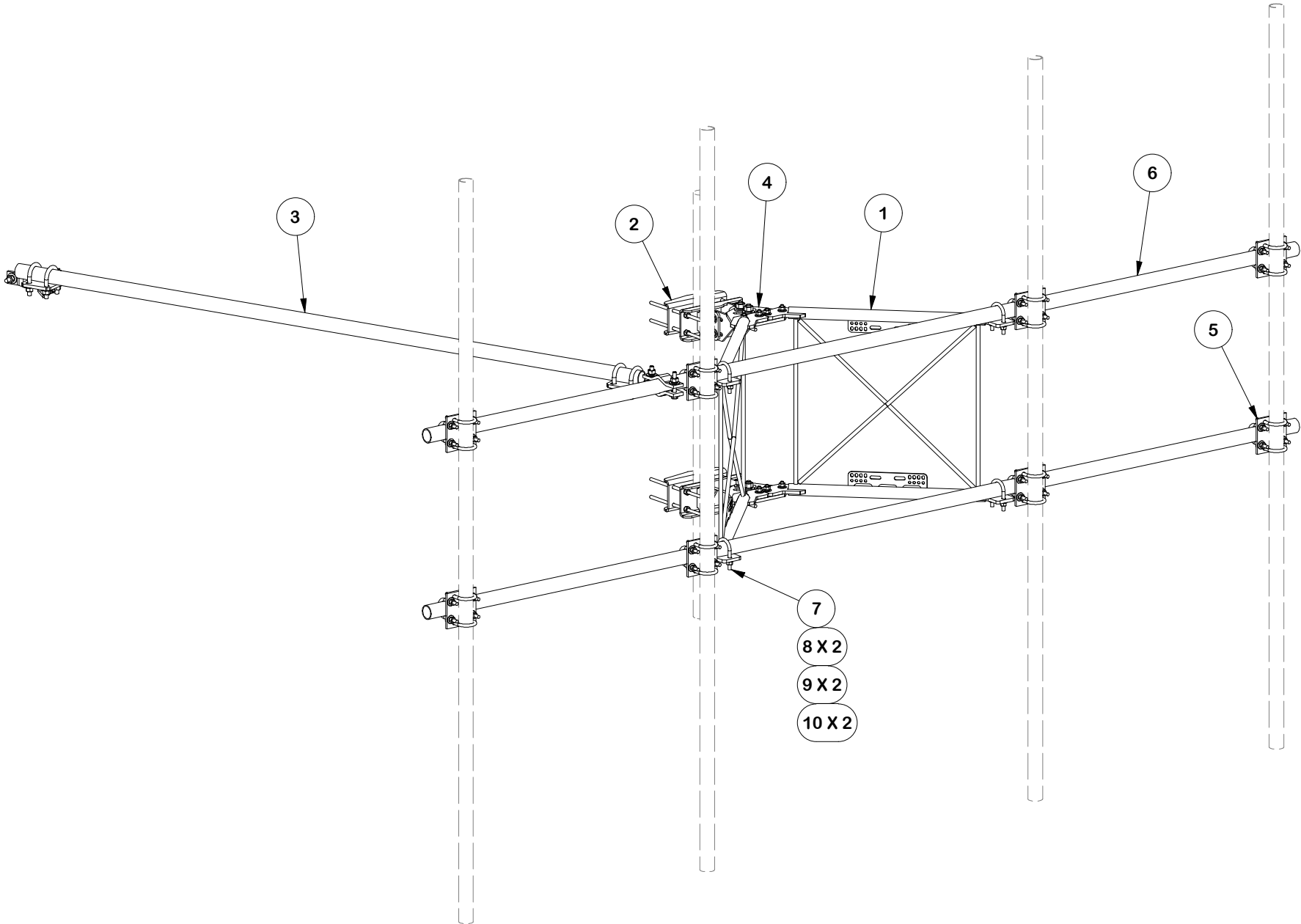
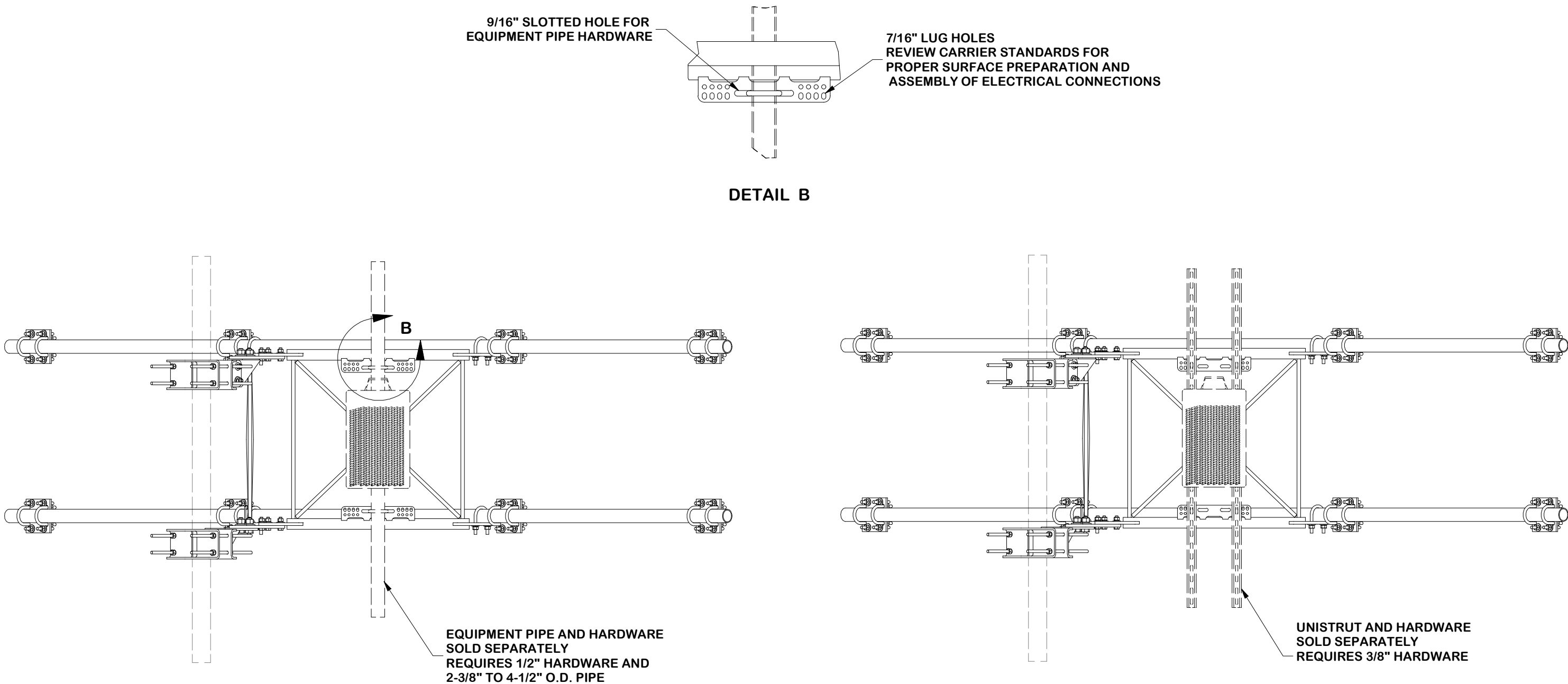


PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFASD	SUPPORT ARM FOR STANDARD DUTY V-FRAME ASSEMBLY		45.34	90.69
2	1	BCAM-SD	STANDARD DUTY BOLT CALIBRATED ANGLE MAINSTAY		68.03	68.03
3	1	SPTB	SLIDING TIE-BACK ASSEMBLY KIT		91.18	91.18
4	1	SDPP-K	SD FRAME PIVOT PLATE KIT		23.98	23.98
5	8	SCX1-K	CROSSOVER PLATE KIT 2-3/8" X 2-3/8"		7.34	58.74
6	2	P2180	2-3/8" OD X 180" Sch 40 Galvanized Pipe (A53 Gr.B Fy=35 ksi min.)	180 in	59.59	119.18
7	4	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT	4 1/2 in	0.66	2.65
8	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
9	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
10	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT	7/8 in	0.07	0.57
					TOTAL WT. #	455.11



					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'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 1 STIFF ARM			SITE PRO 1 Engineering Support Team: sp1engineering@valmont.com A valmont  COMPANY					
B	SWITCHED P2174 TO P2180 & MADE SUPPER ASSEMBLY			SP1	ADB	5/9/2025	CPD NO.	DRAWN BY		ENG. APPROVAL	PART NO.	1 OF 15 PAGE			
A	UPDATED BCAM VERSION TO BCAM VERSION 2			SP1	CEK	8/17/2018	SP1		ADB	5/9/2025	6/23/2025		VFA14-SD-S		
REV	DESCRIPTION OF REVISIONS			CPD	BY	DATE	CLASS	SUB	DRAWING USAGE		CHECKED BY		DWG. NO.		
REVISION HISTORY									87	02	CUSTOMER		JET	6/23/2025	VFA14-SD-S
							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.								



