

FIREM				PARTS LIST			
2 1 X-SDCAMDS DIAGONAL SLOT WELDMENT FOR BCAM 13.57 13.57 3 1 X-MHTP MULTI-HOLE TAPER PLATE WELDMENT 15.65 15.65 4 2 X-233792 PIVOT PLATE 11 11/16 in 9.09 18.18 5 2 X-LCBB LEG CONNECTION BACKING BRACKET 12 in 9.41 18.82 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 8.48 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 9 2 X-TBCA TIE BACK CLIP ANGLE 6 in 3.71 2.967 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP	ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
3 1 X-MHTP MULTI-HOLE TAPER PLATE WELDMENT 15.65 15.65 4 2 X-233792 PIVOT PLATE 11 1/16 in 9.09 18.18 5 2 X-LCBB LEG CONNECTION BACKING BRACKET 12 in 9.41 18.82 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 8.48 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 1-1-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P2150 2-3/8" 0.D. X 150" SCH 40 GALVANIZED PIPE	1	2	X-VFASD	SUPPORT ARM FOR STANDARD DUTY V-FRAME ASSEMBLY		45.34	90.69
4 2 X-233792 PIVOT PLATE 11 1/16 in 9.09 18.18 5 2 X-LCBB LEG CONNECTION BACKING BRACKET 12 in 9.41 18.82 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.67 11.74 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX1 CROSSOVER PLATE 2-3/8" X-2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P2150 2-3/8" O.X 1-50" SCH 40 GALVANIZED PIPE 150 in 45.77 91.54 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	2	1	X-SDCAMDS	DIAGONAL SLOT WELDMENT FOR BCAM		13.57	13.57
5 2 X-LCBB LEG CONNECTION BACKING BRACKET 12 in 9.41 18.82 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.79 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 7.19 13 2 P2150 2-3/8" X 126" CSCH. 40) GALVANIZED PIPE 150 in 45.77 91.54 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 2 A34214 3/4" 10X 24" AV	3	1	X-MHTP	MULTI-HOLE TAPER PLATE WELDMENT		15.65	15.65
6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP LLAMP ALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 11/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 lin 2.36 9.45 13 2 P2150 2-3/8" X 150" SCAL	4	2	X-233792	PIVOT PLATE 1		9.09	18.18
7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P2150 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 150 in 45.75 91.54 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 150 in 40.75 40.75 15 2 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 0.95 16 2 G34LW 3/4" HDG HCXV WASHER 0.04 0.09 17 2 G34NUT 3/4" THREADED ROD (HDG.) <td>5</td> <td>2</td> <td>X-LCBB</td> <td>LEG CONNECTION BACKING BRACKET</td> <td>12 in</td> <td>9.41</td> <td>18.82</td>	5	2	X-LCBB	LEG CONNECTION BACKING BRACKET	12 in	9.41	18.82
8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P2150 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 150 in 45.77 91.54 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 2 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 0.95 16 2 G34LW 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" X 12" THREADED ROD (HDG.) 1.05 <td>6</td> <td>1</td> <td>X-SDCAMSS</td> <td>STRAIGHT SLOT WELDMENT FOR BCAM</td> <td></td> <td>8.48</td> <td>8.48</td>	6	1	X-SDCAMSS	STRAIGHT SLOT WELDMENT FOR BCAM		8.48	8.48
9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 2 MCP CLAMP HALF 1/2" THICK, 1-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P2150 2-3/8" COLX 150" SCH 40 GALVANIZED PIPE 150 in 45.77 91.54 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 2 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 0.95 16 2 G34LW 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG HEAV 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" x 2-5/8" x 4-1/2" x 2" -1/2"	7	2	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	11.74
10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67	8	1	X-SDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM		1.43	1.43
11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P2150 2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE 150 in 45.77 91.54 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 2 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 0.95 16 2 G34LW 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 0.70 1.39 19 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 20 4 X-UBS258 5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.27 0.54<	9	2	X-TBCA	TIE BACK CLIP ANGLE		2.01	4.01
12	10	8	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6 in	3.71	29.67
13 2 P2150 2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE 150 in 45.77 91.54 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 2 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 0.95 16 2 G34LW 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 19 2 G58R-8 5/8" x 2" THREADED ROD (HDG.) 0.70 1.39 20 4 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" x 2" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG LOCKWASHER 1/8 in 0.07 0.70 24	11	2	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	7.19
