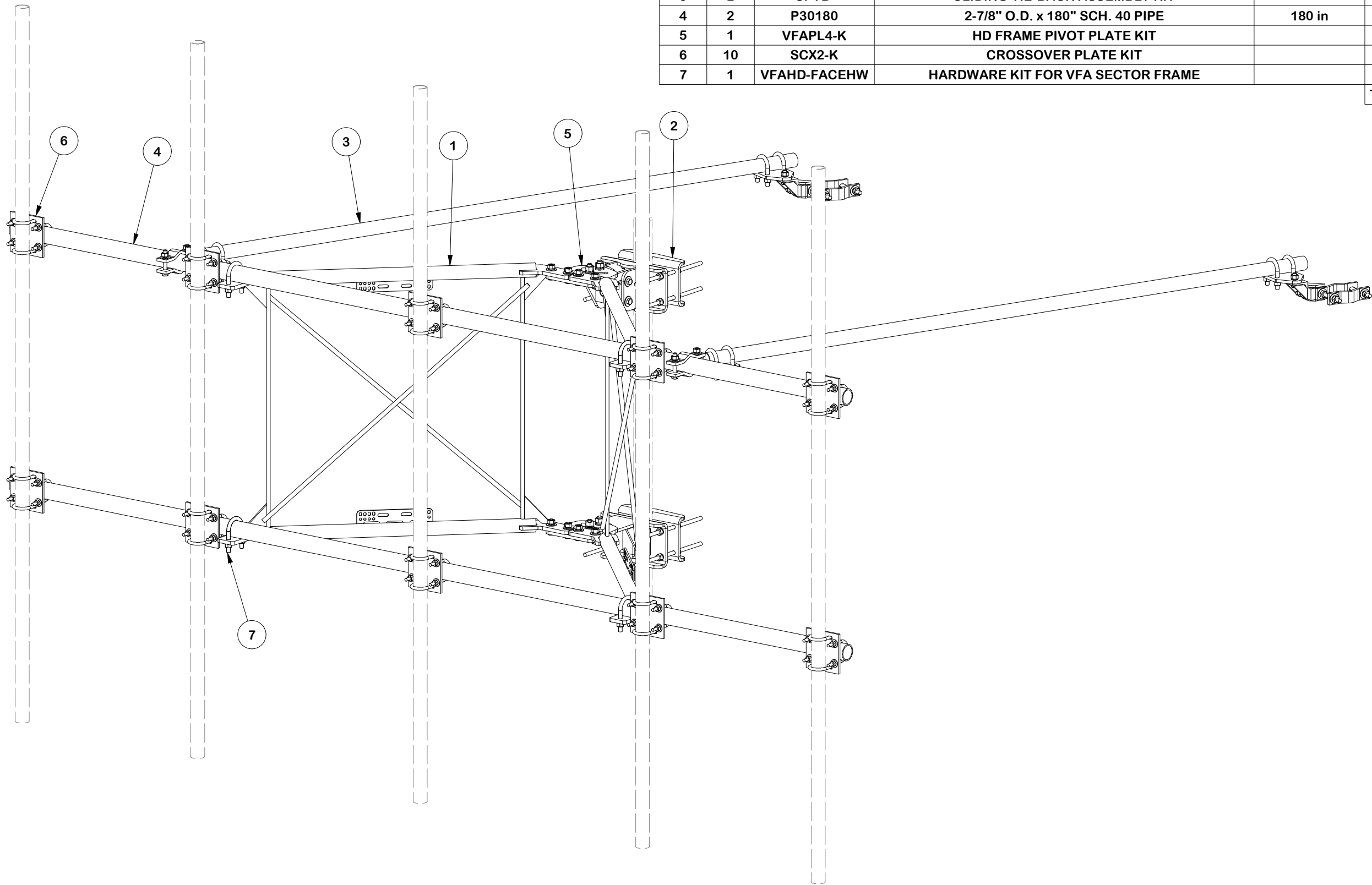




PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VXDW45	XTREME DUTY 45" VERTICAL SUPPORT ARM		100.07	200.13
2	1	BCAM-HD	HEAVY DUTY BOLT CALIBRATED ANGLE MAINSTAY		147.01	147.01
3	2	SPTB	SLIDING TIE-BACK ASSEMBLY KIT		91.18	182.36
4	2	P30180	2-7/8" O.D. x 180" SCH. 40 PIPE	180 in	87.10	174.20
5	1	VFAPL4-K	HD FRAME PIVOT PLATE KIT		39.25	39.25
6	10	SCX2-K	CROSSOVER PLATE KIT		8.84	88.42
7	1	VFAHD-FACEHW	HARDWARE KIT FOR VFA SECTOR FRAME		17.93	17.93
TOTAL WT. #					849.30	

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

PROPRIETARY NOTE:
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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO.		DRAWN BY		ENG. APPROVAL	
SP1		KS 10/3/2024		6/10/2025	
CLASS	SUB	DRAWING USAGE		CHECKED BY	
87	02	CUSTOMER		CSL 6/10/2025	

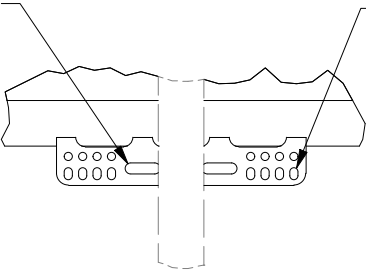


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Support Team:
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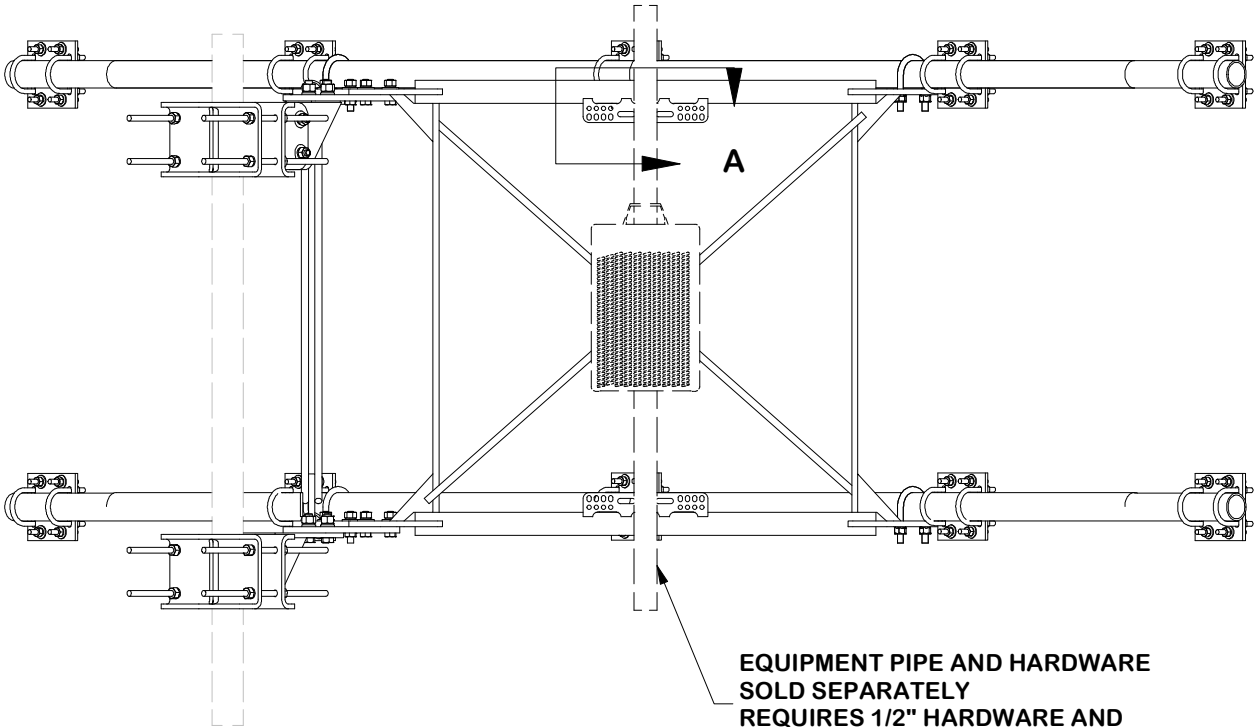
PART NO.	VFA14-XD-5P
DWG. NO.	VFA14-XD-5P

9/16" SLOTTED HOLE FOR
EQUIPMENT PIPE HARDWARE

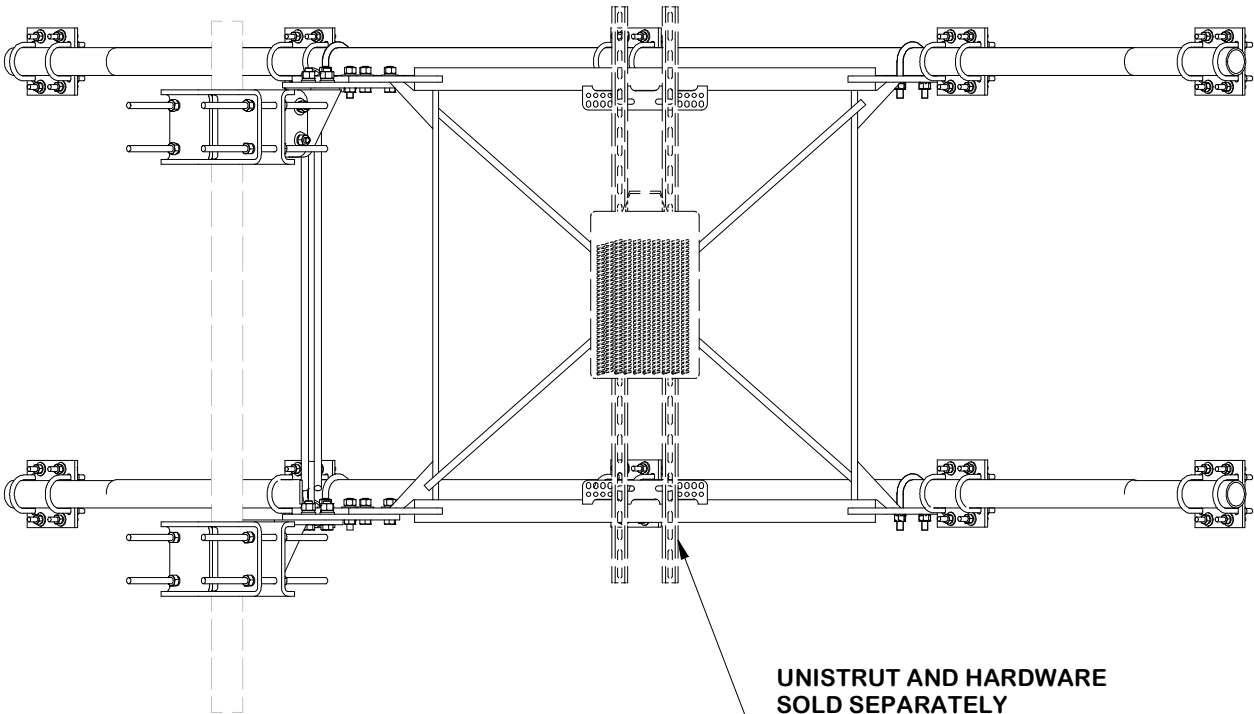
7/16" LUG HOLES
REVIEW CARRIER STANDARDS FOR
PROPER SURFACE PREPARATION AND
ASSEMBLY OF ELECTRICAL CONNECTIONS