TOLERANCE NOTES

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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'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

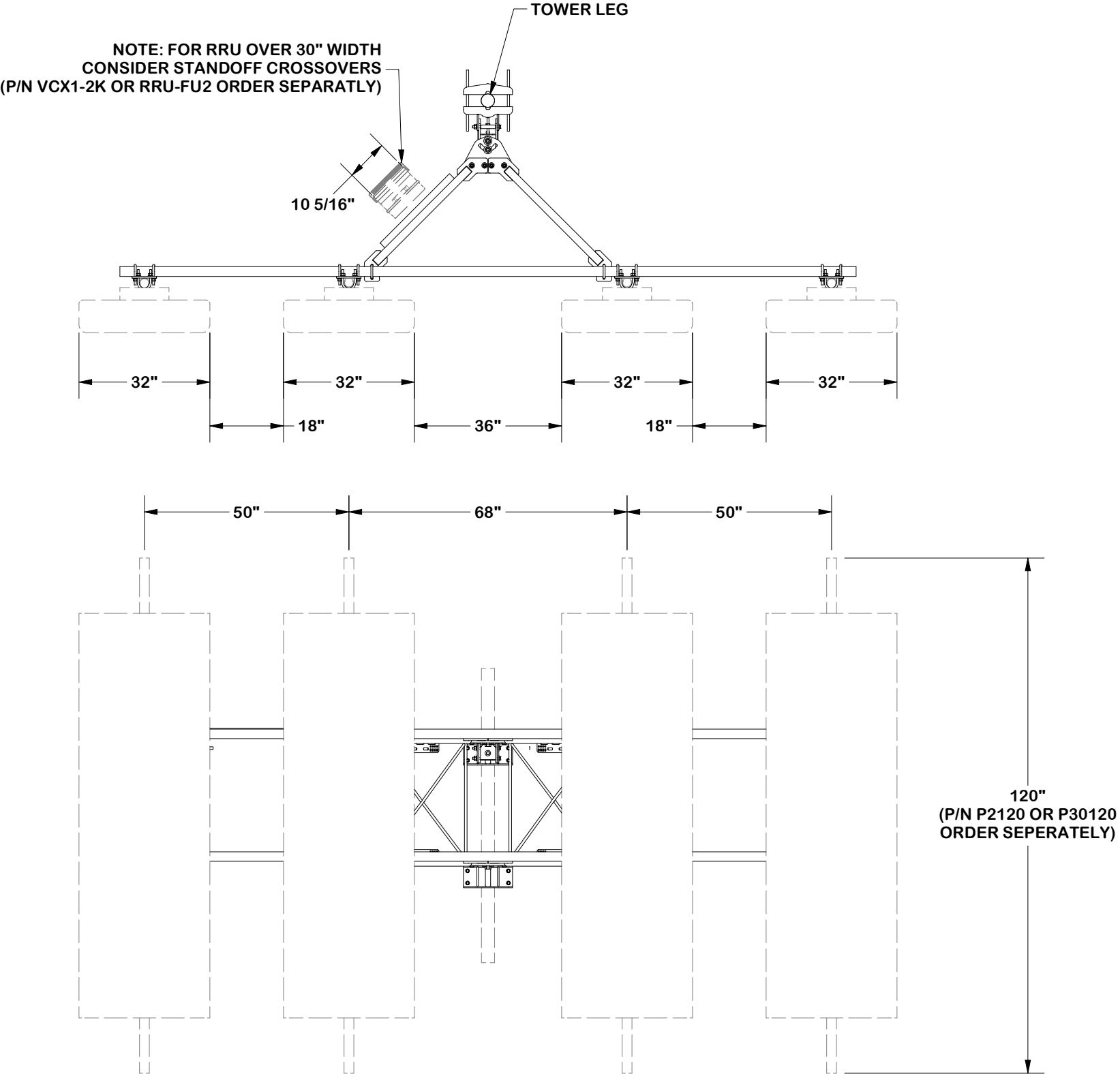
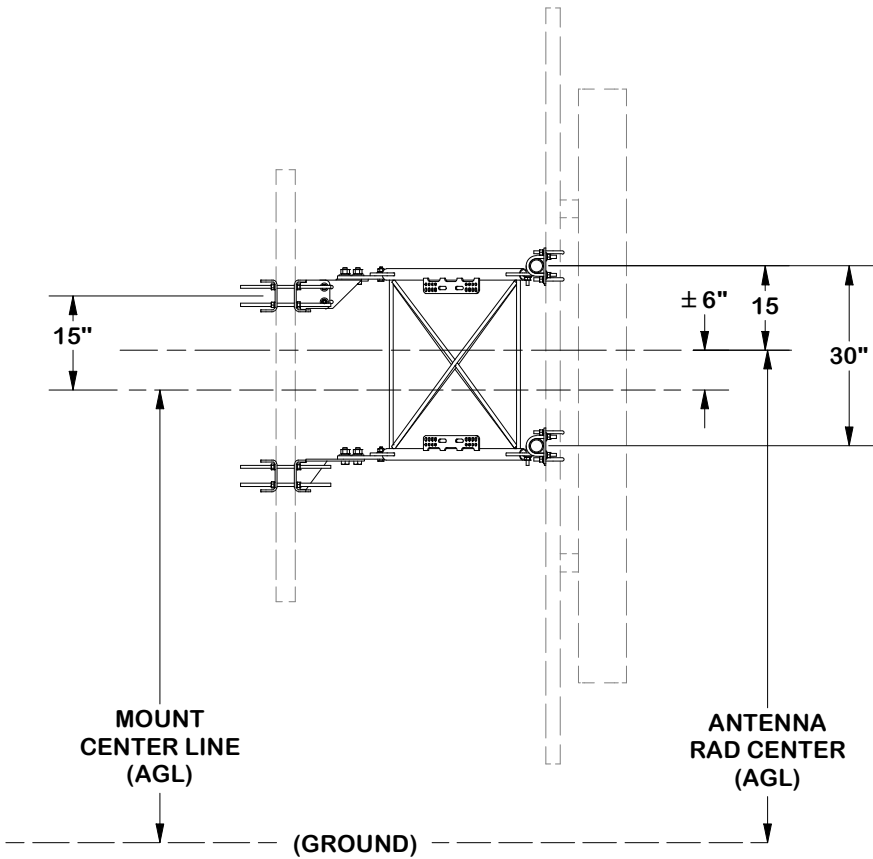
CPD NO. SP1		DRAWN BY ADB 5/9/2025		ENG. APPROVAL 6/23/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 6/23/2025	



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PART NO.	VFA14-SD-S
DWG. NO.	VFA14-SD-S

4 ANTENNA SECTOR FRAME LAYOUT



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

TOLERANCE NOTES

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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'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

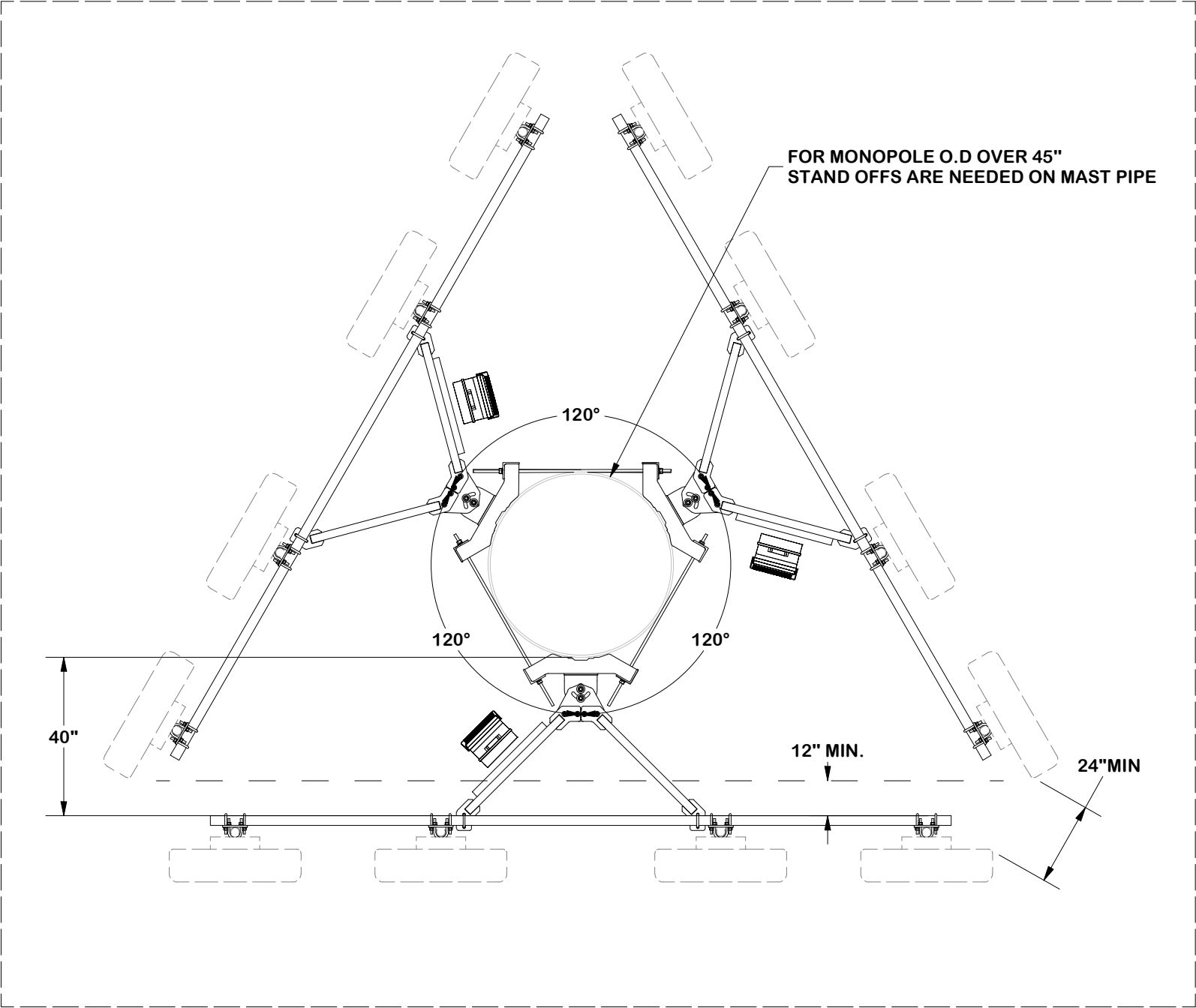
CPD NO. SP1		DRAWN BY ADB 5/9/2025		ENG. APPROVAL 6/23/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 6/23/2025	



