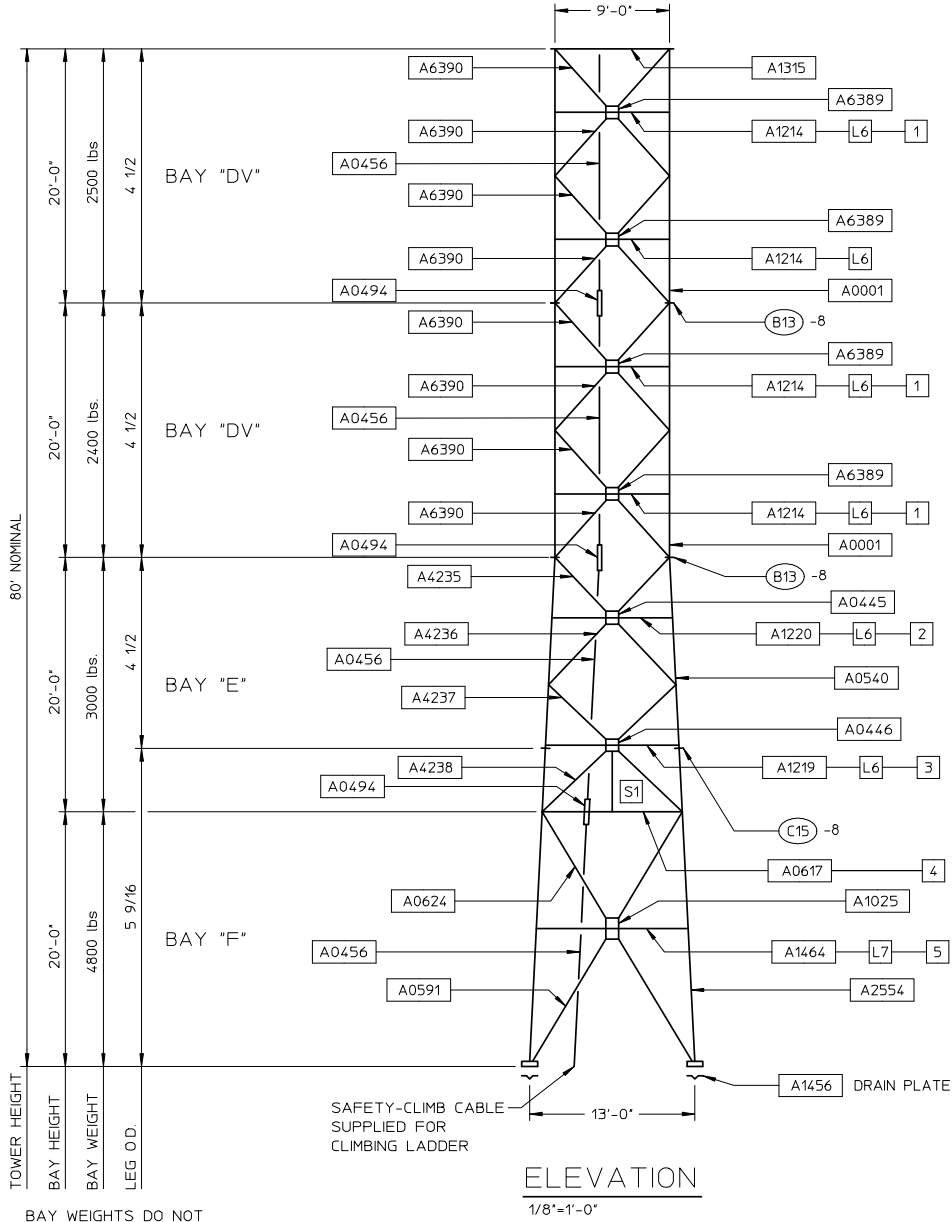
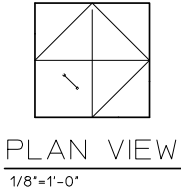
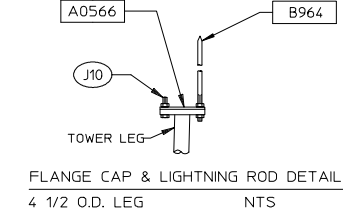


PARTS LIST			
BAY	MARK	DESCRIPTION	QTY
DV20	A0001	PIPE LEG	4
	A1315	ANGLE GIRT	8
	A1214	ANGLE GIRT	8
	A1214	ANGLE GIRT	8
DV20	A6390	PIPE DIAGONAL	32
	A6389	PLATE	8
E	A0001	PIPE LEG	4
	A1214	ANGLE GIRT	8
	A1214	ANGLE GIRT	8
	A6390	PIPE DIAGONAL	32
F	A0001	PIPE LEG	4
	A1214	ANGLE GIRT	8
	A1214	ANGLE GIRT	8
	A6390	PIPE DIAGONAL	32
FLG CAP	A0566	PLATE-4 1/2 OD	4
	A0566	PLATE-4 1/2 OD	4
1	A0105	ANGLE	9
	A0683	ANGLE	3
	A0684	ANGLE	6
	A2406	PLATE	12
2	A0685	PLATE	3
	A0106	ANGLE	1
	A0584	ANGLE	2
	A0687	ANGLE	1
3	A2406	PLATE	1
	A0685	PLATE	1
4	A0107	ANGLE	3
	A0582	ANGLE	1
	A0686	ANGLE	2
	A2406	PLATE	4
5	A0685	PLATE	1
	A0108	ANGLE	3
	A0594	ANGLE	1
	A2407	PLATE	2
S1	A0685	PLATE	1
	A0170	ANGLE	8
	A0141	PLATE	4
	A0456	LADDER	4
LAD	A0494	SPLICE	6
	A0458	STANDOFF	14
	A0573	LADDER BRACE	7
	A0440	CLIP ANGLE	2

