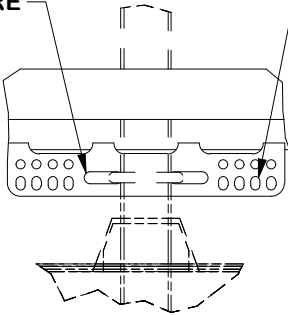
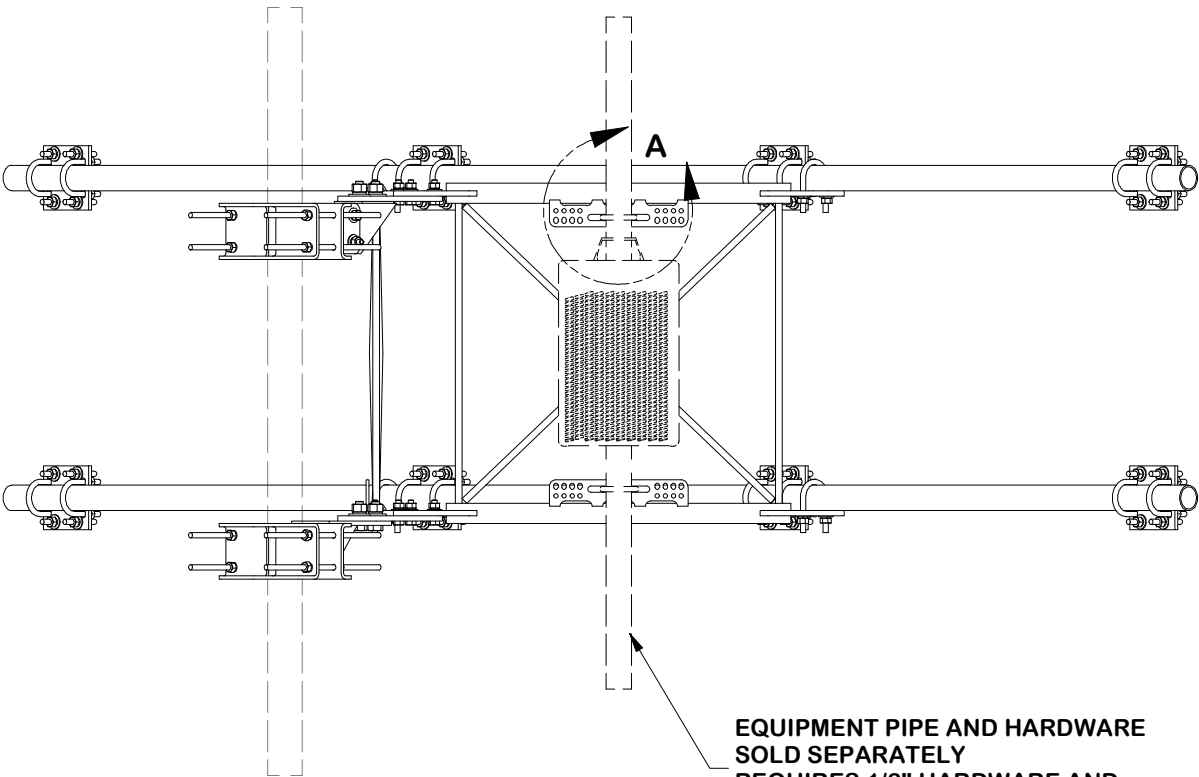


9/16" SLOTTED HOLE FOR
EQUIPMENT PIPE HARDWARE

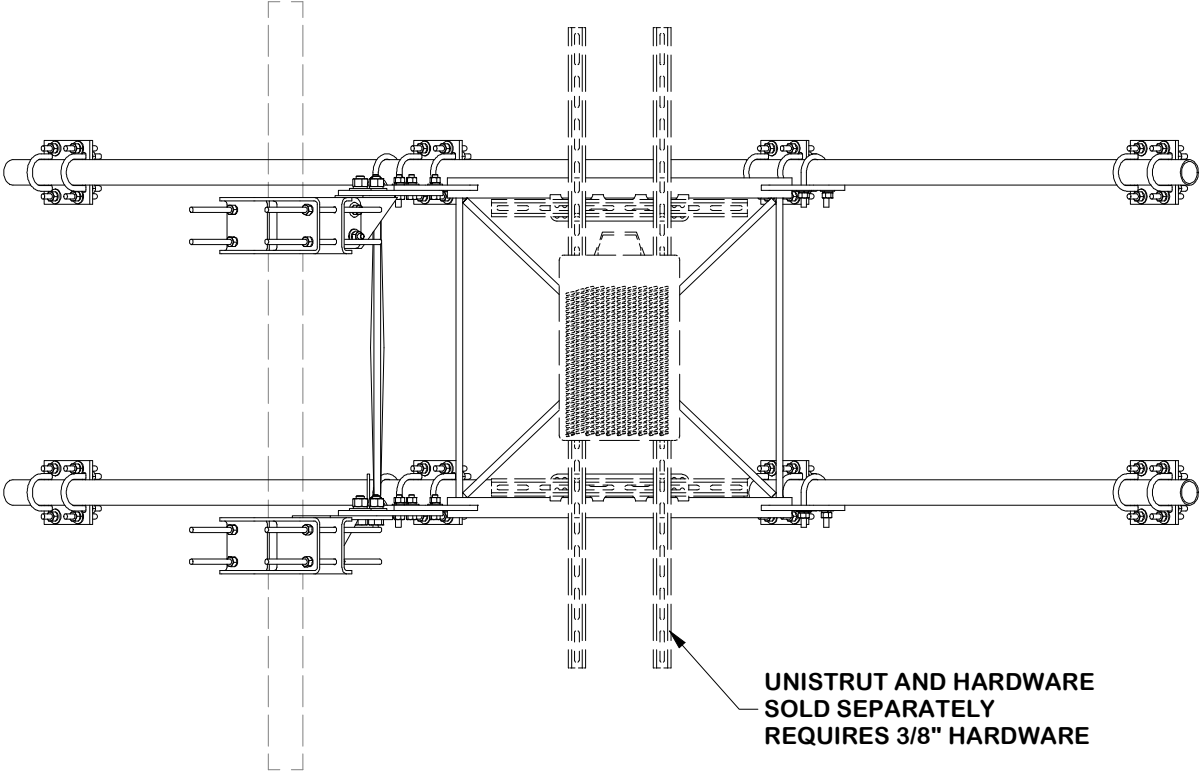
7/16" LUG HOLES
REVIEW CARRIER STANDARDS FOR
PROPER SURFACE PREPARATION AND
ASSEMBLY OF ELECTRICAL CONNECTIONS



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

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

**12'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 2 STIFF ARMS**

CPD NO.

SP1

DRAWN BY

ADB 5/7/2025

ENG. APPROVAL

6/12/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

CSL 6/12/2025

PART NO.

VFA12-SD

DWG. NO.

