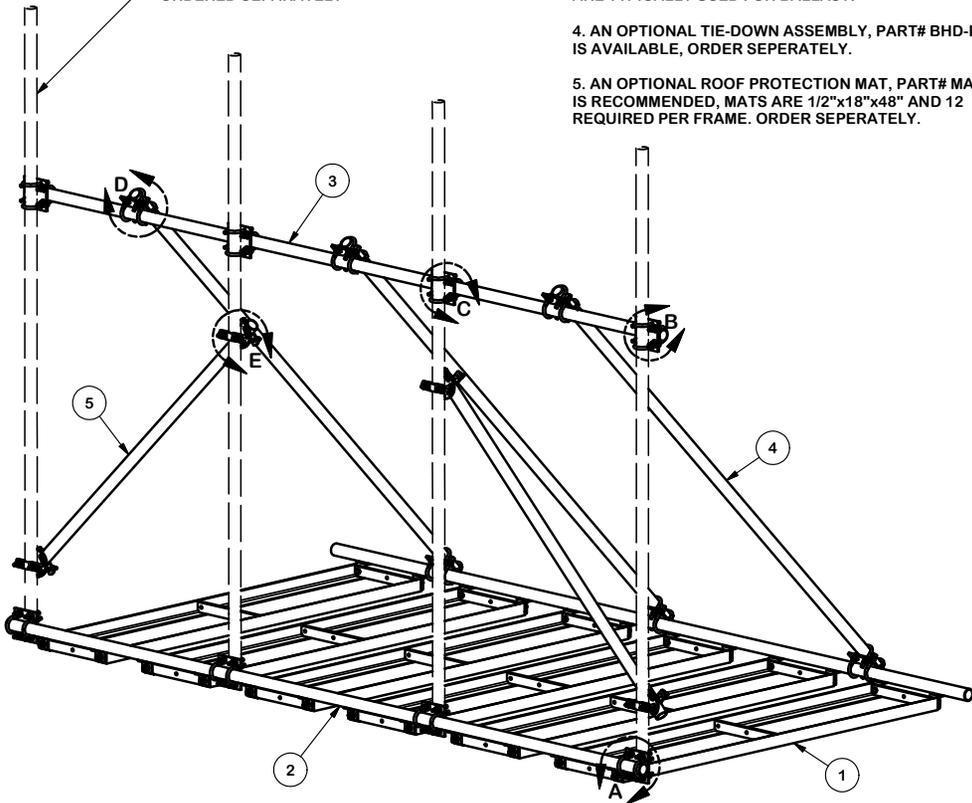


**NOTES:**

- SEE SHEET 2 FOR BALLAST LOADING FORMULA.
- THE MOUNTING FRAME IS DESIGNED TO ACCEPT A MAXIMUM OF FOUR ANTENNA MOUNTS.
- CONCRETE BLOCKS (CMU), 4x8x16 OR 8x8x16, ARE TYPICALLY USED FOR BALLAST.
- AN OPTIONAL TIE-DOWN ASSEMBLY, PART# BHD-K, IS AVAILABLE, ORDER SEPERATELY.
- AN OPTIONAL ROOF PROTECTION MAT, PART# MAT18 IS RECOMMENDED, MATS ARE 1/2"x18"x48" AND 12 REQUIRED PER FRAME. ORDER SEPERATELY.