HARDWARE LIST		
SYM	QTY	DESCRIPTION
B8	312	5/8" x 2 A325 ASS'Y
B9	124	5/8" x 2 1/4 A325 ASS'Y
B13	64	5/8" x 3 1/4 A325 ASS'Y
C15	32	3/4" x 3 3/4 A325 ASS'Y
S6	28	1/2" x 1 1/2 SS BOLT
I11	26	1/2" x 2 3/4 G5 ASS'Y
J7	253	5/8" x 1 3/4 G5 ASS'Y
J8	32	5/8" x 2 G5 ASS'Y
J10	9	5/8" x 2 1/2 G5 ASS'Y
RH4	2	1/2" REDHEAD INSERT
SN4	28	1/2" SPRING NUT
S4X	2	1/2" x 1 SS BOLT
SL4	30	1/2" SS LW
W6	64	3/8" SPC, 11/16" HOLE
W8	30	1/2" SPC, 11/16" HOLE
SF4	2	1/2" SS FW

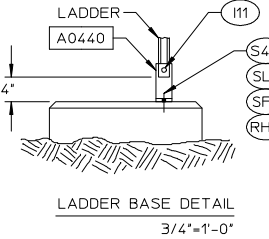
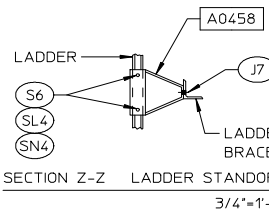
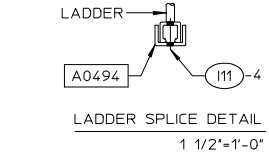
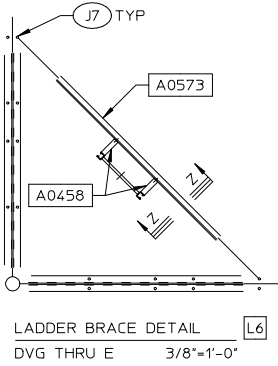
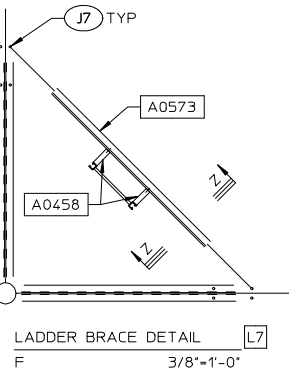
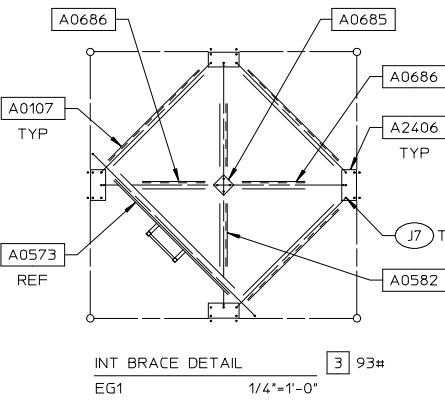
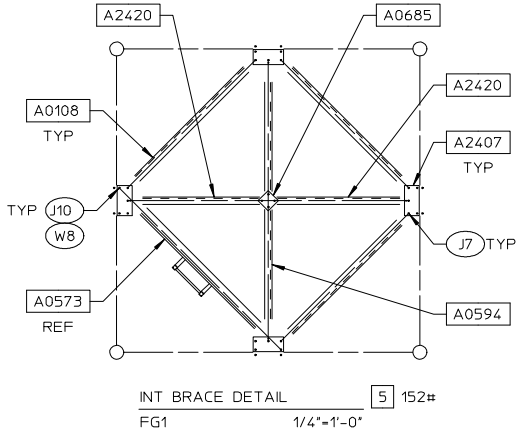
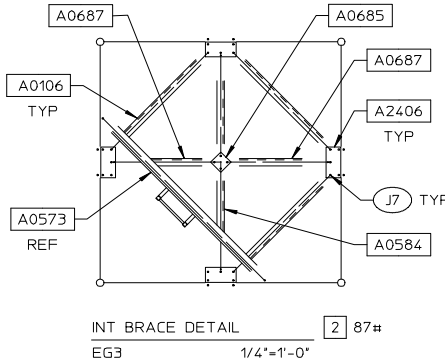
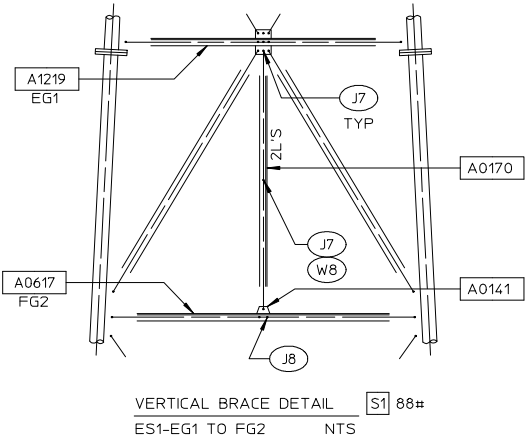
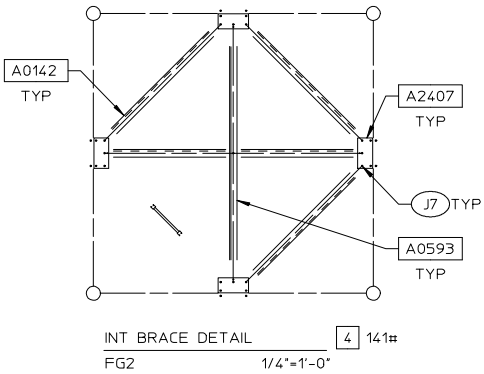
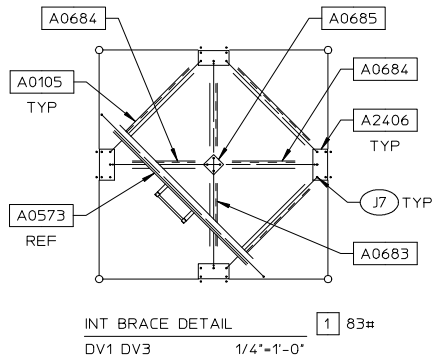
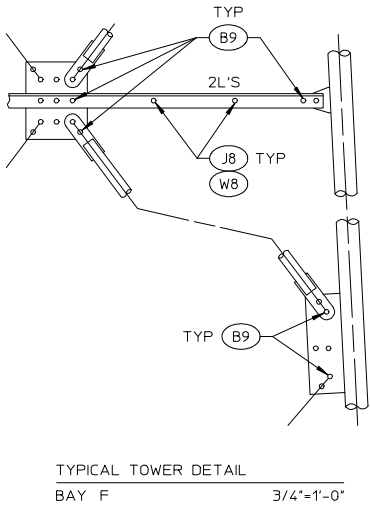
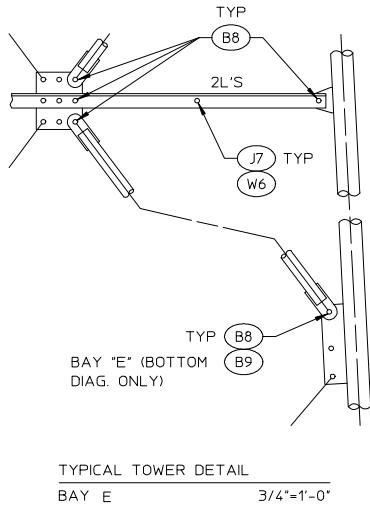
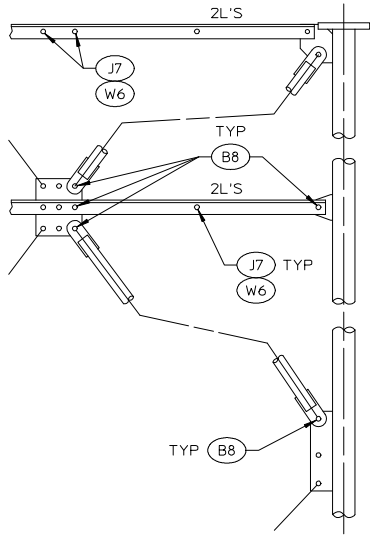
SYMBOL LEGEND	
SYMBOL	DESCRIPTION
A0994	TOWER PART NUMBER
L6	LADDER BRACE DETAIL
S2	VERTICAL BRACE DETAIL
3	INTERNAL BRACE DETAIL
M1	ANTENNA MOUNT DETAIL
P2	PLATFORM DRAWING REF. (SEE REF. DRAWING LIST)
J7	HARDWARE DESIGNATION



