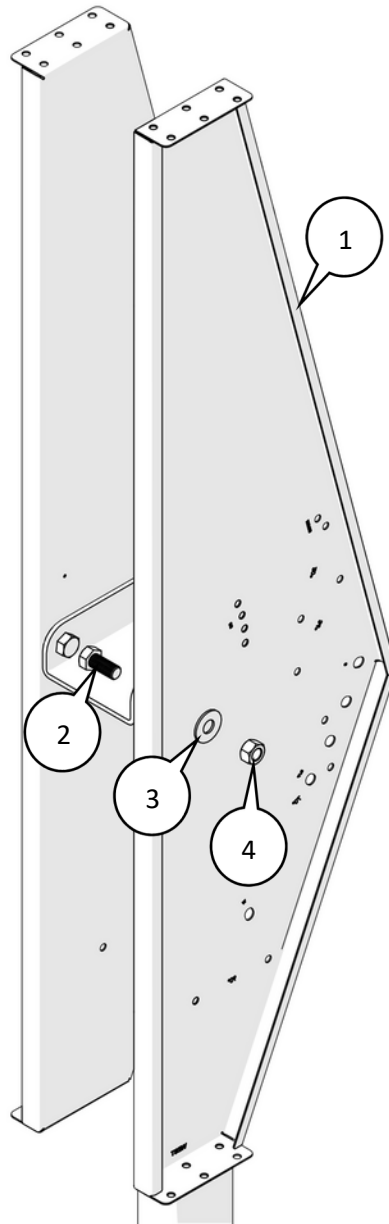
ITEM NO.	DESCRIPTION	QTY
1	PILE ADAPTER	1
2	1 1/2" WASHER	1
3	1 1/2" NUT	1

PIVOT PLATE Assembly View



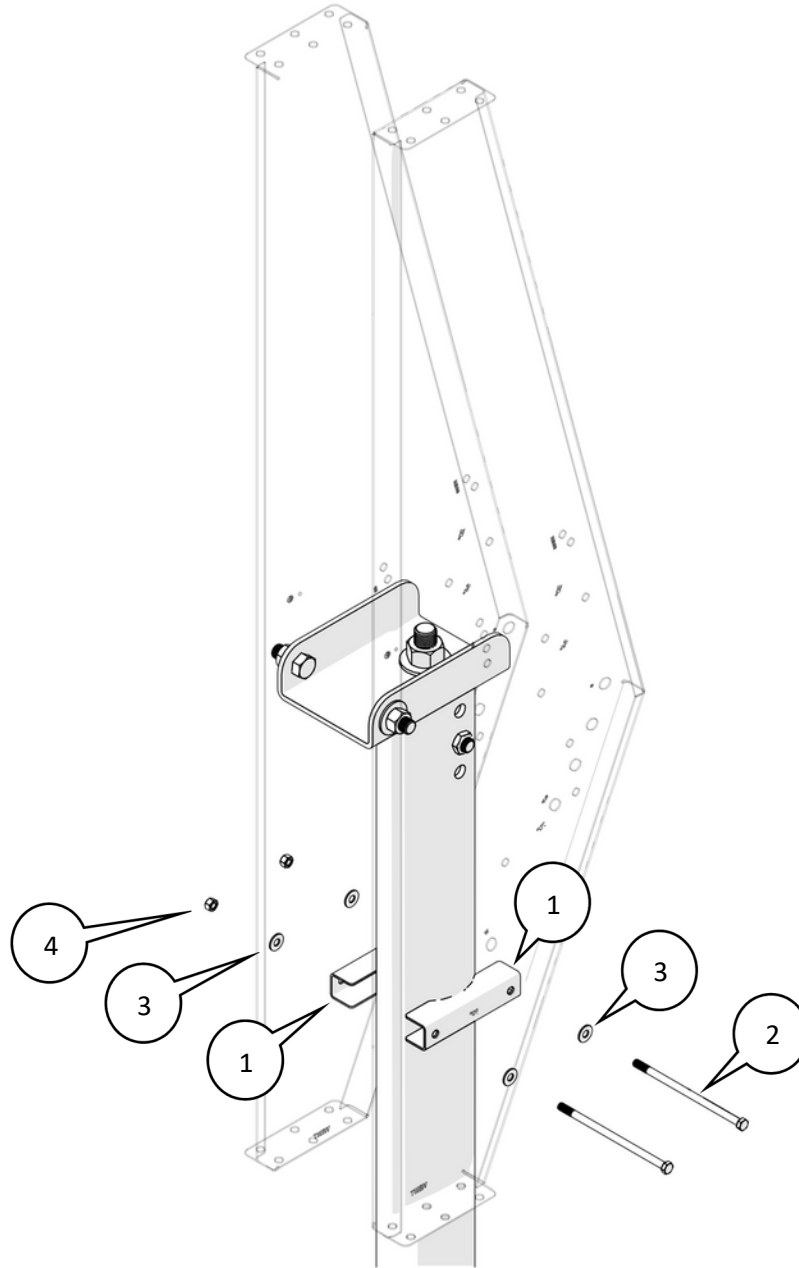
ITEM NO.	DESCRIPTION	QTY
1	PIVOT PLATE WEST	1
2	1" x 2 1/4" BOLT	1
3	1" WASHER	1
4	1" NUT	1

