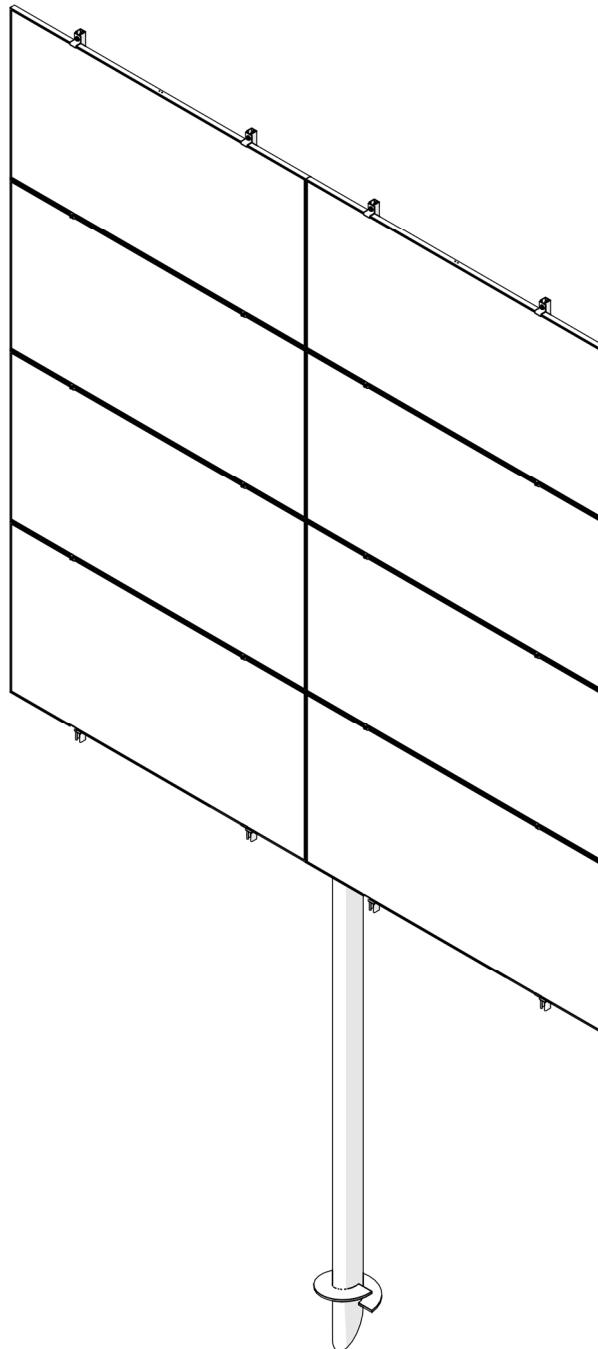


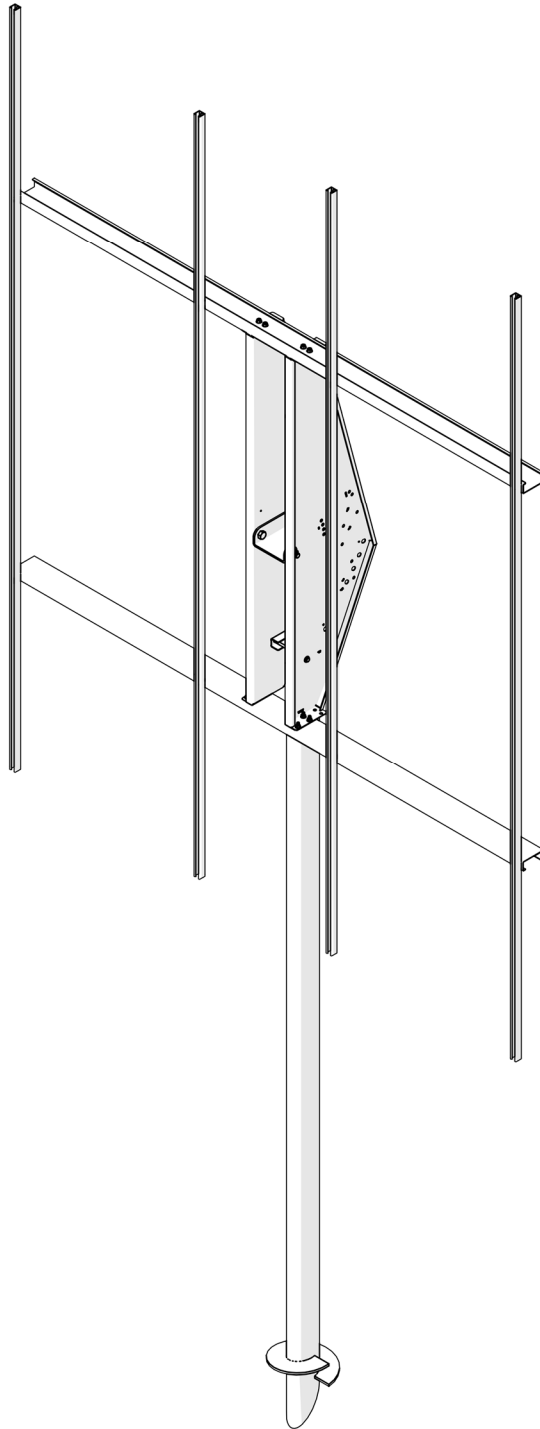
ASSEMBLY INSTRUCTIONS

SunRanger® Monopole ST-8L



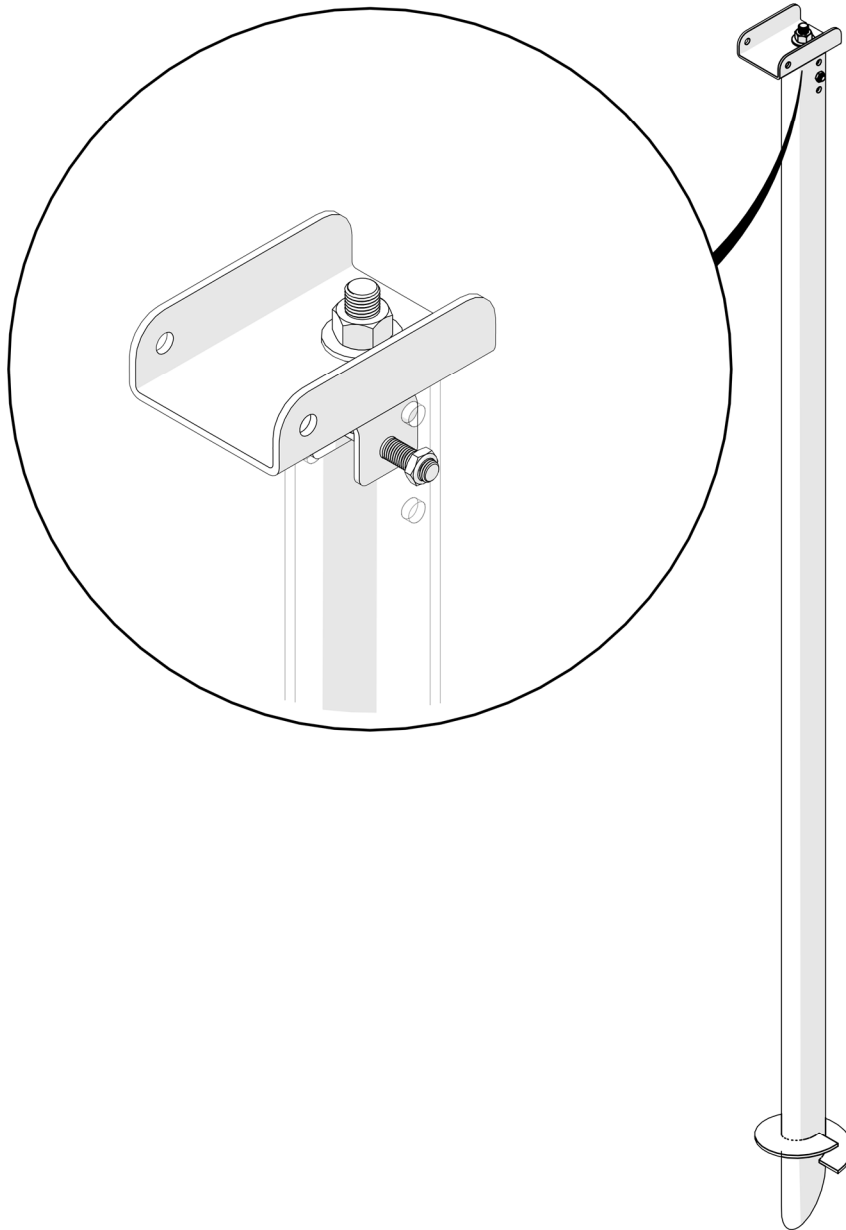
WITHOUT SOLAR PANELS

Assembled View

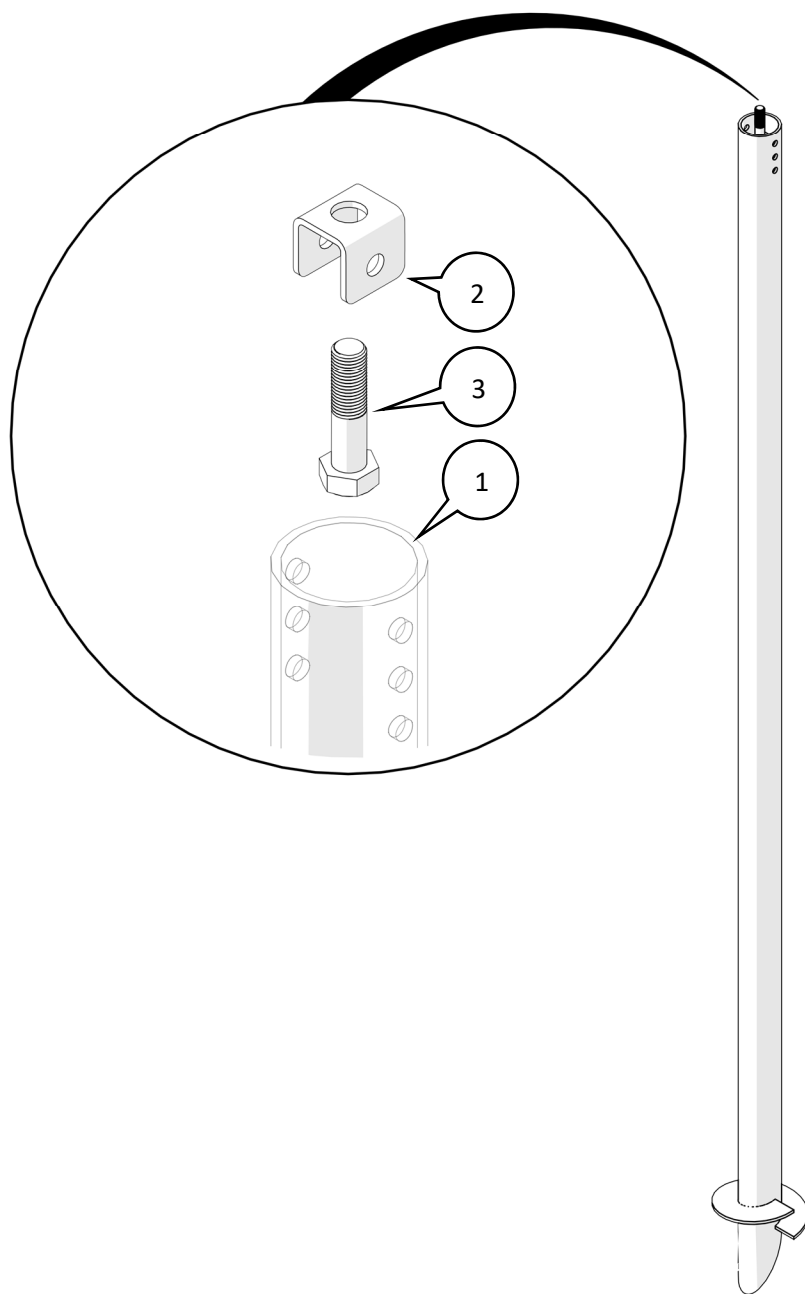