ALL ASTM A325 BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION.

A snug tight condition is defined as the tightness that exists when all plies in a joint are in firm contact. This may be attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench.

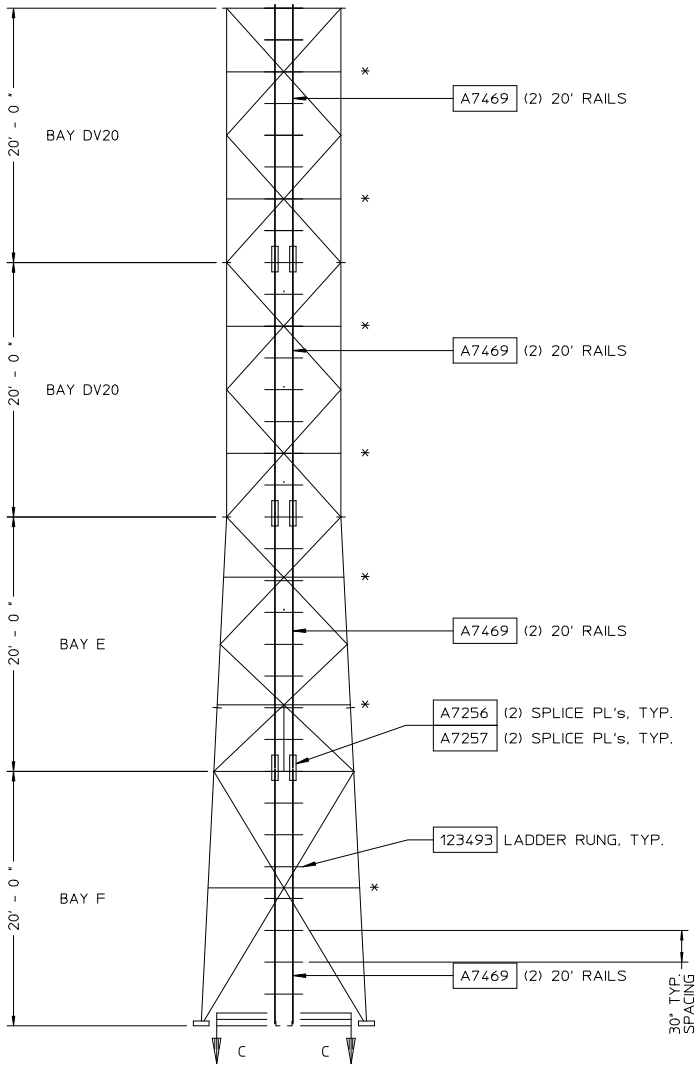
Ref *Specification for ASTM A325 or A490 Bolts,* Manual of Steel Construction, Allowable Stress Design, AISC, 9th Edition, 1989, page 5-273.