DETAIL A



EQUIPMENT PIPE AND HARDWARE
SOLD SEPARATELY
REQUIRES 1/2" HARDWARE AND
2-3/8" TO 4-1/2" O.D. PIPE



UNISTRUT AND HARDWARE
SOLD SEPARATELY
REQUIRES 3/8" HARDWARE

TOLERANCE NOTES

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BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024		ENG. APPROVAL 6/10/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/10/2025	

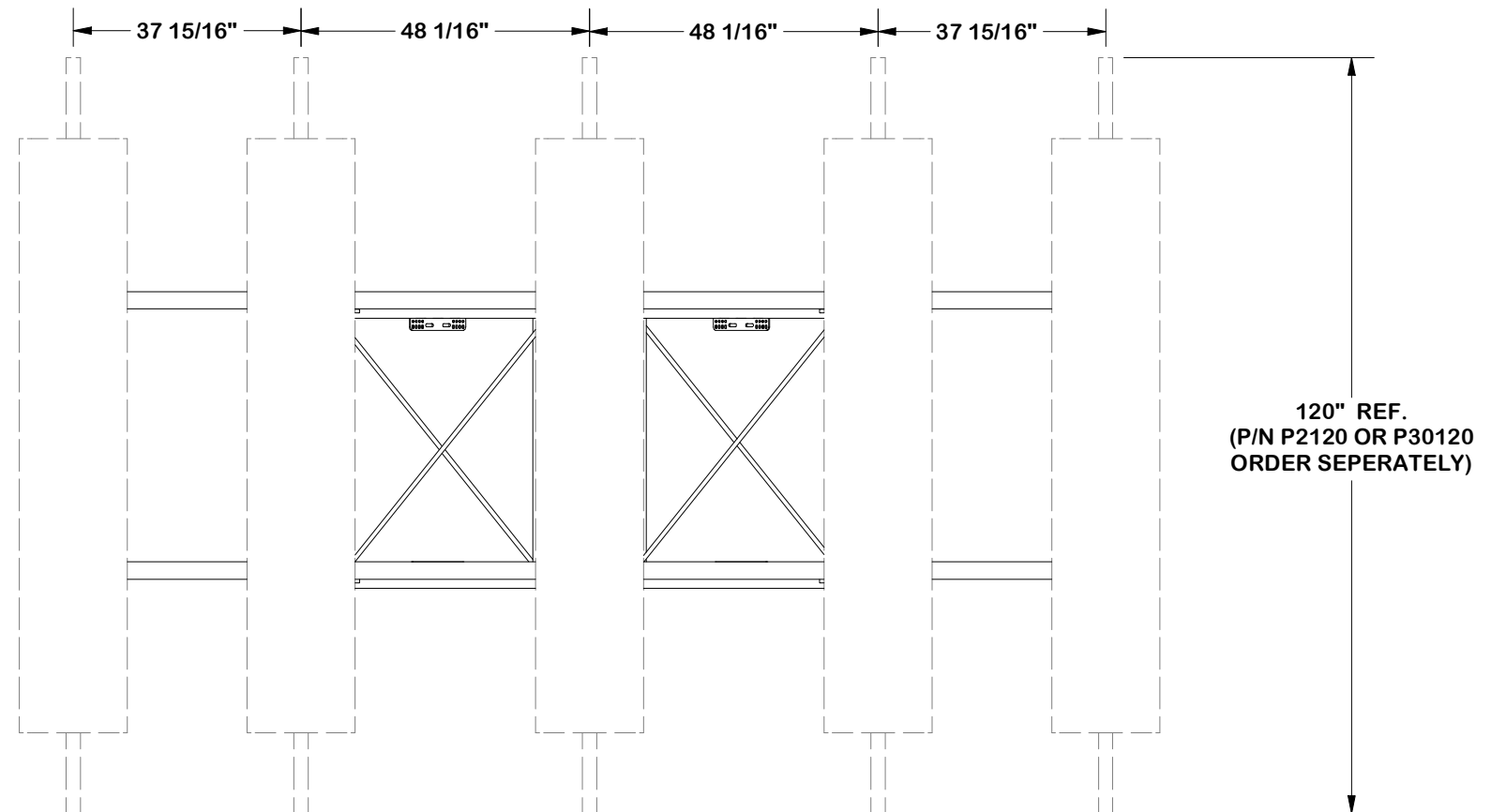
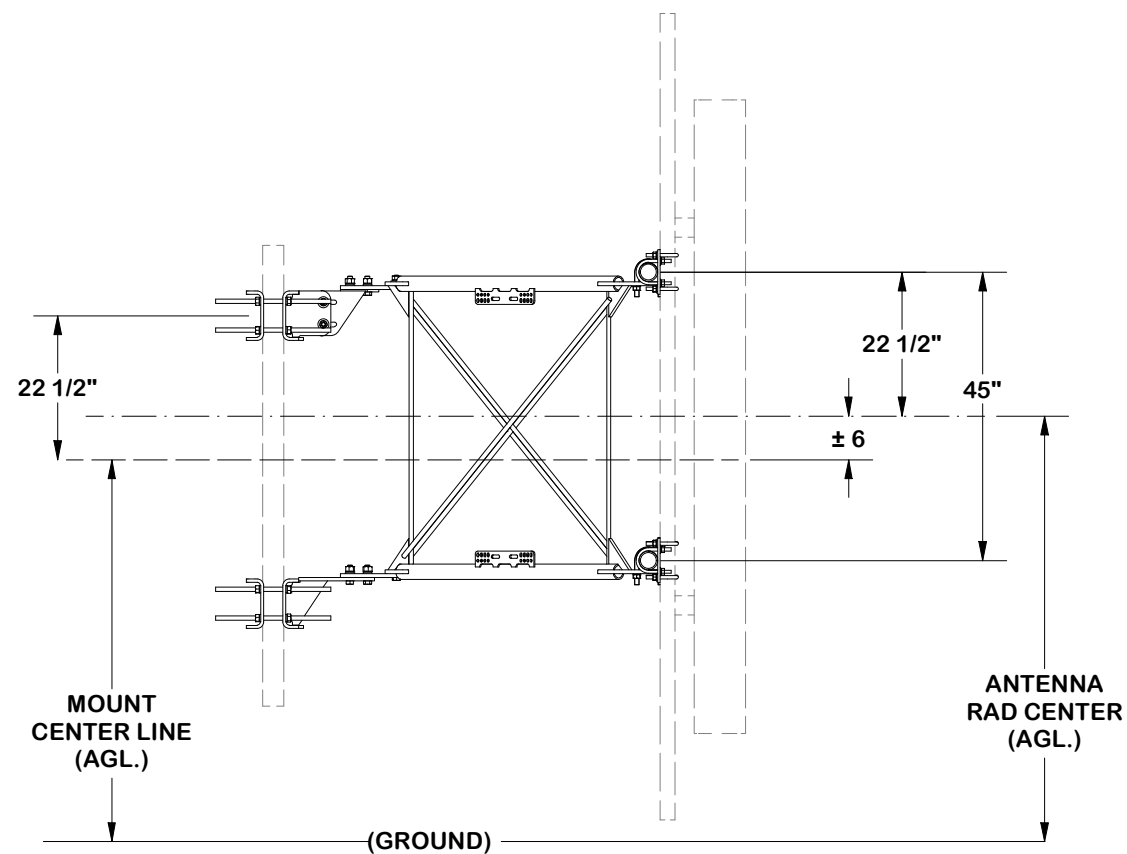
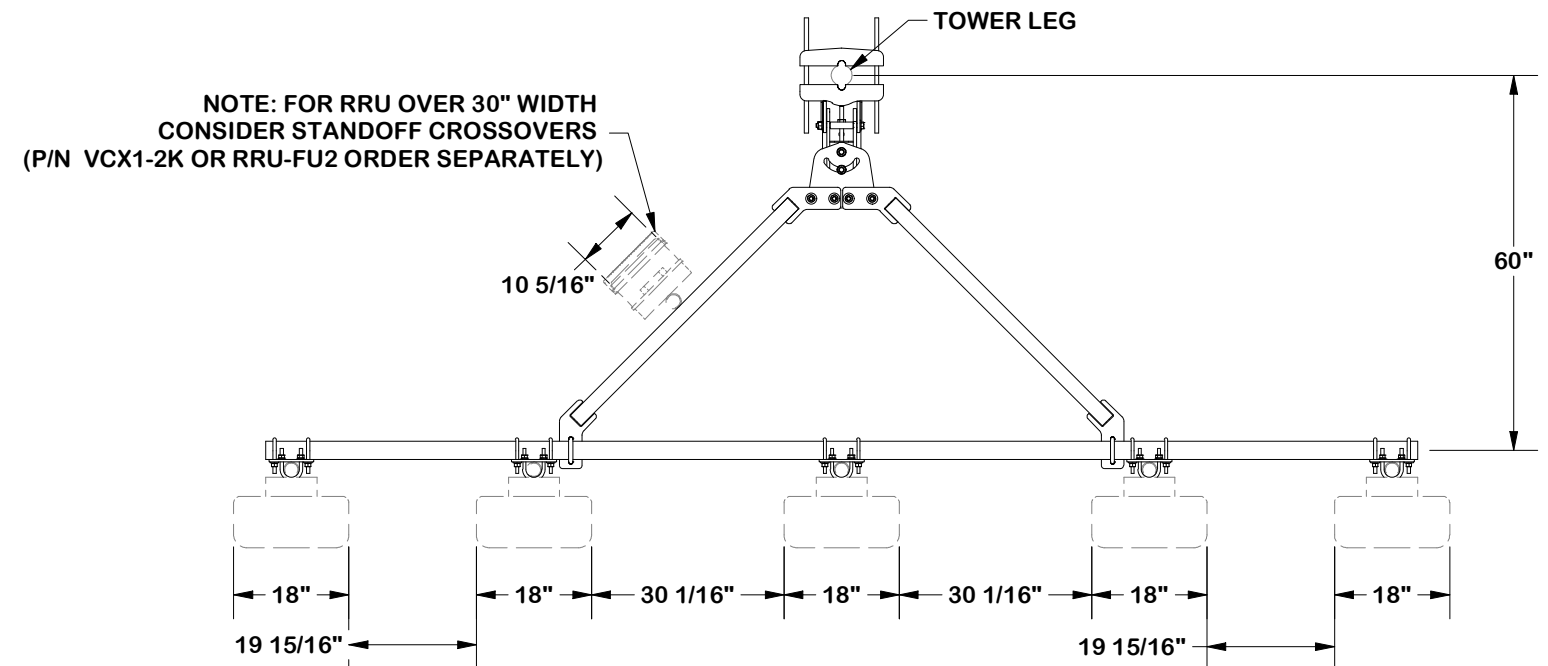


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PART NO.	VFA14-XD-5P
DWG. NO.	VFA14-XD-5P

5 ANTENNA SECTOR FRAME LAYOUT



[ATT-790-202-083 MACRO BUILD COMPLIANT]

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
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 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

PROPRIETARY NOTE:
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DESCRIPTION

**14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF**

CPD NO.