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PART NO. VFA14-SD-S
DWG. NO. VFA14-SD-S

MONOPOLE CORNER LAYOUT



NOTE: TIE-BACKS OMITTED FOR CLARITY

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

TOLERANCE NOTES

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

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

PROPRIETARY NOTE:
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DESCRIPTION
14'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO. SP1		DRAWN BY ADB 5/9/2025		ENG. APPROVAL 6/23/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 6/23/2025	

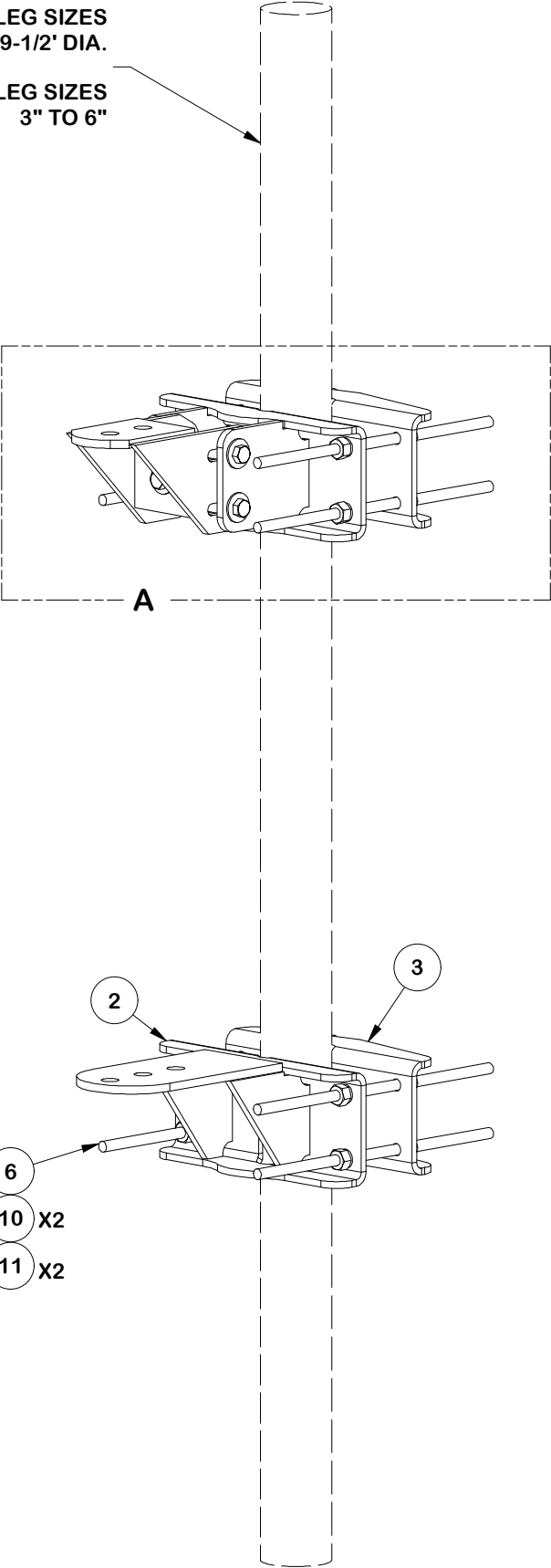


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PART NO. CORNER LAYOUT	PAGE 4 OF 15
DWG. NO. VFA14-SD-S	

ROUND LEG SIZES
1-1/2' TO 9-1/2' DIA.

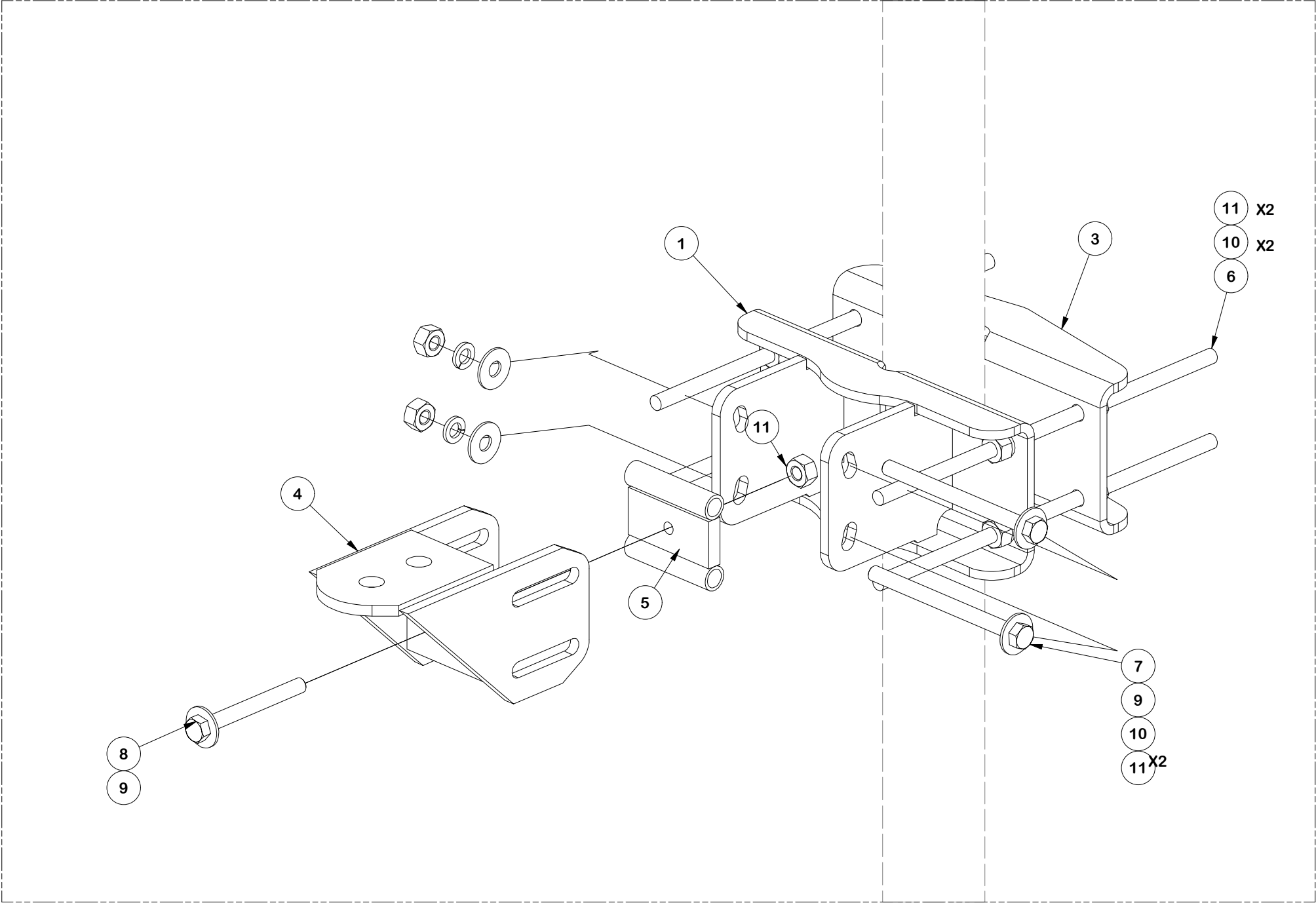
ANGLE LEG SIZES
3" TO 6"



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SDTFLB	DIAGONAL SLOT WELDMENT FOR BCAM SD		14.18	14.18
2	1	X-SDMHTP	MULTI-HOLE TAPER PLATE WELDMENT		16.63	16.63
3	2	X-LCBP2	BENT BACKING PLATE	12 in	8.86	17.73
4	1	X-SDCAMSS	STRAIGHT SLOT WELDMENT FOR BCAM		8.48	8.48
5	1	X-SDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM		1.43	1.43
6	8	G12R-15	1/2" x 15" THREADED ROD (HDG.)		0.84	6.69
7	2	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	0.82
8	1	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	0.30
9	5	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.17
10	18	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.25
11	19	G12NUT	1/2" HDG HEAVY 2H HEX NUT	7/8 in	0.07	1.36
					TOTAL WT. #	68.94

** FOR DETAIL SEE PAGE 2**

					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'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 1 STIFF ARM			SITE PRO 1 Engineering Support Team: sp1engineering@valmont.com A valmont  COMPANY		
A	REPLACED C CHANNEL BRKT WITH FORMED PLATE BRKT	SP1	ADB	4/25/2018	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS		CPD NO. SP1	DRAWN BY ADB 5/9/2025	ENG. APPROVAL 6/23/2025	PART NO. BCAM-SD	5 OF 15 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 JET 6/23/2025		DWG. NO. VFA14-SD-S
REVISION HISTORY												