HELICAL SCREW PILE

Pivot Adapter Assembled View

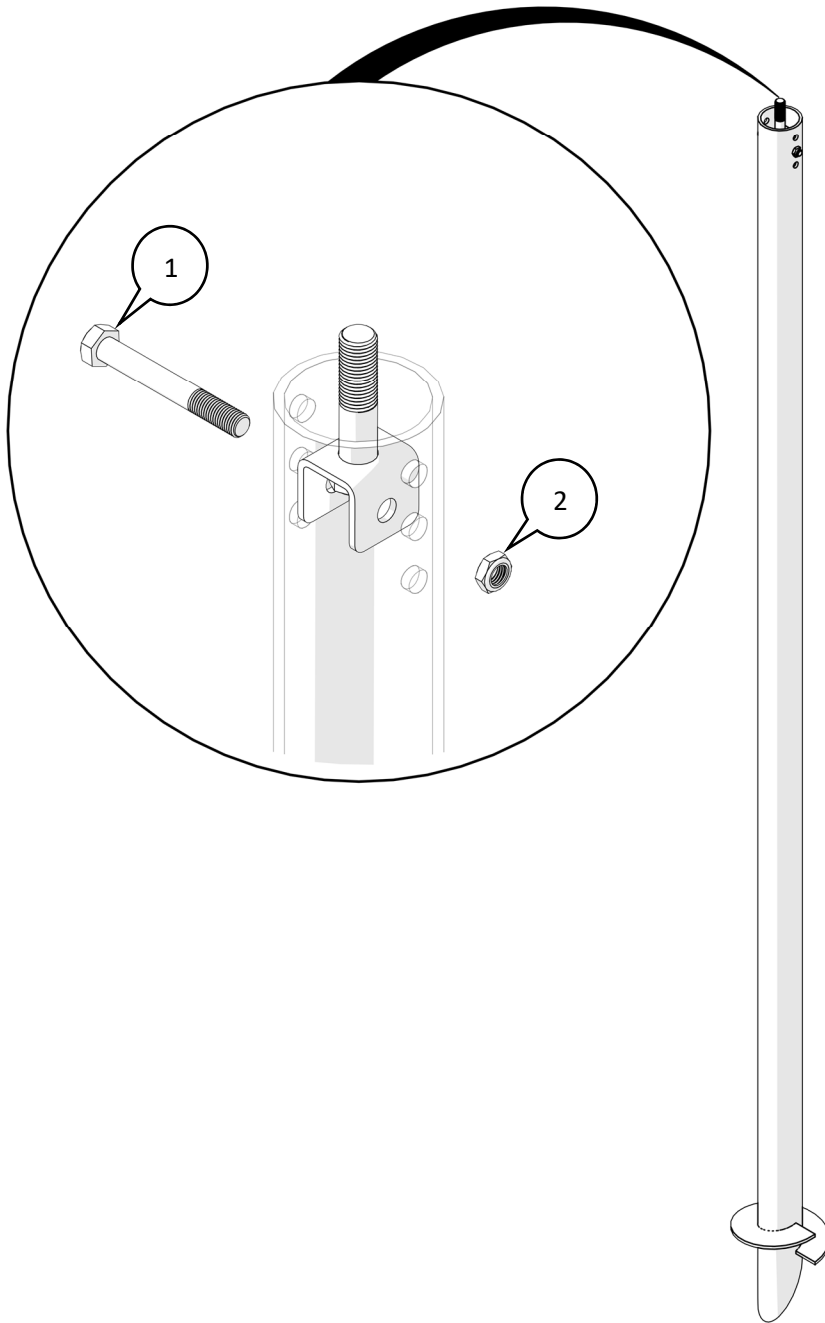


PILE INSERT Assembly View



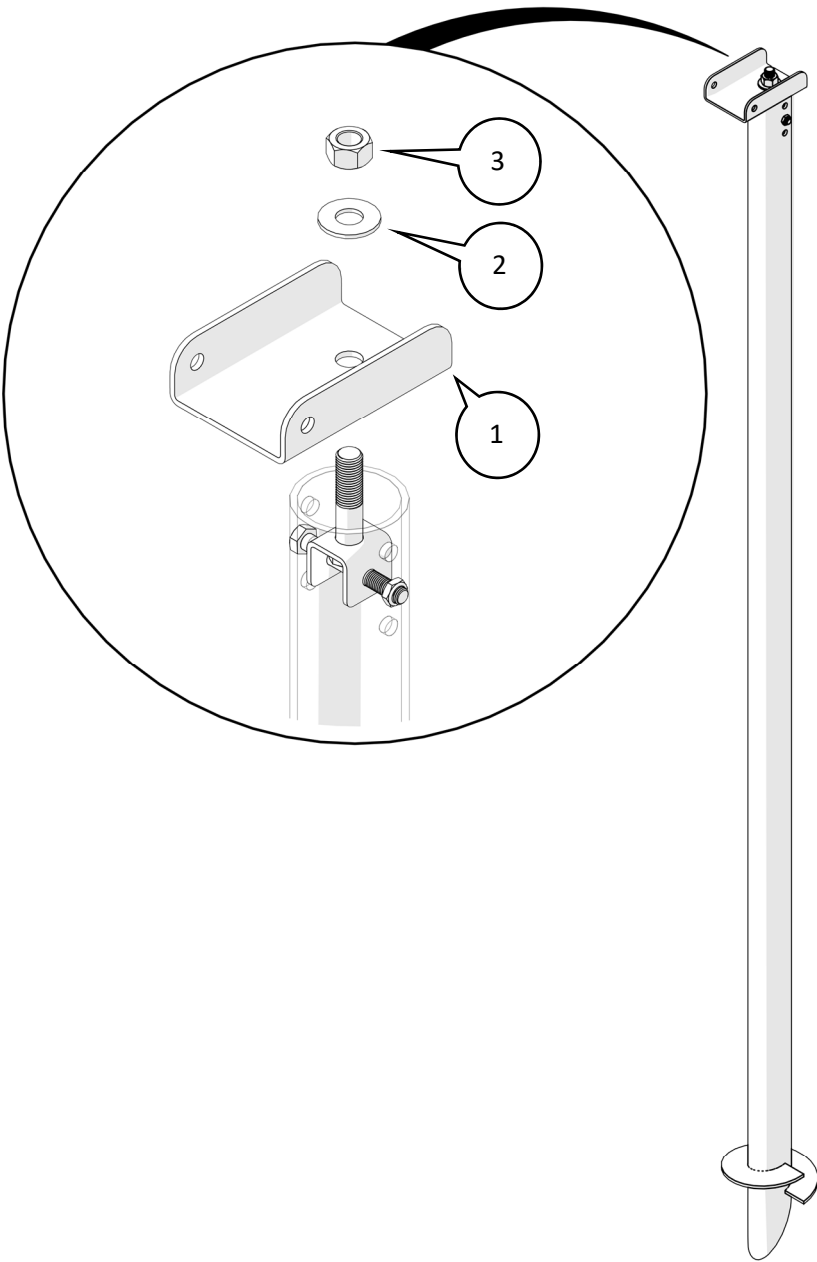
ITEM NO.	DESCRIPTION	QTY
1	HELICAL SCREW PILE	1
2	PILE INSERT	1
3	1 1/2" x 6" BOLT	1