BY/CK	DATE	DESCRIPTION	REV
MASTER ERECTION	108-M840-80	UNION TELEPHONE CO.	
valmont STRUCTURES			
1-877-467-4763 Plymouth, IN 1-800-547-2151 Salem, OR			
BY RJS	CK SM	D-118598-1	
DATE	23MAR04		
S.O.	VARIOUS	SHEET: 1	OF 2

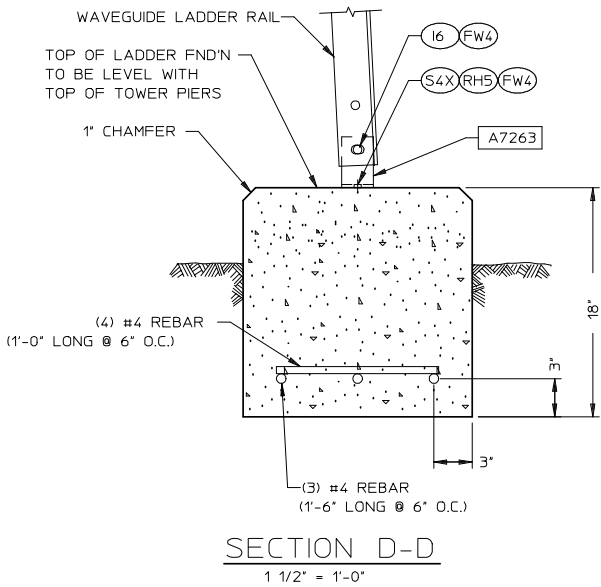
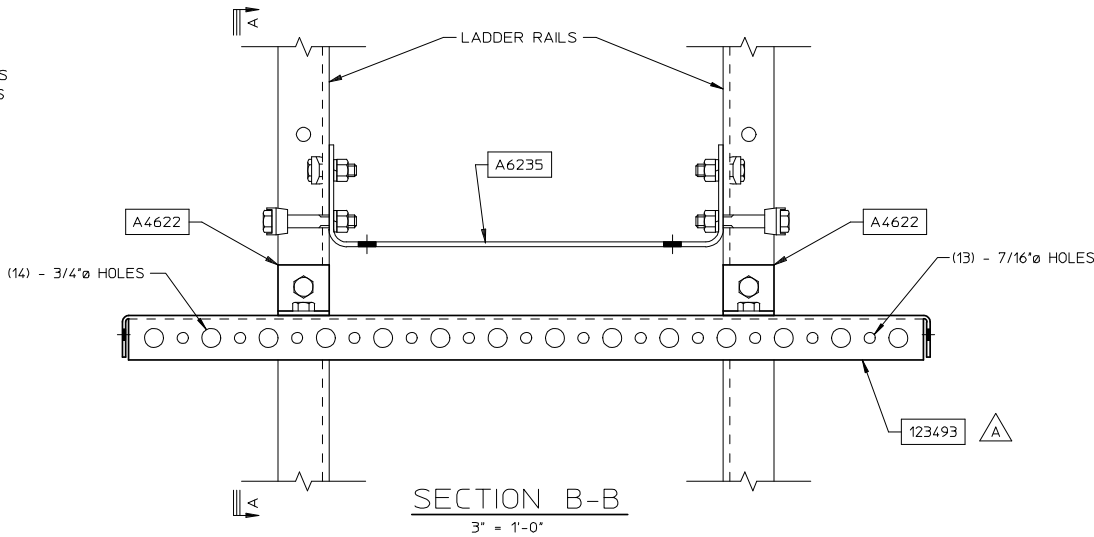
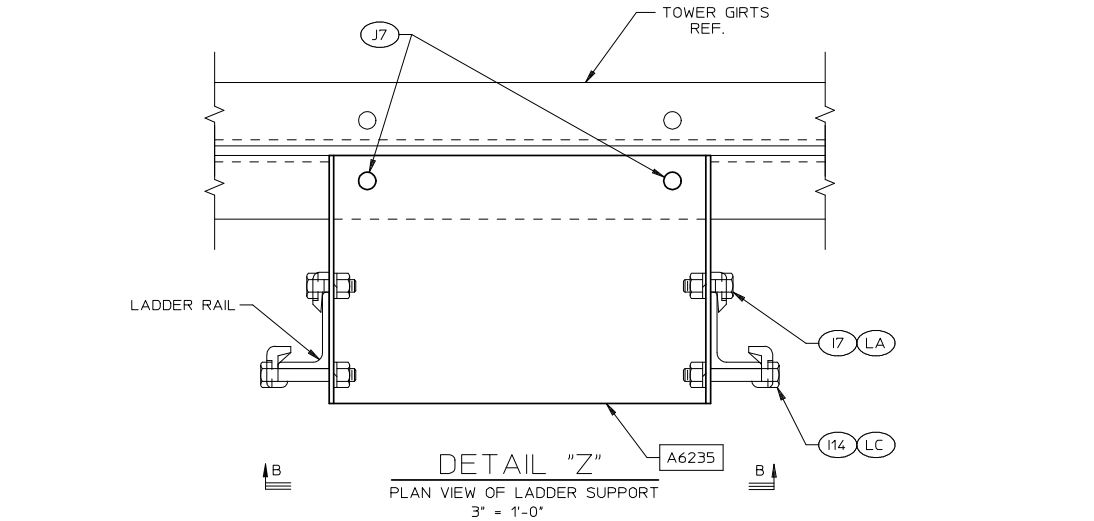
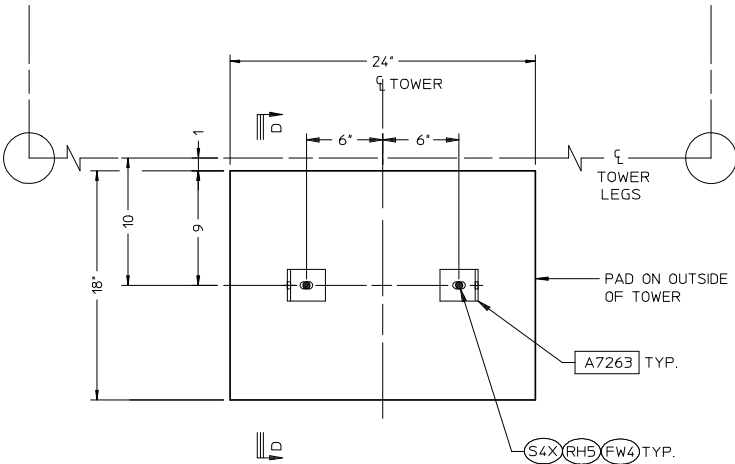
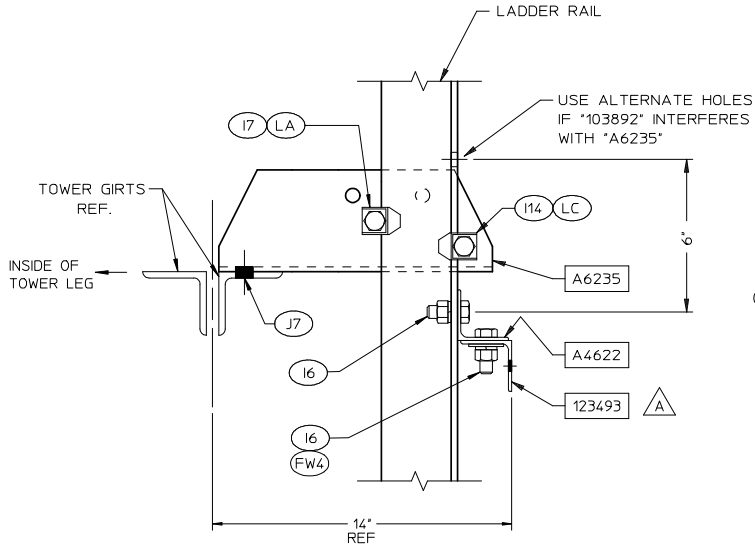
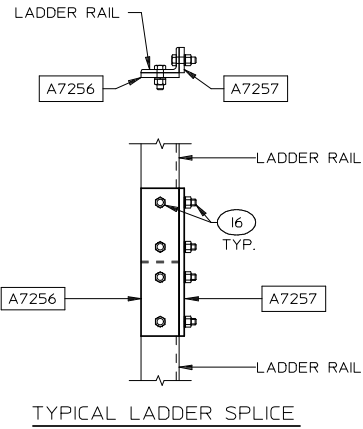
PARTS LIST		
PART #	DESCRIPTION	QTY
A7263	CLIP ANGLE - BASE	2
A7256	SPLICE PLATE	6
A7257	SPLICE PLATE	6
123493	ANGLE - RUNG	32
A4622	CLIP ANGLE - RUNG	64
A7469	20" ANGLE RAIL	8
A6235	FORMED IR - BRACE	7