VIEW A

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
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PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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DESCRIPTION

14'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO. SP1		DRAWN BY ADB 5/9/2025		ENG. APPROVAL 6/23/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 6/23/2025	

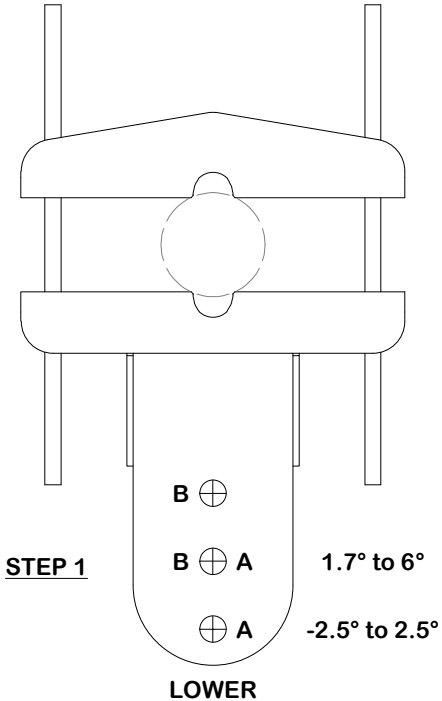
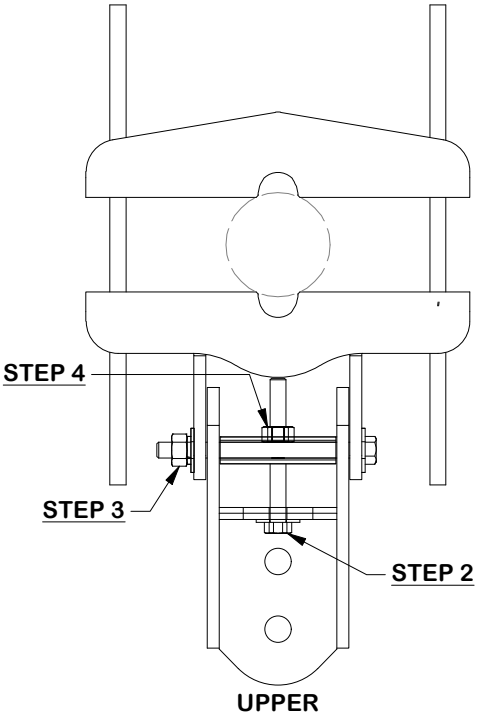


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PART NO. BCAM-SD	PAGE 6 OF 15
DWG. NO. VFA14-SD-S	

ANGLE CALIBRATING PROCEDURE:

1. MEASURE TOWER TAPER
AND PICK LOWER BRACKET
HOLE:
 - HOLE A = -2.5° TO 2.5°
 - HOLE B = 1.7° TO 6°
2. USE CALIBRATING BOLT
TO ADJUST FRAME TO
DESIRED TAPER
3. TORQUE LOCKING BOLTS
TO 50 ft.-lbs.
4. ADVANCE LOCKING NUT
TO POSITIONING PLATE,
THEN TIGHTEN.



TOLERANCE NOTES

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PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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DESCRIPTION

14'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO.
SP1

DRAWN BY
ADB 5/9/2025

ENG. APPROVAL
6/23/2025

CLASS
87

SUB
02

DRAWING USAGE
CUSTOMER

CHECKED BY
JET 6/23/2025



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Support Team:
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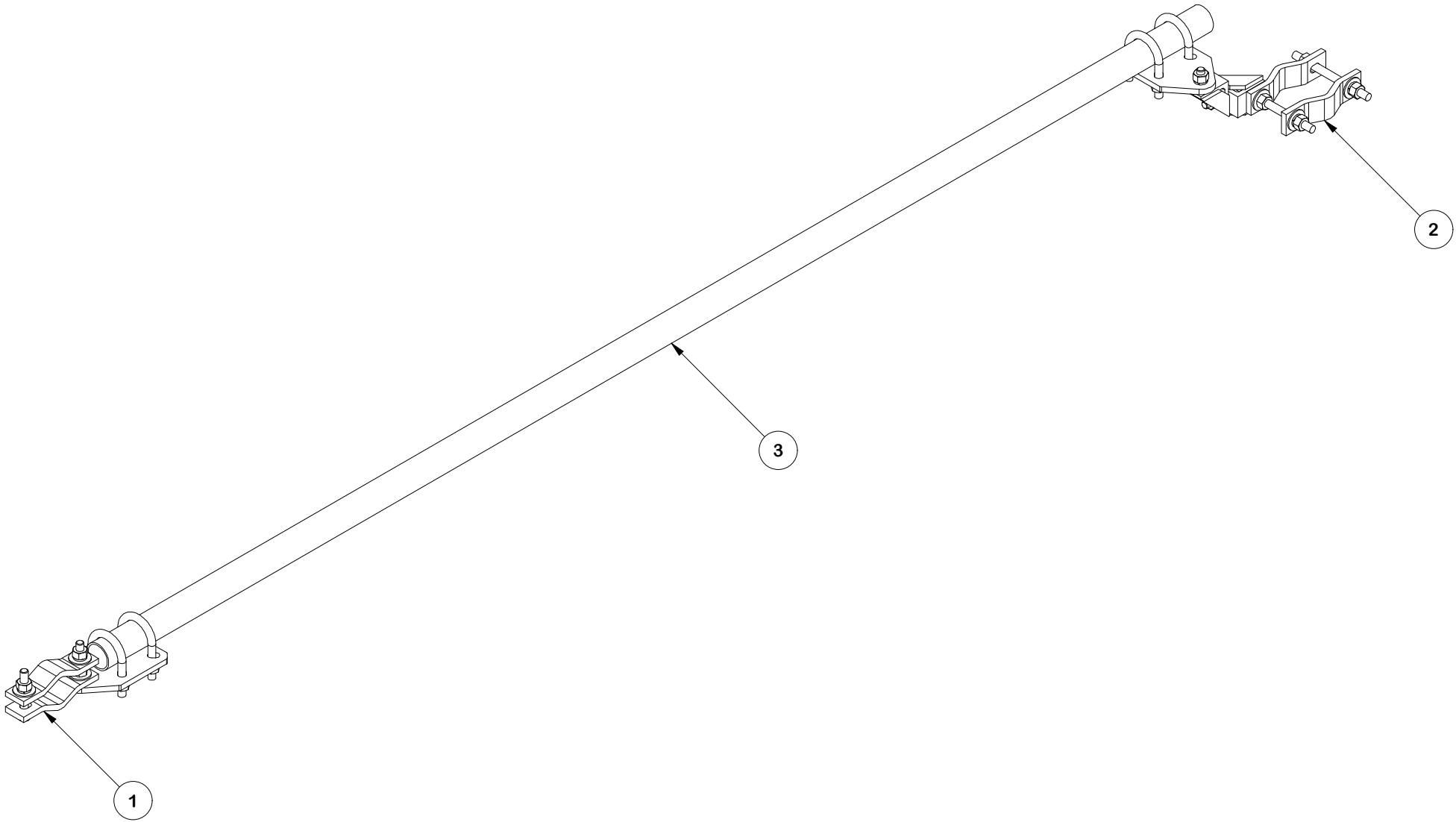
PART NO.

BCAM-SD

DWG. NO.