VFA12-SD

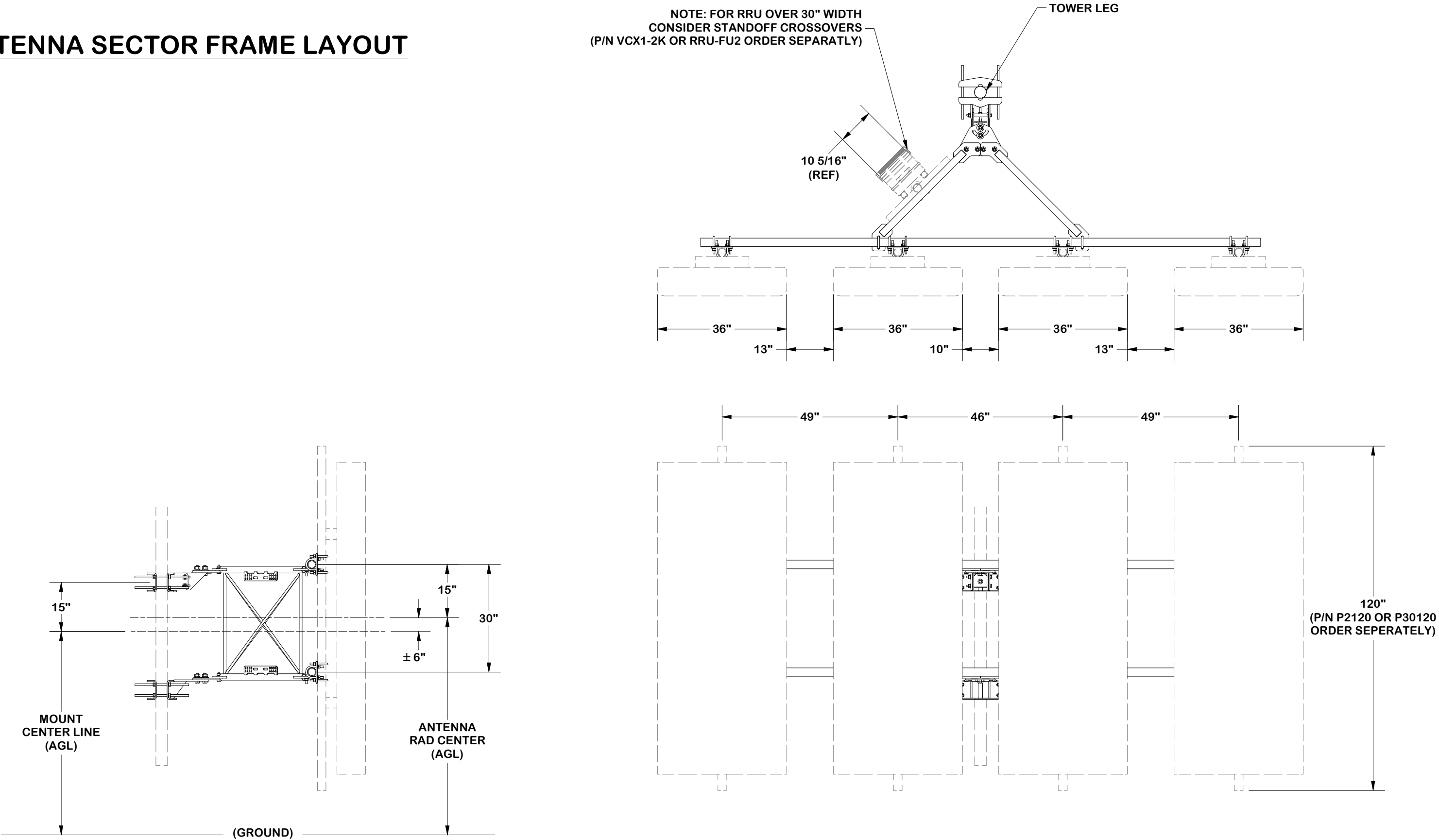


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4 ANTENNA SECTOR FRAME LAYOUT

NOTE: FOR RRU OVER 30" WIDTH
CONSIDER STANDOFF CROSSOVERS
(P/N VCX1-2K OR RRU-FU2 ORDER SEPARATLY)



TOLERANCE NOTES

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V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

CPD NO.
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CLASS
87

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02

DRAWING USAGE
CUSTOMER

CHECKED BY
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Support Team:
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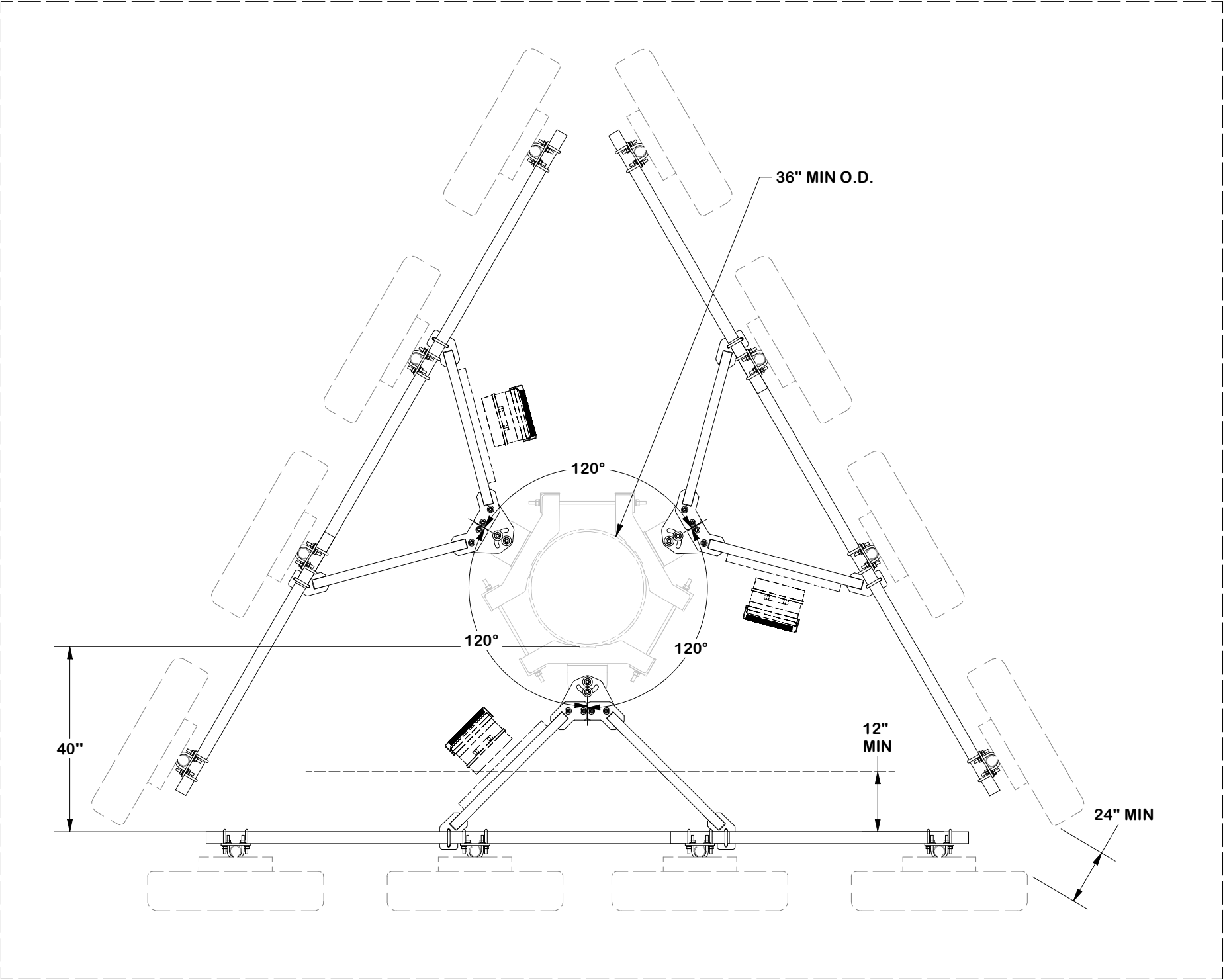
PART NO.

VFA12-SD

DWG. NO.

VFA12-SD

MONOPOLE CORNER LAYOUT



NOTE: TIEBACKS OMITTED FOR CLARITY

TOLERANCE NOTES

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DESCRIPTION

12'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

CPD NO. SP1		DRAWN BY ADB 5/7/2025	ENG. APPROVAL 6/12/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/12/2025

SITE
PRO

1

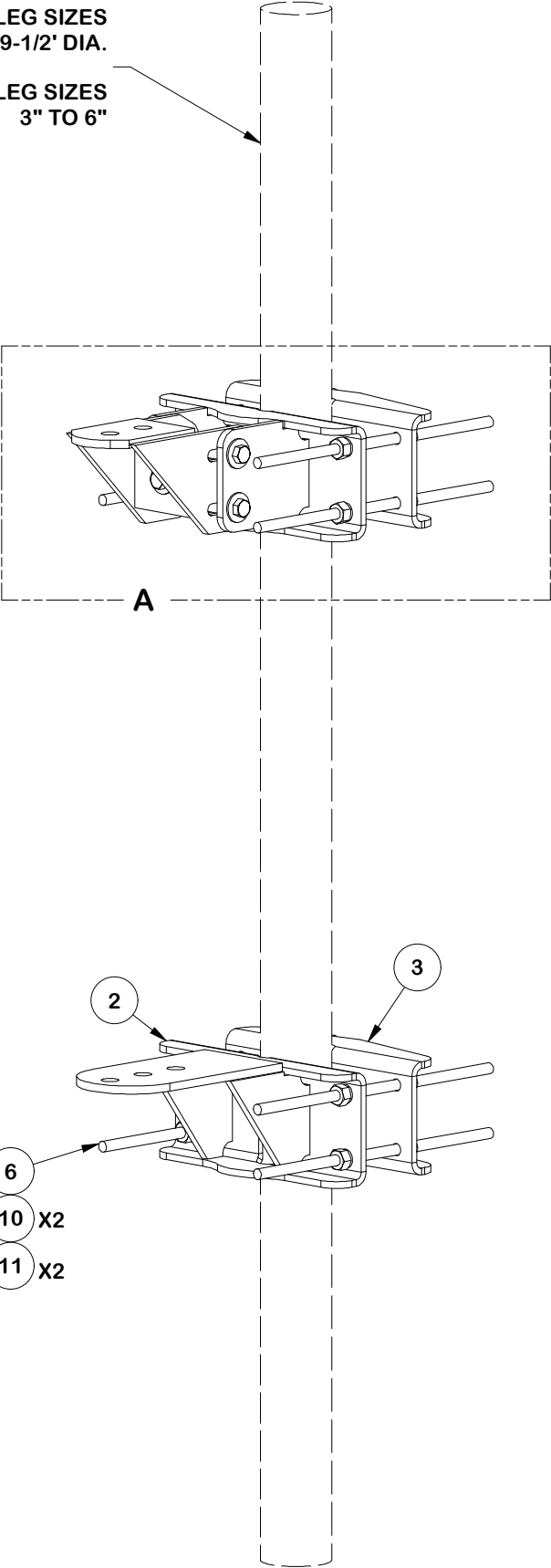
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sp1engineering@valmont.com