14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 2 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 0.95 16 2 G34LW 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 19 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 20 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" X 4" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG LOCKWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 1/8 in 0.07 0.70 25 18 G58	12	4	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	9.45
15 2 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 0.95 16 2 G34LW 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 19 2 G58R-8 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 0.70 1.39 20 4 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15	13	2	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	91.54
16 2 G34LW 3/4" HDG LOCKWASHER 0.04 0.09 17 2 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 19 2 G58R-8 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 0.70 1.39 20 4 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 0.03 0.42 25 18 G58NUT 5/8" HDG HEAV 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" x 2-1/2" x 4-1/2" x 2" GALV. U-BOLT <td>14</td> <td>1</td> <td>P2126</td> <td>2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE</td> <td>126 in</td> <td>40.75</td> <td>40.75</td>	14	1	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	40.75
17 2 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.42 18 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 19 2 G58R-8 5/8" x 2" THREADED ROD (HDG.) 0.70 1.39 20 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" X 2" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG LOCKWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 4-1/5" HDG HEX BOLT GR5	15	2	A34214	3/4"-10 X 2-1/4" A325 BOLT	2 1/4 in	0.47	0.95
18 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 19 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 20 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" x 2" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045<	16	2	G34LW	3/4" HDG LOCKWASHER		0.04	0.09
19 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 20 4 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 0.03 0.42 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" x 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4-5" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85	17	2	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.42
20 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 21 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 0.03 0.42 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36	18	2	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	2.09
21 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 0.03 0.42 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG HEX BOLT GR5 1/8 in 0.01	19	2	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	1.39
22 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 0.03 0.42 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07	20	4	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	4.00
23 10 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 0.70 24 16 G58LW 5/8" HDG LOCKWASHER 0.03 0.42 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE	21	4	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	1.78
24 16 G58LW 5/8" HDG LOCKWASHER 0.03 0.42 25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	22	2	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	0.54
25 18 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 2.34 26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	23	10	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.70
26 8 G12R-15 1/2" x 15" GALV. THREADED ROD 0.84 6.69 27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	24	16	G58LW	5/8" HDG LOCKWASHER		0.03	0.42
27 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.63 28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	25	18	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	2.34
28 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 6 1/2 in 0.41 0.82 29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	26	8	G12R-15	1/2" x 15" GALV. THREADED ROD		0.84	6.69
29 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	27	36	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	23.63
30 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	28	2	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	0.82
31 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	29	1	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	0.30
32 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	30	8	G1202	1/2" x 2" HDG HEX BOLT GR5	2 in	0.18	1.41
33 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	31	85	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.90
34 4 P2120 2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE 120 in 36.61 146.46	32	98	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	1.36
	33	99	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	7.09
TOTAL WT. # 566.53	34	4	P2120	2-3/8" x 120" (2" SCH. 40) GALAVANIZED PIPE	120 in	36.61	146.46
						TOTAL WT. #	566.53