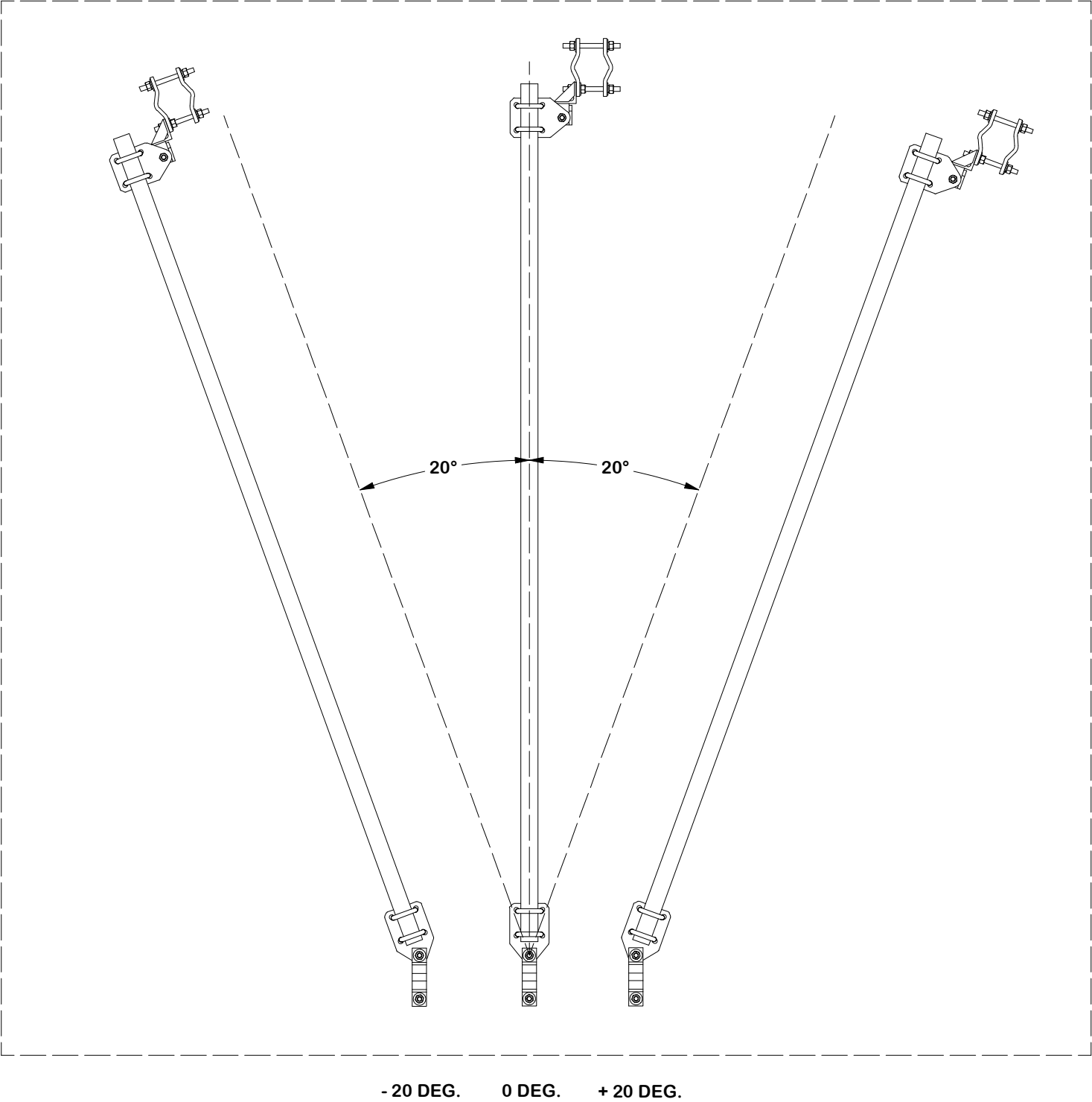
VFA14-SD-S

PARTS LIST							
ITEM	QTY	PART NO.	BOX NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SPTB-U-F	P-SPTBU-F	UNIVERSAL SLIDING PIPE TIE BACK ASSEMBLY (FRONT CONNECTION ONLY)		19.15	19.15
2	1	SPTB-U-B	P-SPTBU-B	UNIVERSAL SLIDING PIPE TIE BACK ASSEMBLY (REAR CONNECTION ONLY)		33.22	33.22
3	1	P2120		2-3/8" x 120" (2" SCH. 40) GALVANIZED PIPE (A53 Gr.B Fy=35 ksi min.)	120 in	38.81	38.81
						TOTAL WT. #	91.18

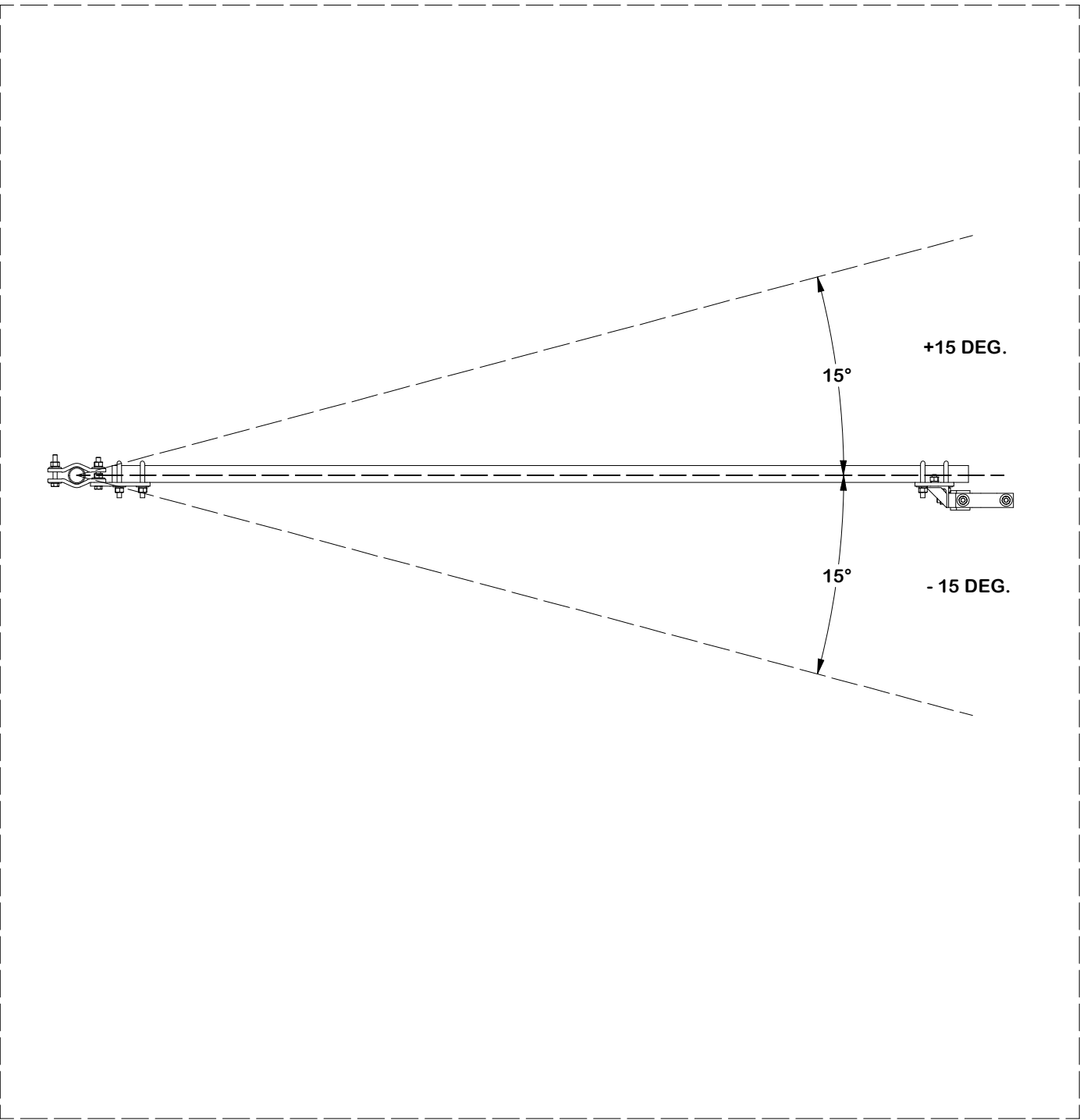


					TOLERANCE NOTES		DESCRIPTION 14'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 1 STIFF ARM			SITE PRO 1 Engineering Support Team: sp1engineering@valmont.com A valmont  COMPANY									
A	REVISED DRAWING & UPDATED X-SPTB TO X-SPTB-U				SP1	ADB	8/8/2024	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CPD NO. SP1		DRAWN BY ADB 5/9/2025		ENG. APPROVAL 6/23/2025		PART NO. SPTB		8 OF 15 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 JET 6/23/2025		DWG. NO. VFA14-SD-S		
REVISION HISTORY																			

RECOMMENDED HORIZONTAL ADJUSTMENT



RECOMMENDED VERTICAL ADJUSTMENT



TOLERANCE NOTES

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DESCRIPTION

14'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO.

SP1

DRAWN BY

ADB 5/9/2025

ENG. APPROVAL

6/23/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

JET 6/23/2025

PART NO.

SPTB

DWG. NO.