SP1

DRAWN BY

KS	10/3/2024
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	DRAWING USAGE
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CUSTOMER

ENG. APPROVAL

6/10/2025

	CHECKED BY
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6/10/2025

	PART NO.
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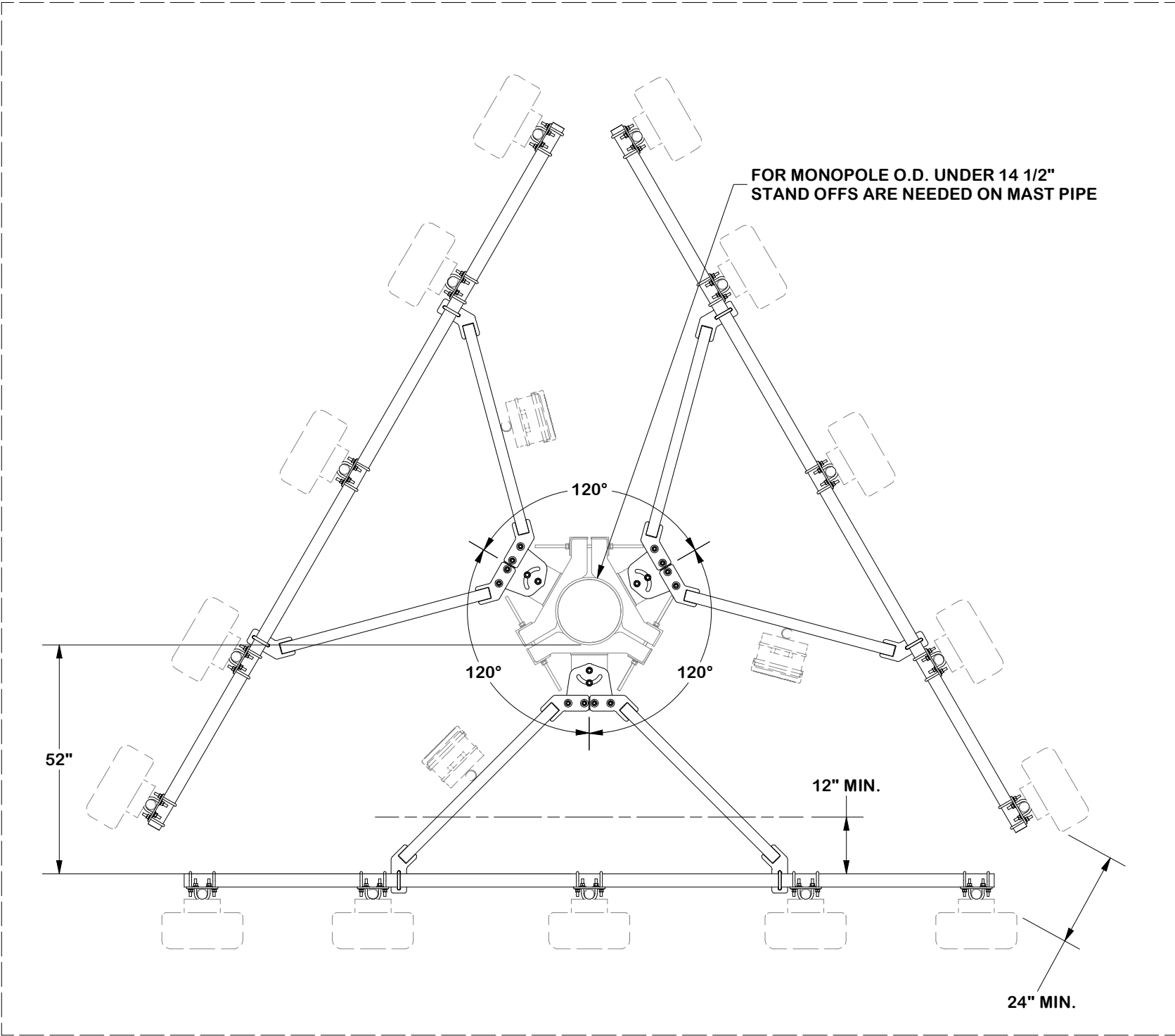
VFA14-XD-5P

DWG. NO.	
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VFA14-XD-5P

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Support Team:
sp1engineering@valmont.com**



NOTE: TIE-BACKS OMITTED FOR CLARITY

[ATT-790-202-083 MACRO BUILD COMPLIANT]

TOLERANCE NOTES

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DESCRIPTION

**14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF**

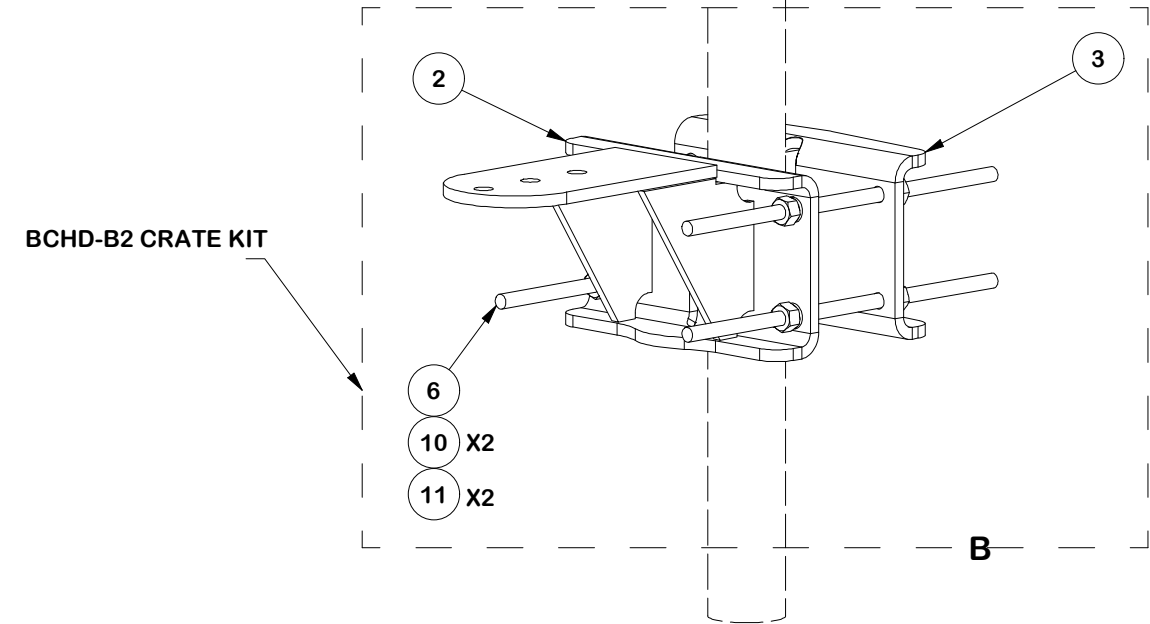
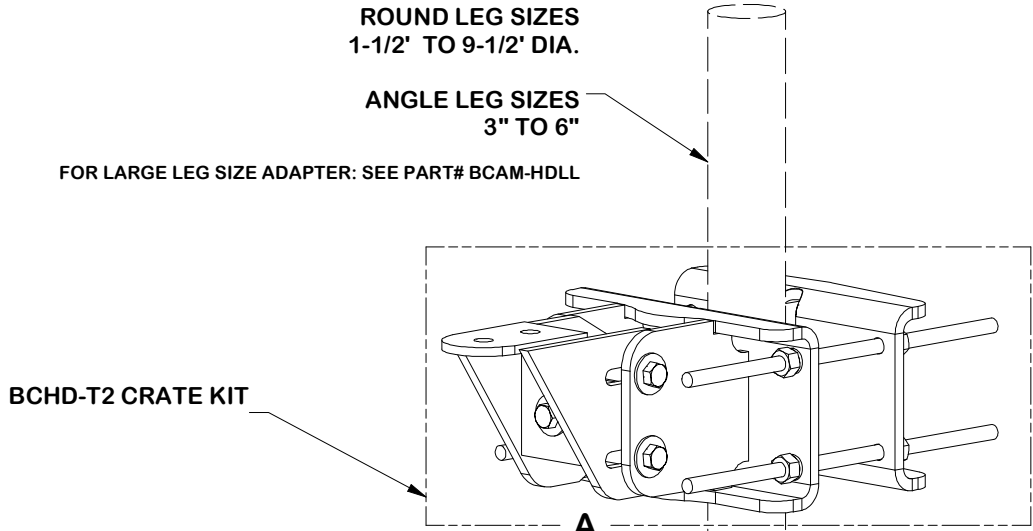
CPD NO. SP1		DRAWN BY KS 10/3/2024	ENG. APPROVAL 6/10/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/10/2025