PIVOT PLATE Assembly View



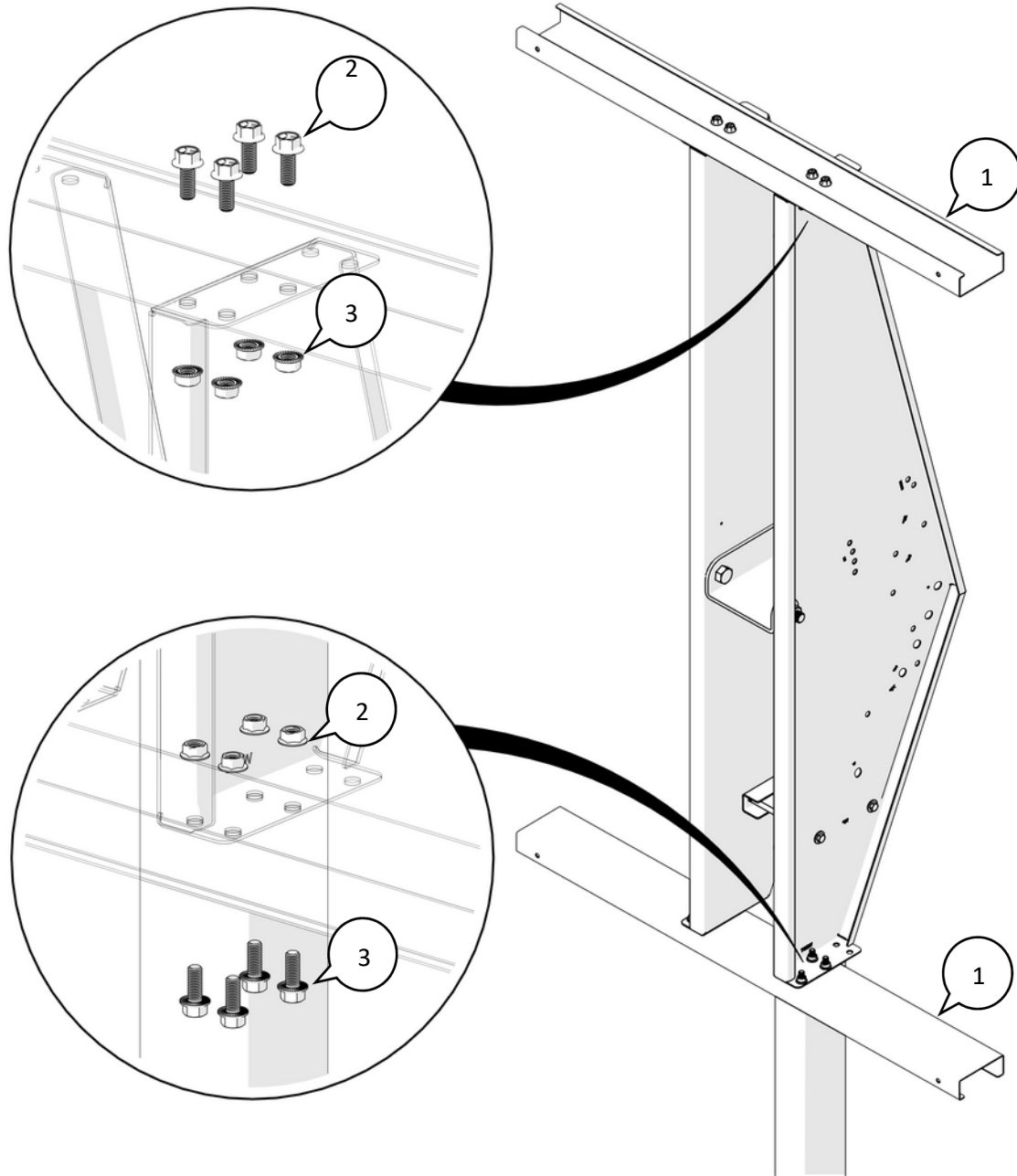
ITEM NO.	DESCRIPTION	QTY
1	PIVOT PLATE EAST	1
2	1" x 2 1/4" BOLT	1
3	1" WASHER	1
4	1" NUT	1

PILE SADDLES Assembly View



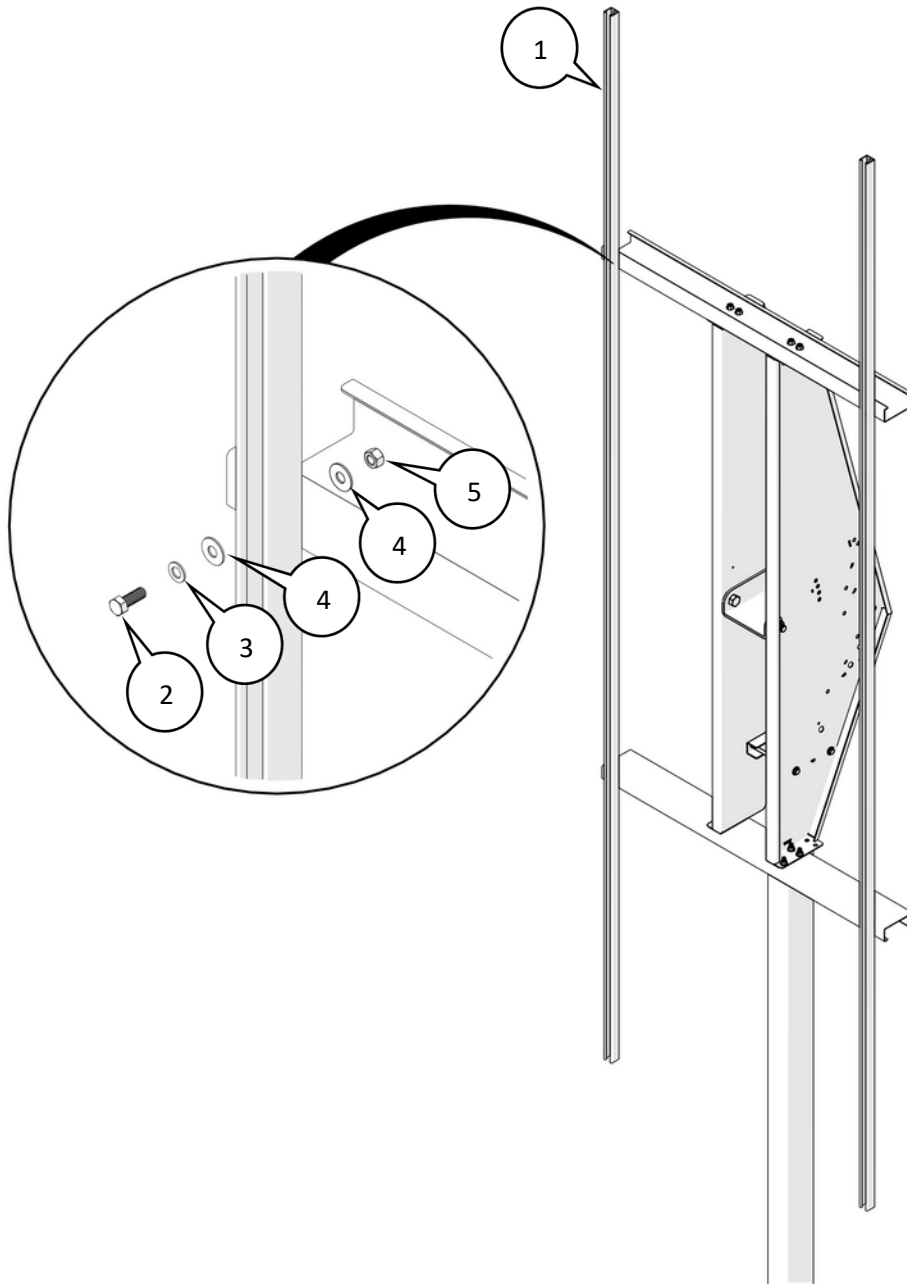
ITEM NO.	DESCRIPTION	QTY
1	PILE SADDLE	2
2	1/2" x 10" BOLT	2
3	1/2" WASHER	4
4	1/2" NUT	2