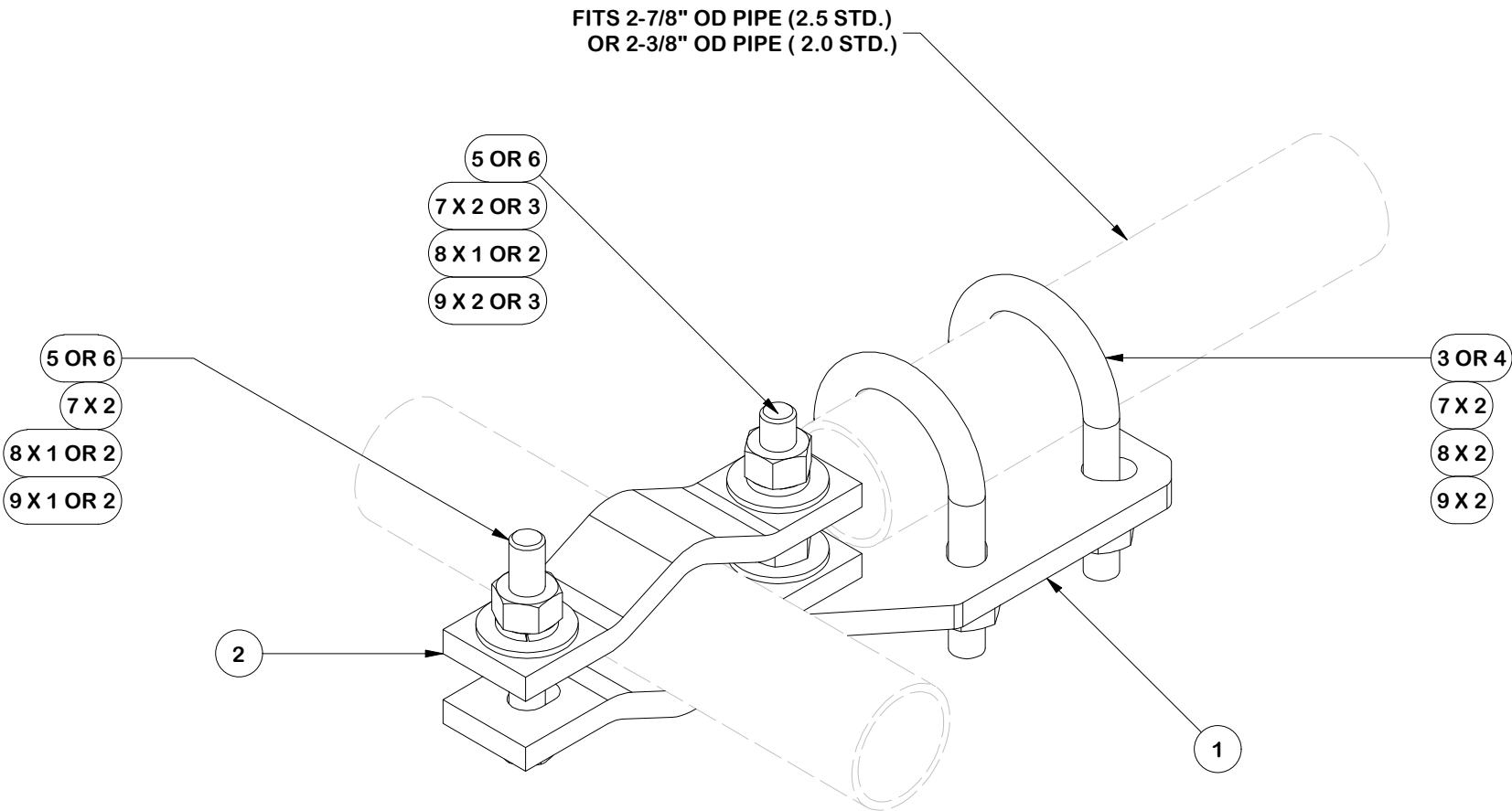
VFA14-SD-S



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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'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO.

SP1

DRAWN BY

ADB

5/9/2025

ENG. APPROVAL

6/23/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

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6/23/2025



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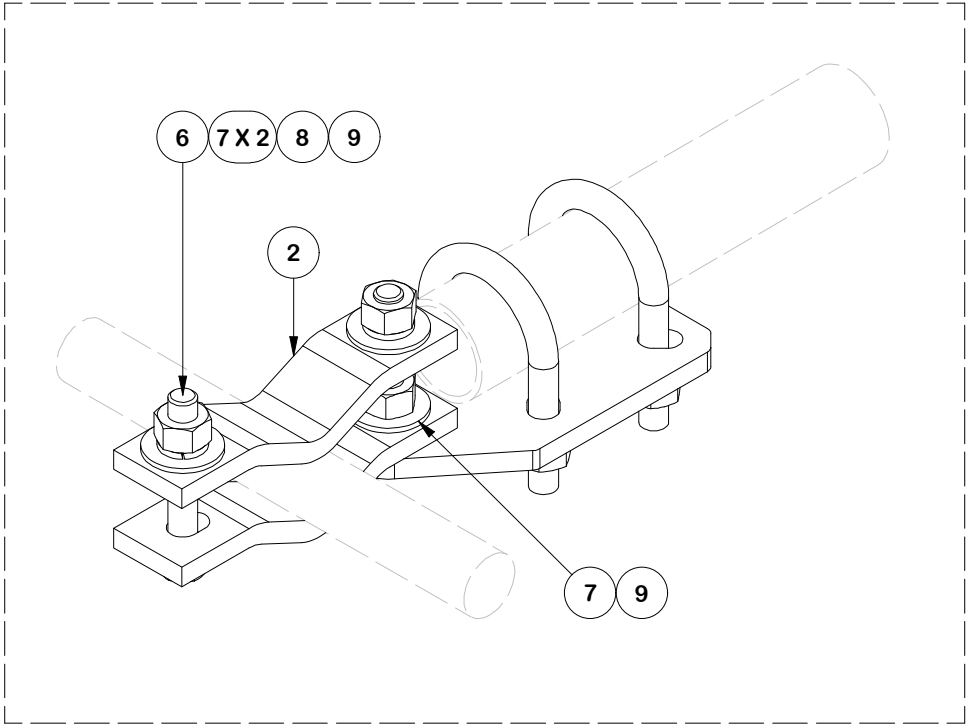
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SPTB-U-F

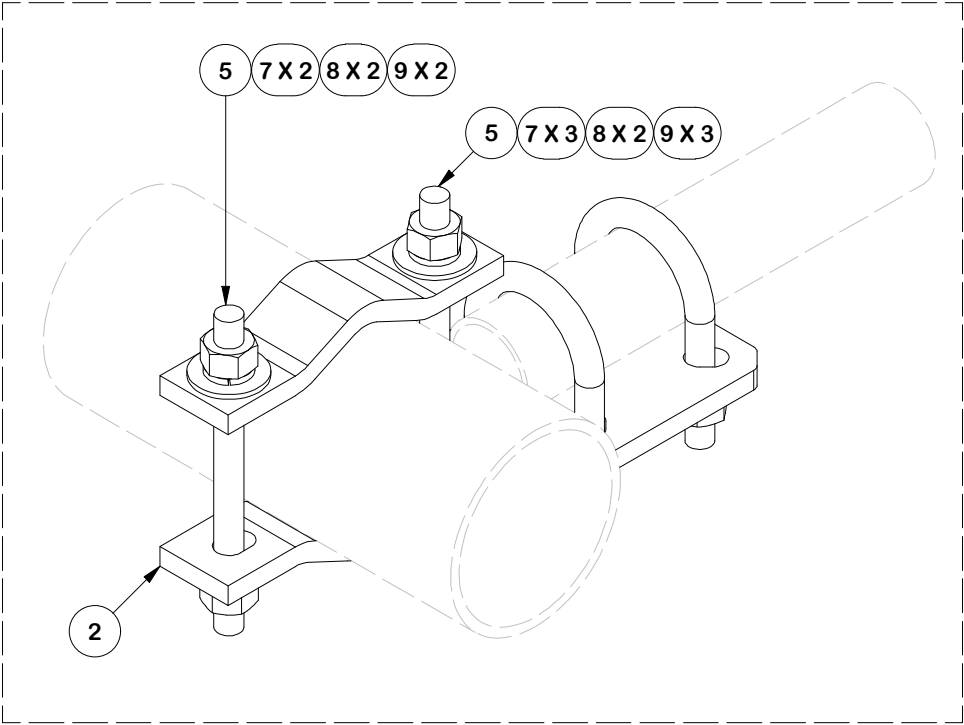
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VFA14-SD-S

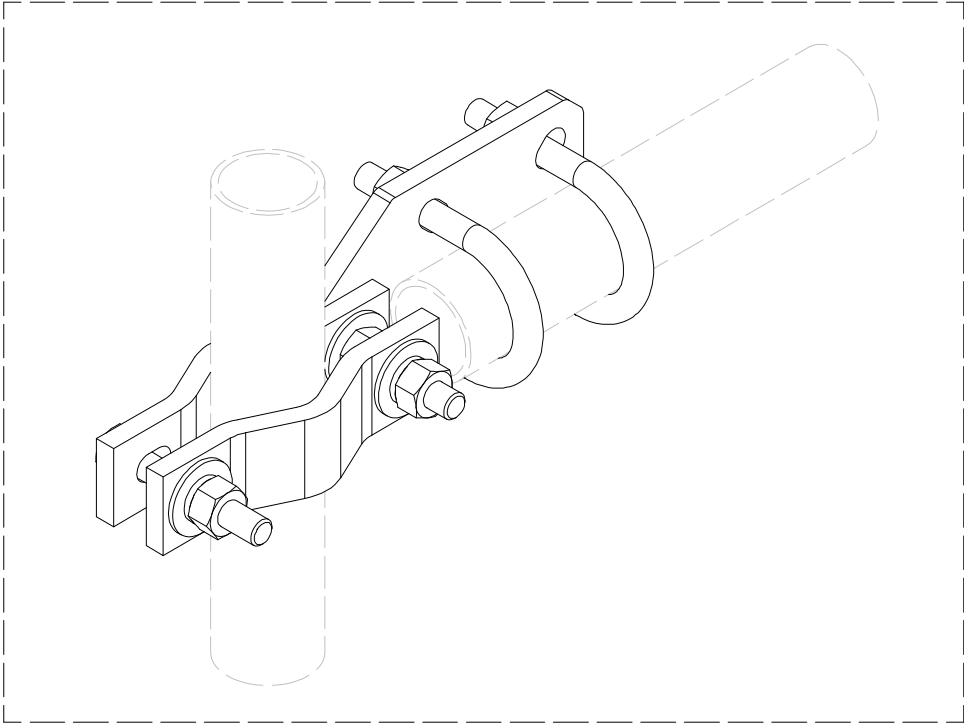
FRONT FACE CONFIGURATIONS



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

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DESCRIPTION

14'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO.

SP1

DRAWN BY

ADB 5/9/2025

ENG. APPROVAL

6/23/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

JET 6/23/2025

PART NO.

SPTB-U-F

DWG. NO.