PILE INSERT Assembly View



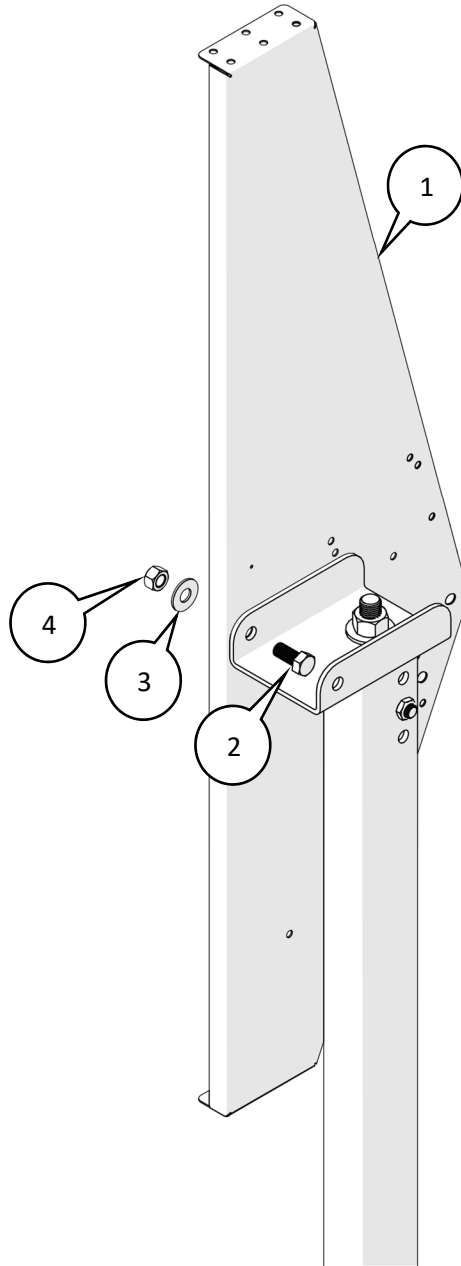
ITEM NO.	DESCRIPTION	QTY
1	1" x 7 1/2" BOLT	1
2	1" NYLOCK JAM NUT	1

