

TEM QTY PART NO. PART DESCRIPTION LENGTH UNIT WT. NET WT.	\top			PARTS LIST			
2 1 X-SDTFLB DIAGONAL SLOT WELDMENT FOR BCAM SD 15.08 15.08 3 1 X-SDMHTP MULTI-HOLE TAPER PLATE WELDMENT 16.63 16.63 4 2 X-SDPP PIVOT PLATE 1111/16 in 9.09 18.18 5 2 X-LGBP2 BENT BACKING PLATE 12 in 8.86 17.73 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 9 4 X-TBCA TIE BACK CLIP ANGLE 6 in 1.43 1.43 9 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.	ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
3 1 X-SDMPTP MULTI-HOLE TAPER PLATE WELDMENT 16.63 16.63 4 2 X-SDPP PIVOT PLATE 11 1/16 in 9.09 18.18 5 2 X-LCBP2 BENT BACKING PLATE 12 in 8.86 17.73 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 8.48 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 9 4 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 1-1-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 <	1	2	X-VFASD	SUPPORT ARM FOR STANDARD DUTY V-FRAME ASSEMBLY		45.34	90.69
4 2 X-SDPP PIVOT PLATE 11 1/16 in 9.09 18.18 5 2 X-LCBP2 BENT BACKING PLATE 12 in 8.86 17.73 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 8.48 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 9 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 10 8 SCX1 CROSSOVER PLATE 2-3/8" X-2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 2-3/8" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 14 4 344 3/4" 10 X-14/4"	2	1	X-SDTFLB	DIAGONAL SLOT WELDMENT FOR BCAM SD		15.08	15.08
5 2 X-LCBP2 BENT BACKING PLATE 12 in 8.86 17.73 6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 9 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 150 in 45.77 91.54 14 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 <td< td=""><td>3</td><td>1</td><td>X-SDMHTP</td><td>MULTI-HOLE TAPER PLATE WELDMENT</td><td></td><td>16.63</td><td>16.63</td></td<>	3	1	X-SDMHTP	MULTI-HOLE TAPER PLATE WELDMENT		16.63	16.63
6 1 X-SDCAMSS STRAIGHT SLOT WELDMENT FOR BCAM 8.48 8.48 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 9 4 X-TECA TIE BACK CLIP ANGLE 2.01 8.02 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 150 in 45.77 91.54 14 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 3/4" 10X GUSASHER 0.06 0.24 16 4 G34FW 3/4" HDG USS FLATWASHER </td <td>4</td> <td>2</td> <td>X-SDPP</td> <td>PIVOT PLATE</td> <td>11 1/16 in</td> <td>9.09</td> <td>18.18</td>	4	2	X-SDPP	PIVOT PLATE	11 1/16 in	9.09	18.18
7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 9 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 2-3/8" X 126" CSC 4.40 GALVANIZED PIPE 150 in 45.77 91.54 14 2 P2126 2-3/8" X 126" (2" SCH.40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 3/4" HDG USS FLATWASHER 0.06 0.24 16 4 G34HW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34HWI 3/4" HDG LOCKWASHER 0	5	2	X-LCBP2	BENT BACKING PLATE	12 in	8.86	17.73
8 1 X-SDCAMSP POSITIONING PLATE WELDMENT FOR BCAM 1.43 1.43 1.43 9 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 15-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE 150 in 45.77 91.54 14 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 3/4" HDG USS FLATWASHER 0.06 0.24 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 1" THREADED ROD (HDG.) 0.70	6	1	X-SDCAMSS	STRAIGHT SLOT WELDMENT FOR BCAM		8.48	8.48
9 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 10 8 SCX1 CROSSOVER PLATE 2-3/8" X 2-3/8" 6 in 3.71 29.67 11 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE 150 in 45.77 91.54 14 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 1.89 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOSKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG LOSKWASHER 0.04 0.17 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 0.70 2.79<	7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
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 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 12 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 18.90 13 2 P2150 2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE 150 in 45.77 91.54 14 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 1.89 16 4 G34FW 3/4" HDG LOCKWASHER 0.06 0.24 17 4 G34LW 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 2" HREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.27	9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
12 8 DCP	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 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 1.89 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 2" HREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" x 2" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 <	11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
14 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 15 4 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 1.89 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG HEAVY 2H HEX NUT 0.01 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 2" HTREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" X 2" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" X 2" HDG HEX BOLT GR5 0.27 1.08 24 20	12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
15 4 A34214 3/4"-10 X 2-1/4" A325 BOLT 2 1/4 in 0.47 1.89 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG LOCKWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT	13	2	P2150	2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE	150 in	45.77	91.54
16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" x 2-5/8" x 4-4/2" x 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84	14	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" X 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" X 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" X 6-1/2" HDG HEX BOLT GR5 FULL THREAD <td>15</td> <td>4</td> <td>A34214</td> <td>3/4"-10 X 2-1/4" A325 BOLT</td> <td>2 1/4 in</td> <td>0.47</td> <td>1.89</td>	15	4	A34214	3/4"-10 X 2-1/4" A325 BOLT	2 1/4 in	0.47	1.89
18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" X 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" X 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" x 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5	16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
19 8 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 8.36 20 4 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" X 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" x 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045	17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
20 4 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 2.79 21 8 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USK SFLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" x 2-1/2" x 4-1/2" x 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31	18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
21 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 <t< td=""><td>19</td><td>8</td><td>G58R-12</td><td>5/8" x 12" THREADED ROD (HDG.)</td><td></td><td>1.05</td><td>8.36</td></t<>	19	8	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	8.36
22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41	20	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
23 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	21	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09 <	22	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
25 32 G58LW 5/8" HDG LOCKWASHER 0.03 0.83 26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" x 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	23	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
26 36 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 4.68 27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	24	20	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.41
27 8 G12R-15 1/2" x 15" THREADED ROD (HDG.) 0.84 6.69 28 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	25	32	G58LW	5/8" HDG LOCKWASHER		0.03	0.83
28 36 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT 0.66 23.86 29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	26	36	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	4.68
29 2 G12065 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD 5 1/2 in 0.41 0.82 30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEX WY 2H HEX NUT 0.07 7.09	27	8	G12R-15	1/2" x 15" THREADED ROD (HDG.)		0.84	6.69
30 1 G12045 1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD 4 1/2 in 0.30 0.30 31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	28	36	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" GALV. U-BOLT		0.66	23.86
31 8 G1202 1/2" x 2" HDG HEX BOLT GR5 2 in 0.18 1.41 32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	29	2	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	5 1/2 in	0.41	0.82
32 85 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.90 33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	30	1	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	0.30
33 98 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 1.36 34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	31	8	G1202	1/2" x 2" HDG HEX BOLT GR5	2 in	0.18	1.41
34 99 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 7.09	32	85	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.90
	33	98	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	1.36
TOTAL WT. # 513.97	34	99	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	7.09
						TOTAL WT. #	513.97

