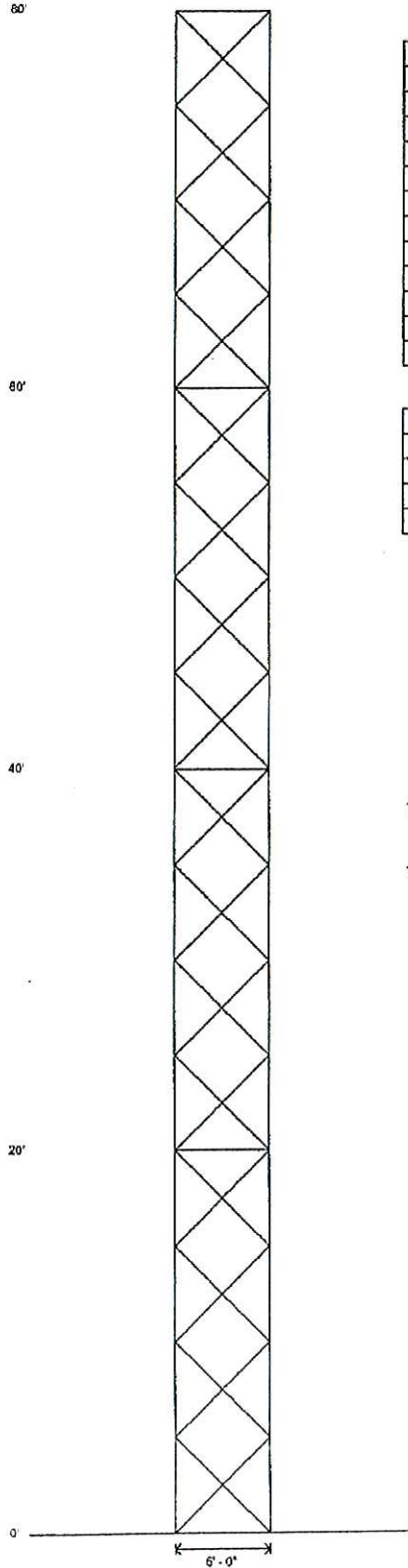


SIZES ARE PRELIMINARY AND MAY CHANGE UPON FINAL DESIGN									
Legs	5.553 OD X .375	4.500 OD X .337	3.500 OD X .300	2.875 OD X .278					
Diagonals					L 2 X 2 X 1/8	L 2 X 2 X 1/8	L 2 X 2 X 1/8	L 2 X 2 X 1/8	L 2 X 2 X 1/8
Polizontals	NONE				NONE	NONE	NONE	NONE	NONE
Brace Bolts									
Top Face Width					(1) 5/8"				
Panel Count/Height					5				
Section Weight	1871	1532	1059	843					



Designed Appurtenance Loading

Elev	Description	Tx-Line
80	10 sq. ft. EPA	(1) 1"
80	28.5 sq. ft. EPA	(1) 1"
80	3.2 sq. ft. EPA	(1) 1"
79	82.8 sq. ft. EPA	(4) 1"
77	16 sq. ft. EPA	
77	Platform - Fixed	
70	1.7 sq. ft. EPA	
70	(2) Leg Dish Mount	
70	(2) 4' H.P. Dishes	(2) EW85
50	1.7 sq. ft. EPA	
30	1.7 sq. ft. EPA	
10	1.7 sq. ft. EPA	

Base Reactions

Total Foundation		Individual Footing	
Shear (kips)	14.15	Shear (kips)	7.23
Axial (kips)	14.12	Compression (kips)	203
Moment (ft-kips)	845	Uplift (kips)	189
Torsion (ft-kips)	-2.91		

Notes

- 1) All legs are 60 ksi.
- 2) All braces are 36 ksi.
- 3) All brace bolts are A325-X.
- 4) The tower model is S3TL Series HD1.
- 5) Transmission lines are to be attached to standard 8 hole waveguide ladders.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- 8) (6) 1" dia. F1554 grade 105 anchor bolts per leg. Minimum 35.5" embedment from top of concrete to top of nut.
- 9) All unequal angles are oriented with the short leg vertical.
- 10) This tower was designed for a basic wind speed of 90 mph with 0" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class III, Exposure Category C, Topographic Category I.
- 11) The foundation loads shown are factored loads.