PILE ADAPTER
Assembly View



ITEM NO.	DESCRIPTION	QTY
1	PILE ADAPTER	1
2	1 ½" WASHER	1
3	1 ½" NUT	1

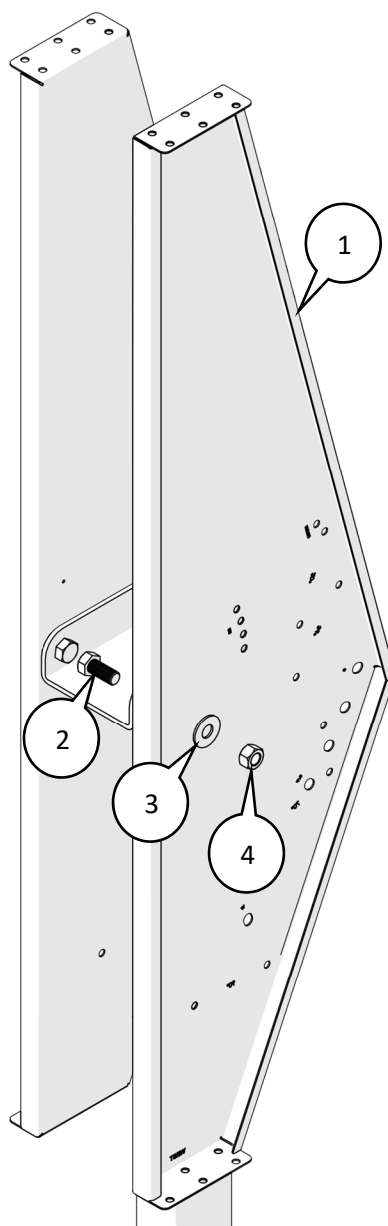
PIVOT PLATE Assembly View



ITEM NO.	DESCRIPTION	QTY
1	PIVOT PLATE WEST	1
2	1" x 2 ¼" BOLT	1
3	1" WASHER	1
4	1" NUT	1

PIVOT PLATE

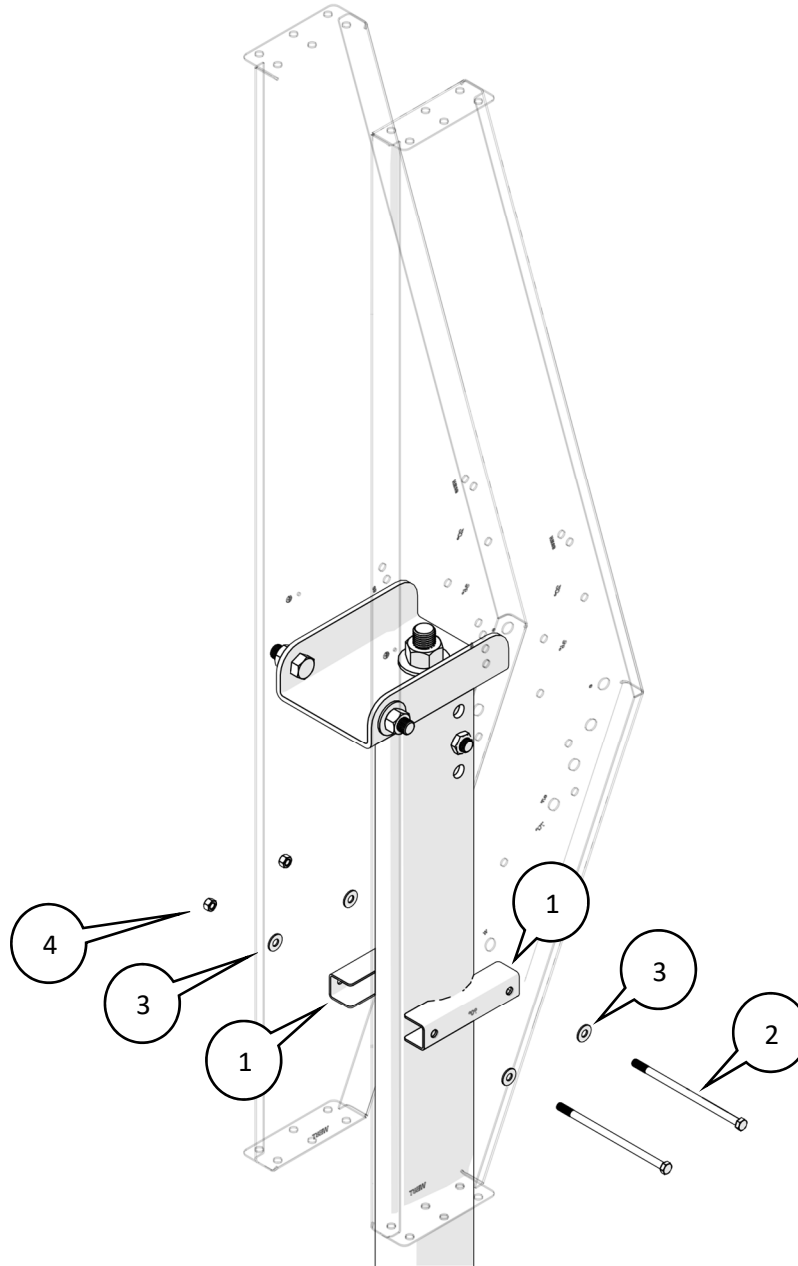
Assembly View



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

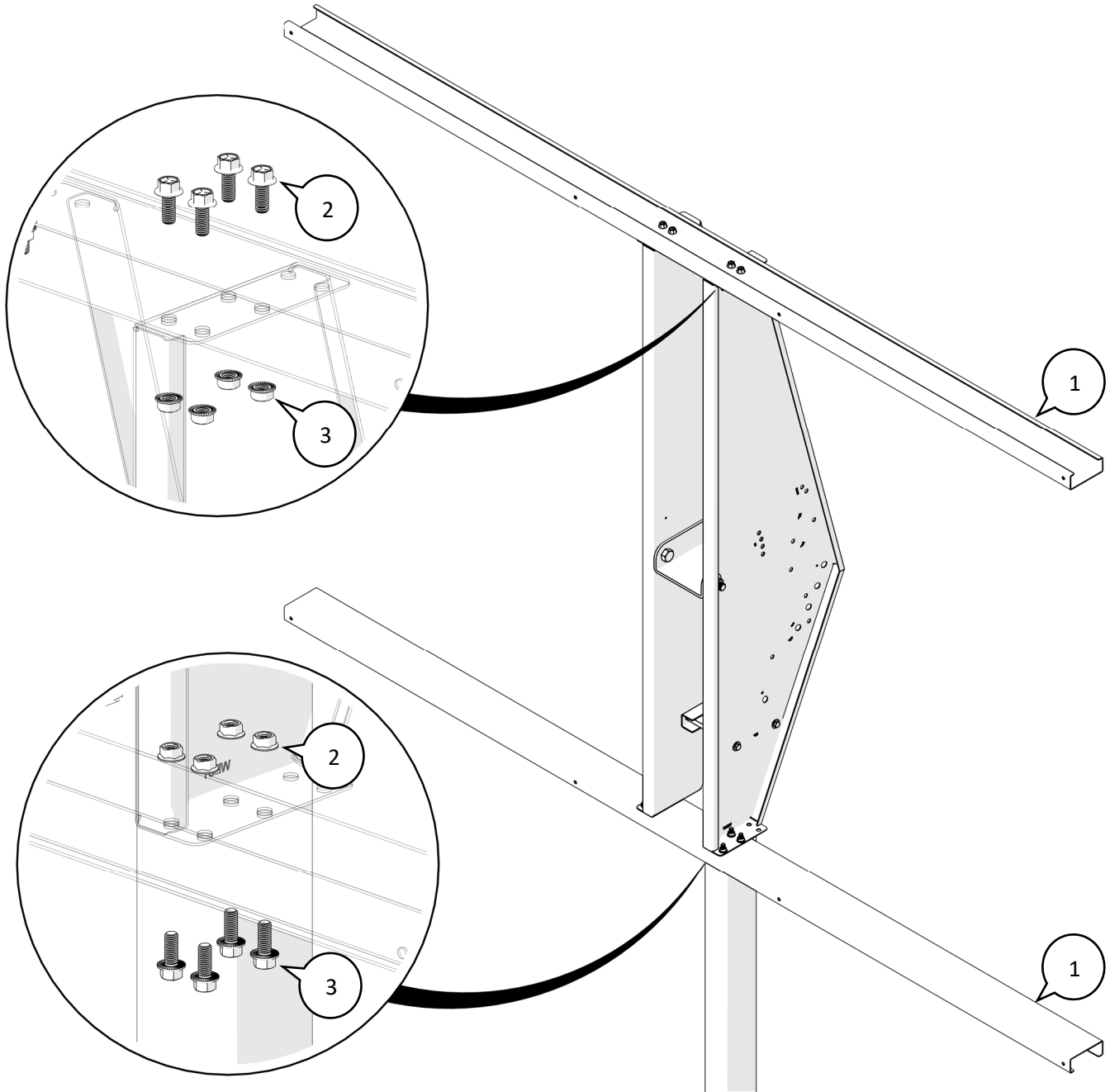
PILE SADDLES

Assembly View



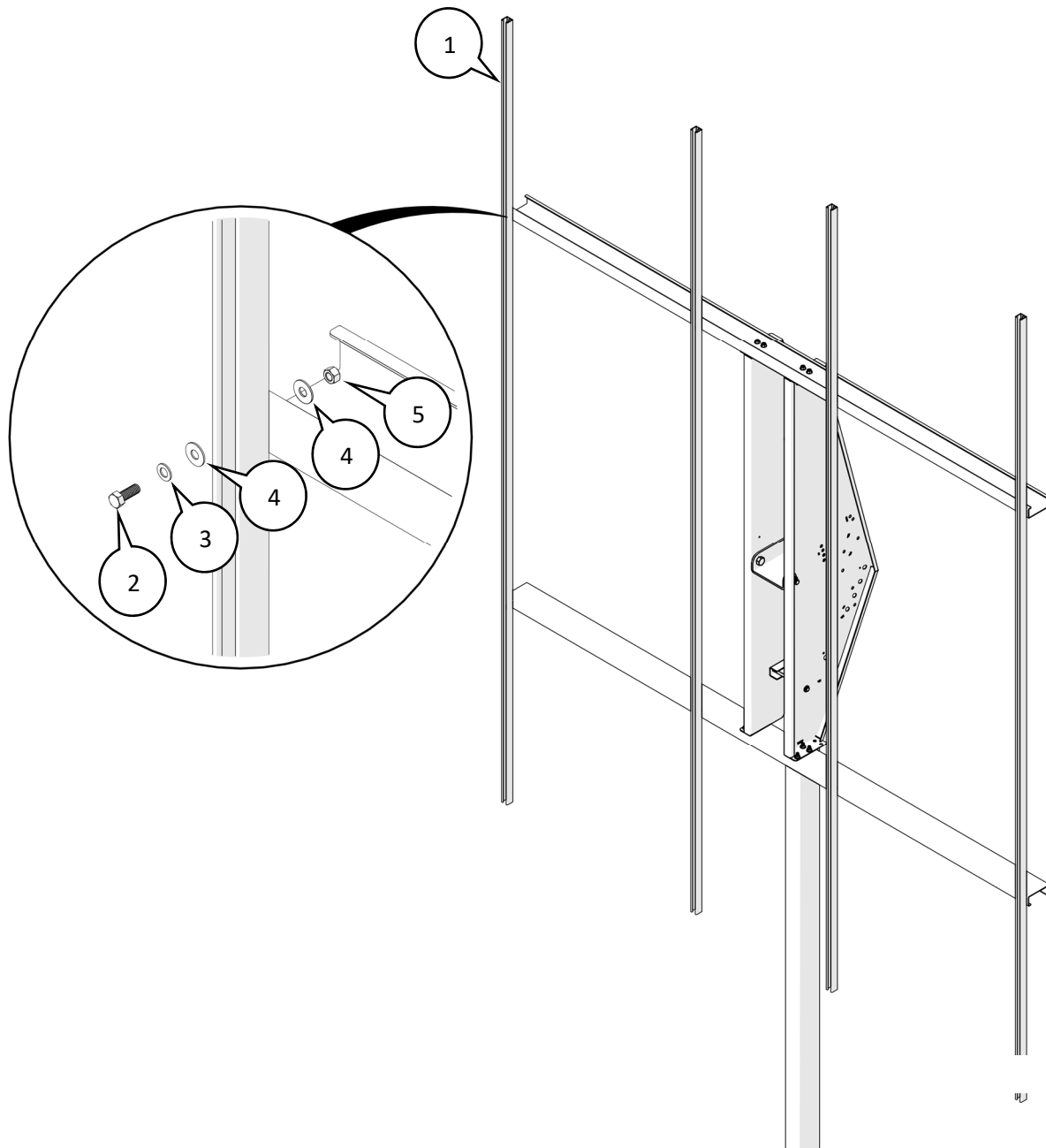
ITEM NO.	DESCRIPTION	QTY
1	PILE SADDLE	2
2	1/2" x 10" BOLT	2
3	1/2" WASHER	4
4	1/2" NUT	2