MAIN BEAM Assembly View



ITEM NO.	DESCRIPTION	QTY
1	MAIN BEAM	2
2	1/2" x 1 1/4" SERRATED FLANGE BOLT	16
3	1/2" SERRATED FLANGE NUT	16

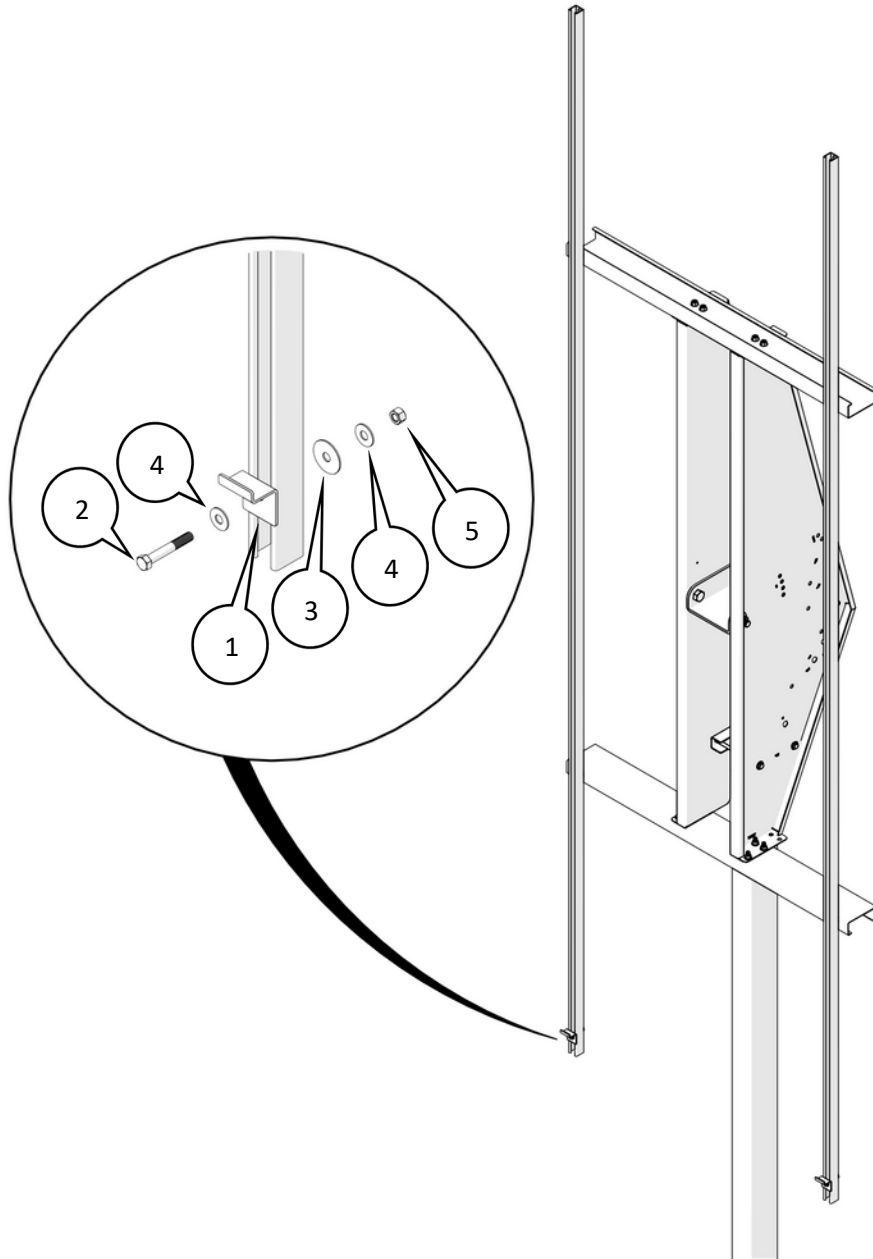
PURLINS Assembly View



Note: purlins should extend past main beam at equal lengths all around

ITEM NO.	DESCRIPTION	QTY
1	PURLIN	2
2	3/8" x 1" BOLT	4
3	3/8" WASHER (Gr8 YELLOW COLOR)	4
4	3/8" WASHER	8
5	3/8" NYLOCK NUT	4