PART NO.	CORNER LAYOUT	PAGE 4 OF 15
DWG. NO.	VFA12-SD	

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

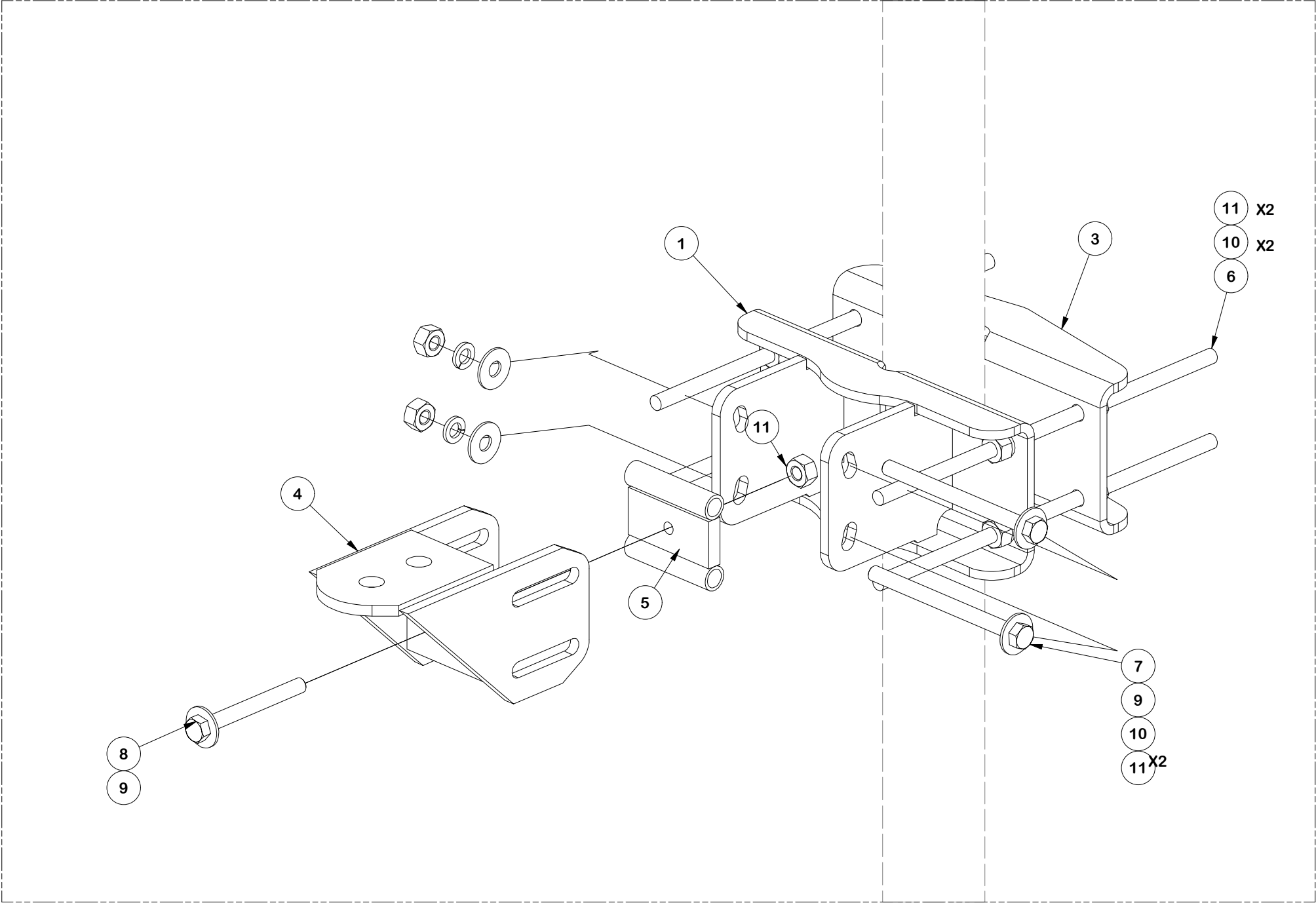
ANGLE LEG SIZES
3" TO 6"



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			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 ($\pm 0.060''$)			12'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 2 STIFF ARMS			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	5/7/2025	ENG. APPROVAL 6/12/2025		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 CSL		6/12/2025	
REVISION HISTORY													DWG. NO. VFA12-SD	



VIEW A

TOLERANCE NOTES

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DESCRIPTION

12'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

CPD NO. SP1		DRAWN BY ADB 5/7/2025		ENG. APPROVAL 6/12/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/12/2025	

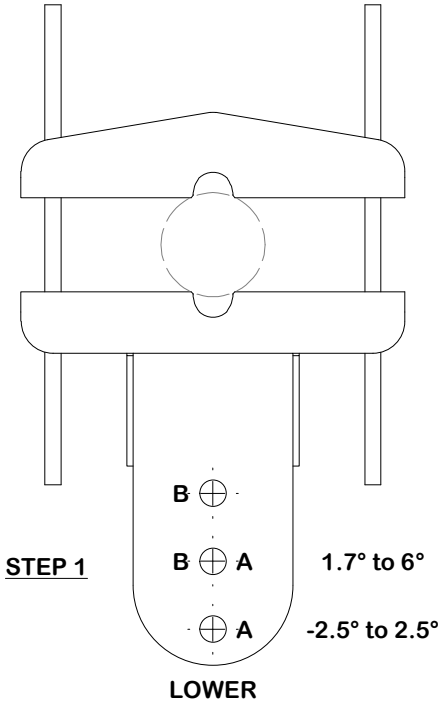
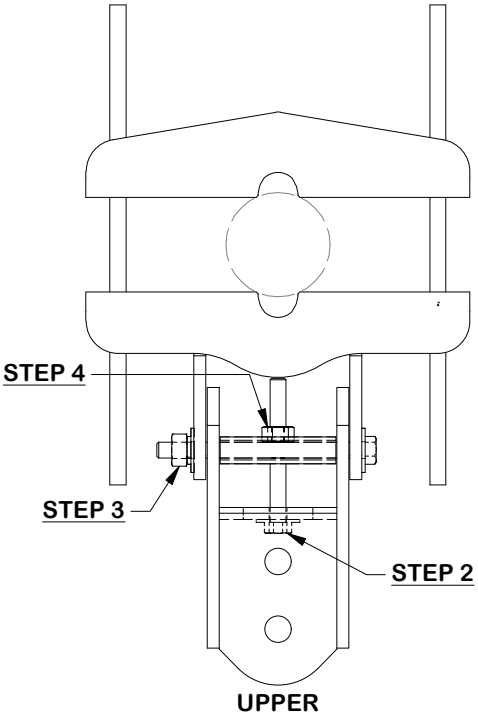


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PART NO.	BCAM-SD
DWG. NO.	VFA12-SD

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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12'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

CPD NO.
SP1

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ADB 5/7/2025

ENG. APPROVAL
6/12/2025

CLASS
87

SUB
02

DRAWING USAGE
CUSTOMER

CHECKED BY
CSL 6/12/2025



Engineering
Support Team:
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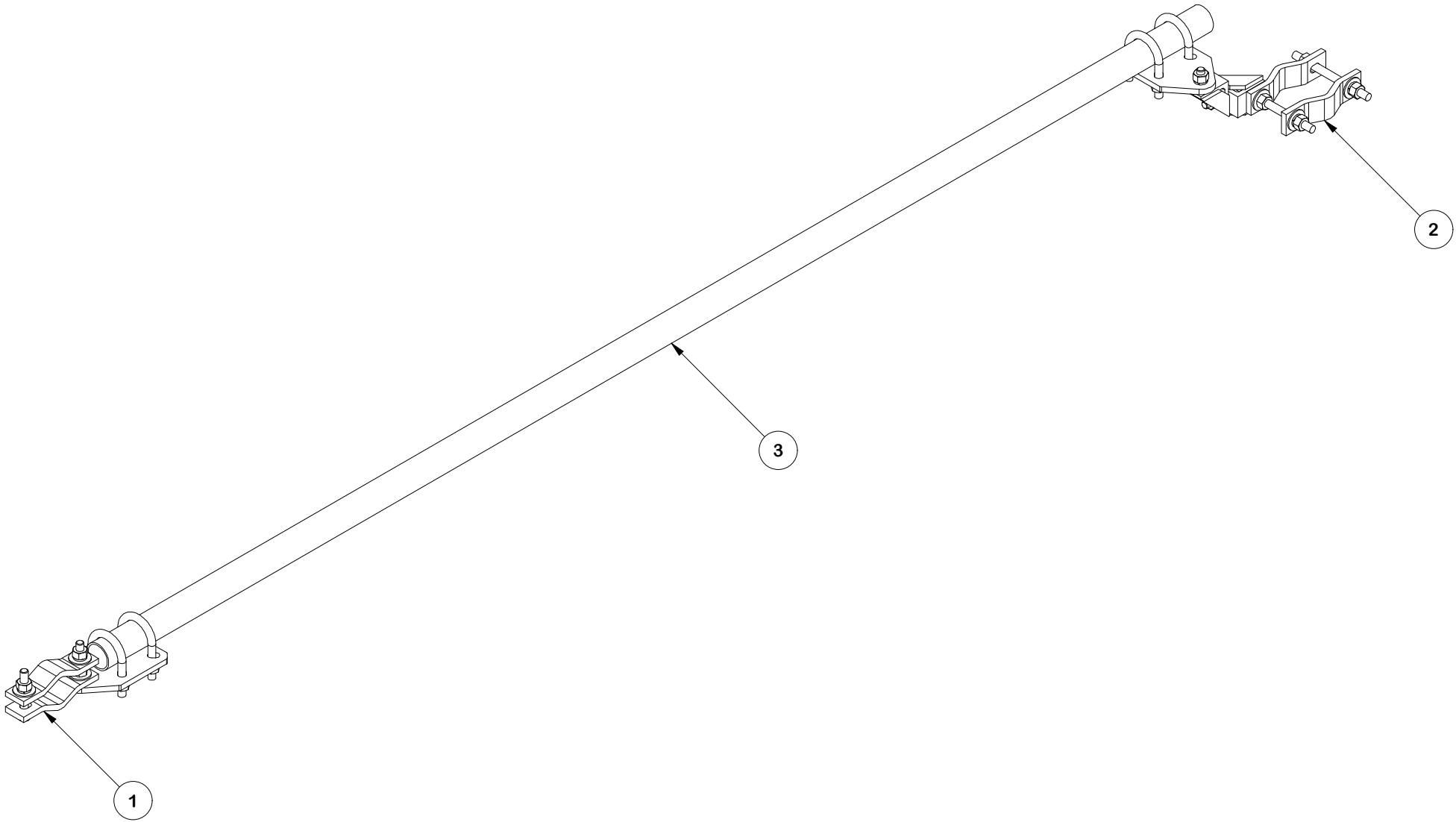
PART NO.