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

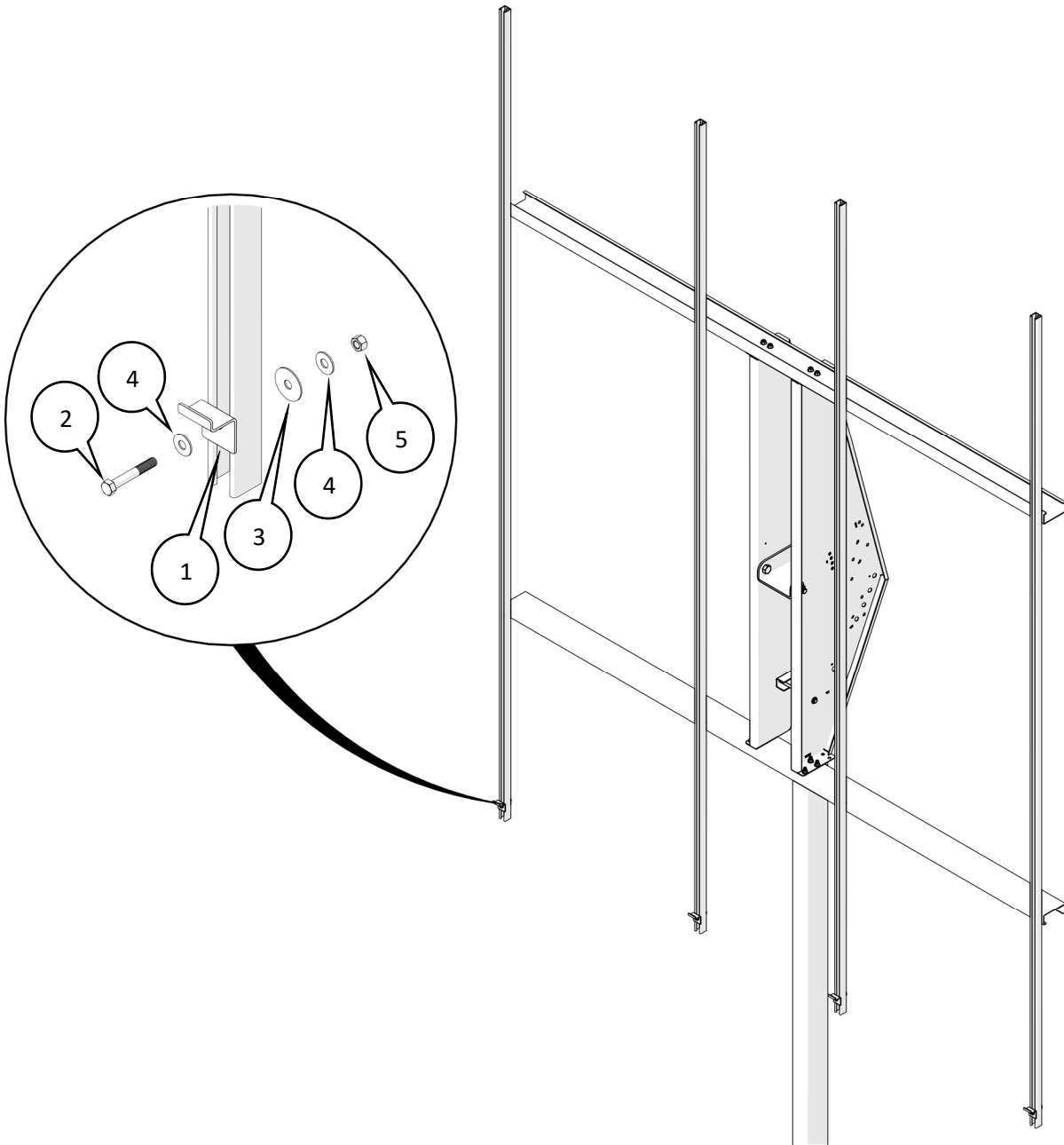
PURLINS Assembly View



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

ITEM NO.	DESCRIPTION	QTY
1	PURLIN	4
2	3/8" x 1" BOLT	8
3	3/8" WASHER (Gr8 YELLOW COLOR)	8
4	3/8" WASHER	18
5	3/8" NYLOCK NUT	8