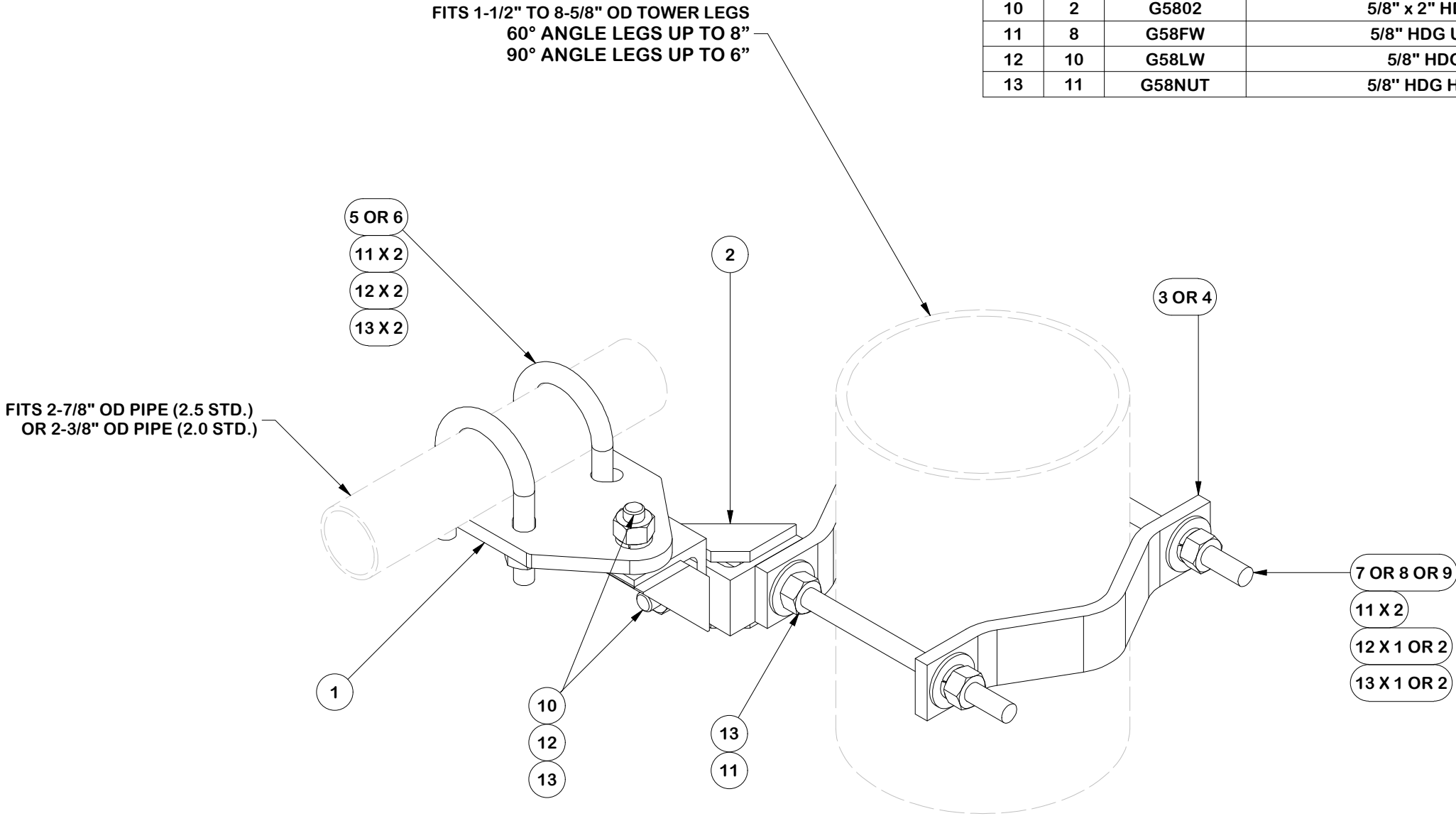
VFA14-SD-S



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Engineering
Support Team:
sp1engineering@valmont.com

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	2 in	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

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

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

PROPRIETARY NOTE:
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DESCRIPTION

14'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO.

SP1

DRAWN BY

ADB

5/9/2025

ENG. APPROVAL

6/23/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

JET

6/23/2025



A valmont COMPANY

Engineering
Support Team:
sp1engineering@valmont.com

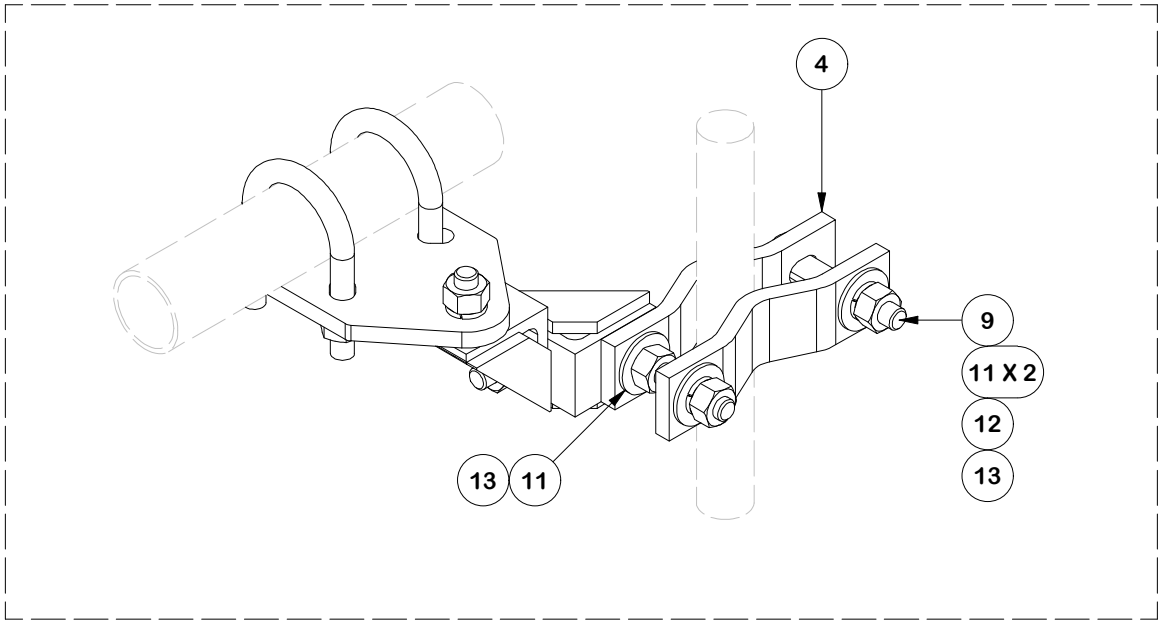
PART NO.

SPTB-U-B

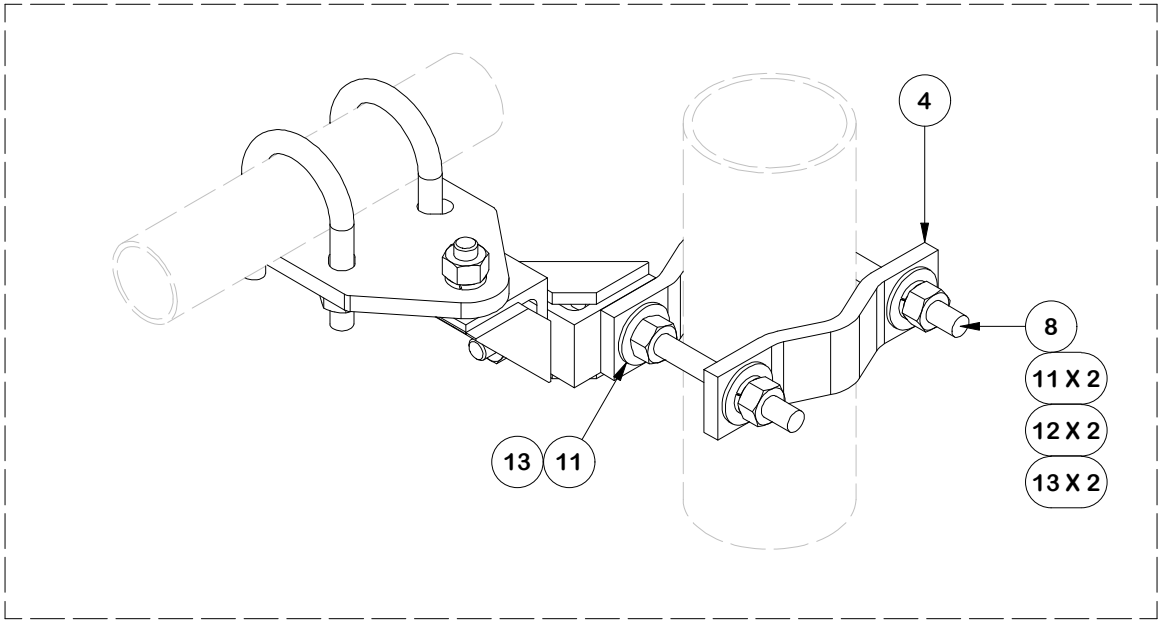
DWG. NO.