BCAM-SD

DWG. NO.

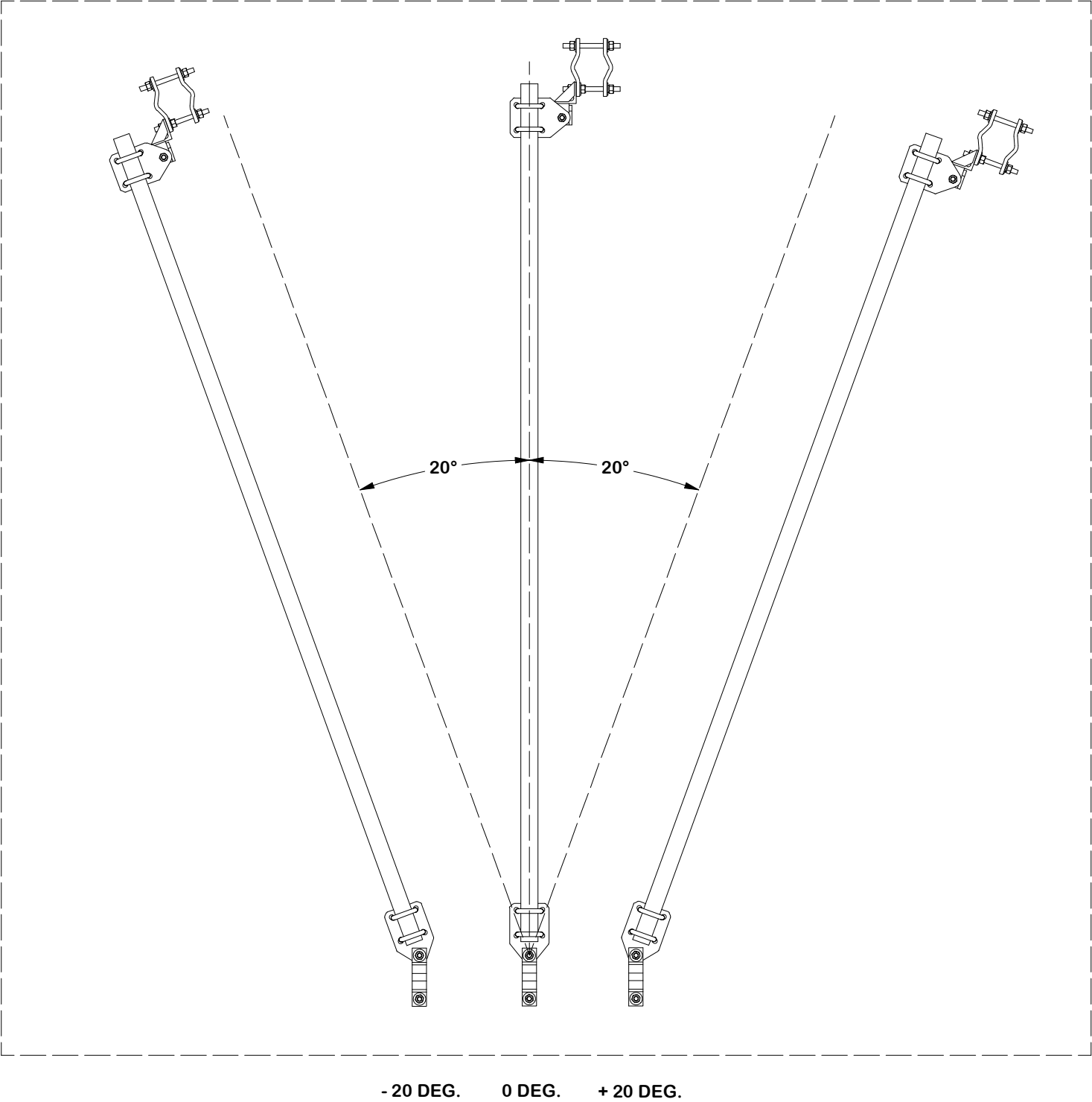
VFA12-SD

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

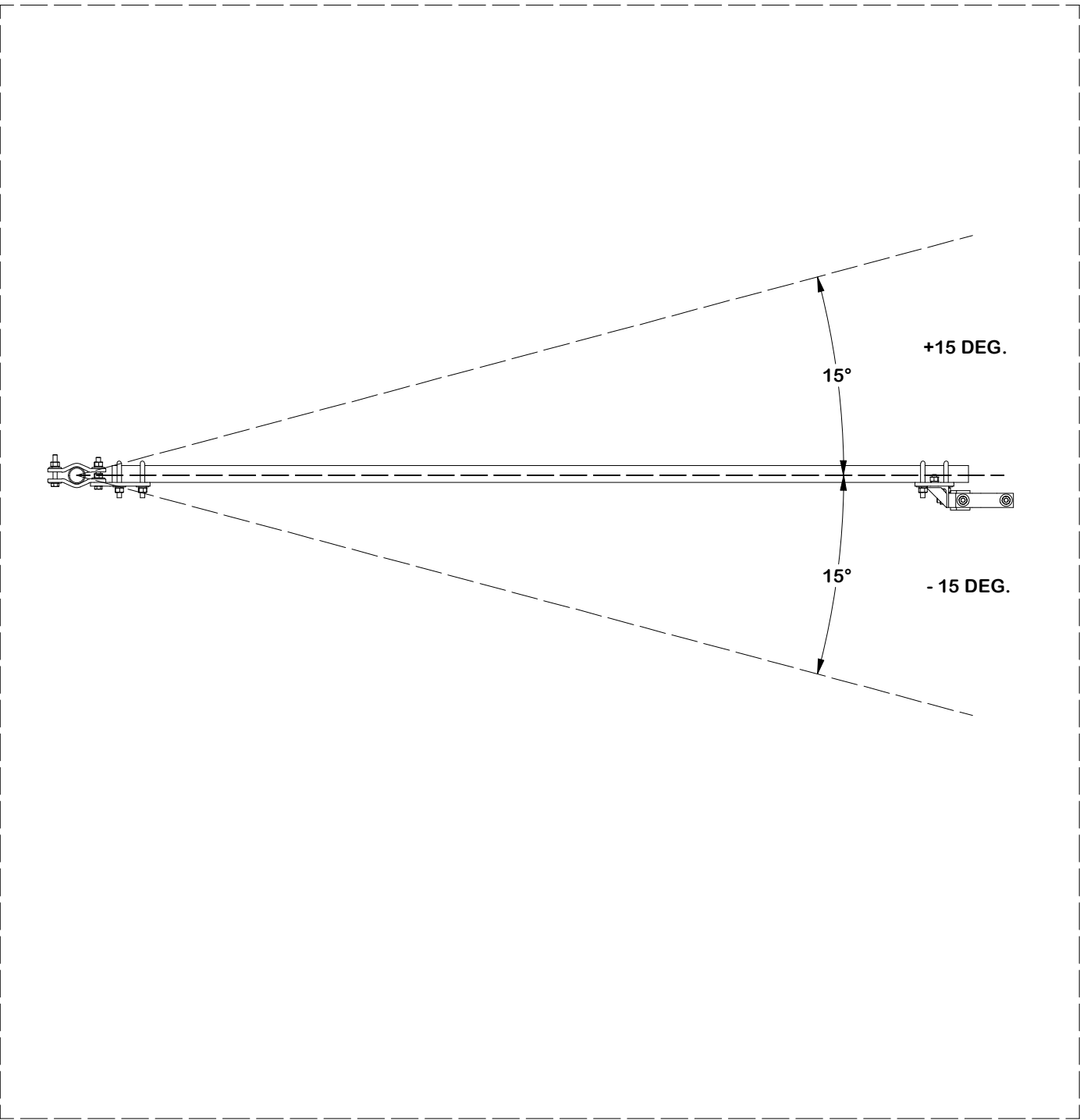


					TOLERANCE NOTES		DESCRIPTION 12'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 2 STIFF ARMS			SITE PRO 1 Engineering Support Team: sp1engineering@valmont.com A valmont  COMPANY									
A	REVISED DRAWING & UPDATED X-SPTB TO X-SPTB-U				SP1	ADB	8/8/2024	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CPD NO. SP1		DRAWN BY ADB 5/7/2025		ENG. APPROVAL 6/12/2025		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 CSL 6/12/2025		DWG. NO. VFA12-SD		
REVISION HISTORY																			