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sp1engineering@valmont.com

PART NO. CORNER LAYOUT	PAGE 4 OF 16
DWG. NO. VFA14-XD-5P	



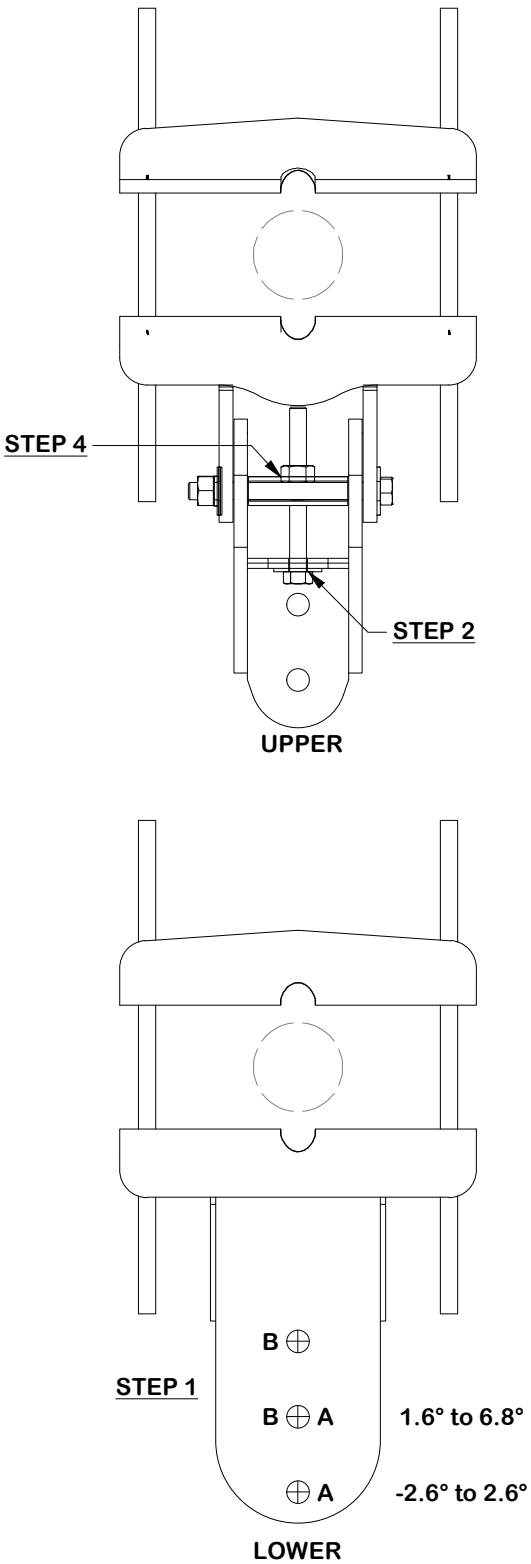
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
2	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
3	2	X-LCBP4	BENT BACKING PLATE	13 in	20.04	40.09
4	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
5	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
6	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)		1.57	12.54
7	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
8	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
9	5	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.35
10	18	G58LW	5/8" HDG LOCKWASHER		0.03	0.47
11	19	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	2.47
					TOTAL WT. #	147.02

** FOR DETAIL SEE PAGE 2**

					TOLERANCE NOTES			DESCRIPTION			SITE PRO 1		Engineering Support Team: sp1engineering@valmont.com	
					TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$) DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES BENDS AND ANGLES ARE $\pm 1/2$ DEGREE ALL OTHER MACHINING ($\pm 0.030"$) ALL OTHER ASSEMBLY ($\pm 0.060"$)			14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS & 5' STAND-OFF			A valmont COMPANY			
A	REPLACED C CHANNEL BRKT WITH FORMED PLATE BRKT	SP1	KS	4/24/2018	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CPD NO. SP1	DRAWN BY KS	10/3/2024	ENG. APPROVAL 6/10/2025		PART NO. BCAM-HD	5 OF 16 PAGE
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.			CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL		6/10/2025	
REVISION HISTORY													DWG. NO. VFA14-XD-5P	

ANGLE CALIBRATING PROCEDURE:

1. MEASURE TOWER TAPER
AND PICK LOWER BRACKET
HOLE:
 - HOLE A = -2.6° TO 2.6°
 - HOLE B = 1.6° TO 6.8°
2. USE CALIBRATING BOLT
TO ADJUST FRAME TO
DESIRED TAPER
3. TORQUE LOCKING BOLTS
TO 100 ft.-lbs.
4. ADVANCE LOCKING NUT
TO POSITIONING PLATE,
THEN TIGHTEN.



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO.
SP1

DRAWN BY
KS 10/3/2024

ENG. APPROVAL
6/10/2025

CLASS
87

SUB
02

DRAWING USAGE
CUSTOMER

CHECKED BY
CSL 6/10/2025



Engineering
Support Team:
sp1engineering@valmont.com

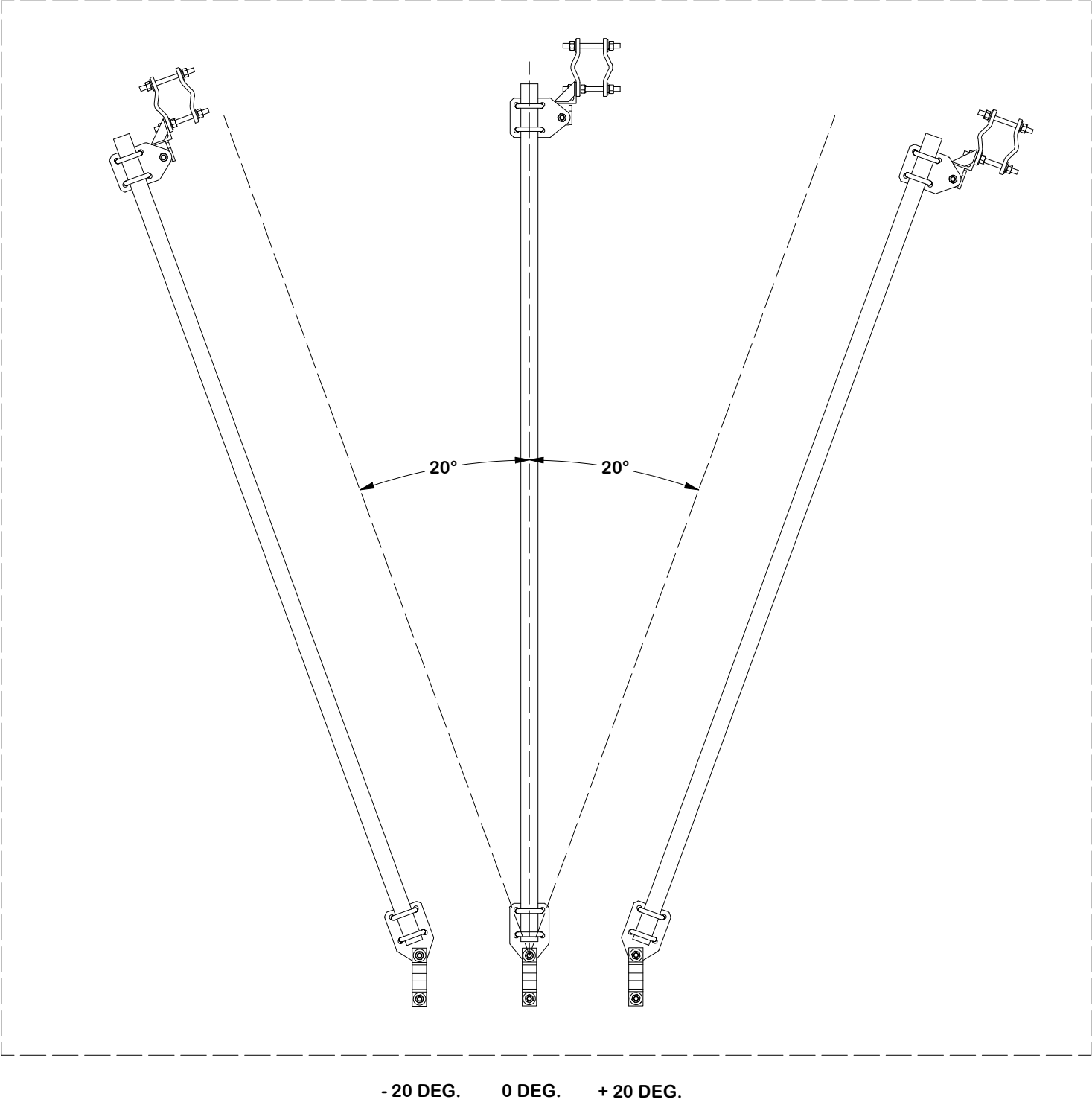
PART NO.

BCAM-HD

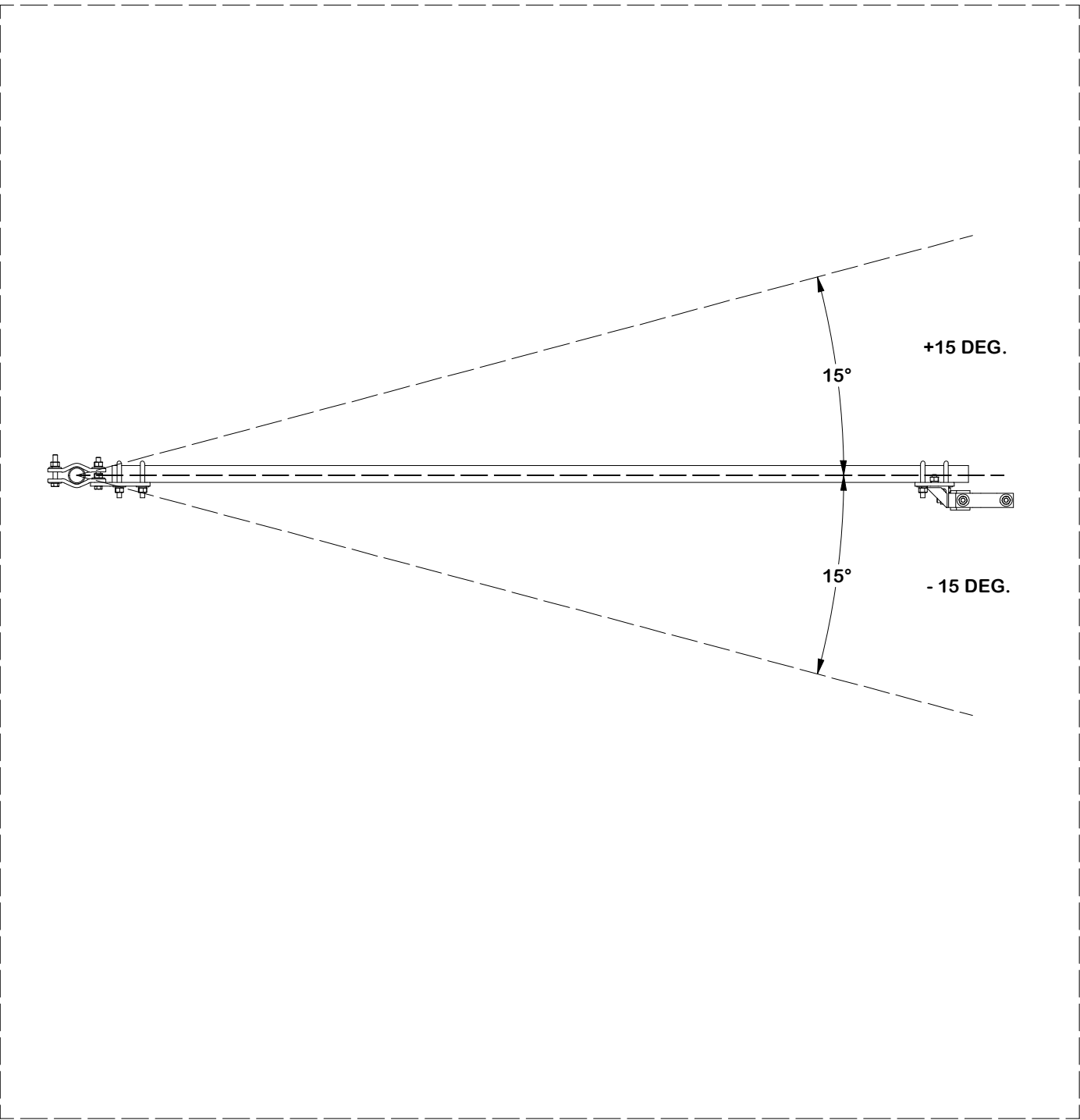
DWG. NO.