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 ARE ± 1/2 DEGREE

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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.

12'-6" STANDARD DUTY
V-FRAME ASSEMBLY
W/ 1 STIFF ARMS &
MOUNT PIPES



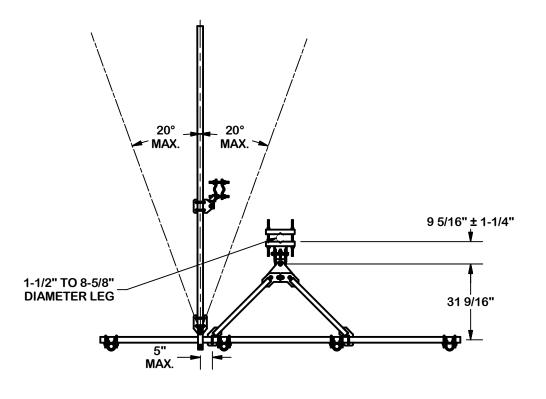
Engineering Support Team: 1-888-753-7446

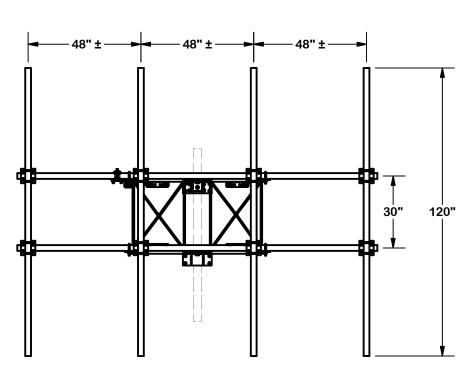
Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

	000 11	_	500 45550741					
	CPD NO.		DRAWN BY		ENG. APPROVAL		PA	
	SP1		Cel	6/22/2017				
	Or.	- 1	CSL	0/22/2017				
	CLASS	SUB	DRAWING	USAGE	CHECKED BY	1	DW	
•			۔م					
	87	02	I CUS	STOMER	IBMC	5/3/2018		
	-							

VFA12-H5-2120 WG. NO.

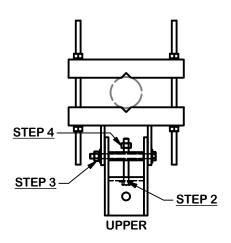
VFA12-H5-2120

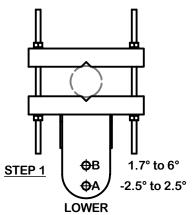


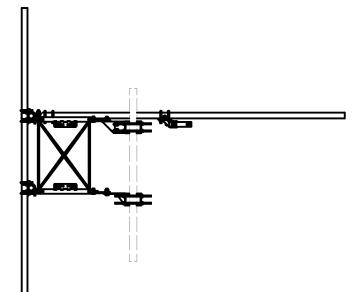


ANGLE CALIBRATING PROCEDURE:

- 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 75 ft.-lbs.
- 4. ADVANCE LOCKING NUT TO POSITIONING PLATE, THEN TIGHTEN.







TOLERANCE NOTES

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

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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

DESCRIPTION 12'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 1 STIFF ARMS & **MOUNT PIPES**