HARDWARE LIST		
SYM	QTY	DESCRIPTION
I6	178	1/2" x 1 1/2" G5 ASS'Y
I7	14	1/2" x 1 3/4" G5 ASS'Y
I14	14	1/2" x 3 1/2" G5 ASS'Y
J7	14	5/8" x 1 3/4" G5 ASS'Y
LA	14	1/2" TYPE "A" LINDAPTER WITH MEDIUM TAIL
LC	14	1/2" TYPE "C" LINDAPTER
S4X	2	1/2" x 1" STAINLESS BOLT
S4X	2	1/2" STAINLESS STEEL LW
RH5	2	1/2" CONCRETE ANCHOR
FW4	68	1/2" GALV FW



* SEE DETAIL "Z" FOR WAVEGUIDE LADDER SUPPORT AT THESE LEVELS

WAVEGUIDE LADDER ELEV.
WAVEGUIDE LADDER MOUNTED ON OUTSIDE FACE OF TOWER
1/8" = 1'-0"



REV	DATE	BY/CK	W/G LADDER INSTALLATION UNION TELEPHONE CO.		
A	23JUL08	RJS	valmont STRUCTURES 1-877-467-4763 Plymouth, IN 1-800-547-2151 Salem, OR		
REV	DATE	BY/CK	BY RJS	CK SM	D-118598-2
			DATE	23MAR04	
REV	DATE	BY/CK	S.O.	VARIOUS	SHEET: 2 OF 2