Z-CLIP Assembly View

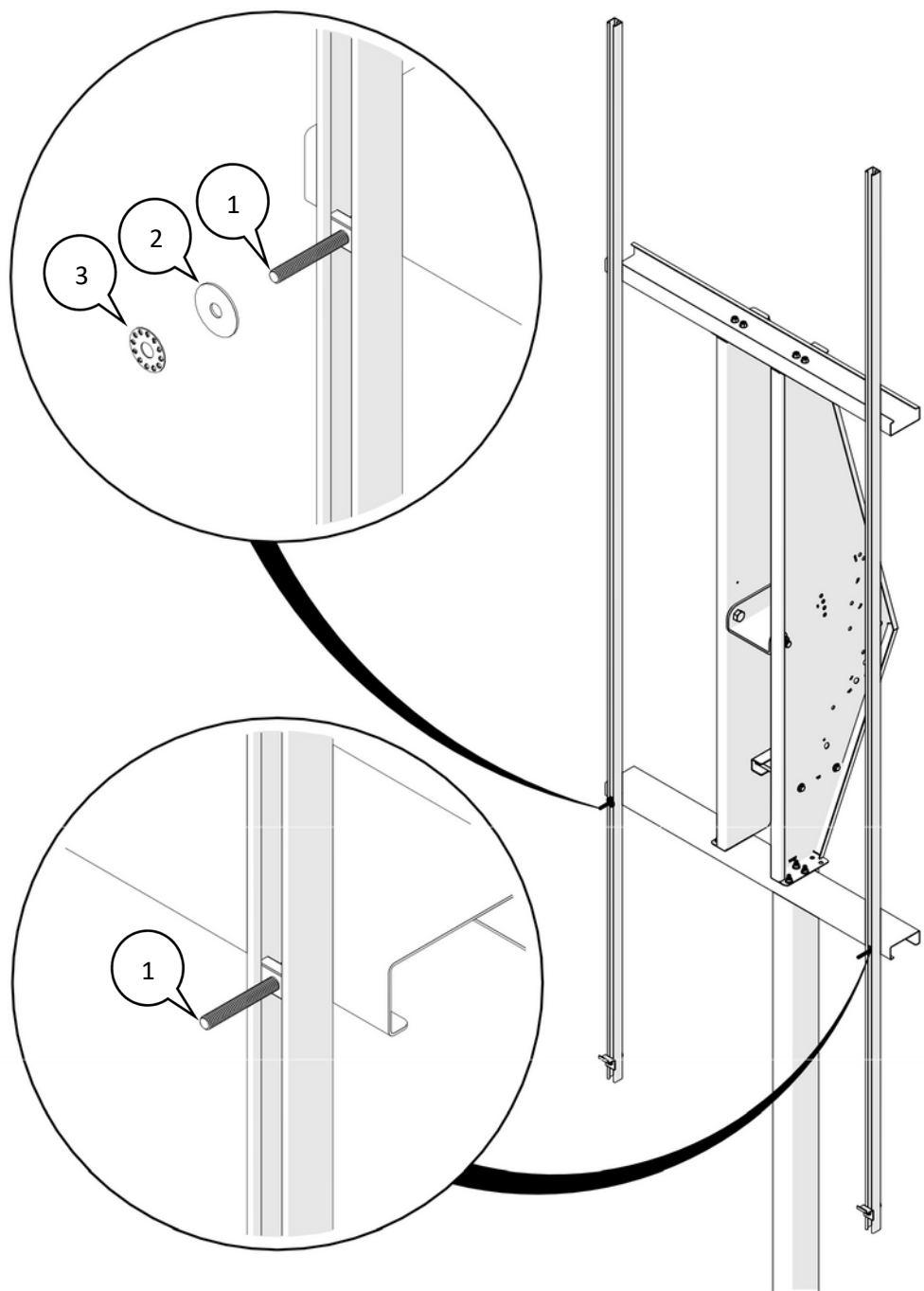


Note: z-clip hardware to be installed in second slot from bottom

ITEM NO.	DESCRIPTION	QTY
1	Z-CLIP	2
2	3/8" x 2 1/2 " BOLT	2
3	3/8" FENDER WASHER	2