VFA14-XD-5P

RECOMMENDED HORIZONTAL ADJUSTMENT



RECOMMENDED VERTICAL ADJUSTMENT



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024		ENG. APPROVAL 6/10/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/10/2025	

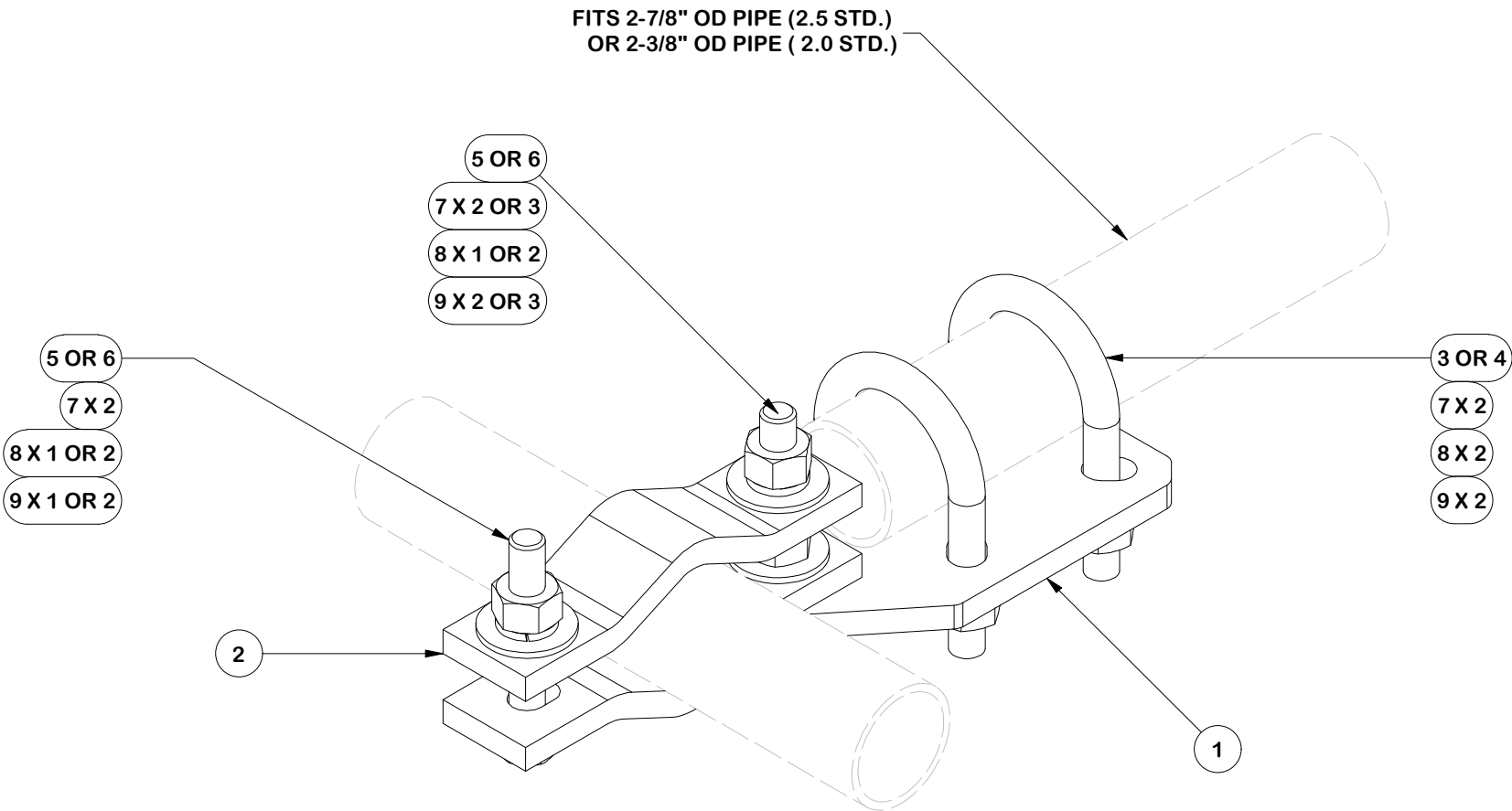


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PART NO. SPTB	9 OF 16 PAGE
DWG. NO. VFA14-XD-5P	

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SPTB-U	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.58	5.58
2	2	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	4.72
3	2	X-UB5258	5/8 X 2-5/8" X 4-1/2" X 2" U-BOLT	4 1/2 in	1.06	2.12
4	2	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT	5 1/4 in	1.22	2.43
5	2	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	1.39
6	2	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	0.89
7	9	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.63
8	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
9	9	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.17
					TOTAL WT. #	19.15



TOLERANCE NOTES

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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024	ENG. APPROVAL 6/10/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/10/2025

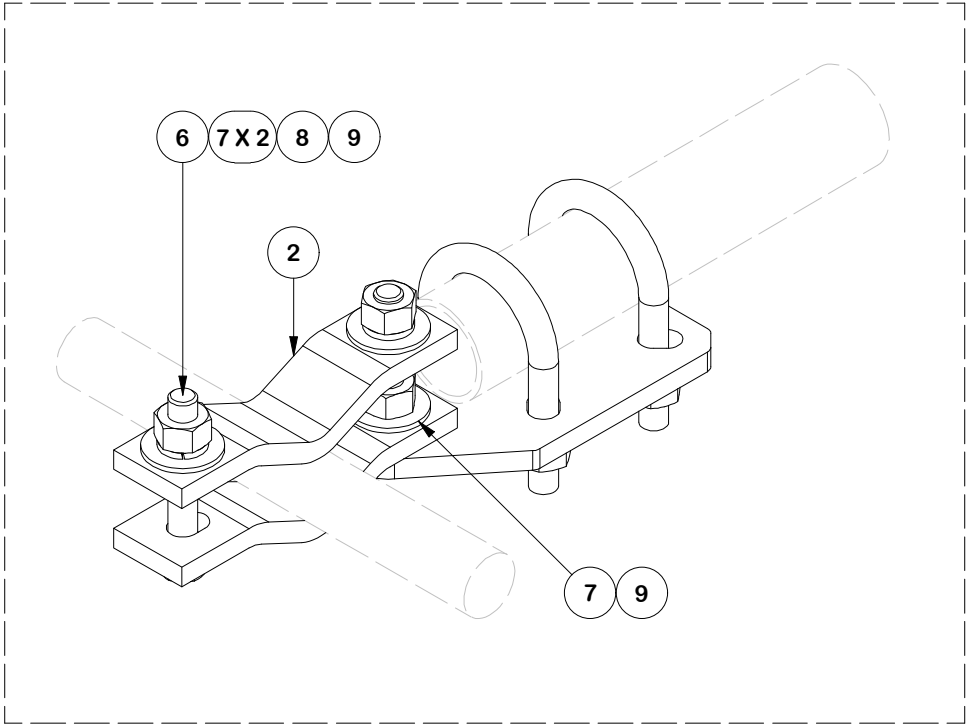


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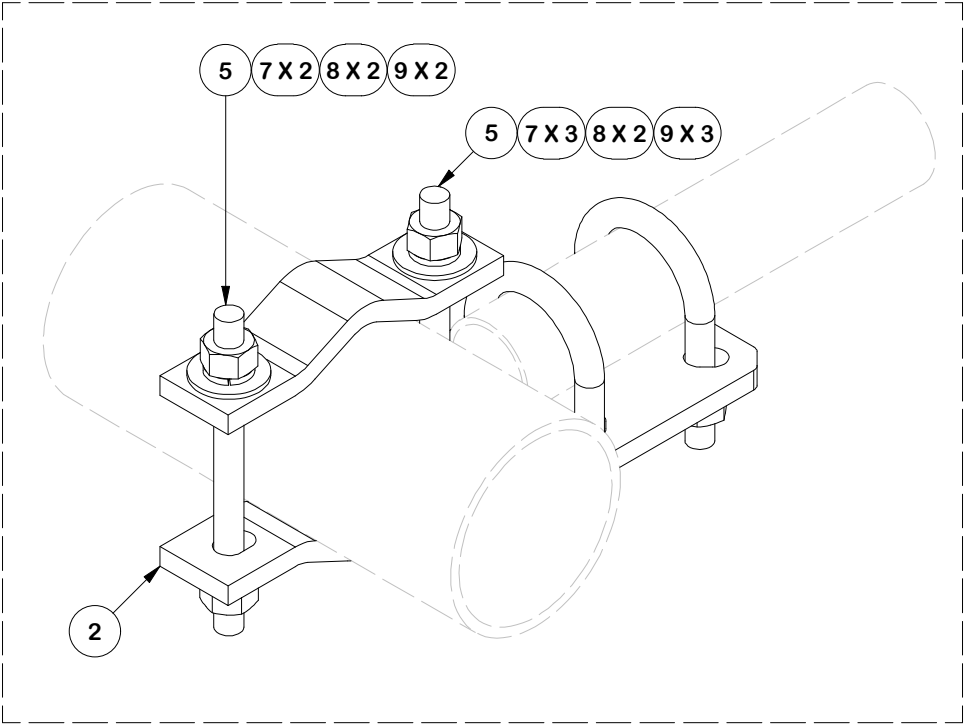
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PART NO. SPTB-U-F	10 OF 16 PAGE
DWG. NO. VFA14-XD-5P	