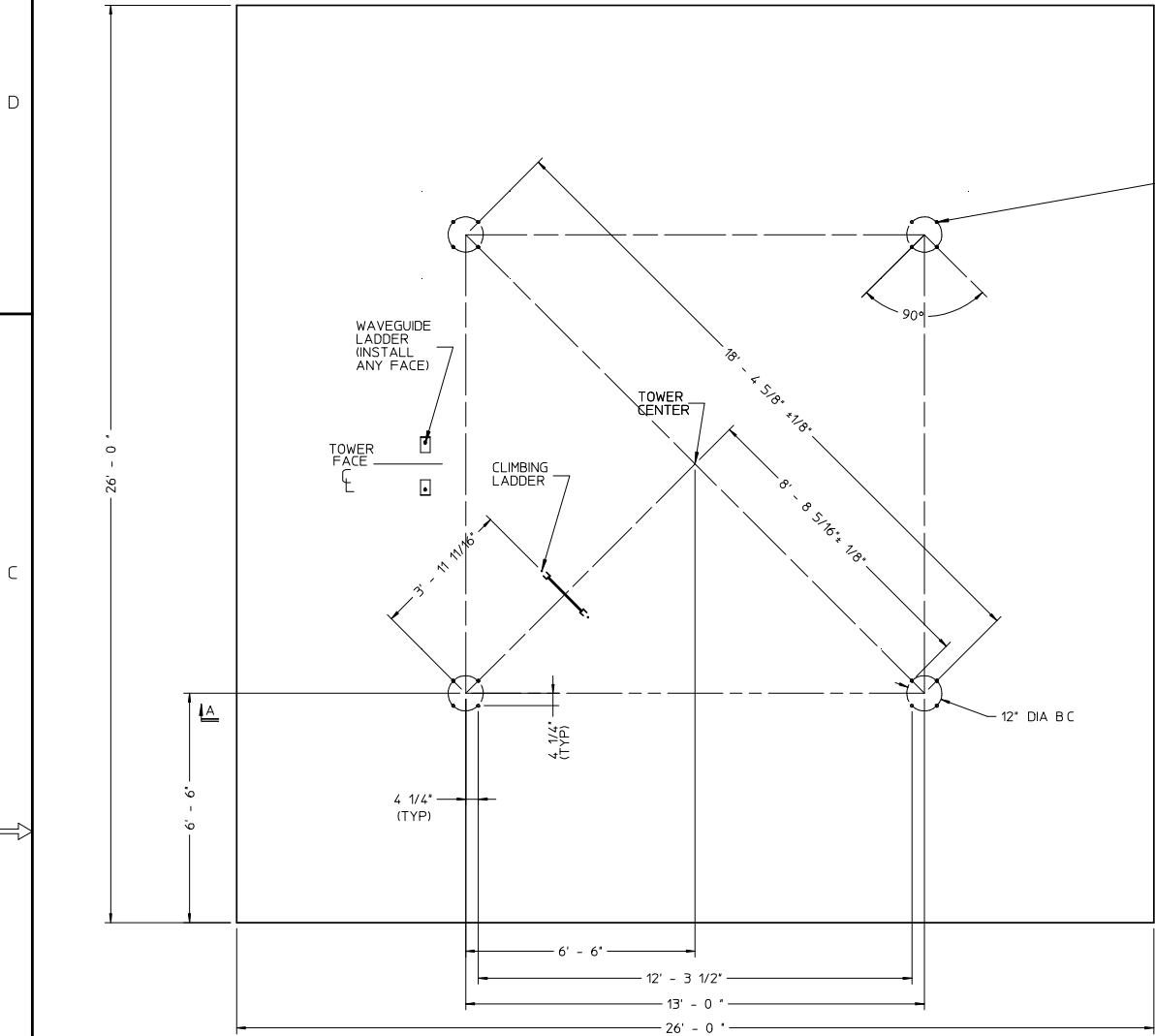
DWG NO	D-119403		SH	1	REV	A	1
REVISIONS							
ZONE	REV	DESCRIPTION				DATE	APPROVED
	A	REMOVED PIER CAPS, SLAB WAS 3" THICK, ADDED TOLERANCES				14MAR05	JG/MF

GENERAL NOTES: SLAB

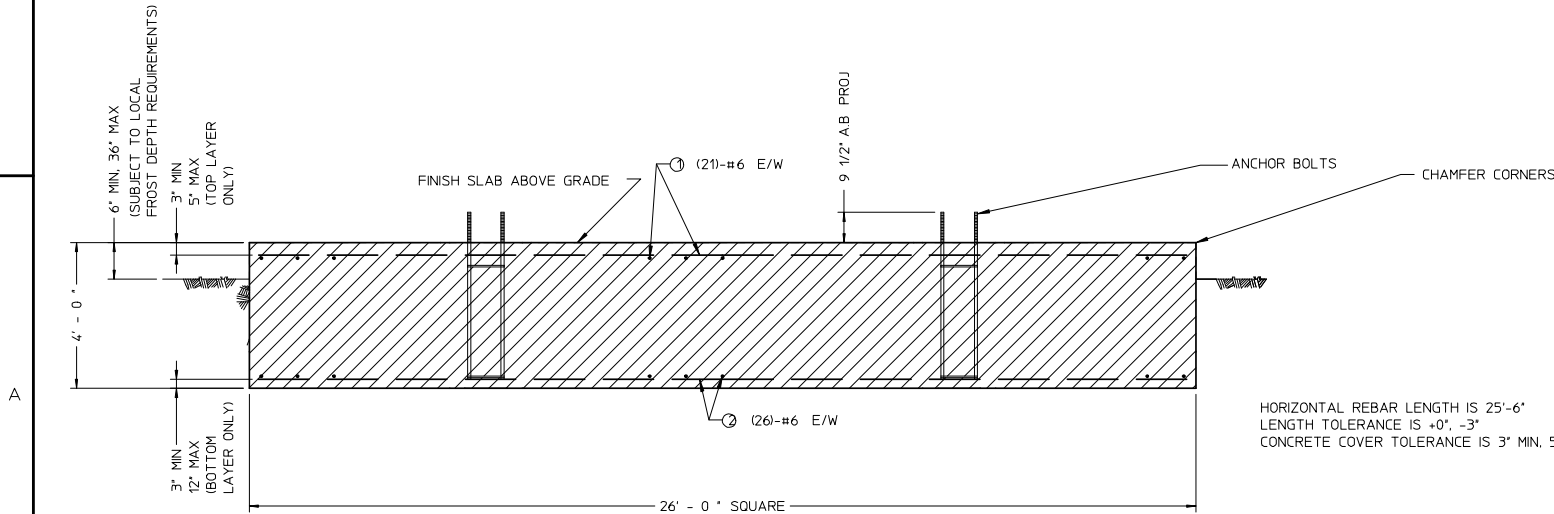
- Prior to excavation, check the area for underground facilities.
- All reinforcing shall be deformed bars conforming to ASTM A615 Grade 60 (60,000 psi min. yield) and shall be provided by the foundation contractor
- All concrete shall have a minimum compressive strength of 3,000 psi @ 28 days. The requirement for the concrete shall be as given in the ACI "Building Code Requirements for Reinforced Concrete", ACI 318, the latest edition.
- Concrete shall be placed against undisturbed soil to the depth indicated on the foundation drawing. The portion above grade shall be formed. If an area is excavated beyond the limits shown, this volume shall be filled with concrete or formed. After the forms are removed, the excess excavation shall be replaced and compacted.
- Finish slab above grade. Slope surface away from center to allow moisture run-off.
- Concrete is assumed to weigh 150 pcf.
- Dry Packing Procedures: Mix 2 parts sand, one part cement, and add just enough water to allow molding a shape by hand. Restrict the water content to a minimum. (This minimizes the possibility of shrinkage when the mortar, dry-mixed for maximum density and strength, is packed in place.) The packing shall be done by hand, ramming with bars or caulking tools, or a combination thereof.
- Estimated concrete volume = 100 cu. yards.
- Design based on the following loads:
Overturning Moment = 2436 k-ft. (Overturning Safety Factor = 186)
Total Shear = 568 kips Max. Toe Bearing Pressure = 162 ksf
Total Weight = 32 kips
- Soil is assumed to have a minimum allowable bearing pressure of 2000 psf.

