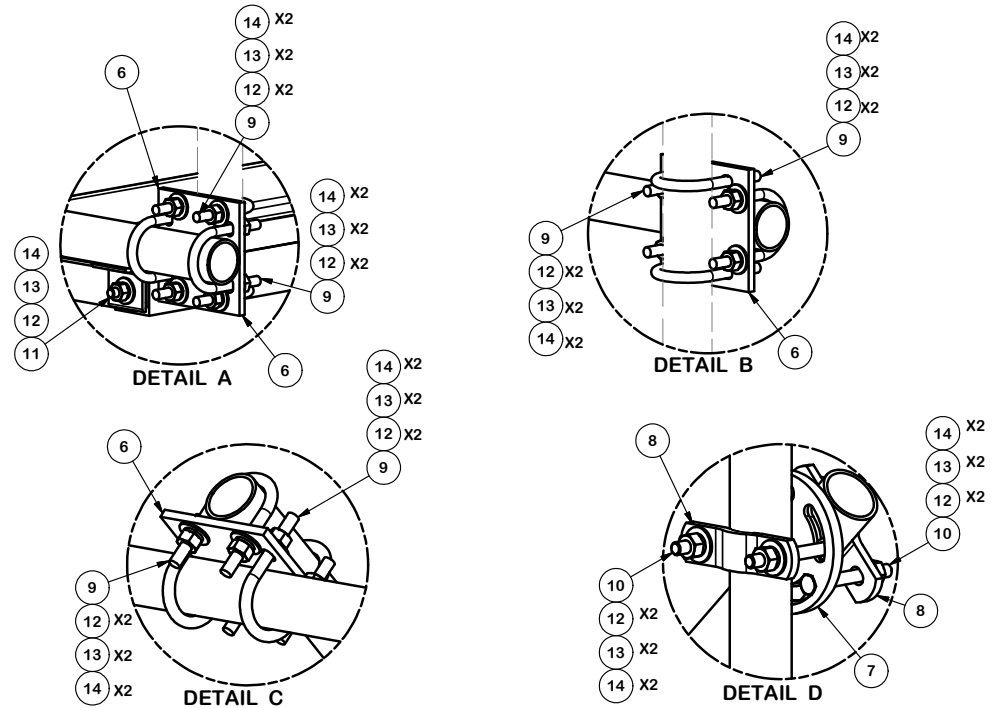


NOTES:

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

2-3/8" O.D. VERTICAL MOUNTING PIPES					
ASSEMBLY NO.	PART "A"	LENGTH "B"	UNIT WT. "C"	NET WT. "D"	TOTAL WEIGHT
RTP	PIPE NOT INCLUDED, ONLY CONNECTION HDW.				643.88
RTP12-296	P296	96"	30.76	123.04	766.92
RTP12-2126	P2126	126"	40.37	161.48	805.36

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-232696	BALLAST TRAY WELDMENT - SITE PRO 1		66.53	266.13
2	2	X-RTP12	FRONT AND BACK HORIZONTAL TRAY SUPPORT WELDMENT		53.92	107.84
3	2	P272	2-3/8" X 72" SCH 40 GALVANIZED PIPE	72"	23.07	46.13
4	2	P2126	2-3/8" OD X 126" SCH 40 GALVANIZED PIPE	126"	40.75	81.50
5	1	P2150	2-3/8" OD X 150" SCH 40 GALVANIZED PIPE	150.0000 in	45.77	45.77
6	12	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6	3.71	44.50
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	48	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	12.34
10	16	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4	0.27	4.32
11	16	G1202	1/2" x 2" HDG HEX BOLT GR5	2	0.18	2.81
12	128	G12FW	1/2" HDG USS FLATWASHER	0.095	0.03	4.36
13	128	G12LW	1/2" HDG LOCKWASHER	.125	0.01	1.78
14	128	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	9.17
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	12' ROOFTOP PIPE FRAME
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CPD NO.	DRAWN BY	ENG. APPROVAL
CLASS	CEK	1/3/2015
SUB	DRAWING USAGE	CHECKED BY
81	CUSTOMER	BMC 3/11/2015