4	3/8" WASHER	4
5	3/8" NYLOCK NUT	2

SOLAR PANELS

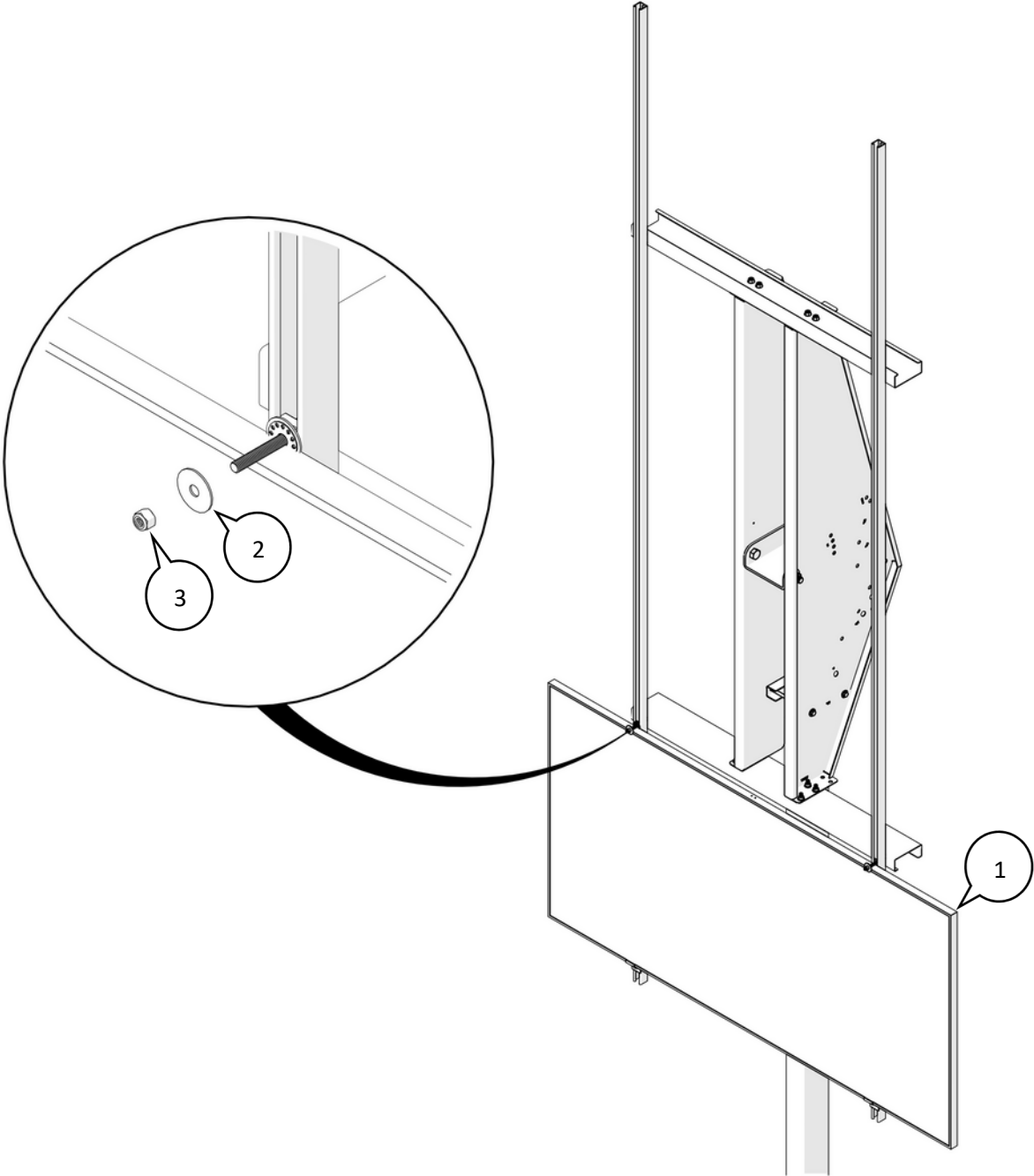
Hardware Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SPRING STUD	2
2	3/8" FENDER WASHER	1
3	3/8" BONDING WASHER	1