Z-CLIP Assembly View

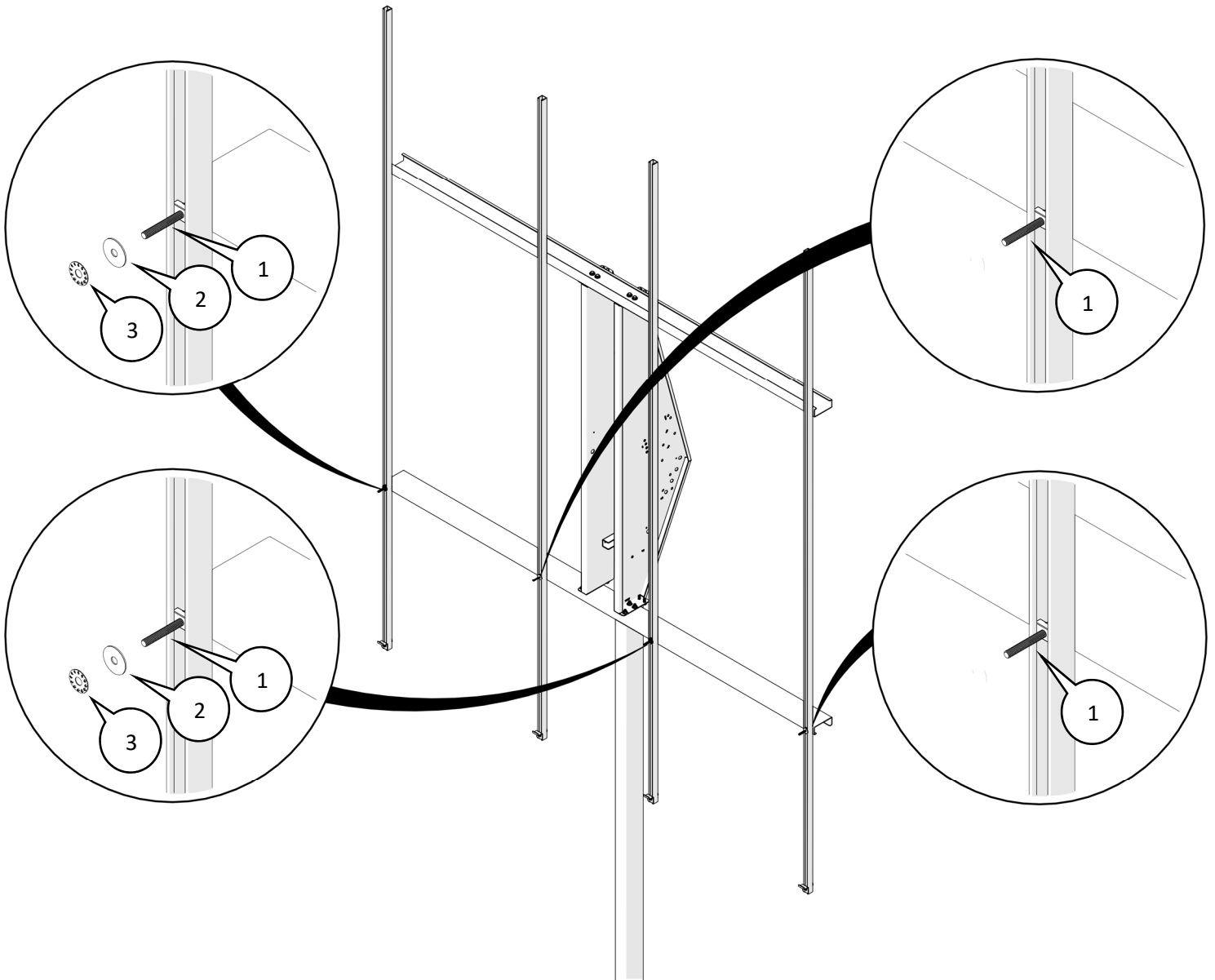


Note: z-clip hardware to be installed in second slot from bottom

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

SOLAR PANELS

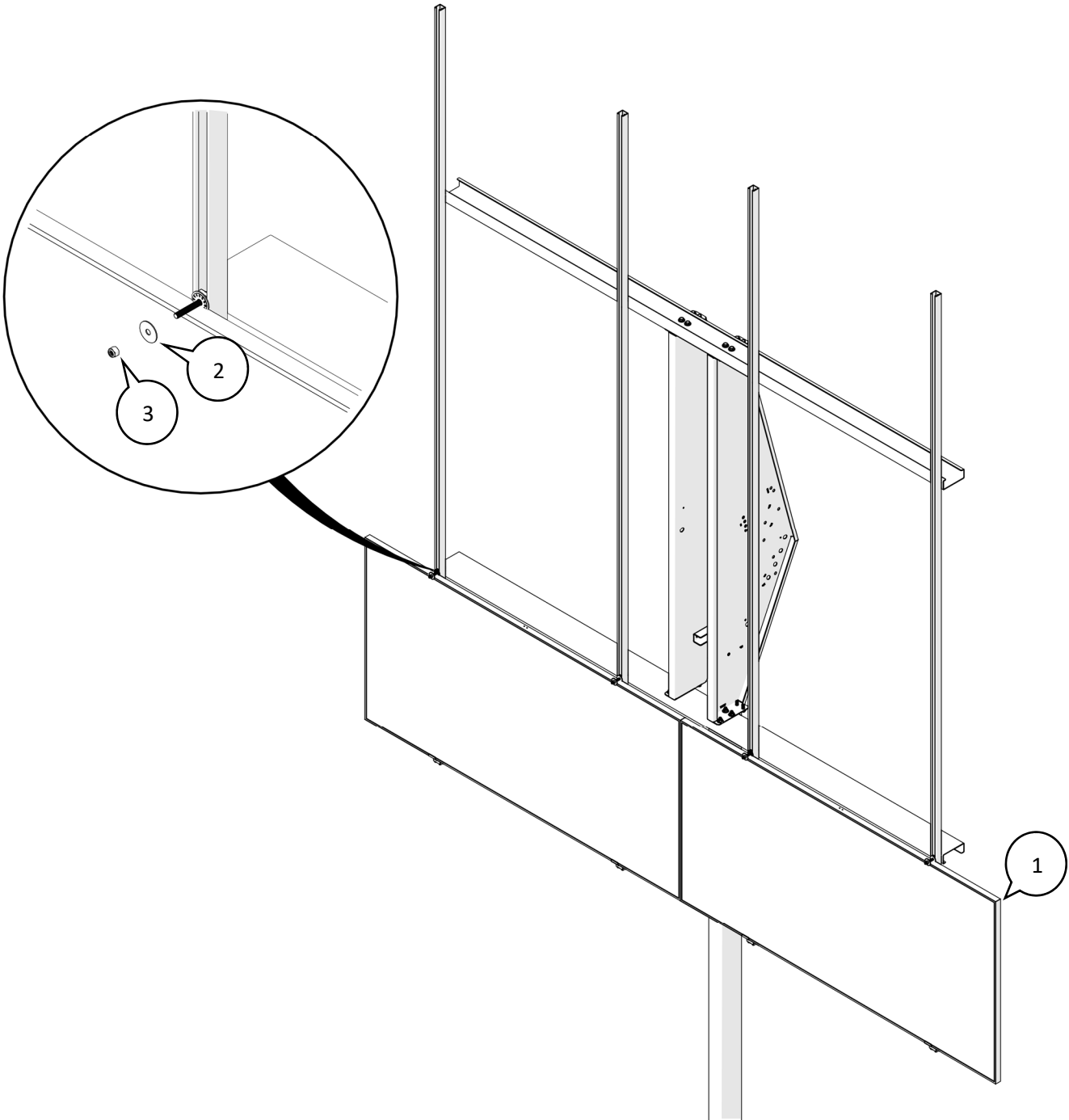
Hardware Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SPRING STUD	4
2	3/8" FENDER WASHER	2
3	3/8" BONDING WASHER	2

SOLAR PANELS

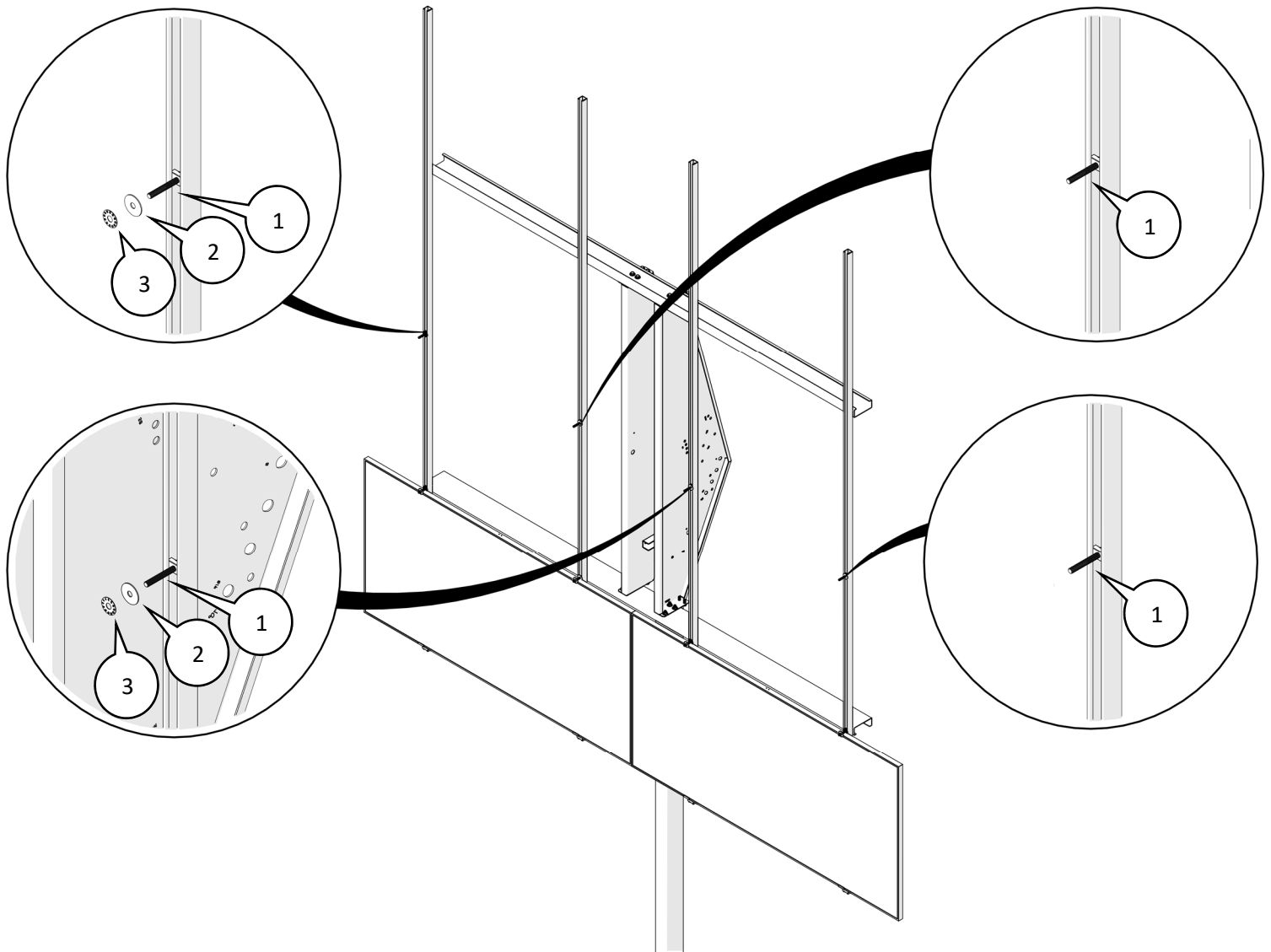
First Row Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SOLAR PANEL	2
2	3/8" FENDER WASHER	4
3	3/8" NYLOCK NUT	4

SOLAR PANELS

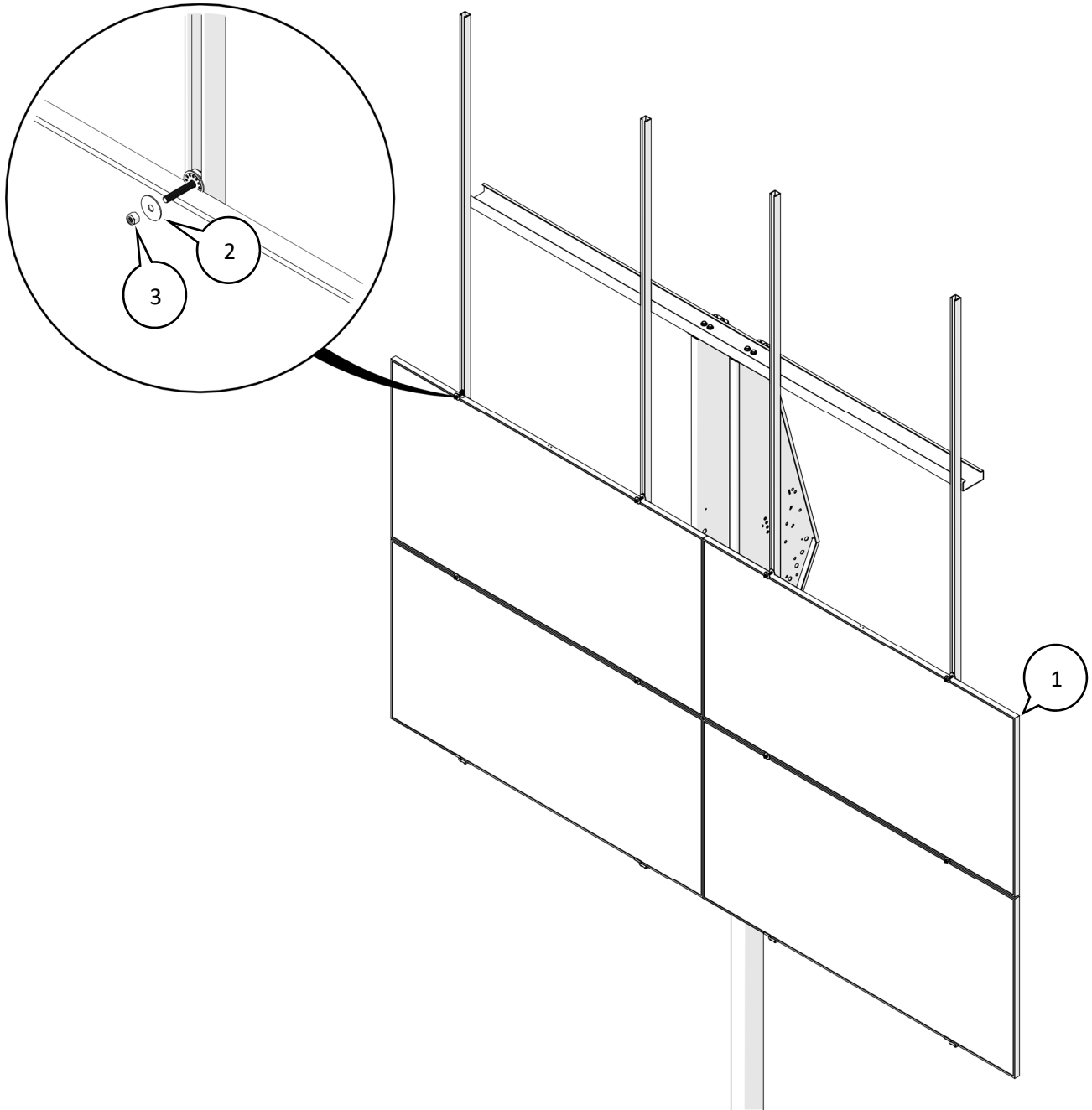
Hardware Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SPRING STUD	4
2	3/8" FENDER WASHER	2
3	3/8" BONDING WASHER	2