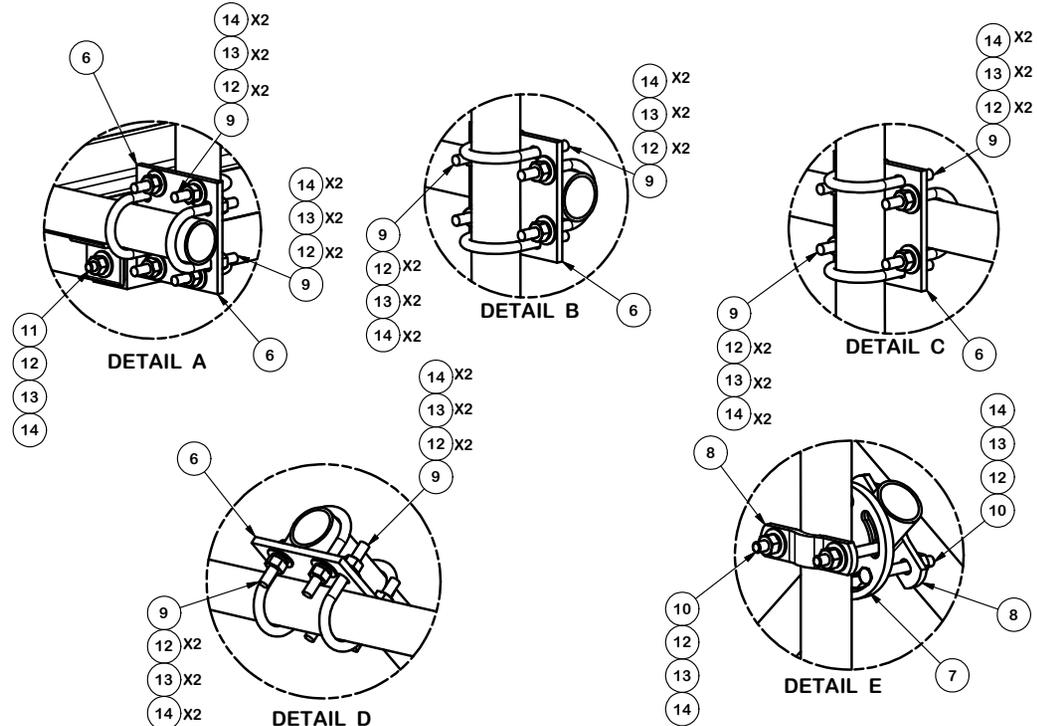
ANTENNA PIPES ORDERED SEPARATELY



2-3/8" O.D. VERTICAL MOUNTING PIPES					
ASSEMBLY NO.	PART "A"	LENGTH "B"	UNIT WT. "C"	NET WT. "D"	TOTAL WEIGHT
RTP14	PIPE NOT INCLUDED, ONLY CONNECTION HDW.				896.78
RTP14-496	P296	96"	30.76	123.04	1019.04
RTP14-4126	P2126	126"	40.75	163.00	1059.78

**PARTS LIST**

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	6	X-232696	BALLAST TRAY WELDMENT - SITE PRO 1		66.53	399.19
2	2	X-RTP14	FRONT AND BACK HORIZONTAL TRAY SUPPORT WELDMENT		64.38	128.77
3	1	P2174	2-3/8" OD X 174" SCH 40 GALVANIZED PIPE	174	55.75	55.75
4	3	P2126	2-3/8" OD X 126" SCH 40 GALVANIZED PIPE	126"	40.75	122.26
5	2	P284	2-3/8" X 84" SCH 40 GALVANIZED PIPE	84	26.91	53.82
6	14	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6	3.71	51.92
7	4	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.48	9.93
8	8	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	7.30
9	56	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	14.39
10	16	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4	0.27	4.32
11	24	G1202	1/2" x 2" HDG HEX BOLT GR5	2	0.18	4.22
12	152	G12FW	1/2" HDG USS FLATWASHER	0.095	0.03	5.18
13	152	G12LW	1/2" HDG LOCKWASHER	.125	0.01	2.11
14	152	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.89
15	4	A	2-3/8" O.D. SCH. 40 PIPE	B	C	D