SOLAR PANELS

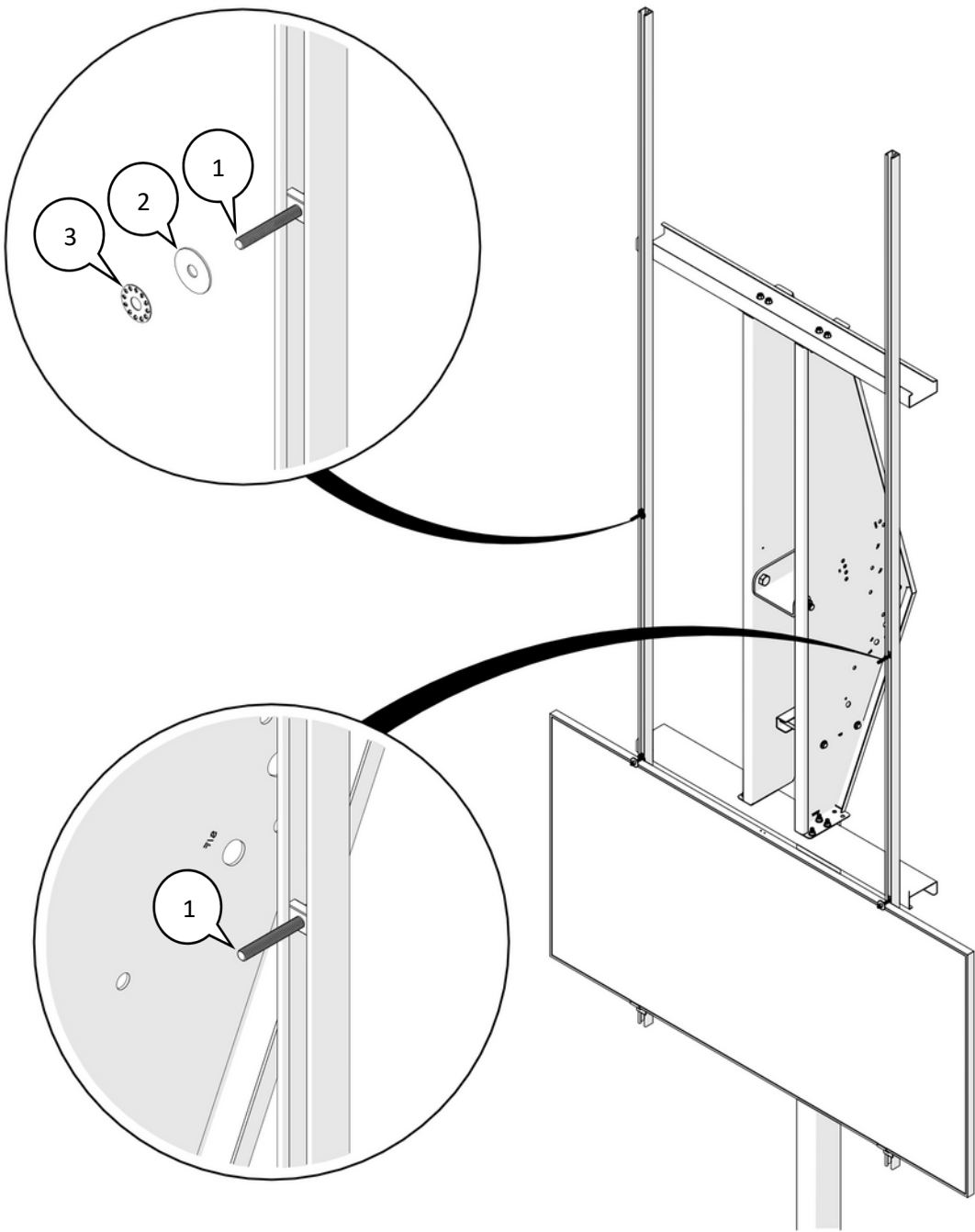
First Row Assembly View



ITEM NO.	DESCRIPTION	QTY
1	PANEL 3/8" FENDER	1
2	WASHER 3/8" NYLOCK	2
3	NUT	2

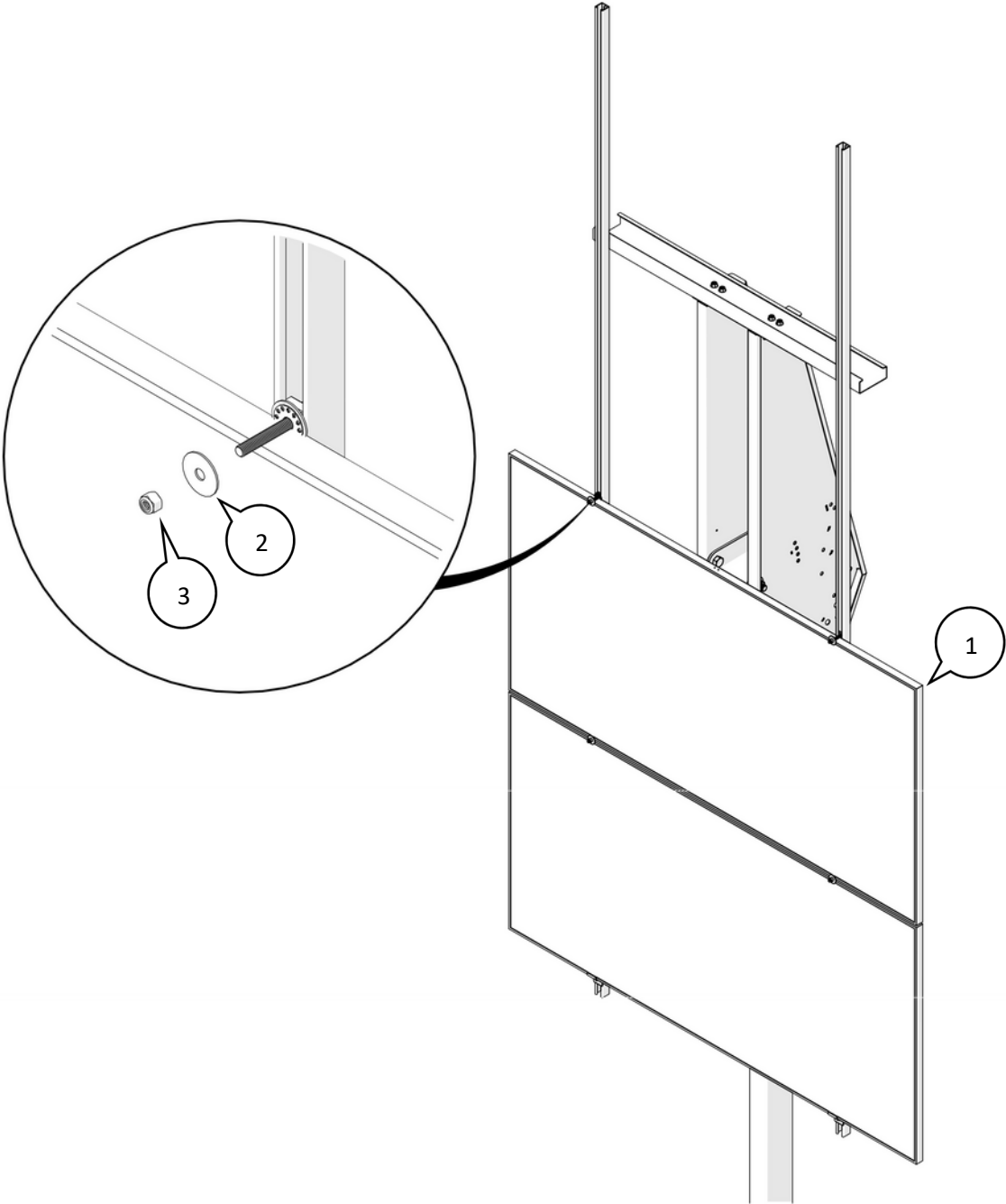
SOLAR PANELS

Hardware Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SPRING STUD	2
2	3/8" FENDER WASHER	1
3	3/8" BONDING WASHER	1