SOLAR PANELS

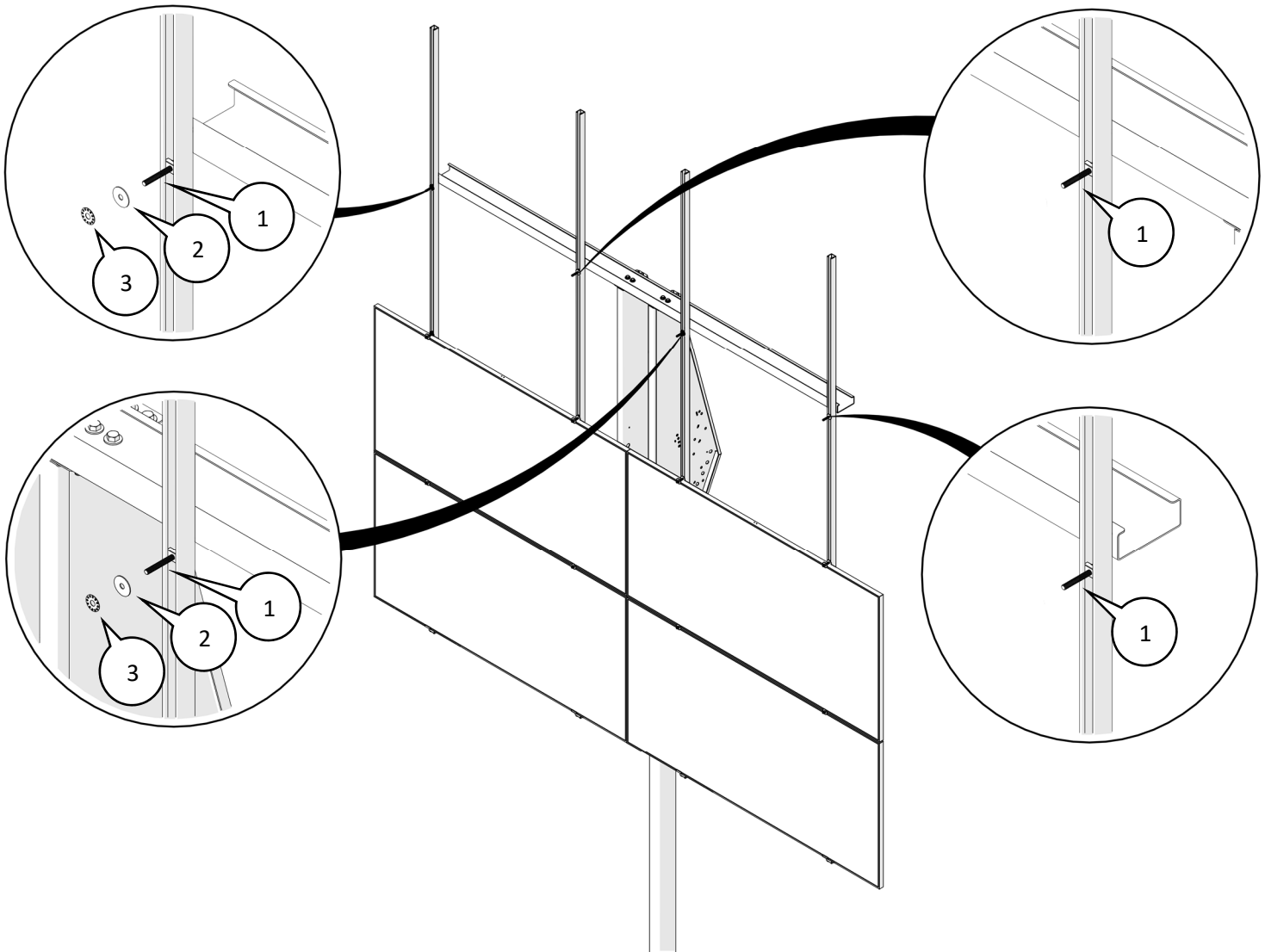
Second Row Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SOLAR PANEL	2
2	3/8" FENDER WASHER	4
3	3/8" NYLOCK NUT	4

SOLAR PANELS

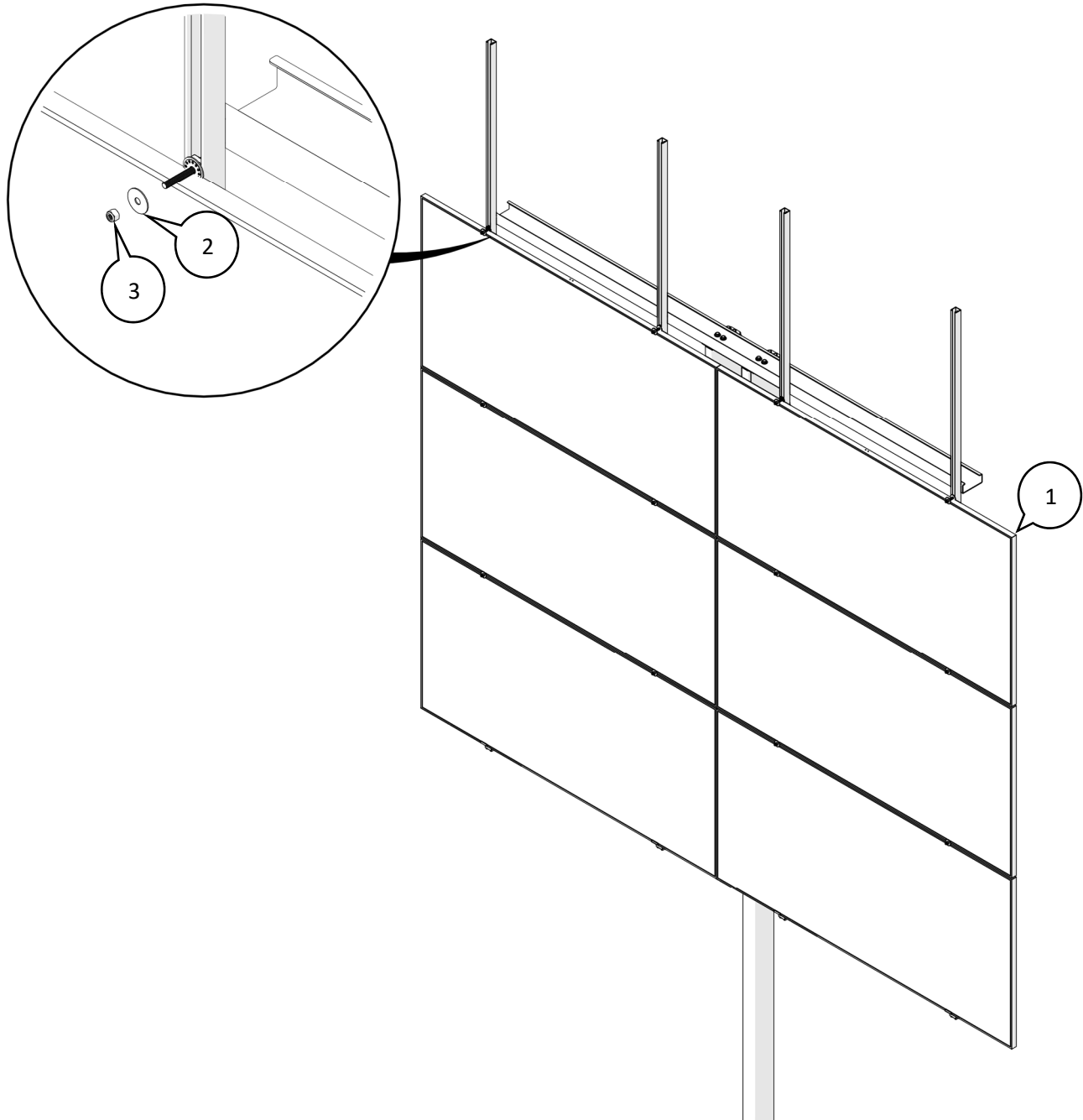
Hardware Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SPRING STUD	4
2	3/8" FENDER WASHER	2
3	3/8" BONDING WASHER	2