VFA14-SD-S

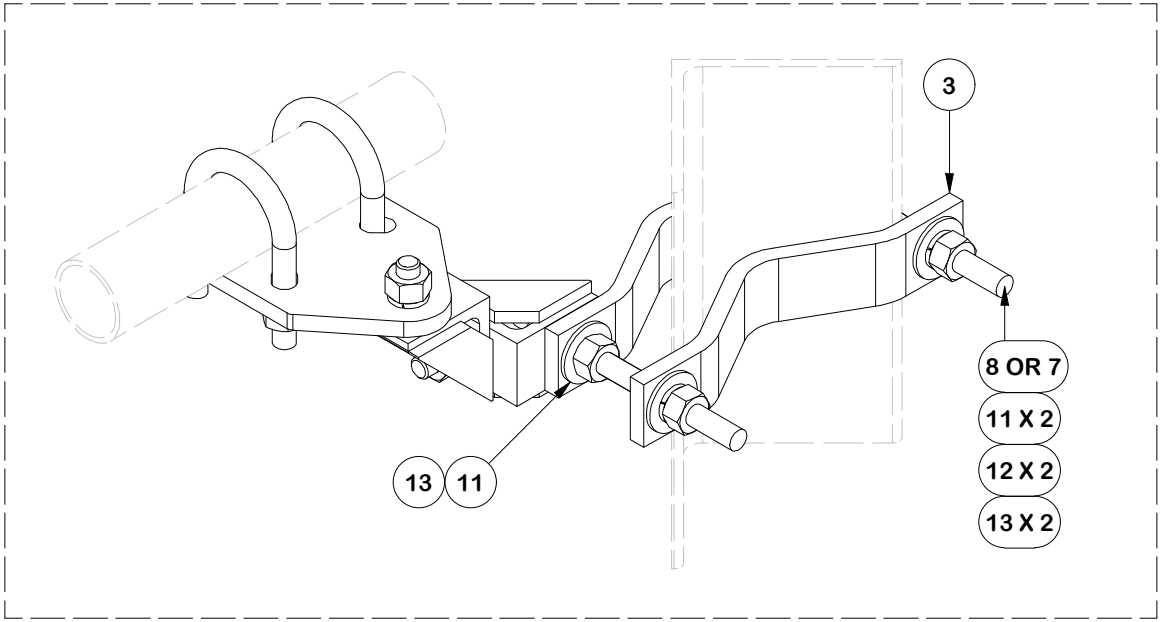
TOWER LEG CONFIGURATIONS



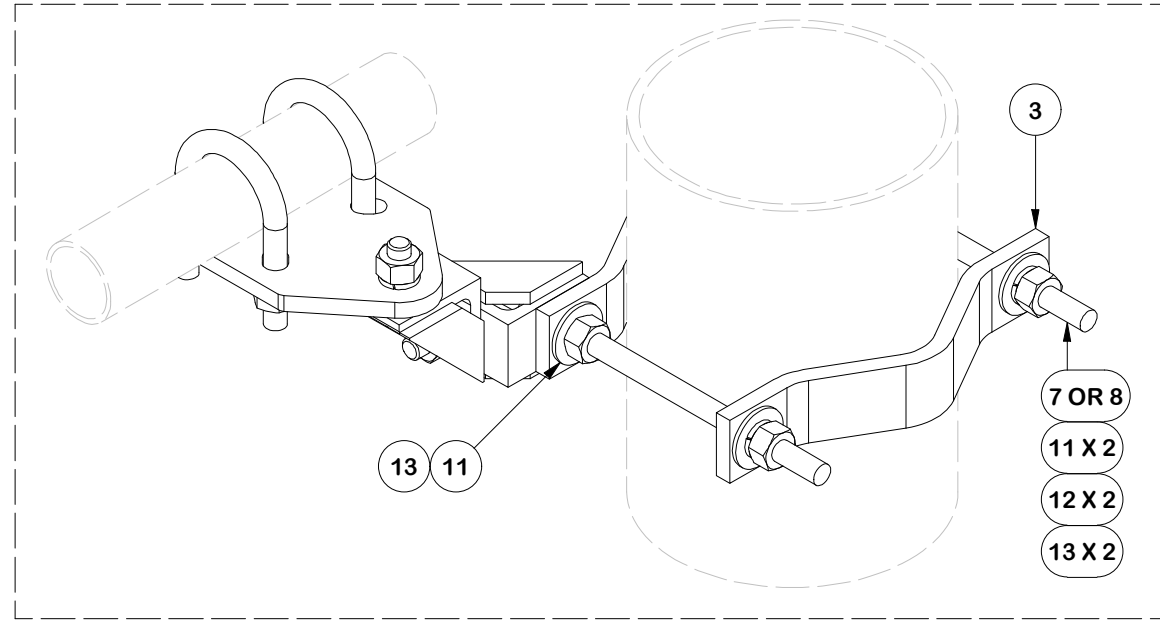
SMALL LEGS 1-1/2" TO 2-3/8"
NOTE: FLIP HALF BACK CLAMP



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

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DESCRIPTION

14'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARM

CPD NO.

SP1

DRAWN BY

ADB 5/9/2025

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6/23/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

JET 6/23/2025



A valmont COMPANY

Engineering
Support Team:
sp1engineering@valmont.com

PART NO.

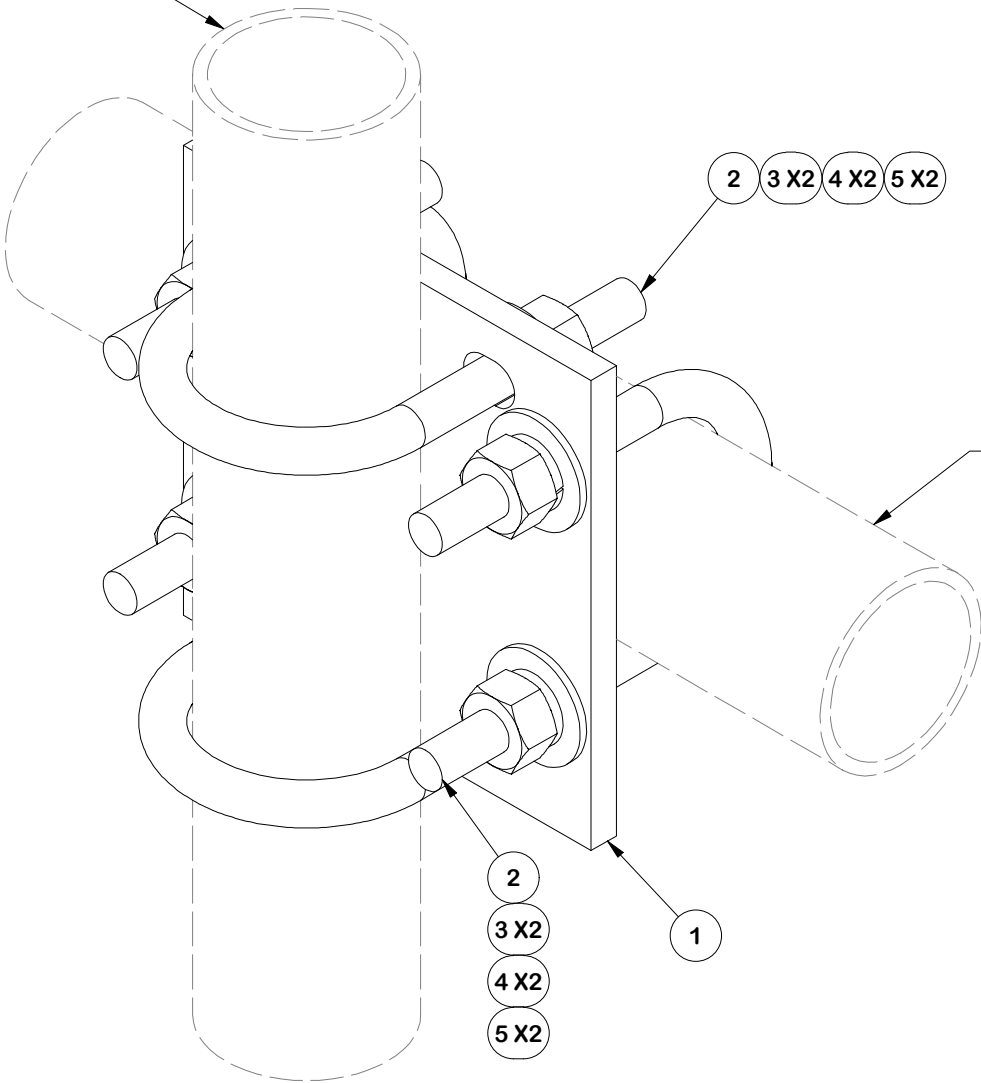
SPTB-U-B

DWG. NO.

VFA14-SD-S

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6 in	3.74	3.74
2	4	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT	4 1/2 in	0.66	2.65
3	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
4	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
5	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT	7/8 in	0.07	0.57
					TOTAL WT. #	7.16

2-3/8" O.D. ANTENNA PIPE
(ORDERED SEPARATELY)



2-3/8" O.D. PIPE
(ORDERED SEPARATELY)

REVISION HISTORY <table><tr><th>A</th><th>ADDED MISSING U-BOLT AND HRDWE</th><th>SP1</th><th>KC8</th><th>7/5/2012</th></tr><tr><th>REV</th><th>DESCRIPTION OF REVISIONS</th><th>CPD</th><th>BY</th><th>DATE</th></tr></table>					A	ADDED MISSING U-BOLT AND HRDWE	SP1	KC8	7/5/2012	REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	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: 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.			DESCRIPTION 14'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 1 STIFF ARM			SITE PRO 1 A valmont COMPANY Engineering Support Team: sp1engineering@valmont.com		
					A	ADDED MISSING U-BOLT AND HRDWE	SP1	KC8	7/5/2012														
					REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE														
CPD NO. SP1		DRAWN BY ADB 5/9/2025		ENG. APPROVAL 6/23/2025		PART NO. SCX1-K																	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 6/23/2025		DWG. NO. VFA14-SD-S																	

15 OF 15

PAGE