REINFORCEMENT STEEL SCHEDULE									
Sym	Type	Rebar Size	Rebar Spacing	Dimensions				Weight (lbs)	Qty
				a	b	c	d		
1	A	#6	15 1/4"	25'-6"	---	---	---	1609	42
2	A	#6	12 1/4"	25'-6"	---	---	---	1992	52

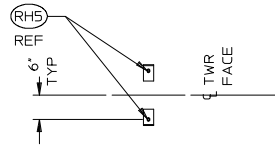
TOTAL STEEL WEIGHT FOR COMPLETE FOUNDATION INSTALLATION = 3601



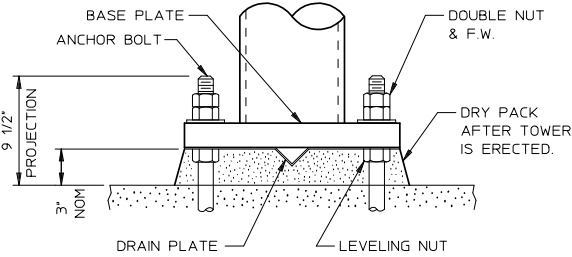
FOUNDATION PLAN
SCALE: 1/2" = 1'-0"



SECTION A-A
NTS

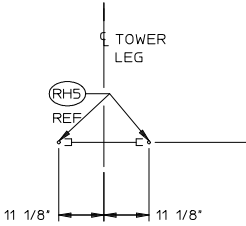


WAVEGUIDE LADDER
FOUNDATION PLAN
NO SCALE FACE CENTER



DRAIN PLATE INSTALLATION
NO SCALE

EXTREME CARE SHOULD BE TAKEN TO ASSURE THAT ALL LEVELING NUTS ARE LEVEL WITH RESPECT TO EACH OTHER PRIOR TO ERECTION OF THE TOWER.



CLIMBING LADDER
FOUNDATION PLAN
NO SCALE 4-LEG

Rebar Lap Splice					ACI 318-95		
Rebar Size	Rebar Grade	Specified Concrete Strength	Overlap (inches)			Vert	Bottom Horiz
			Top Horiz	Bottom Horiz	Top Horiz		
#3	60	3000 psi	13	13	17		
#4	60	3000 psi	17	17	22		
#5	60	3000 psi	22	22	28		
#6	60	3000 psi	26	26	33		
#7	60	3000 psi	38	38	49		
#8	60	3000 psi	43	43	56		
#9	60	3000 psi	48	48	63		
#10	60	3000 psi	57	57	75		
#11	60	3000 psi	71	71	92		