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")

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VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION

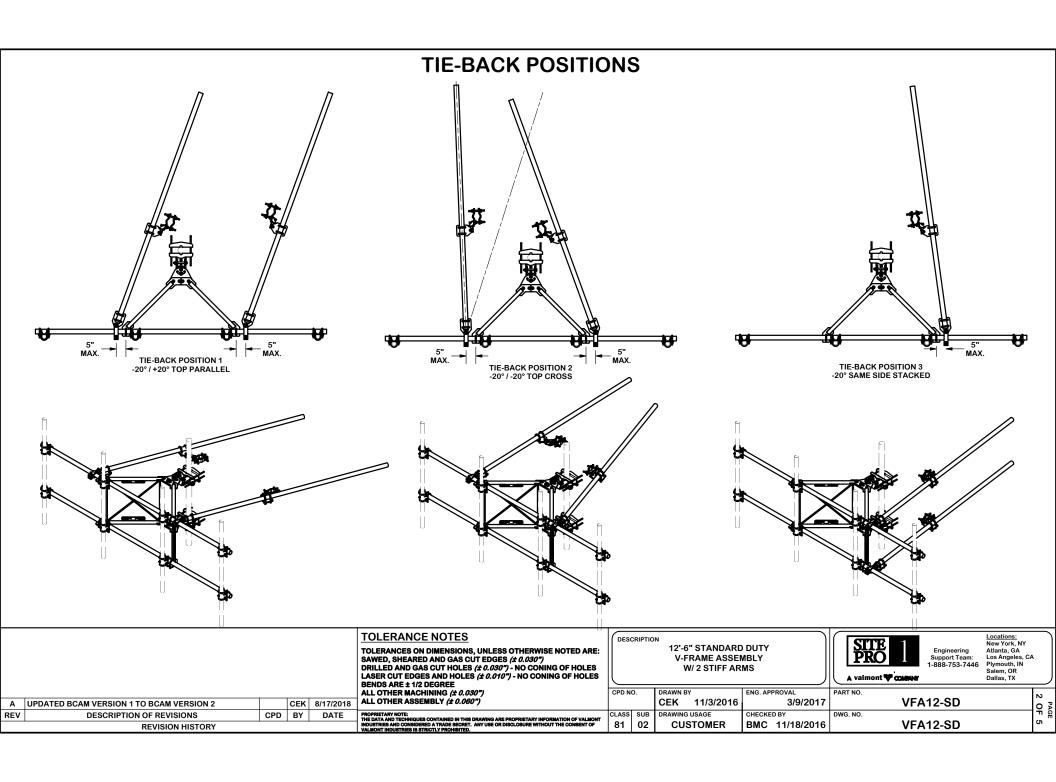
12'-6" STANDARD DUTY V-FRAME ASSEMBLY W/ 2 STIFF ARMS