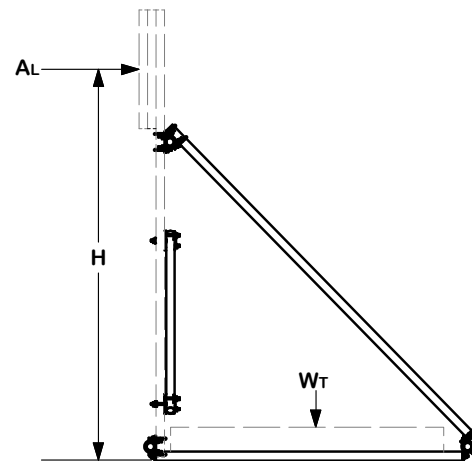
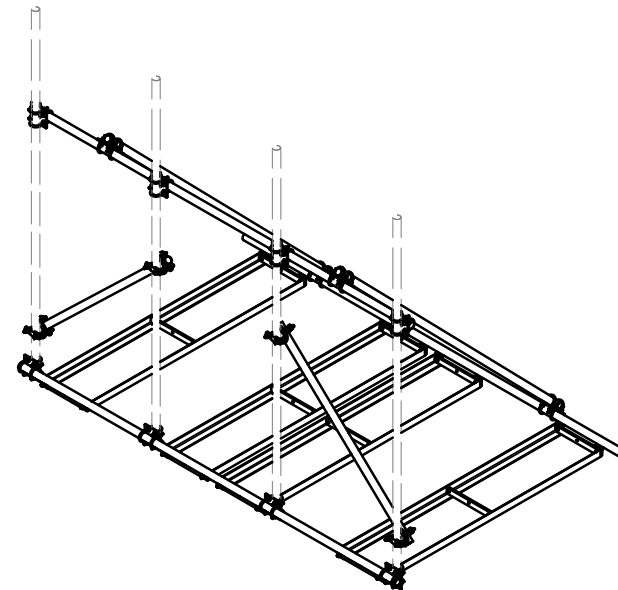
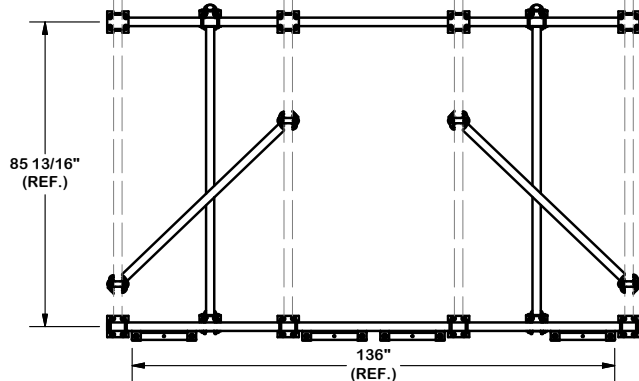
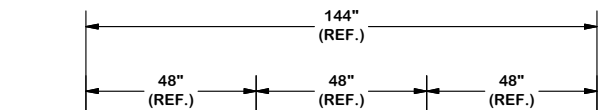
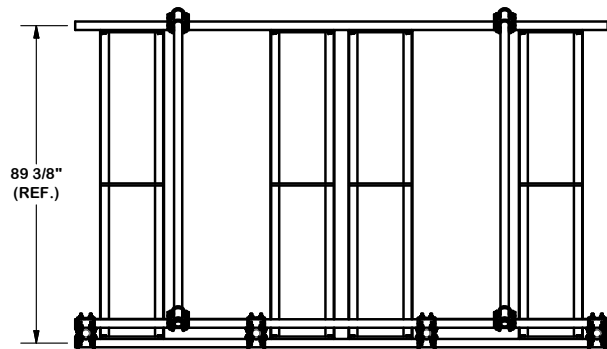
SITE PRO 1

A valmont COMPANY

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

Engineering Support Team:
 1-888-753-7446

PART NO.	SEE ASSEMBLY NO.	PAGE
DWG. NO.	RTP12	1 OF 2



BALLAST EQUATION WITH 1.5 SAFETY FACTOR:

$$W_T = \frac{A_L \cdot H \cdot N \cdot (1.5)}{3.625}$$

$$W = W_T / 4$$

BALLAST EQUATION WITH REV. G LOADING:

$$W_T = \frac{A_L \cdot H \cdot N \cdot (1.6)}{3.625 (0.9)}$$

$$W = W_T / 4$$

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

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
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 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
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DESCRIPTION
**12' ROOFTOP
 PIPE FRAME**

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

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 Engineering Support Team:
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PART NO.	SEE ASSEMBLY NO.	PAGE 2 OF 2
DWG. NO.	RTP12	