RECOMMENDED HORIZONTAL ADJUSTMENT



RECOMMENDED VERTICAL ADJUSTMENT



TOLERANCE NOTES

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DESCRIPTION

12'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

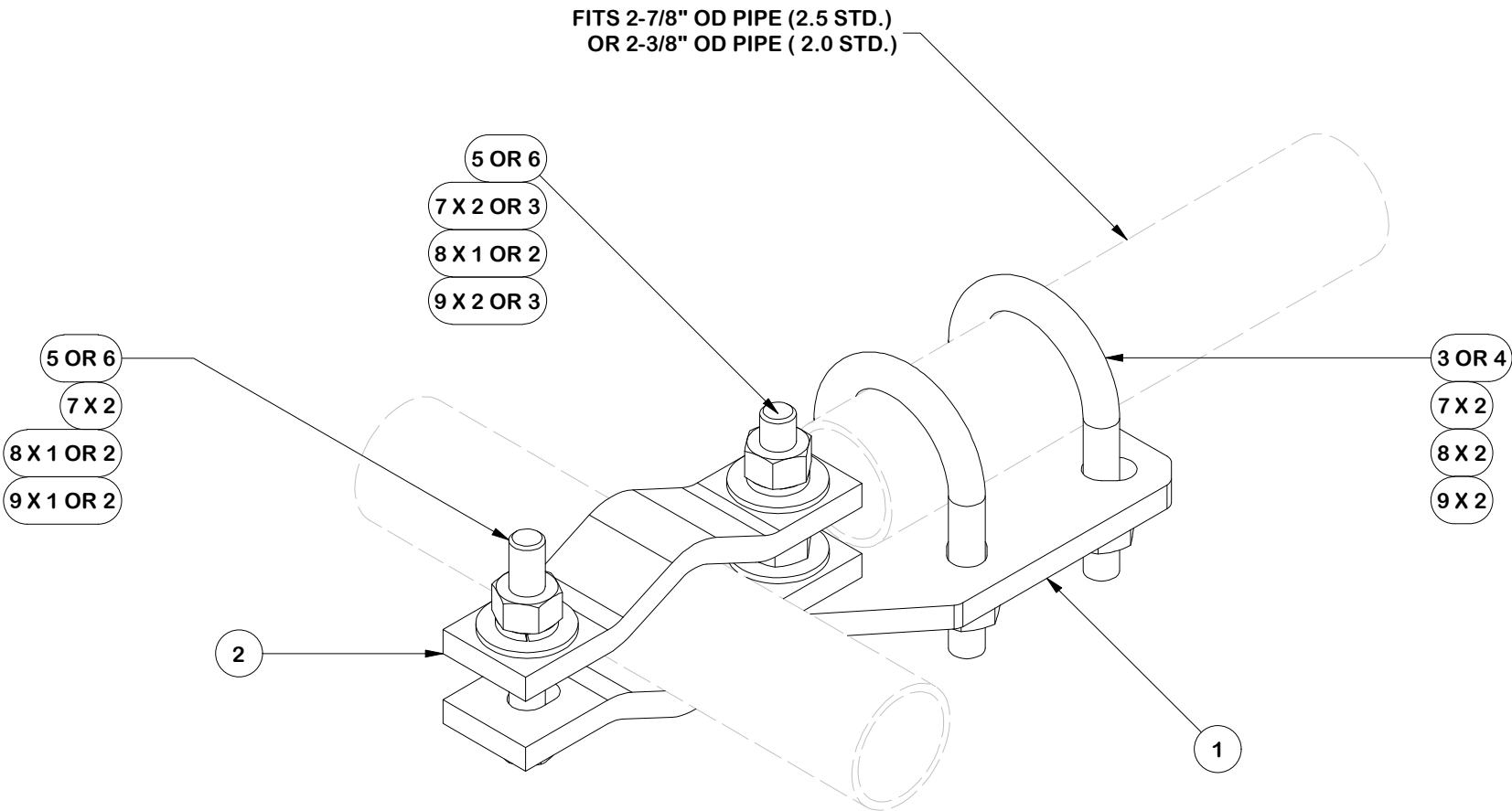
CPD NO. SP1		DRAWN BY ADB 5/7/2025	ENG. APPROVAL 6/12/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/12/2025



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PART NO. SPTB	9 OF 15 PAGE
DWG. NO. VFA12-SD	

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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V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

CPD NO.

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CLASS

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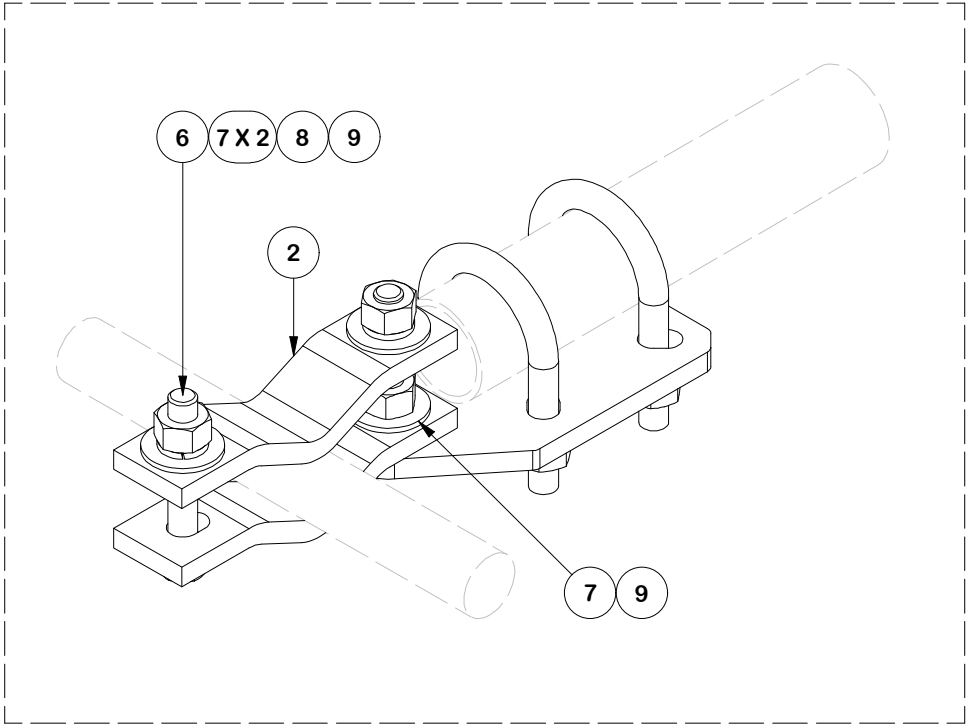
PART NO.

SPTB-U-F

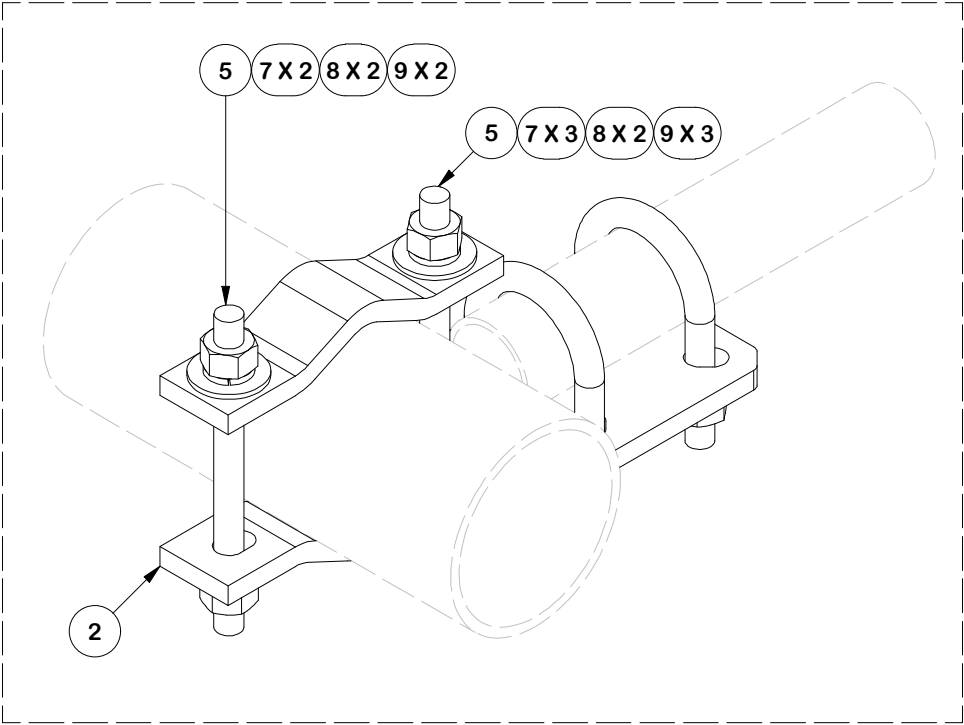
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VFA12-SD