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

**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.

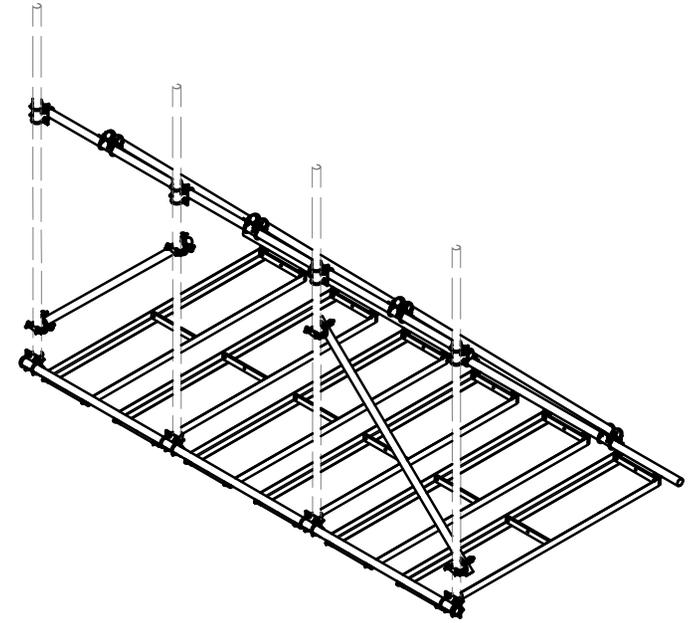
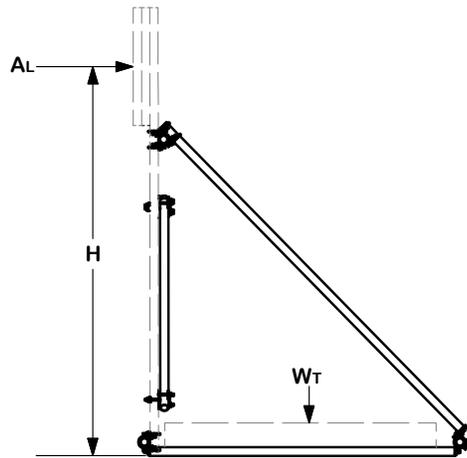
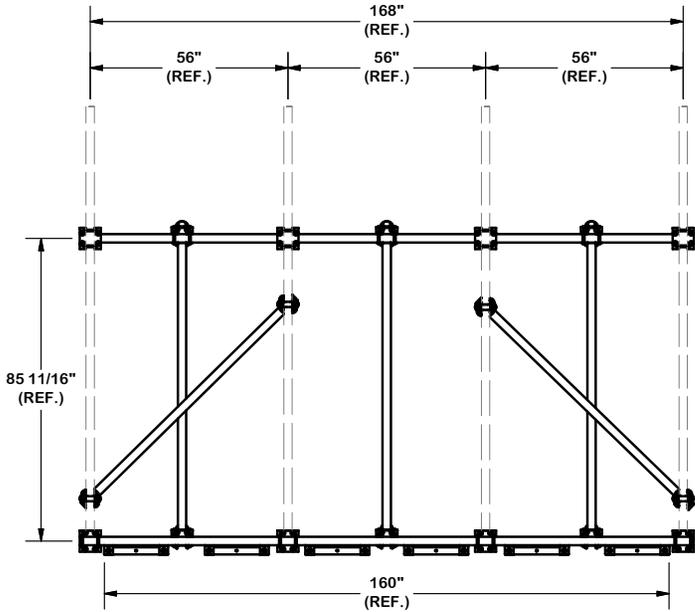
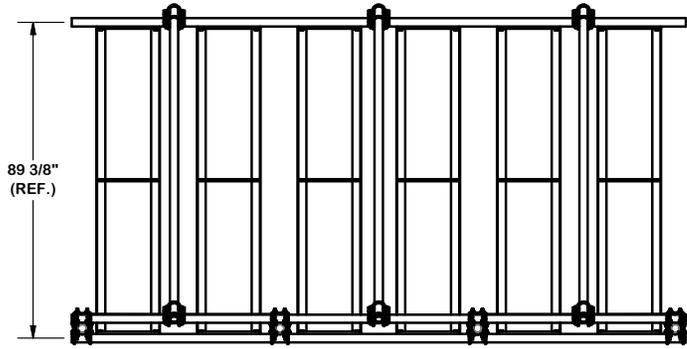
DESCRIPTION  
**14' ROOFTOP PIPE FRAME**

CPD NO.	DRAWN BY CEK	1/5/2015	ENG. APPROVAL
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC 3/11/2015

**SITE PRO 1**  
 Engineering Support Team:  
 1-888-753-7446

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

PART NO.	<b>SEE ASSEMBLY NO.</b>	PAGE 1 OF 2
DWG. NO.	<b>RTP14</b>	



BALLAST EQUATION WITH 1.5 SAFETY FACTOR:

$$WT = \frac{AL \cdot H \cdot N \cdot (1.5)}{3.625}$$

$$W = WT / 6$$

BALLAST EQUATION WITH REV. G LOADING:

$$WT = \frac{AL \cdot H \cdot N \cdot (1.6)}{3.625 (0.9)}$$

$$W = WT / 6$$

- AL = ANTENNA LOAD (NON-FACTORED) lbs
- H = HEIGHT FROM ROOFTOP ft
- N = NUMBER OF ANTENNAS
- WT = TOTAL BALLAST WEIGHT lbs
- W = BALLAST WEIGHT PER TRAY lbs

**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 ARE  $\pm 1/2$  DEGREE  
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 PIPE FRAME**

CPD NO.	DRAWN BY CEK	1/5/2015	ENG. APPROVAL
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY BMC 3/11/2015

**SITE PRO 1**  
 A valmont COMPANY

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 New York, NY  
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PART NO.	<b>SEE ASSEMBLY NO.</b>	PAGE 2 OF 2
DWG. NO.	<b>RTP14</b>	