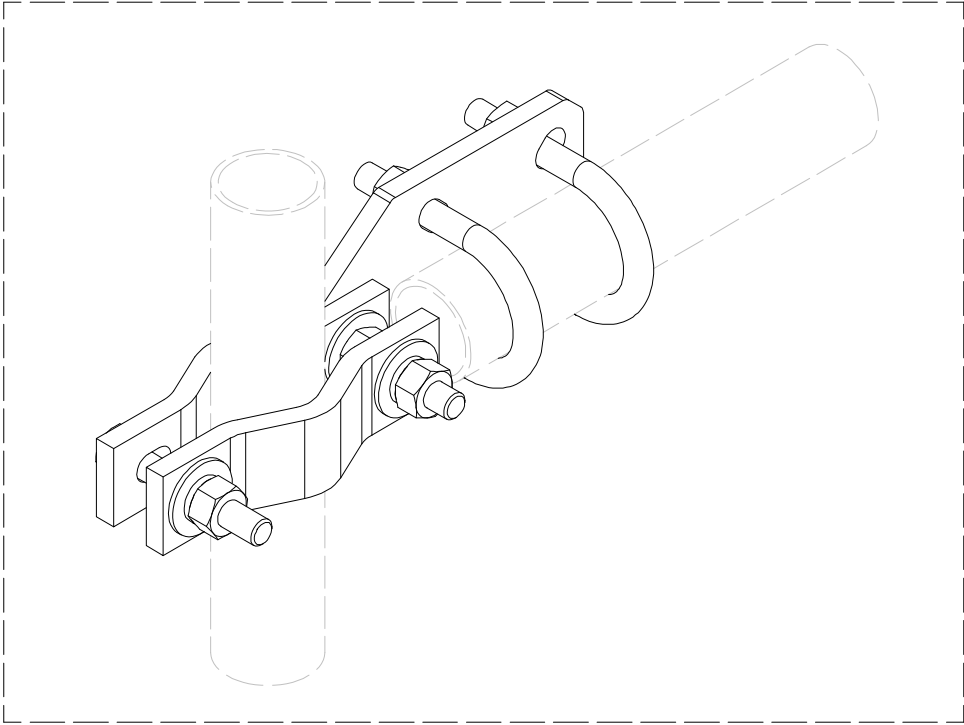
FRONT FACE CONFIGURATIONS



SMALL ATTACHMENT 1-1/2" TO 2-3/8"
NOTE: FLIP HALF BACK CLAMP



ATTACHMENT 2-3/8" TO 5"
HORIZONTAL ORIENTATION



ATTACHMENT 2-3/8" TO 5"
VERTICAL ORIENTATION

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO.
SP1

DRAWN BY
KS 10/3/2024

ENG. APPROVAL
6/10/2025

CLASS
87

SUB
02

DRAWING USAGE
CUSTOMER

CHECKED BY
CSL 6/10/2025



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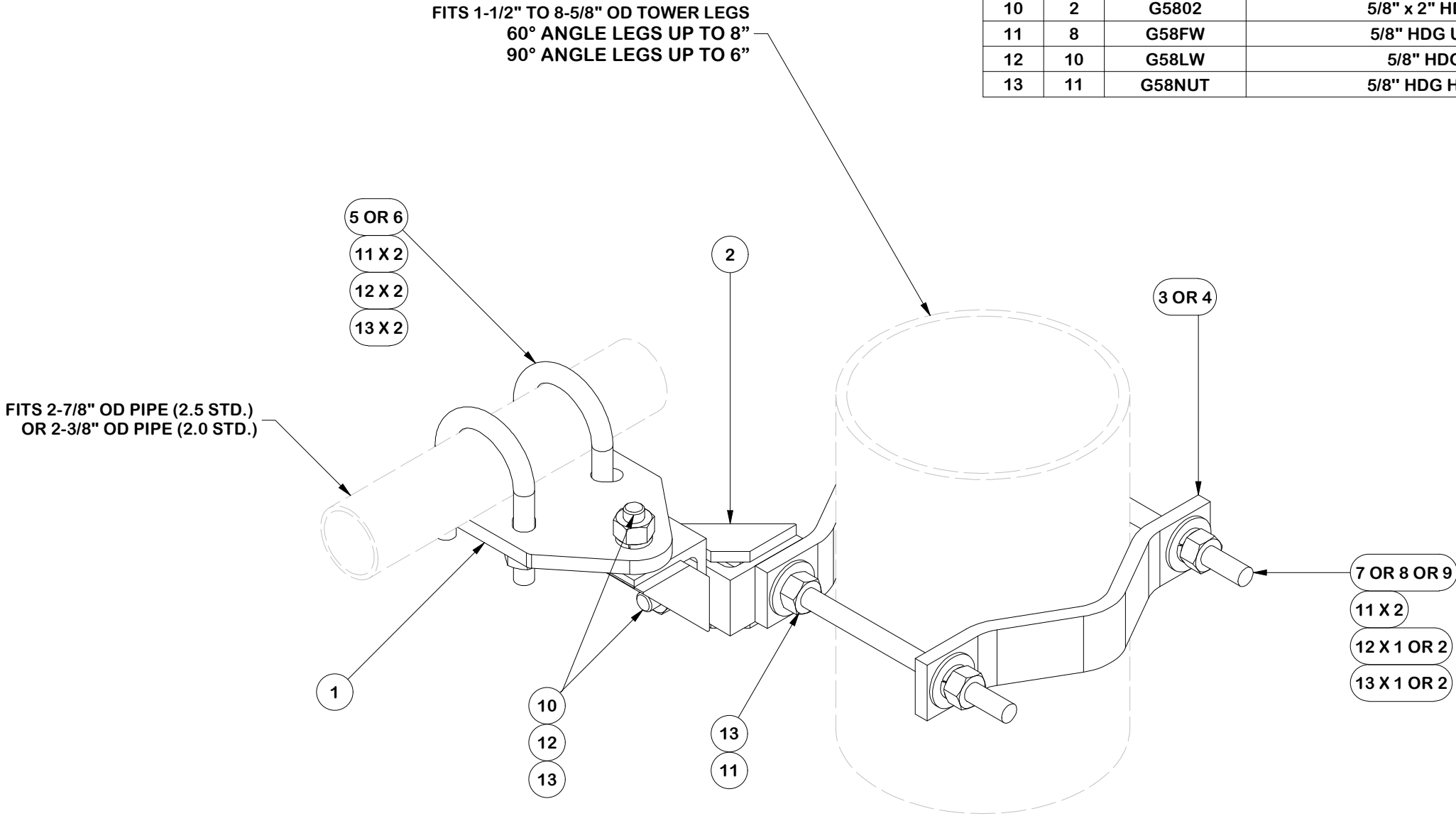
PART NO.

SPTB-U-F

DWG. NO.

VFA14-XD-5P

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SPTB-U	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.58	5.58
2	2	X-TBCA	TIE BACK CLIP ANGLE		2.01	4.01
3	2	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	7.19
4	2	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	4.72
5	2	X-UB5258	5/8 X 2-5/8" X 4-1/2" X 2" U-BOLT	4 1/2 in	1.06	2.12
6	2	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT	5 1/4 in	1.22	2.43
7	2	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	2.09
8	2	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	1.39
9	2	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	0.89
10	2	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	0.54
11	8	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.56
12	10	G58LW	5/8" HDG LOCKWASHER		0.03	0.26
13	11	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.43
					TOTAL WT. #	33.22



TOLERANCE NOTES

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ALL OTHER ASSEMBLY ($\pm 0.060"$)

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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO.

SP1

DRAWN BY

KS

10/3/2024

ENG. APPROVAL

6/10/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

CSL

6/10/2025



A valmont COMPANY

Engineering
Support Team:
sp1engineering@valmont.com

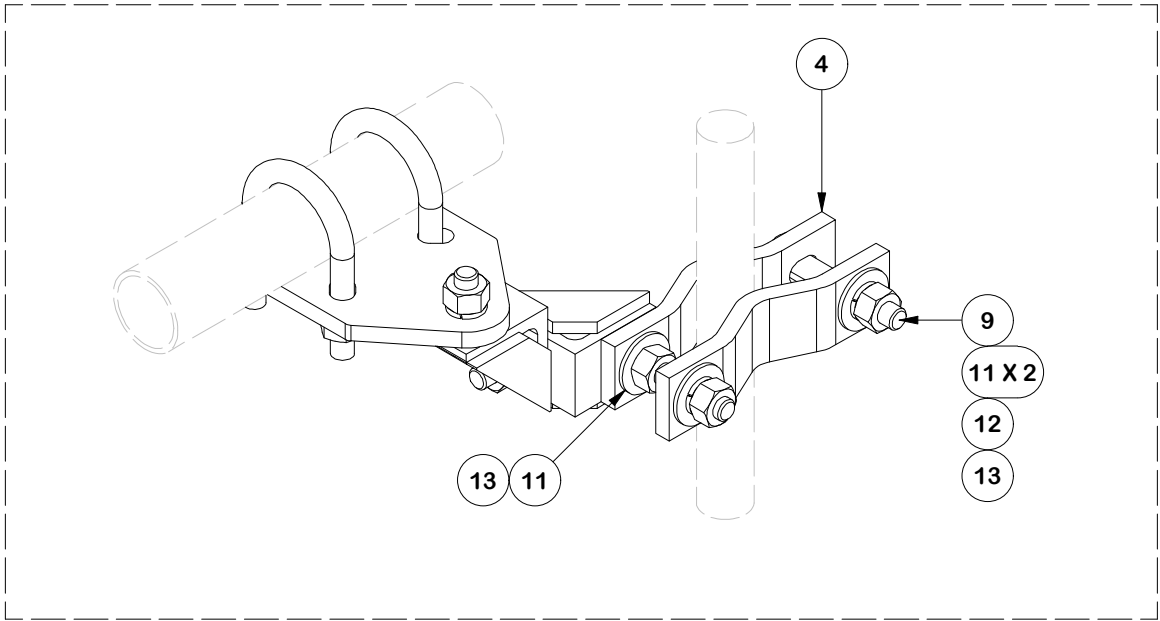
PART NO.