Engineering Support Team: 1-888-753-7446

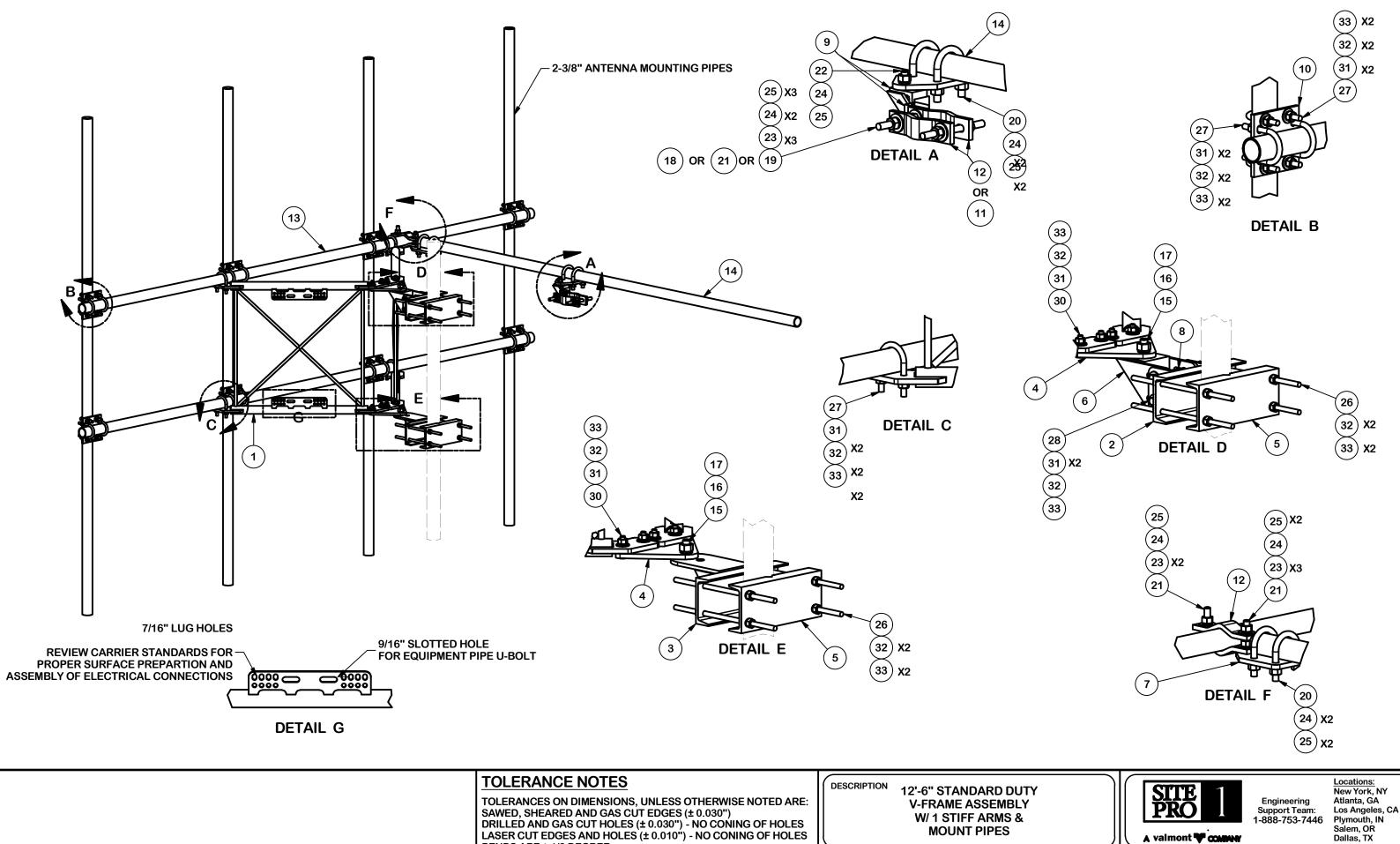
New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX

CPD NO.		DRAWN BY		ENG. APPROVAL		PART NO.		
0. 2								
SP1		CSL	6/22/2017					
OF I		USL	0/22/2017					
CLASS	SUB	DRAWING	USAGE	CHECKED B	Υ	DWG. NO.		
			_	_				
87 I	02		STOMER	BMC	5/3/2018			
0,	02				3/3/2010			

VFA12-H5-2120

VFA12-H5-2120

OF PAGE



BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060") 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.