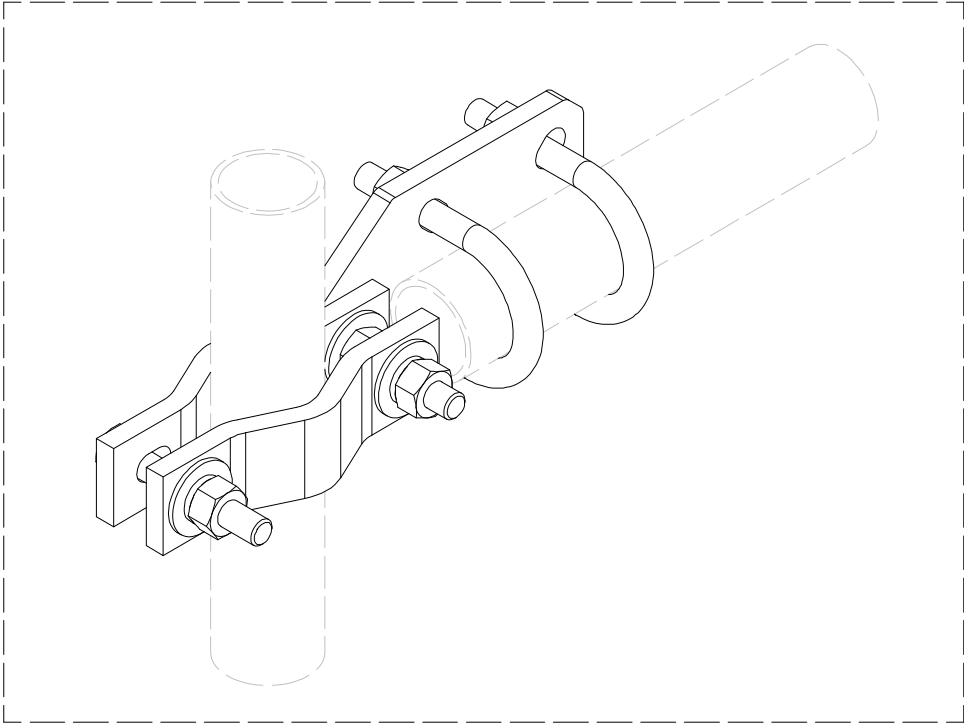
FRONT FACE CONFIGURATIONS



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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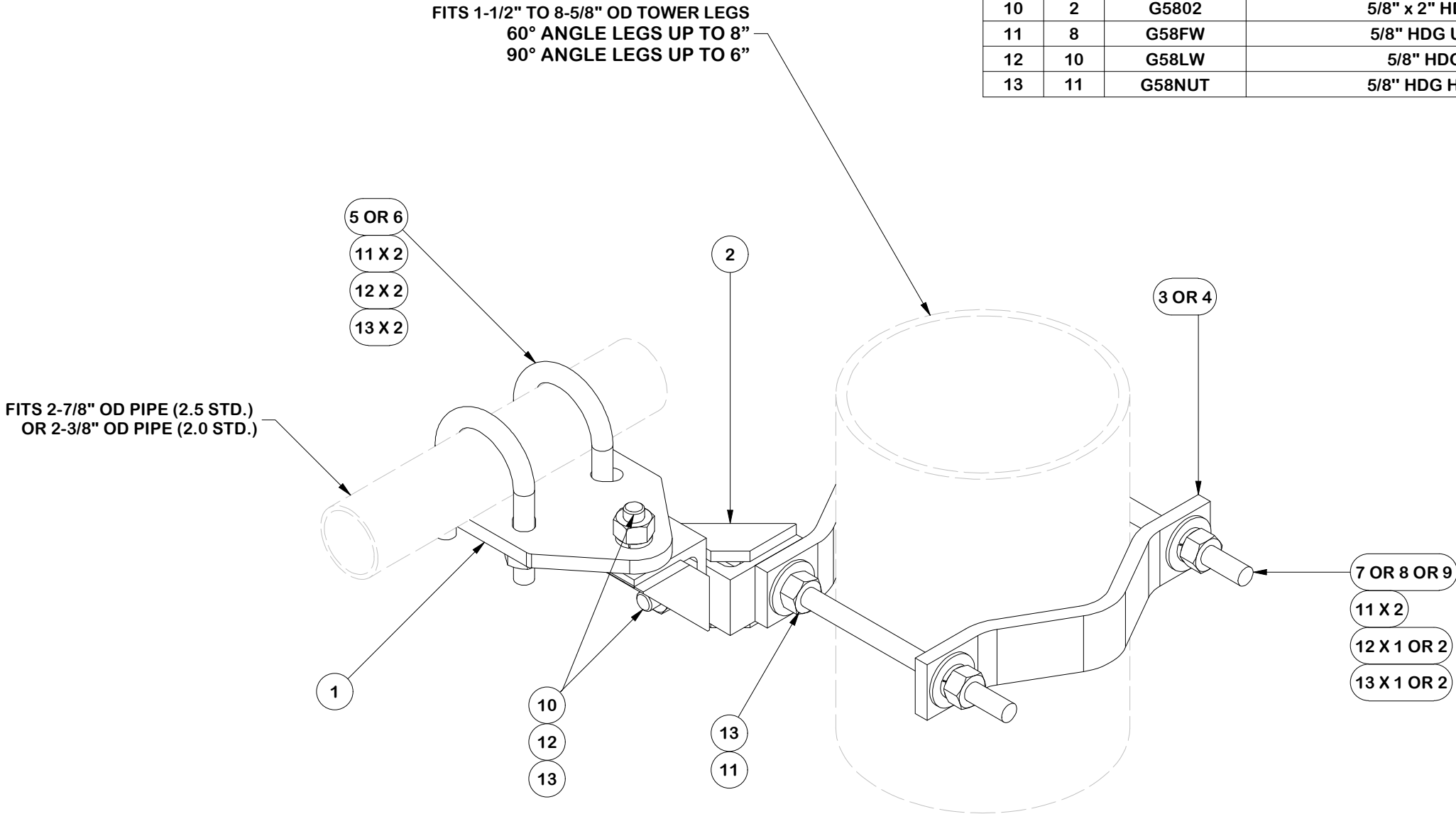
PART NO.

SPTB-U-F

DWG. NO.

VFA12-SD

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" CNTR 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

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ALL OTHER ASSEMBLY (± 0.060")

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DESCRIPTION

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V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

CPD NO.

SP1

DRAWN BY

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5/7/2025

ENG. APPROVAL

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CLASS

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SUB

02

DRAWING USAGE

CUSTOMER

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Engineering
Support Team:
sp1engineering@valmont.com

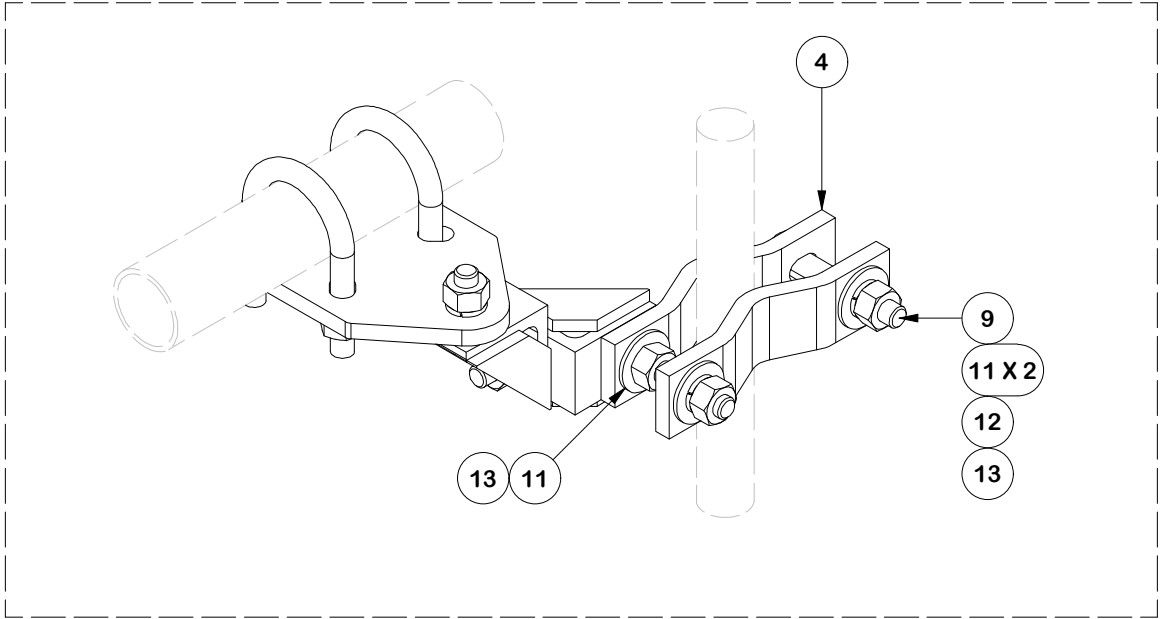
PART NO.