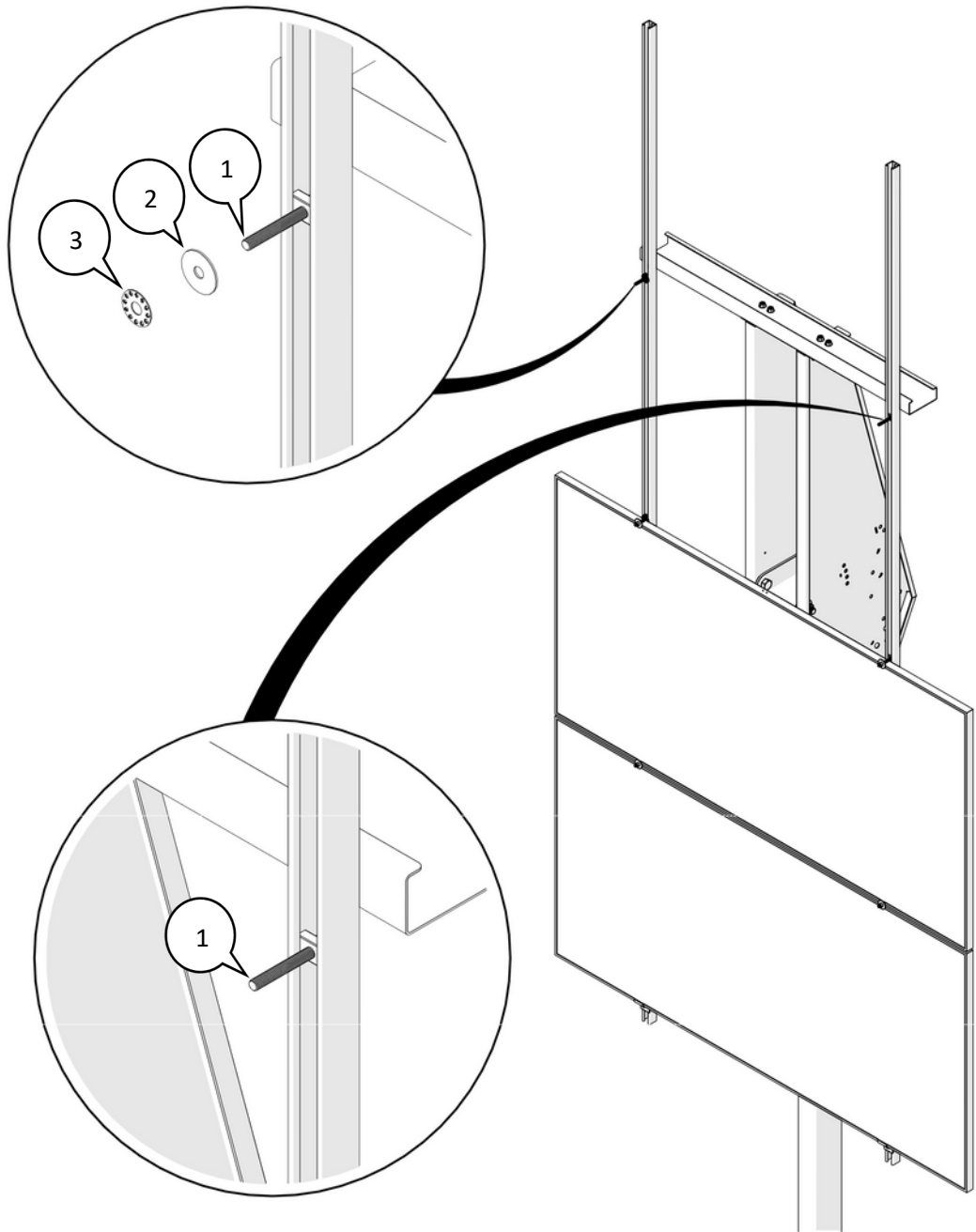
SOLAR PANELS
Second Row Assembly View



ITEM NO.	DESCRIPTION	QTY
1	PANEL 3/8" FENDER	1
2	WASHER 3/8" NYLOCK	2
3	NUT	2

SOLAR PANELS

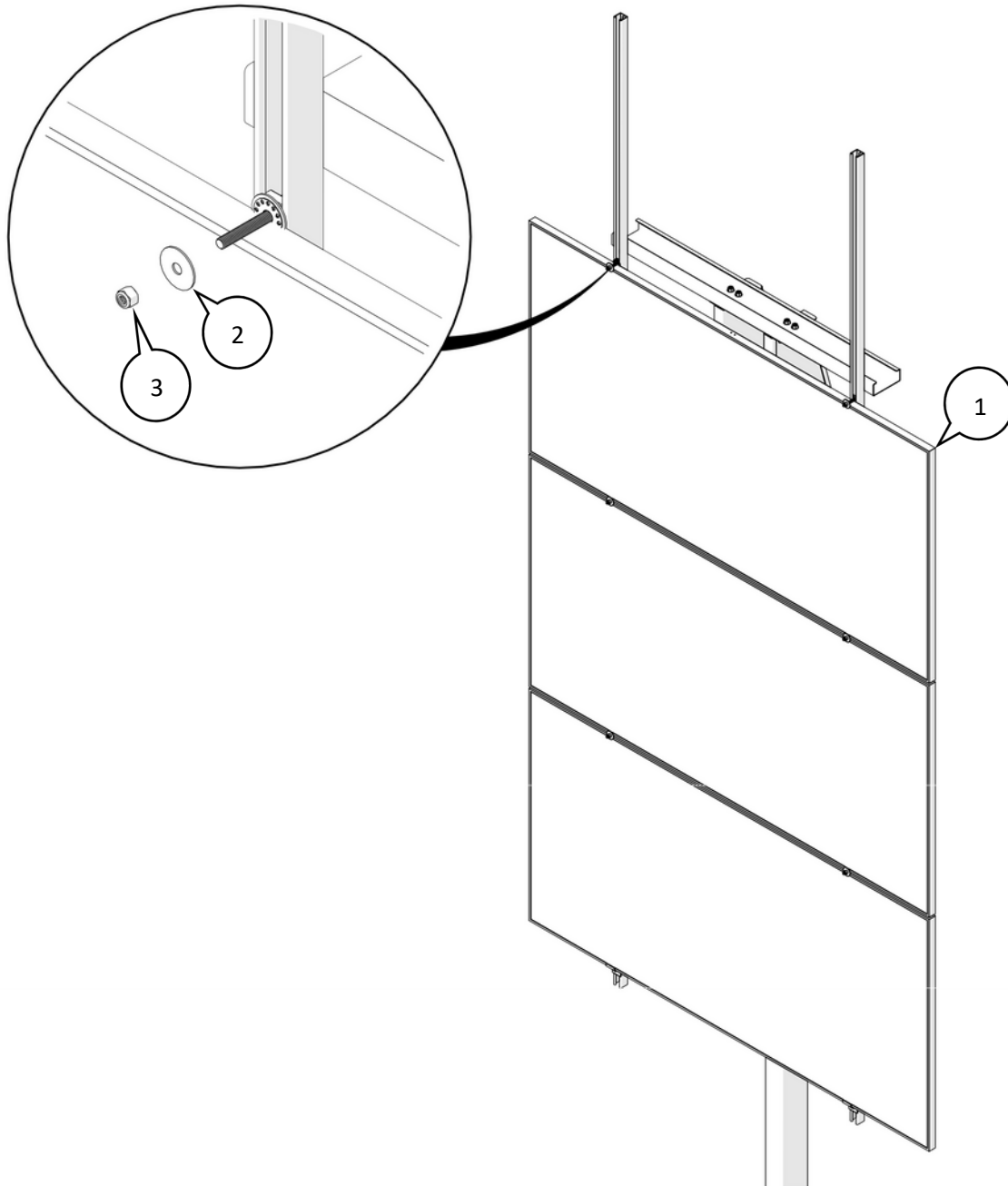
Hardware Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SPRING STUD	2
2	3/8" FENDER WASHER	1
3	3/8" BONDING WASHER	1