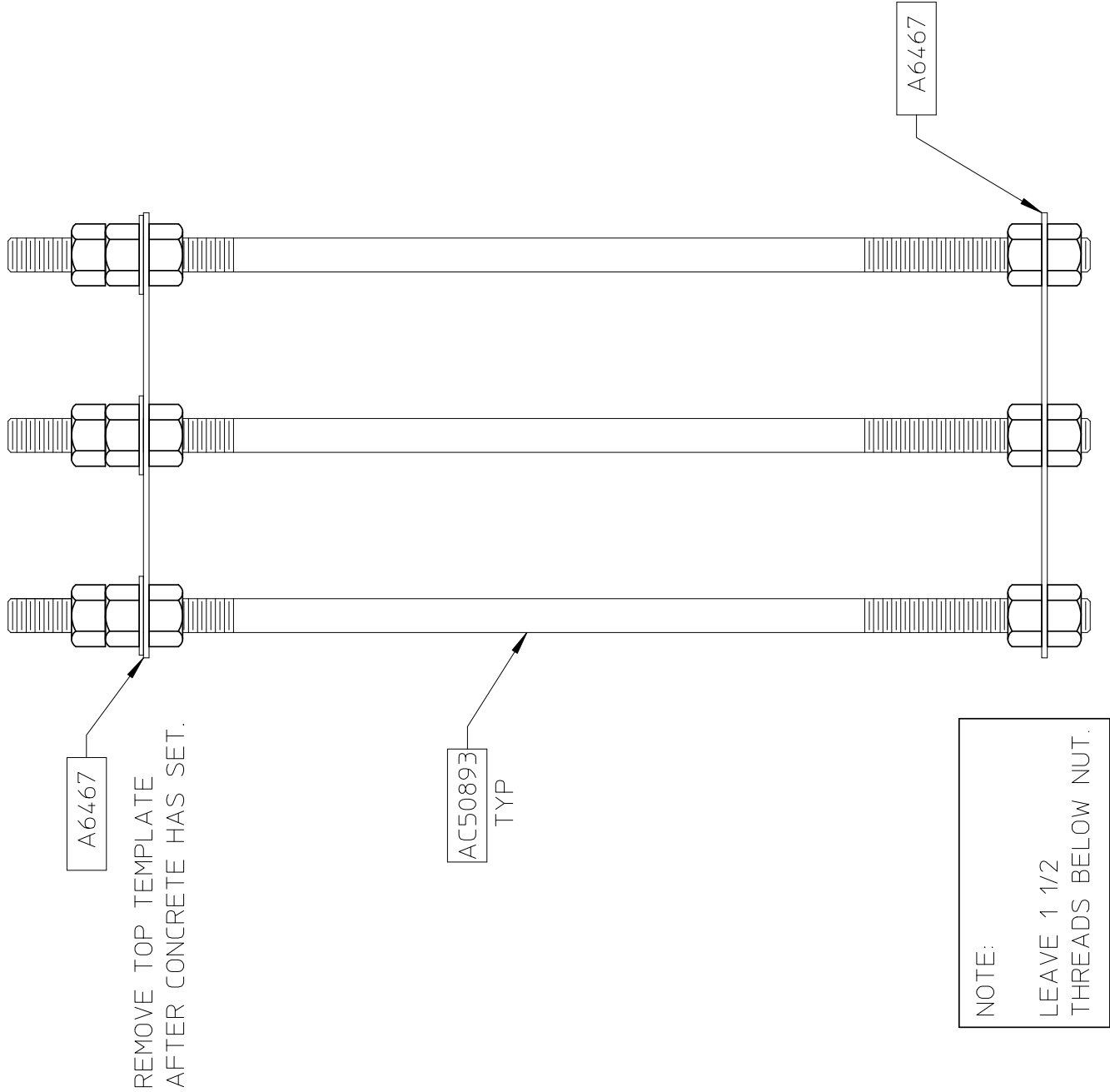
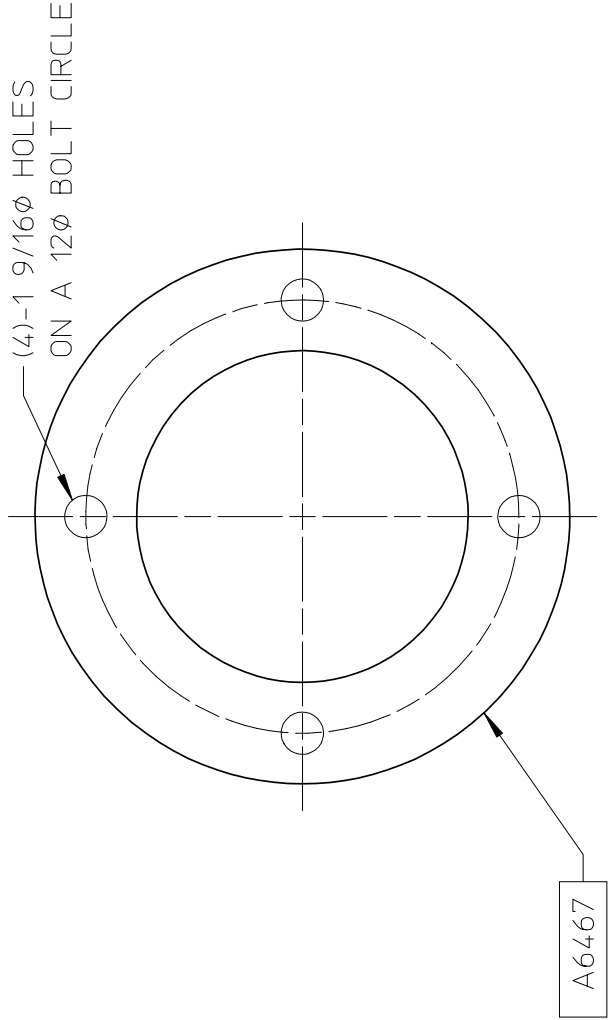
Splicing is an alternative to specified material listed in rebar schedule.

Grade 60 Rebar					Ref. LB2826	
Size	ASK #	Wt/ft	10db	d*	d**	
#3	11-97203	0.38	---	2 1/4"	1 1/2"	
#4	11-97204	0.67	5"	3"	2"	
#5	11-97205	1.04	---	3 3/4"	2 1/2"	
#6	11-97200	1.50	---	4 1/2"	4 1/2"	
#7	11-97207	2.04	---	5 1/4"	5 1/4"	
#8	11-97208	2.67	---	6"	6"	
#9	11-97209	3.40	---	9 1/2"	---	
#10	11-97210	4.30	---	10 3/4"	---	
#11	11-97211	5.31	---	12"	---	

* Refers to ACI standard hook detail chart
** Refers to ACI stirrup hook detail chart

UNLESS OTHERWISE STATED DIMENSIONS ARE IN INCHES		CONTRACT NO.		 VALMONT MICROFLEX		3575 25TH STREET SE SALEM, OR 97302 MAN: (503)363-9267 FAX: (503)366-2040	
TOLERANCES ON		MICROFLECT SALES ORDER		SLAB FOUNDATION INSTALLATION UNION TELEPHONE CO. STD 108-M840-80 TOWER, VARIOUS SITES			
FRACTIONS		VARIOUS					
DECIMALS		DRAWN BY JG					
+ 1/16"		XX+		DATE 5AUG04			
XXX+		+ 0"-30"		CHECKED BY MF			
		DATE 5AUG04		TOWER MODEL 108-M840-80		SIZE FSC# NO.	
						D 29189	
						DWG NO.	
						D-119403	
						REV	
						A	
				SCALE		SHEET 1 OF 1	

PARTS LIST		
MARK	DESCRIPTION	QTY
AC50893	ANCHOR BOLT KIT	4
A6467	TEMPLATE	2



ANCHOR BOLT ASSEMBLY

ASSEMBLY NO. 103377

1 1/2"φ X 48" ANCHOR BOLT ASSEMBLY



3575 25TH STREET SE, SALEM, OR 97302
MAIN: (503)363-9267 FAX: (503)316-2040

BY PM

CK RM

DATE 06JAN99

S.O.

REVISIONS			
REV	DESCRIPTION	DATE	BY/CK
A	ADDED NOTE	12APR99	PM/RM