SOLAR PANELS

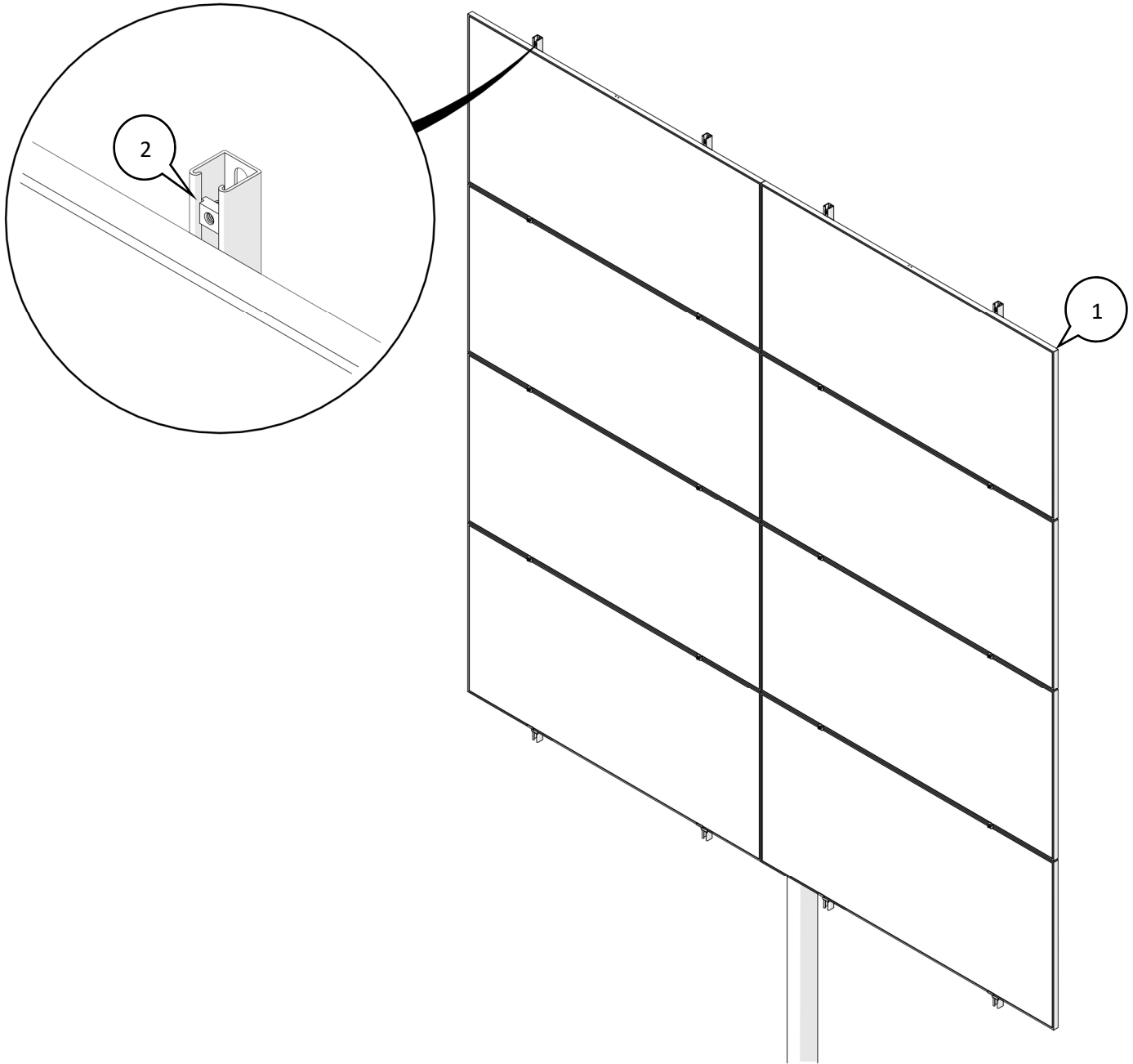
Third Row Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SOLAR PANEL	2
2	3/8" FENDER WASHER	4
3	3/8" NYLOCK NUT	4

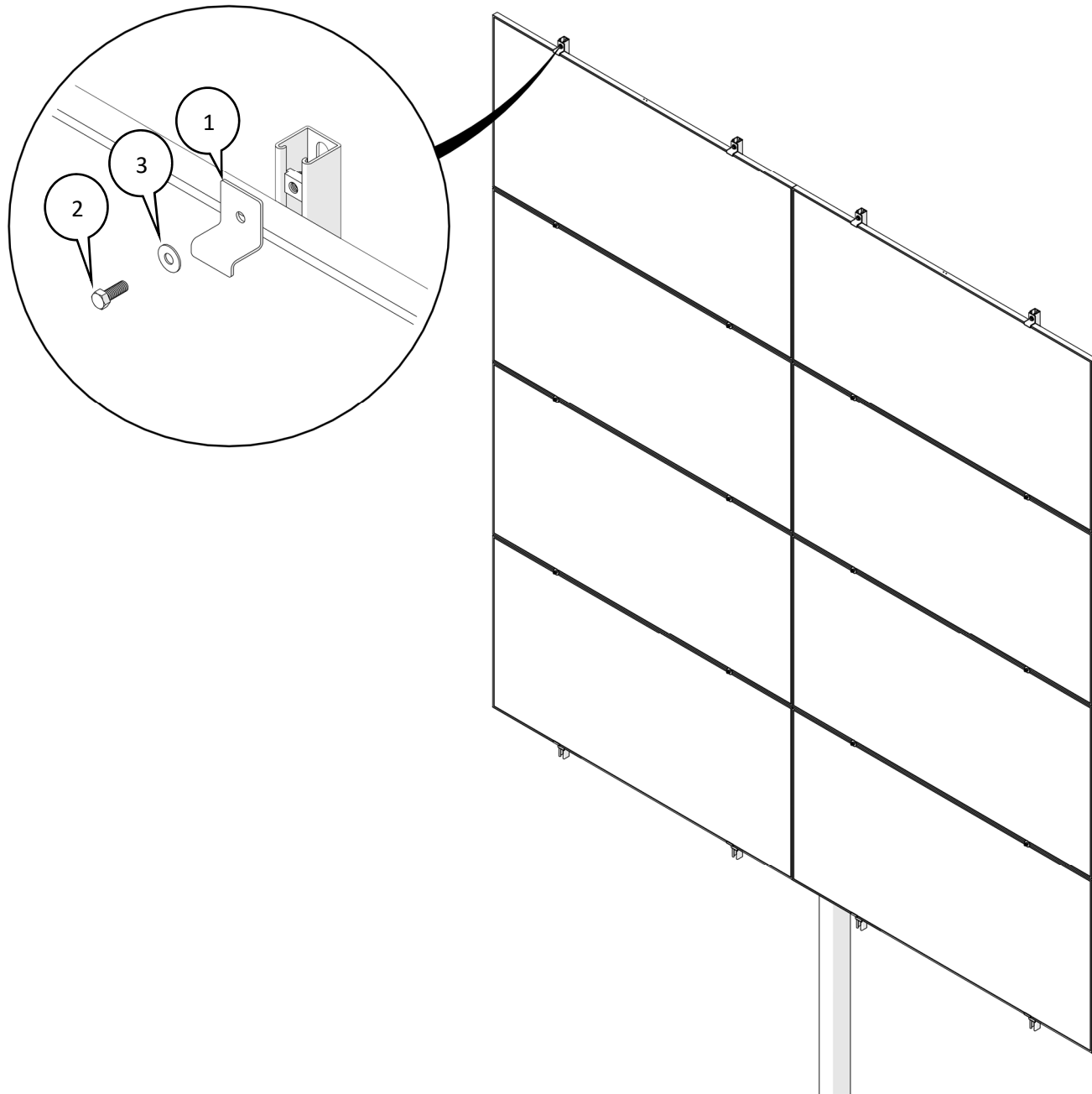
SOLAR PANELS

Fourth Row Assembly View



ITEM NO.	DESCRIPTION	QTY
1	SOLAR PANEL	2
2	3/8" SPRING NUT	4

Z-CLIP Assembly View



ITEM NO.	DESCRIPTION	QTY
1	Z-CLIP	4
3	3/8" x 1" BOLT	4
4	3/8" WASHER	4

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Assembled View

