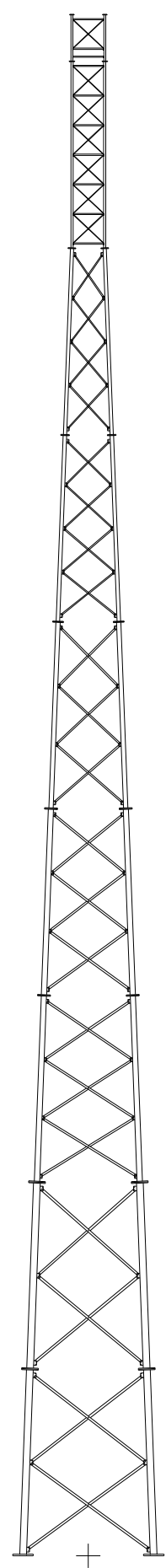


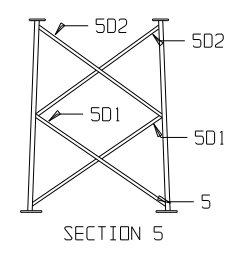
Bracing Bolts:	(1) 1/2 A325	WELDED	L 1.5 x 1.5 x 3/16	5/8 ROD	2-40	8	9	3'-6"
	(1) 5/8 A325							L 1.5 x 1.5 x 3/16
Horizontals:	(1) 1/2 A325		L 1.5 x 1.5 x 3/16					3'-6"
Diagonals:			L 2 x 2 x 3/16	5 SCH40	4	6	7	160'
Legs:			L 2.5 x 2.5 x 3/16	6 SCH40	5	5	5	140'
Section #:			L 3 x 3 x 3/16	8 SCH40	3	3	3	5'-0"
Face/Elevation:			L 2.5 x 2.5 x 3/16	6 SCH40	4	4	4	120'
			L 3 x 3 x 3/16	8 SCH40	3	3	3	6'-6"
			L 2.5 x 2.5 x 3/16	6 SCH40	5	5	5	100'
			L 3 x 3 x 3/16	8 SCH40	4	4	4	80'
			L 2.5 x 2.5 x 3/16	6 SCH40	3	3	3	60'
			L 3 x 3 x 3/16	8 SCH40	2	2	2	40'
			L 2.5 x 2.5 x 3/16	6 SCH40	1	1	1	20'
			L 3 x 3 x 3/16	8 SCH40	1	1	1	12'-6"
			L 2.5 x 2.5 x 3/16	6 SCH40	1	1	1	20'
			L 3 x 3 x 3/16	8 SCH40	1	1	1	14'-0"



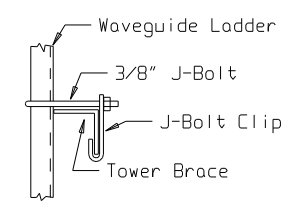
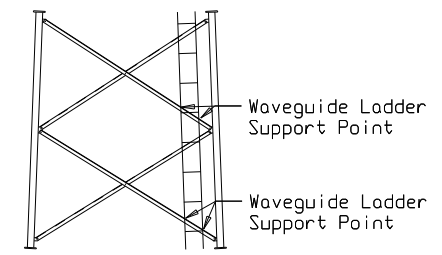
- (2) 3/4 x 2 1/2 A325
- (4) 3/4 x 2 3/4 A325
- (6) 3/4 x 3 A325
- (4) 1 x 3 1/2 A325
- (6) 1 x 3 3/4 A325
- (8) 1 x 3 3/4 A325
- (8) 1 x 3 1/2 A325
- (8) 1 1/4 x 5 A325
- (8) 1 1/4 x 4 1/2 A325
- (8) 1 1/2x60 A36-mod ANCHOR BOLTS

TOWER DESIGN CONDITIONS
 This tower was designed to resist 100 mph wind speed with 1/2" radial ice per ANSI/EIA/TIA-222-F recommended standard. Worst case load condition is wind with ice with load reduction. Allowable steel stresses per AISC ASD 9th Edition. Allowable concrete stresses per ACI 318-89.