SPTB-U-B

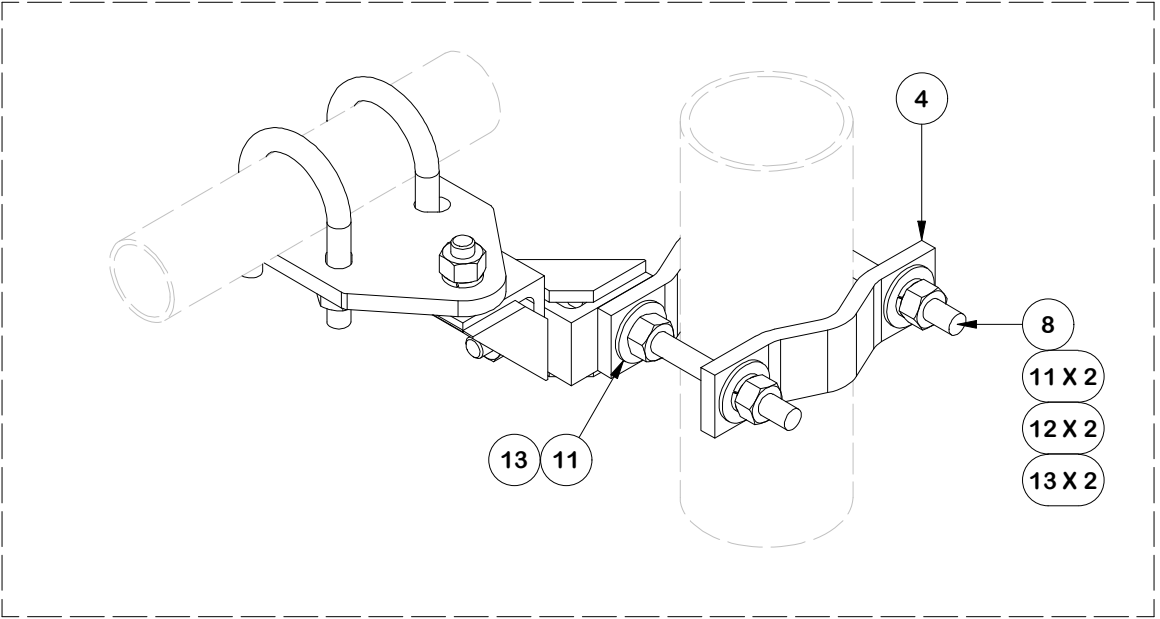
DWG. NO.

VFA12-SD

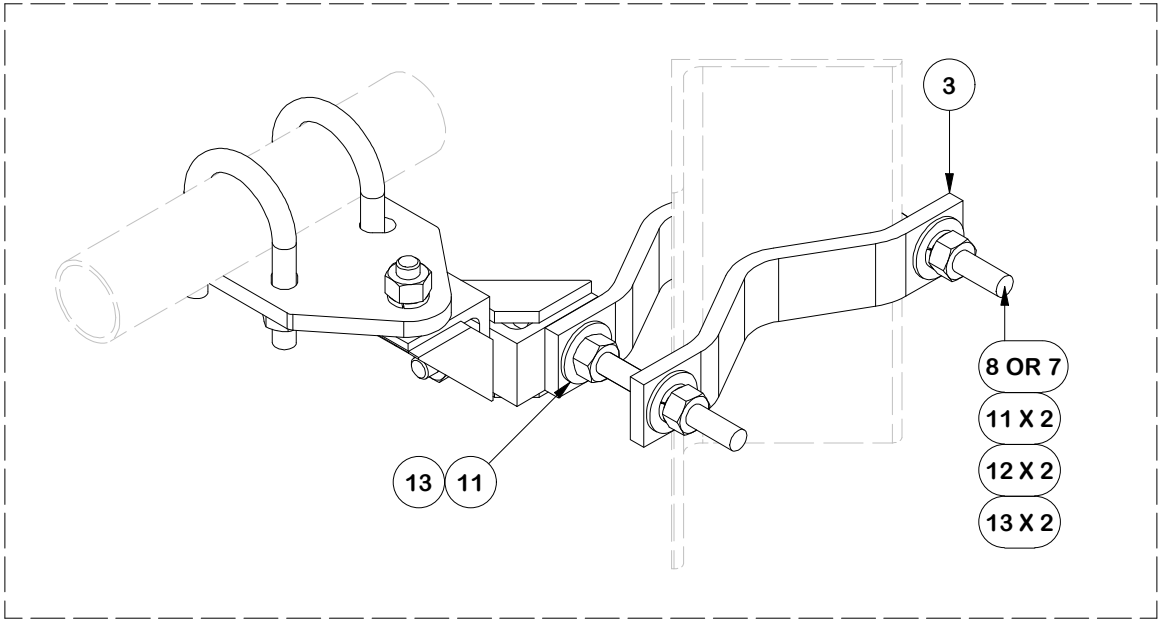
TOWER LEG CONFIGURATIONS



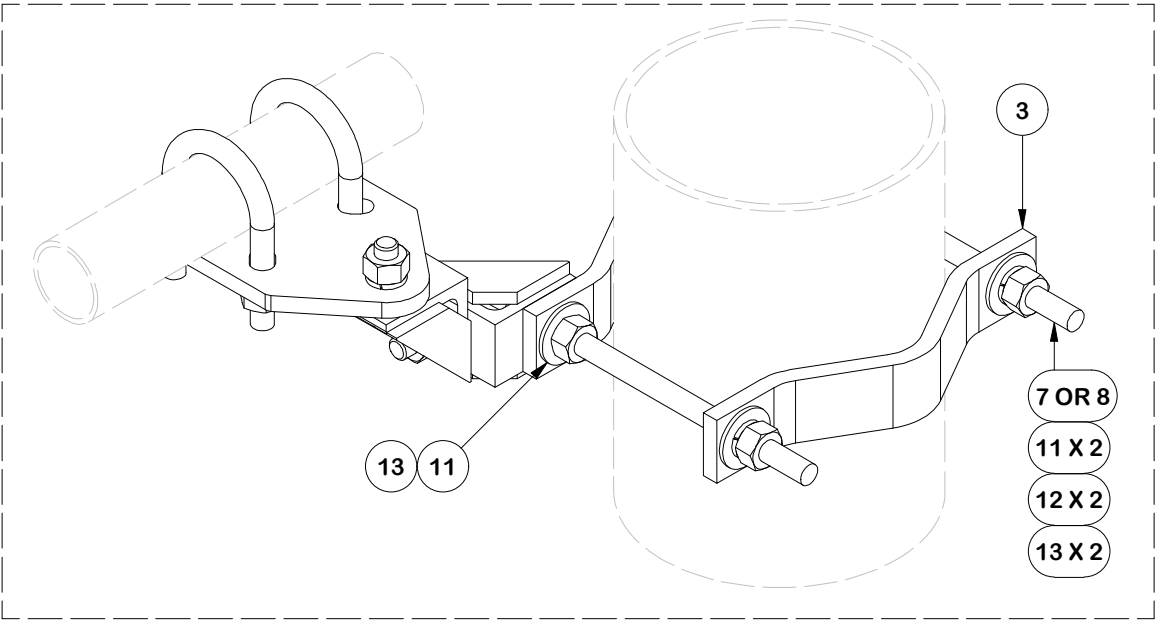
SMALL LEGS 1-1/2" TO 2-3/8"
NOTE: FLIP HALF BACK CLAMP



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 (± 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:
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

12'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 2 STIFF ARMS

CPD NO.

SP1

DRAWN BY

ADB 5/7/2025

ENG. APPROVAL

6/12/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

CSL 6/12/2025



A valmont COMPANY

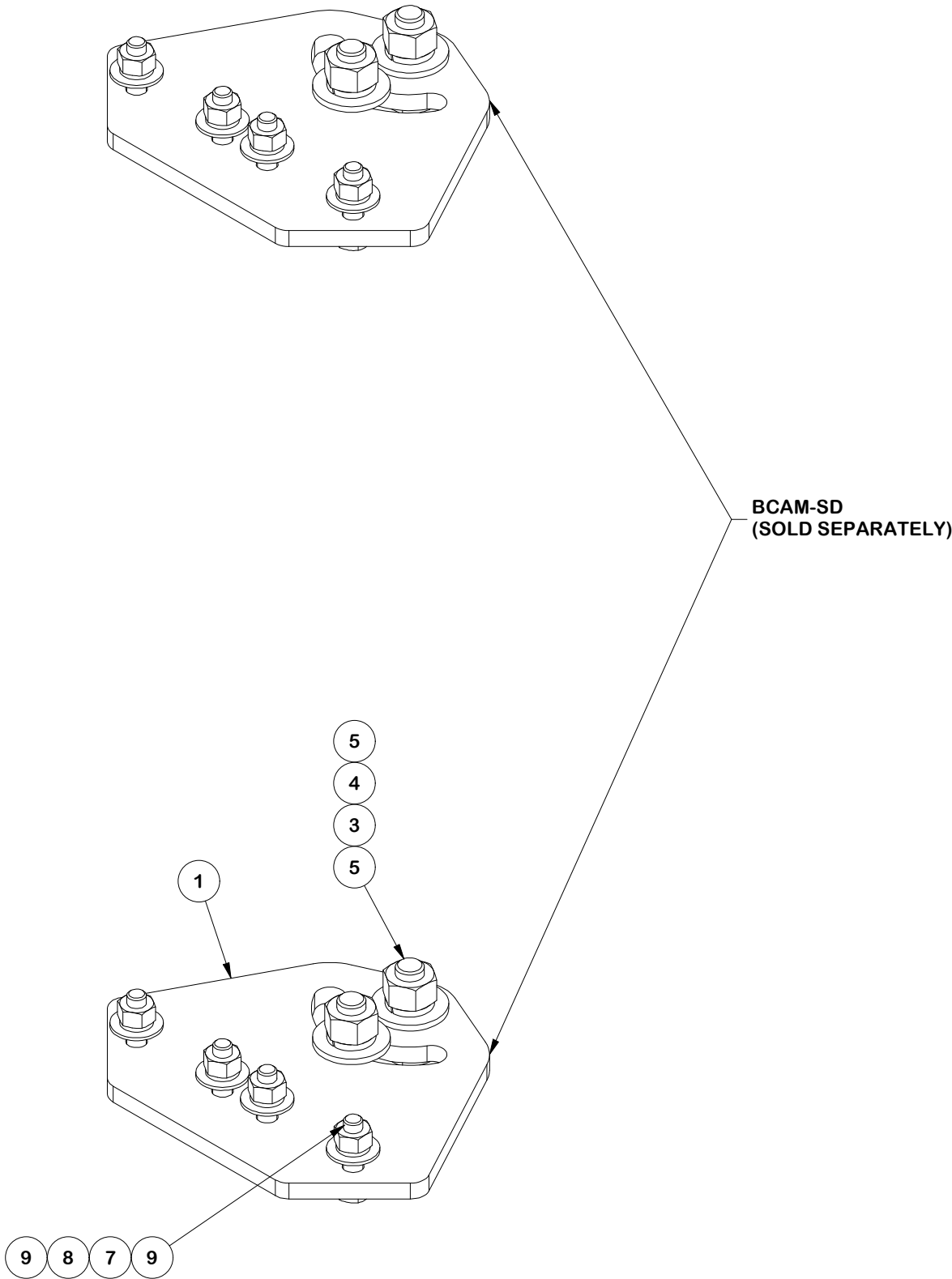
Engineering
Support Team:
sp1engineering@valmont.com