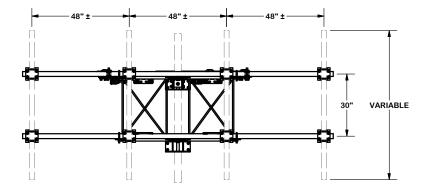
Engineering Atlanta, GA
Support Team: Locations:
New York, NY
Atlanta, GA
1-888-753-7446
Plymouth, IN
Salem, OR
Dallas, TX

CPD N	0.	DRAWN BY	1	ENG. APPR	ROVAL	PART NO.		_
		CEK	11/3/2016		3/9/2017	VFA12-SD		0 }
CLASS	SUB	DRAWING	USAGE	CHECKED	BY	DWG. NO.		TI G
81	02	CUS	STOMER	BMC 1	11/18/2016	VFA12-SD		5
	CLASS		CEK CLASS SUB DRAWING	CEK 11/3/2016 CLASS SUB DRAWING USAGE	CEK 11/3/2016 CLASS SUB DRAWING USAGE CHECKED	CEK 11/3/2016 3/9/2017 CLASS SUB DRAWING USAGE CHECKED BY	CEK 11/3/2016 3/9/2017 VFA12-SD CLASS SUB DRAWING USAGE CHECKED BY DWG. NO.	CEK 11/3/2016 3/9/2017 VFA12-SD CLASS SUB DRAWING USAGE CHECKED BY DWG. NO.

Α	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	8/17/2018
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
	REVISION HISTORY			

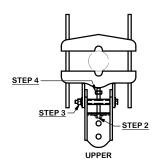


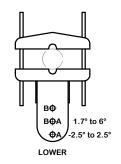
20° . 20° 20° MAX. MAX. MAX. 8 13/32" ± 1-1/4" 1-1/2" TO 8-5/8" DIAMETER LEG 31 15/16" MAX. MAX.

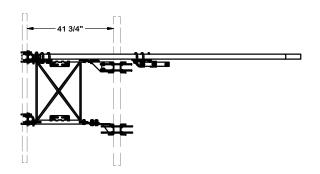


ANGLE CALIBRATING PROCEDURE:

- 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.







					BE
Α	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	8/17/2018	AL
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	PRO
	REVISION HISTORY				IND

TOLERANCE NOTES

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

ALL OTHER ASSEMBLY (± 0.060")

ROPRIETARY NOTE: NE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT NOUSTRIES AND COMBIDERED A TRADE SECNET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF ALMONT INDUSTRIES IS STRICTLY PROHISITED.