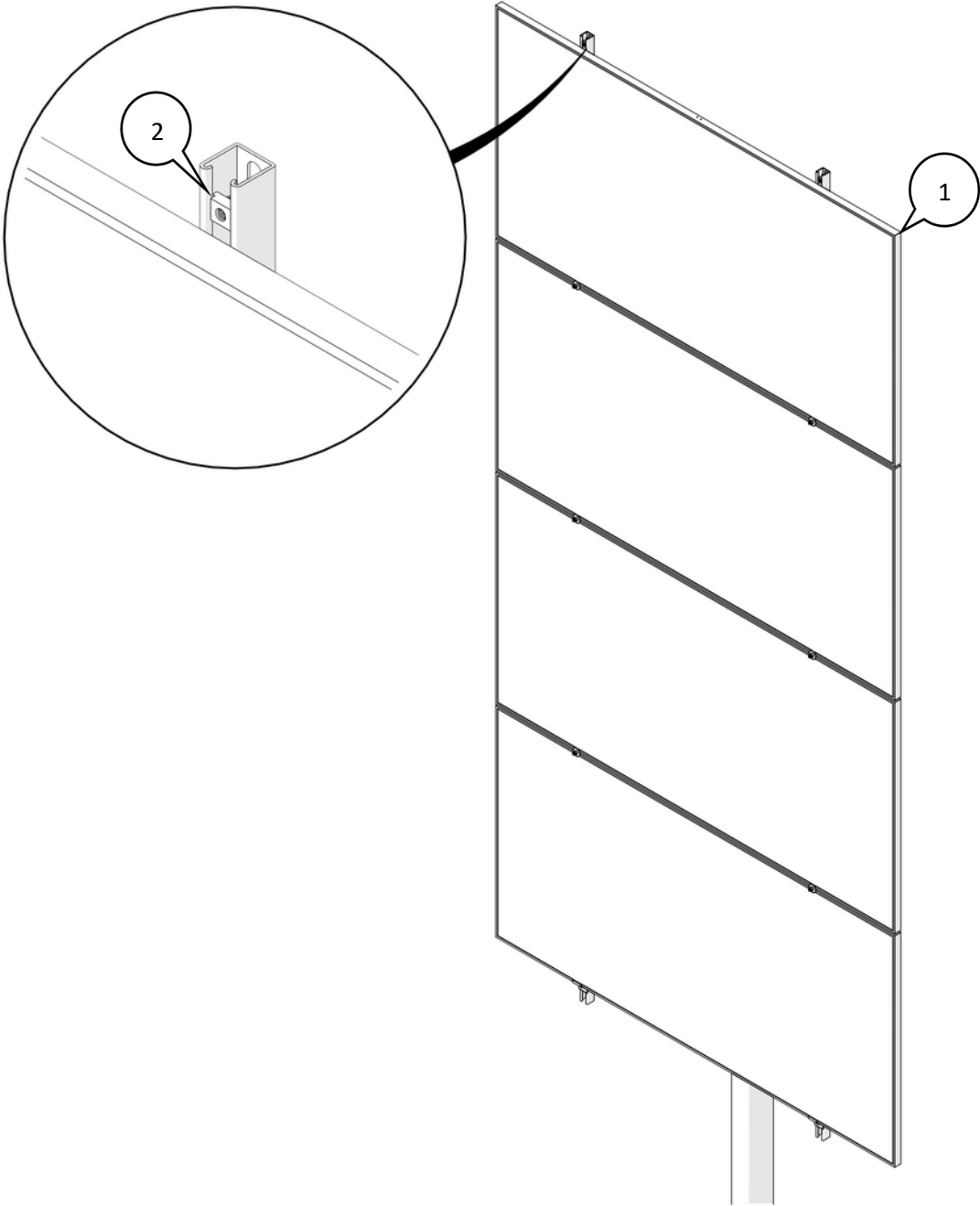
SOLAR PANELS

Third Row Assembly View



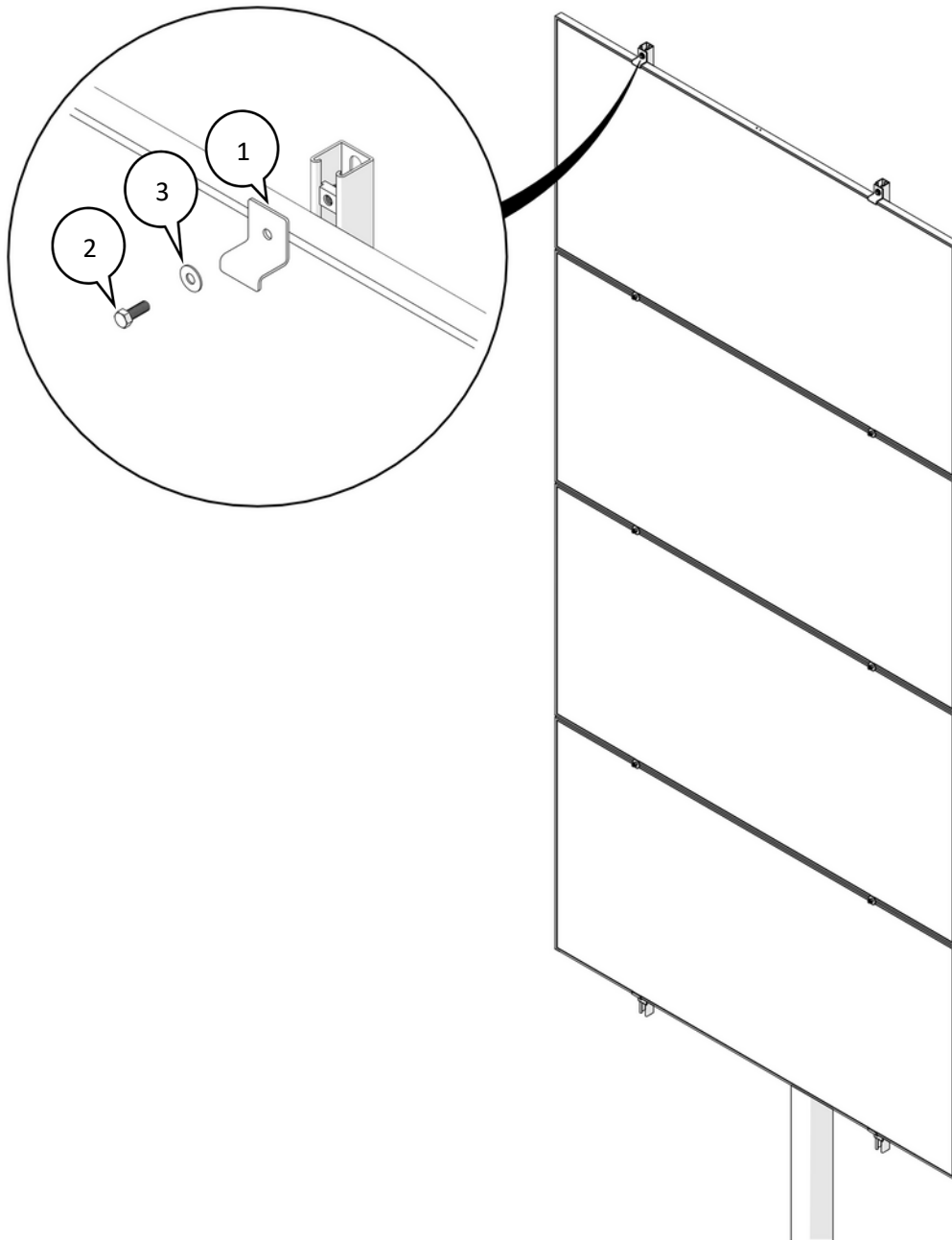
ITEM NO.	DESCRIPTION	QTY
1	PANEL 3/8" FENDER	1
2	WASHER 3/8" NYLOCK	2
3	NUT	2

SOLARPANELS
Fourth Row Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SOLAR PANEL	1
2	3/8" SPRING NUT	2

Z-CLIP Assembly View



ITEM NO.	DESCRIPTION	QTY
1	Z-CLIP	2
2	3/8" x 1" BOLT	2
3	3/8" WASHER	2

SunRanger[®] Monopole ST-4L Assembled View