ENG. APPROVAL

$\overline{}$				
PD N	0.	DRAWN BY		
SF	21	CSL 6/22/201		
ASS	SUB	DRAWIN	G USAGE	

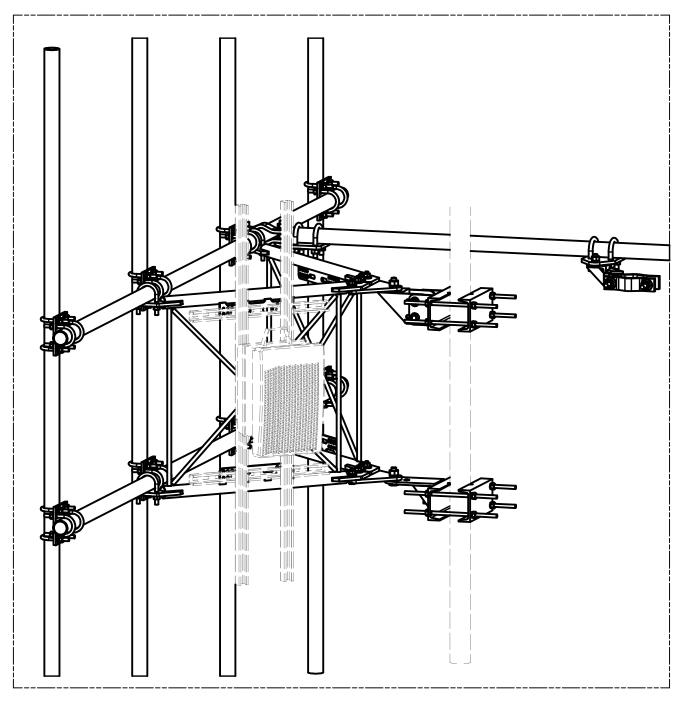
87

02

VFA12-H5-2120

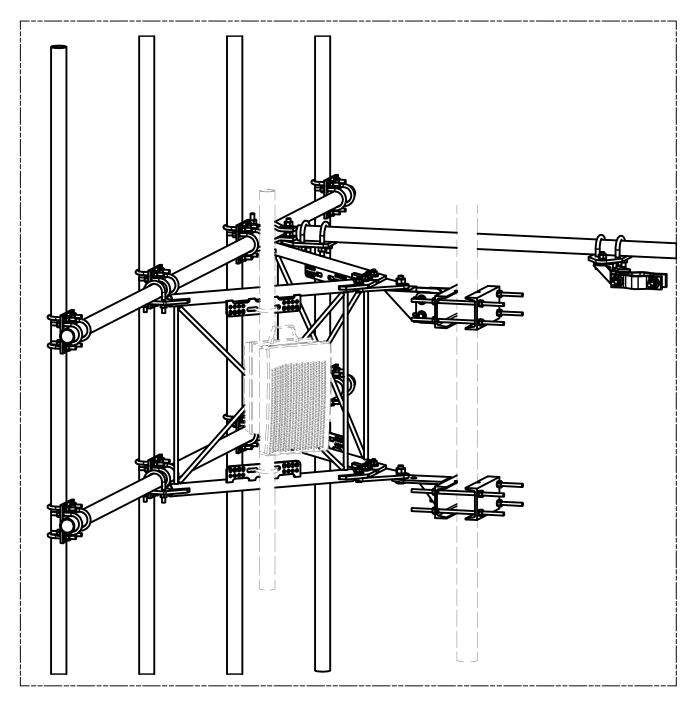
OF PAGE

DWG. NO. **CHECKED BY** VFA12-H5-2120 **CUSTOMER BMC** 5/3/2018



UNISTRUT AND HARDWARE **SOLD SEPARATELY.**

REQUIRES 3/8" HARDWARE



EQUIPMENT PIPE AND HARDWARE SOLD SEPARATELY.

REQUIRES 1/2" HARDWARE AND 2-3/8" AND 4-1/2" O.D. PIPE

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 ARE ± 1/2 DEGREE

ALL OTHER MACHINING (± 0.030")

ALL OTHER ASSEMBLY (± 0.060")

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.

12'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 1 STIFF ARMS &

MOUNT PIPES

A valmont T COMMANY

Engineering Support Team: 1-888-753-7446

VFA12-H5-2120

VFA12-H5-2120

Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX

CPD NO.		DRAWN BY		ENG. APPROVAL		PART NO
0. 5				1 -110.711 1 110 1712		
SP1		CSL	6/22/2017			
3P1		LOSE	0/22/2017			
CL ASS	SUB	DRAWING	USAGE	CHECKED B	Υ	DWG. NO
102,100	1 000	J	00/102	011201122	•	J O. 110
07	02		TOMED	DMA	E1010040	
l 87	UZ	ı CUS	TOMER	BMC	5/3/2018	