SPTB-U-B

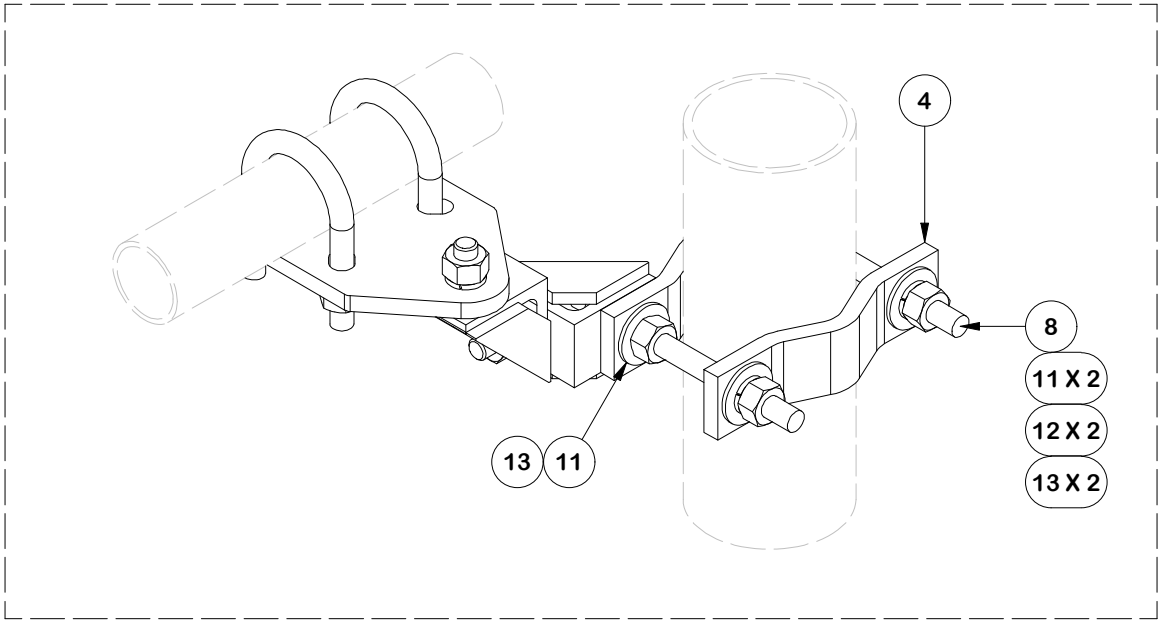
DWG. NO.

VFA14-XD-5P

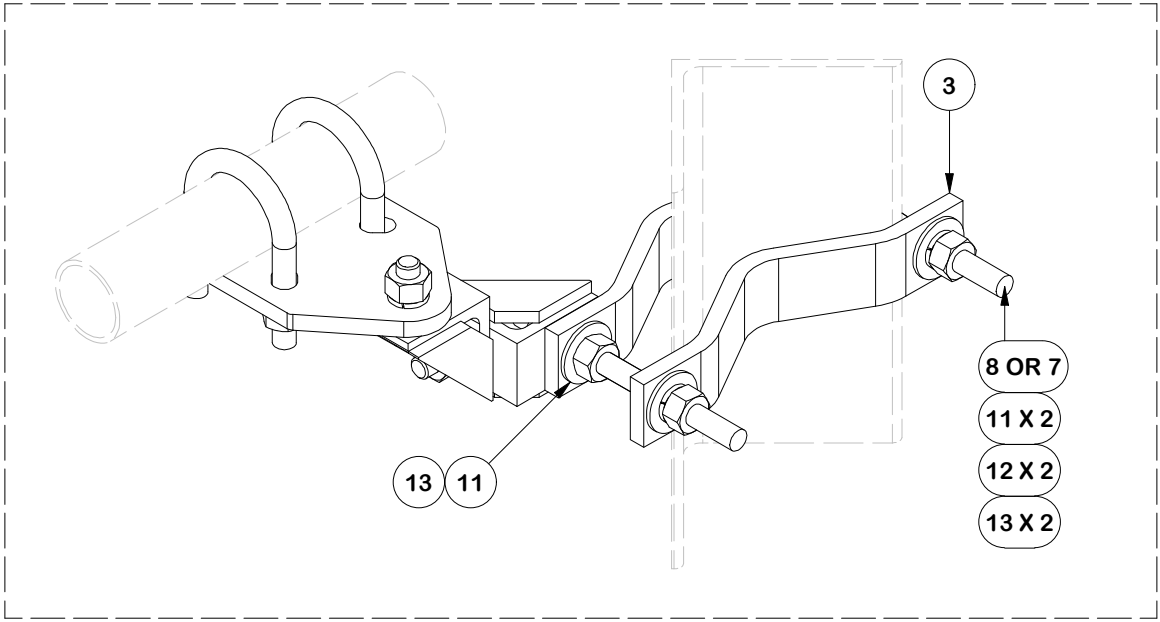
TOWER LEG CONFIGURATIONS



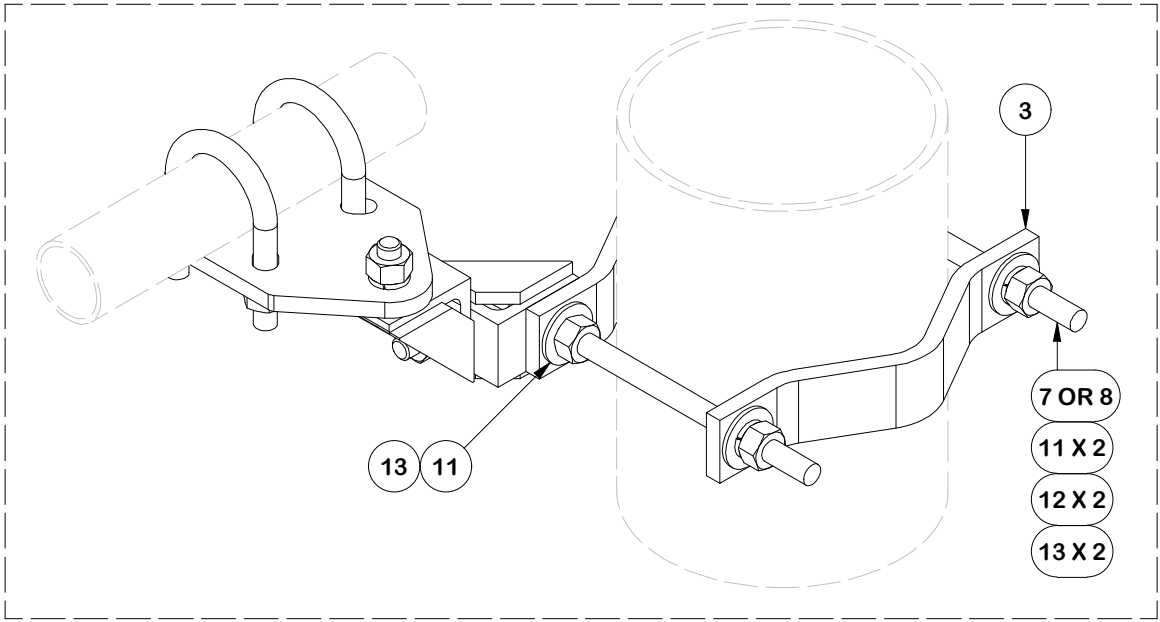
SMALL LEGS 1-1/2" TO 2-3/8"
NOTE: FLIP HALF BACK CLAMP



MEDIUM LEGS 2-7/8" TO 5"
NOTE: FLIP HALF BACK CLAMP FOR ANGLE



LARGE LEGS UP TO 6" 90 DEG. 8" 60 DEG
NOTE: FLIP HALF BACK CLAMP



LARGE LEGS 5" TO 8-5/8" OD

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

PROPRIETARY NOTE:
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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024		ENG. APPROVAL 6/10/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/10/2025	

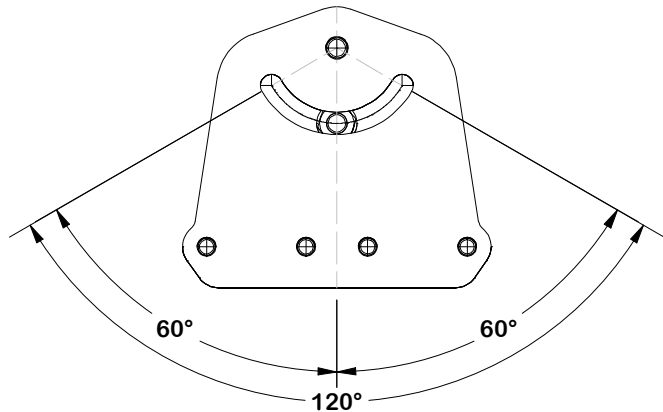
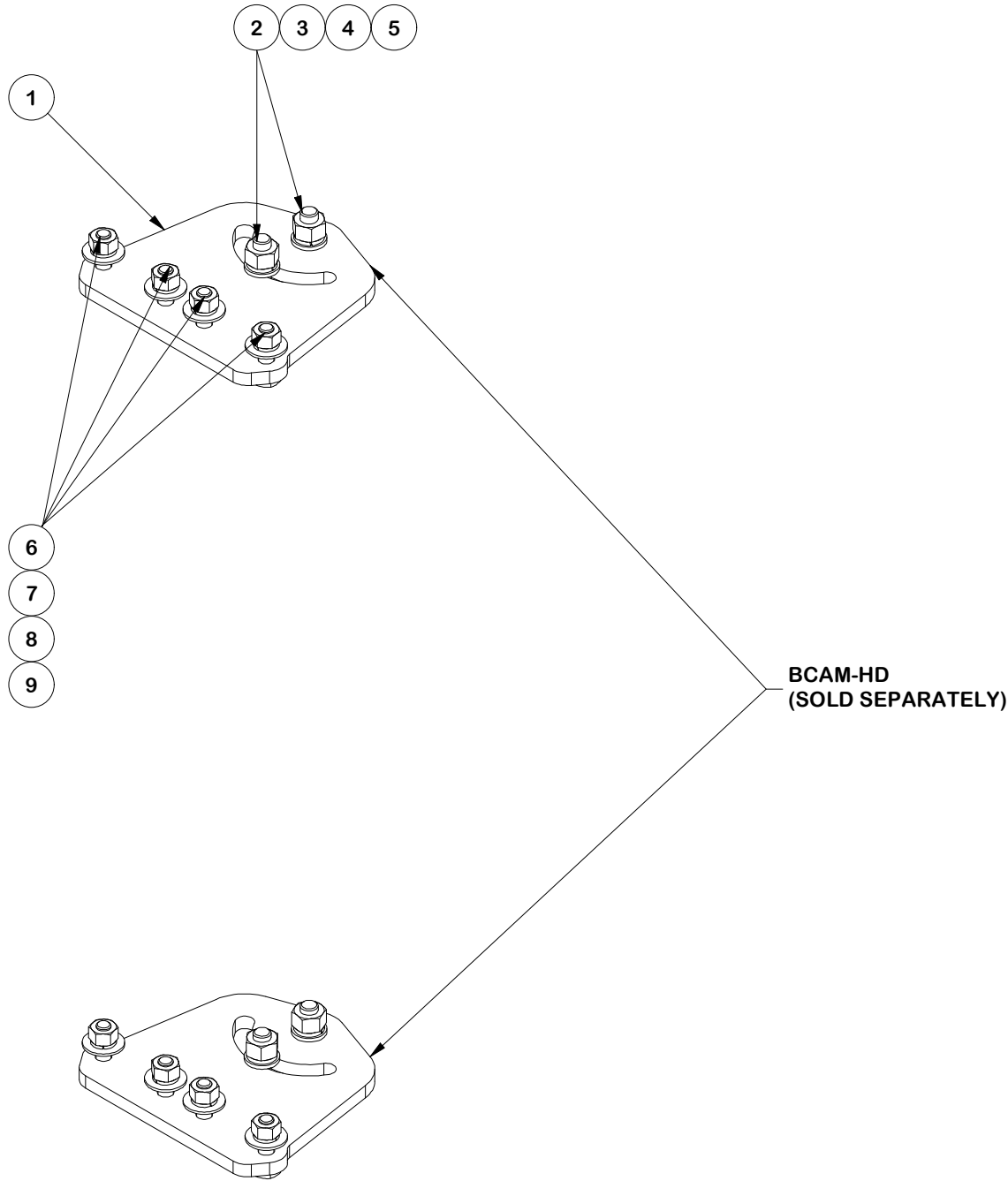


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PART NO. SPTB-U-B	PAGE 13 OF 16
DWG. NO. VFA14-XD-5P	

FINISH:
HOT DIP GALVANIZED.