MATERIAL SPECIFICATIONS
 Tower Legs: ASTM A36-Modified/A500-C, Fy > XX ksi
 All other Steel: ASTM A36, Fy > 36 ksi
 Hardware: ASTM A325 Hot Dipped Galvanized Bolts with Anco Nuts.
 Galvanizing: ASTM A123
 Anchor Bolts: ASTM A36, Fu > 58 ksi



PART NO. DESIGNATION
 501
 L—PANEL #
 ()—DIAGONAL
 —SECTION #
 Note location of part no.



WAVEGUIDE LADDER CONNECTION

APPROX. TOWER SECTION WEIGHTS (lb):

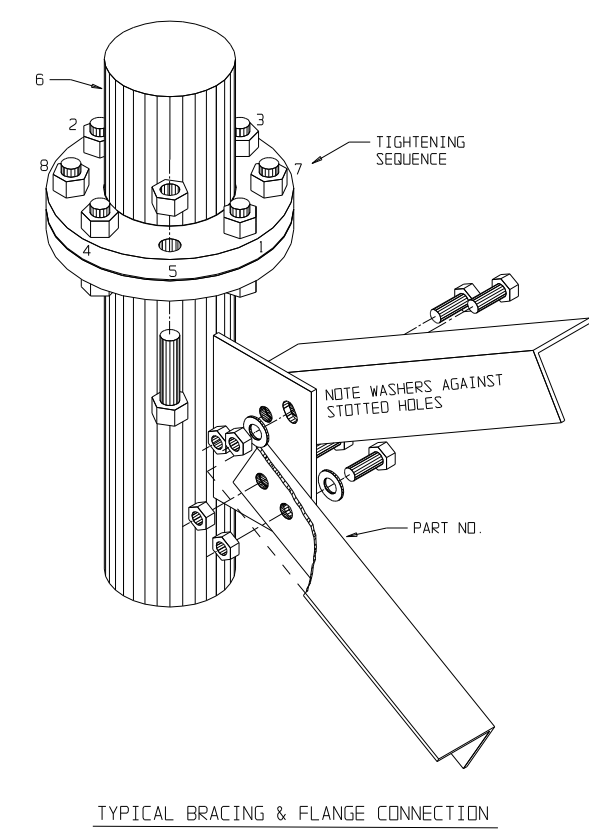
Section 9	: 131 +/-
Section 8	: 681 +/-
Section 7	: 848 +/-
Section 6	: 1000 +/-
Section 5	: 1343 +/-
Section 4	: 1791 +/-
Section 3	: 1862 +/-
Section 2	: 2470 +/-
Section 1	: 2525 +/-
Total Tower Weight	: 12654 +/-

Tower Loading Conditions

QTY	Antenna	Elevation	Windload	Deadload
2	Bogner BMR-10	165	343	80
2	2.0x4'x6' Boon	165	330	130
2	DB 516	165	196	25
2	2.0x4'x6' Boon	165	330	130
2	Mark 10' Grid	160	2299	286

QTY	Type	Elevation Start	Elevation Stop	#/ft	Windload	Deadload
2	LDF6-50 1-1/4	10	165	7.2	1.9	
2	LDF5-50A 7/8	10	165	5.9	1.3	
2	LDF6-50 1-1/4	10	160	7.1	1.9	

NOTE: Any deviation from the proposed design antenna loading will require a tower analysis for verification of structural integrity.



- GENERAL NOTES:**
- All bolts must be tightened to AISC "snug fit" specifications.
 - Step bolts are provided on one leg to the top of the tower and on three legs to the top of 2 panel sections.
 - Install safety climb equipment per manufacturer's specifications.
 - Install all hardware to facilitate in-place visual inspection.
 - Install hardened washers against all slotted connections.

Current as constructed site: Redfield (RED)

	FRED A. NUDD CORPORATION		
	Route 104*Ontario, New York 14519*315/524-2531		
	SCALE: N/S	DRAWN BY: ELR	APPROVED BY: THIS DRAWING IS THE PROPERTY OF THE FRED A. NUDD CORPORATION AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WITHOUT PRIOR WRITTEN PERMISSION BY THE FRED A. NUDD CORPORATION.
	DATE: 11/23/98		
DESIGN OF 165' S9BPA			
MID-STATE COMMUNICATIONS REDFIELD, NY		DRAWING NUMBER: 98-6389-1	