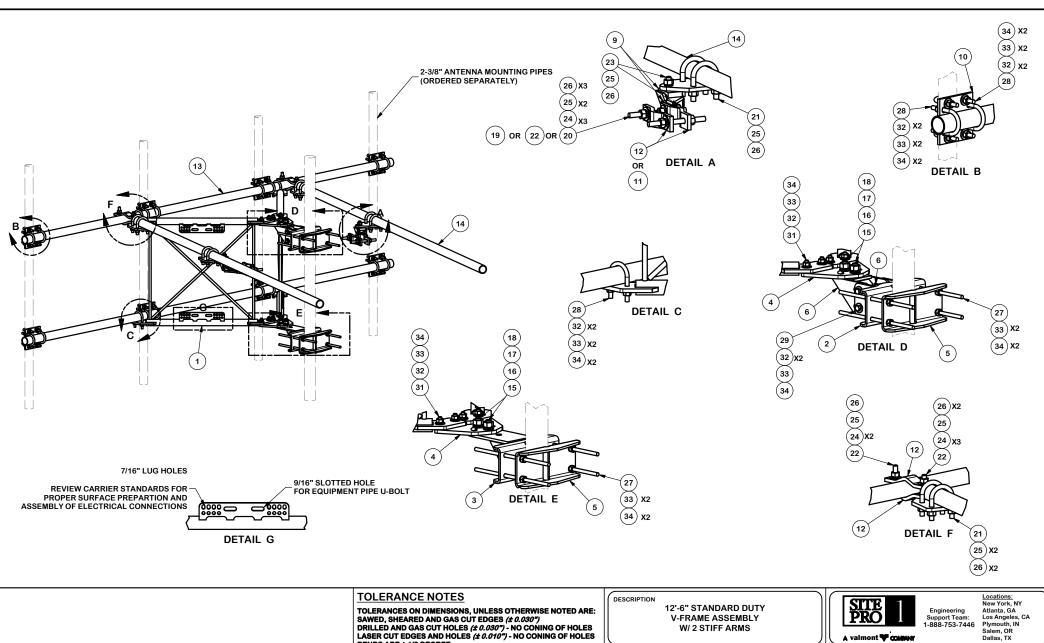
DESCRIPTION

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



ngineering pport Team: 88-753-7446	Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX	`
-SD		3 0

CPD NO.		DRAWN BY	ENG. APPROVAL	PART NO.	з
		CEK 11/3/2016	3/9/2017	VFA12-SD	٤
CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	T P
81	02	CUSTOMER	BMC 11/18/2016	VFA12-SD	5



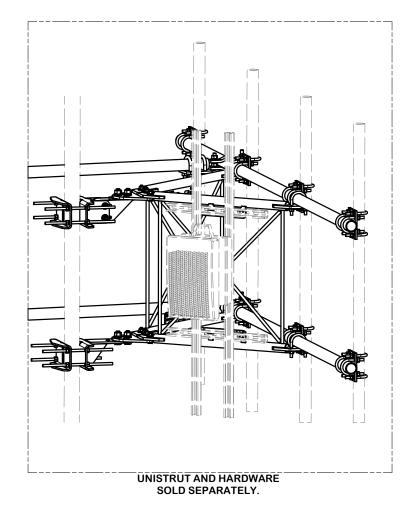
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Α	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	8/17/2018	ľ
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	1
	REVISION HISTORY				-
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BENDS ARE ± 1/2 DEGREE

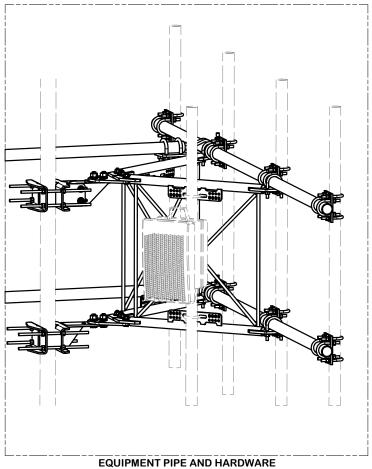
ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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	CPD NO	0.	DRAWN BY	ENG. APPROVAL	PART NO.	
			CEK 11/3/20	3/9/2017	VFA12-SD	_ 0 ₽
NT	CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	ଅକ୍
NI	81	02	CUSTOMER	BMC 11/18/2016	VFA12-SD	5



REQUIRES 3/8" HARDWARE



EQUIPMENT PIPE AND HARDWARI SOLD SEPARATELY.

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

T S C	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	DESCRIPTIO	12'-6" STANDARI V-FRAME ASSE W/ 2 STIFF AR	MBLY	Engineering August 1-888-753-7446	ocations: ew York, NY tlanta, GA os Angeles, CA lymouth, IN alem, OR allas, TX	
	ALL OTHER MACHINING (± 0.030")	CPD NO.	DRAWN BY	ENG. APPROVAL	 RT NO.		5
A UPDATED BCAM VERSION 1 TO BCAM VERSION 2 CEK 8/17/2018	ALL OTHER ASSEMBLY (± 0.060")		CEK 11/3/2016	3/9/2017	VFA12-SD		O Z

A UPDATED BCAM VERSION 1 TO BCAM VERSION 2 CEK 8/17/2018 ALL OTHER ASSEMBLY (\$\pmu.0000"\) CEK 8/17/2018 ALL OTHER ASSEMBLY (\$\pmu.0000"\) CEK 11/3/2016 3/9/2017 VFA12-SD

REV DESCRIPTION OF REVISIONS CPD BY DATE HOUSE AND TREVINIOUS CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT HIS DRAWING USAGE CHECKED BY BMC 11/18/2016 WIGHT OF VALMONT HIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT HIS DRAWING USAGE CHECKED BY BMC 11/18/2016 WIGHT OF VALMONT HIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT HIS DRAWING USAGE CHECKED BY BMC 11/18/2016 WIGHT OF VALMONT HIS DRAWING USAGE CHECKED BY