PART NO.

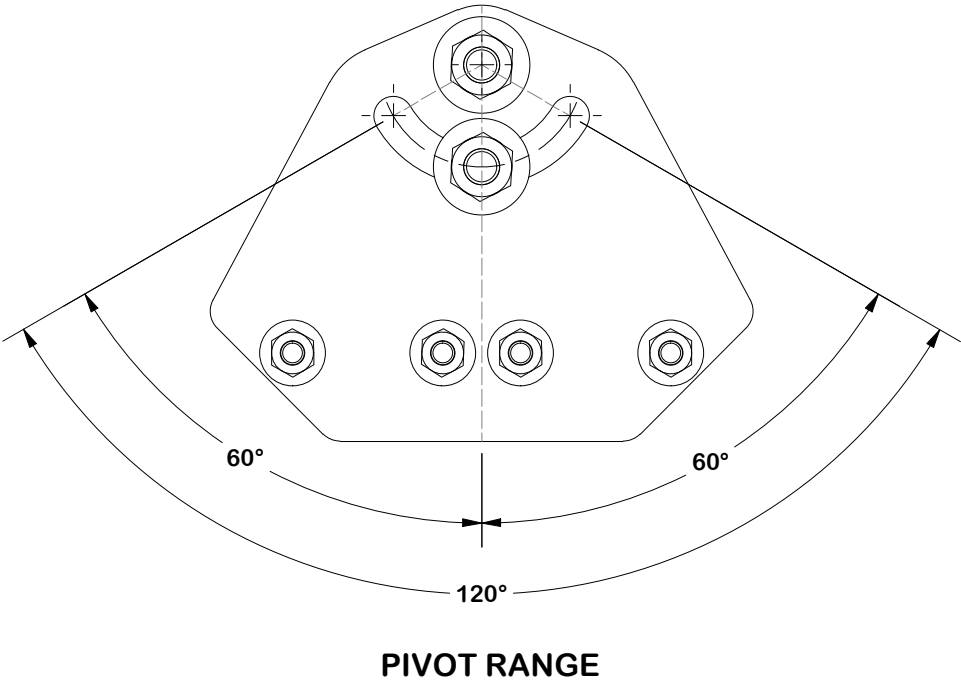
SPTB-U-B

DWG. NO.

VFA12-SD



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-SDPP	PIVOT PLATE	11 1/16 in	9.09	18.18
2	4	A34214	3/4"-10 X 2-1/4" A325 BOLT	2 1/4 in	0.47	1.89
3	4	G34FW	3/4" HDG USS FLATWASHER		0.13	0.53
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	G1202	1/2" x 2" HDG HEX BOLT GR5	2 in	0.18	1.41
7	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
8	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
9	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT	7/8 in	0.07	0.57
TOTAL WT. #						23.69

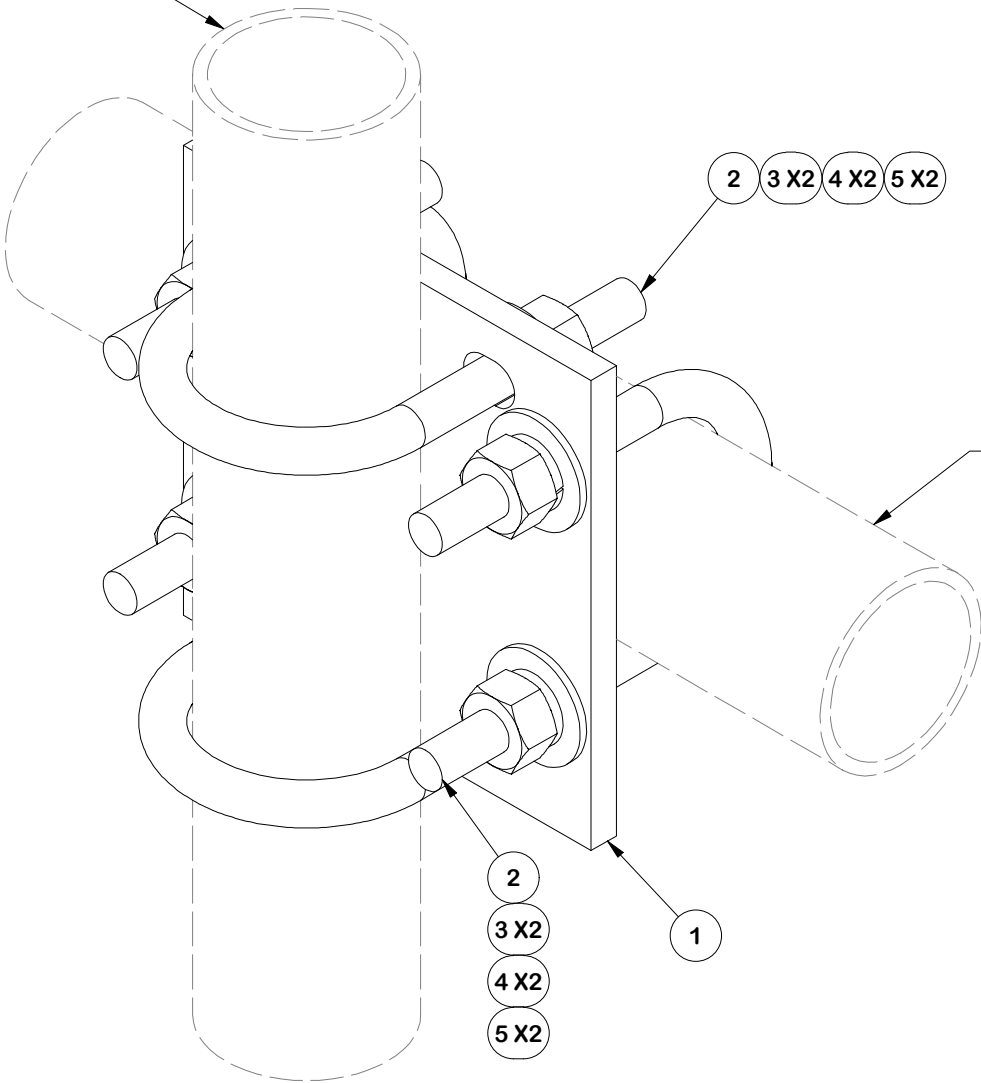


FINISH:
HOT DIP GALVANIZED.

					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 12'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 2 STIFF ARMS			SITE PRO 1 A valmont  COMPANY Engineering Support Team: sp1engineering@valmont.com												
							CPD NO. SP1		DRAWN BY ADB 5/7/2025		ENG. APPROVAL 6/12/2025		PART NO. SDPP-K									
A	ADDED PIVOT RANGE TO DRAWING				SP1	ADB	6/20/2025		PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CLASS 87		SUB 02		DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/12/2025		DWG. NO. VFA12-SD		14 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.													
REVISION HISTORY																						

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)

					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 12'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 2 STIFF ARMS				SITE PRO 1 A valmont  COMPANY Engineering Support Team: sp1engineering@valmont.com					
							CPD NO. SP1		DRAWN BY ADB 5/7/2025		ENG. APPROVAL 6/12/2025		PART NO. SCX1-K		15 OF 15 PAGE	
A	ADDED MISSING U-BOLT AND HRDWE			SP1	KC8	7/5/2012	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS		CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/12/2025			DWG. NO. VFA12-SD
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.									
REVISION HISTORY																