PIVOT RANGE

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
2	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
3	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
4	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
5	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
6	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
7	8	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.56
8	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
9	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
TOTAL WT. #						39.25

TOLERANCE NOTES

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LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY
WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO.

SP1

DRAWN BY

KS 10/3/2024

ENG. APPROVAL

6/10/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

CSL 6/10/2025



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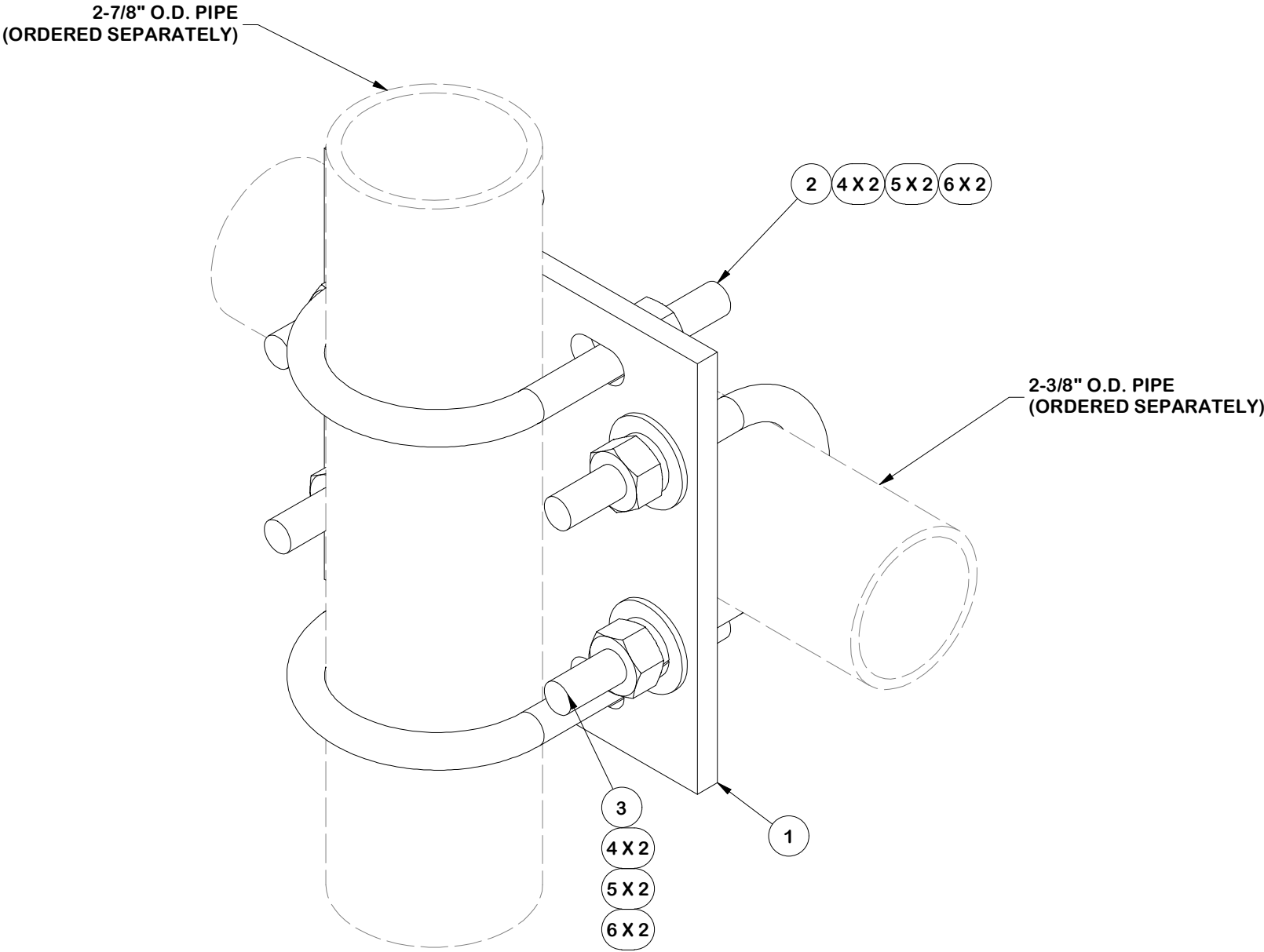
PART NO.

VFAPL4-K

DWG. NO.

VFA14-XD-5P

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	5.08	5.08
2	2	X-UB1300	1/2 X 3" X 5" X 2" U-BOLT	5 in	0.74	1.48
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT	4 1/2 in	0.66	1.32
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT	7/8 in	0.07	0.57
					TOTAL WT. #	8.84

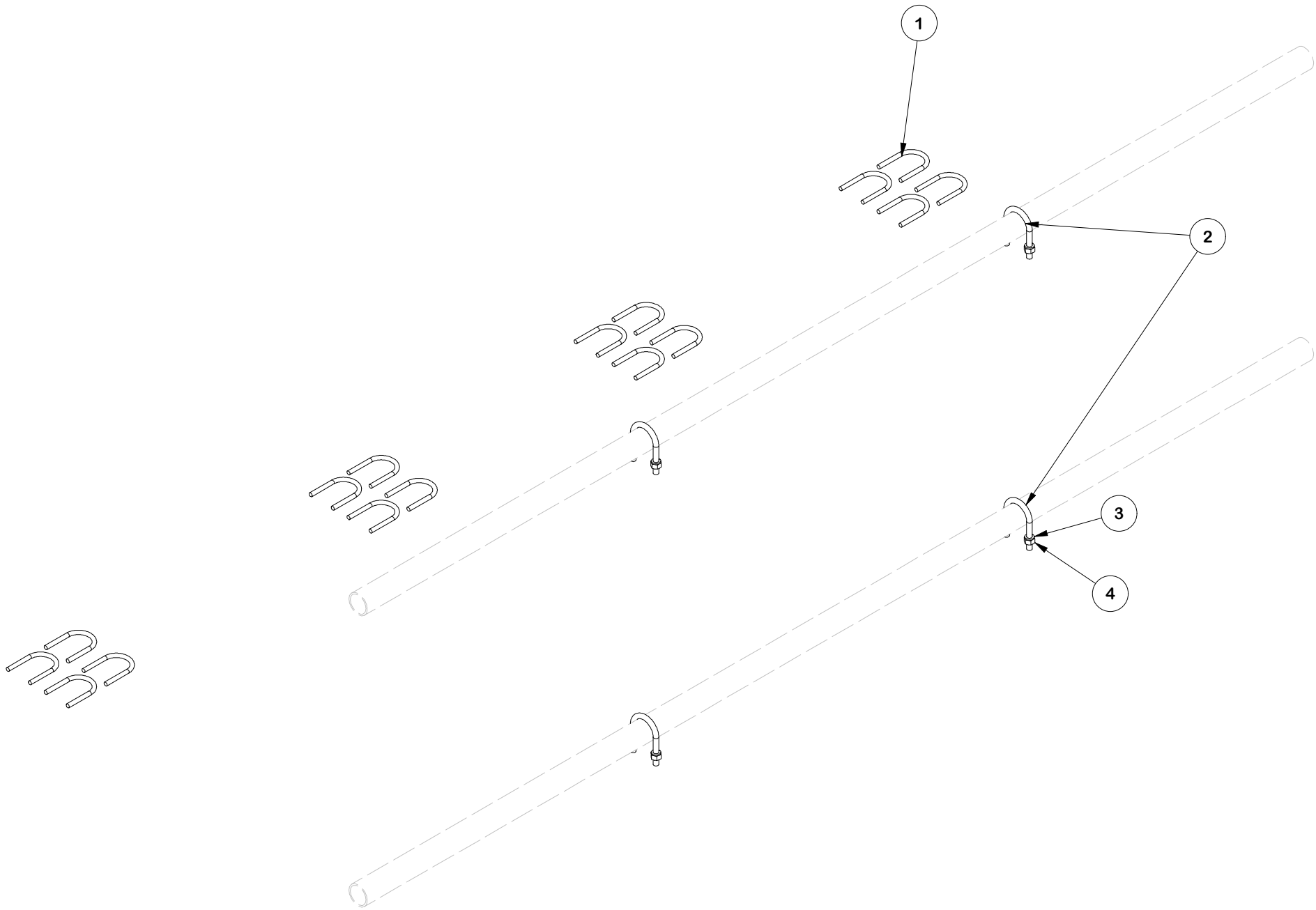


FINISH:
HOT DIP GALVANIZED.

	TOLERANCE NOTES TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030''$) DRILLED AND GAS CUT HOLES ($\pm 0.030''$) - NO CONING OF HOLES LASER CUT EDGES AND HOLES ($\pm 0.010''$) - NO CONING OF HOLES BENDS AND ANGLES ARE $\pm 1/2$ DEGREE ALL OTHER MACHINING ($\pm 0.030''$) ALL OTHER ASSEMBLY ($\pm 0.060''$)			DESCRIPTION 14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS & 5' STAND-OFF			SITE PRO 1 A valmont COMPANY Engineering Support Team: sp1engineering@valmont.com				
	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CPD NO. SP1	DRAWN BY KS 10/3/2024		ENG. APPROVAL 6/10/2025		PART NO. SCX2-K		
	PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.			CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/10/2025		DWG. NO. VFA14-XD-5P	

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PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	16	X-UB1300	1/2 X 3" X 5" X 2" U-BOLT	5 in	0.74	11.82
2	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT	5 1/4 in	1.22	4.87
3	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
4	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
					TOTAL WT. #	17.93



TOLERANCE NOTES

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DESCRIPTION

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WITH TWO STIFF ARMS & 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024	ENG. APPROVAL 6/10/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/10/2025



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Support Team:
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DWG. NO. VFA14-XD-5P	