MATERIAL LIST			
MK#	ITEM	QTY	DESCRIPTION
33V1	2	EXTENSION WELDMENT X 18' LG.	WT# 53
41V1	1	PLATFORM WELDMENT	674
42V1	1	PLATFORM WELDMENT	128
43V1	1	HATCH DOOR WELDMENT	36
43V2	2	HINGE WELDMENT	2
44V1	2	CAMERA MOUNT WELDMENT X 5'-0" 3/8" LG.	116
45V1	1	LIGHTNING ROD WELDMENT X 5'-0" 3/8" LG.	59
47V1	1	DOOR LATCH WELDMENT	3
48V1	3	UPPER RAILING WELDMENT	47
48V2	3	LOWER RAILING WELDMENT	44
51V1	1	LIGHTNING ROD WELDMENT X 6'-0" 1/4" LG.	10
PL32A	3	3/8" X 6 1/2" PLATE A36 X 11 1/4" LG.	23
P34A	3	2 7/8" OD X .203" WALL PIPE A36 X 10'-3 1/16" LG. (LATCH)	178
P34B	1	4 1/2" OD X .237" WALL PIPE A36 X 6'-0" LG.	65
P34D	3	2 3/8" OD X .154" WALL PIPE A36 X 4'-6" LG.	49
G35B	1	1" X 1/8" BAR GRATING	24
A46B	6	1 1/2" X 1 1/2" X 3/16" ANGLE A36 X 10'-0" LG	108
PL47C	1	1/4" X 1 1/16" PLATE A36 X 4 3/8" LG (LATCH)	1
S5031	4	5/8"Ø X 2" BOLT A325 W/LW & NUT	2
S50430	15	1/2"Ø X 1 1/2" BOLT A325 W/LW, FW & NUT	3
S5030	4	3/8"Ø X 1 1/4" BOLT W/LW & NUT	1
S50250	1	1/4"Ø X 1" BOLT W/LW & NUT	1
S50420	13	U-BOLT 1/2"Ø X 2 1/2" X 4 1/2" W/(2) LV, (2) FV, & (2) NUTS	7
S50430	24	U-BOLT 1/2"Ø X 3" X 4 1/8" W/(2) LV, (2) FV, & (2) NUTS	11
S50480	20	U-BOLT 1/2"Ø X 4 9/16" X 5 3/4" W/(2) LV, (2) FV, & (2) NUTS	13
B6	4	1/4" - 14 X 2" LG HWH T-3 SELF TAPPING SCREW	--
S507050	9	7/8"Ø X 2 3/4" A325 BOLT W/LW, FW, & NUT	9
	4	SADDLE CLIPS	--

BLACK IRON WT = 1.620#
GALVANIZED WT = 1.780#

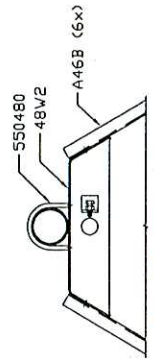
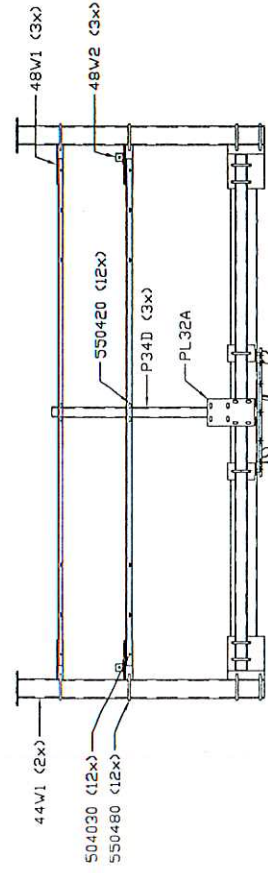
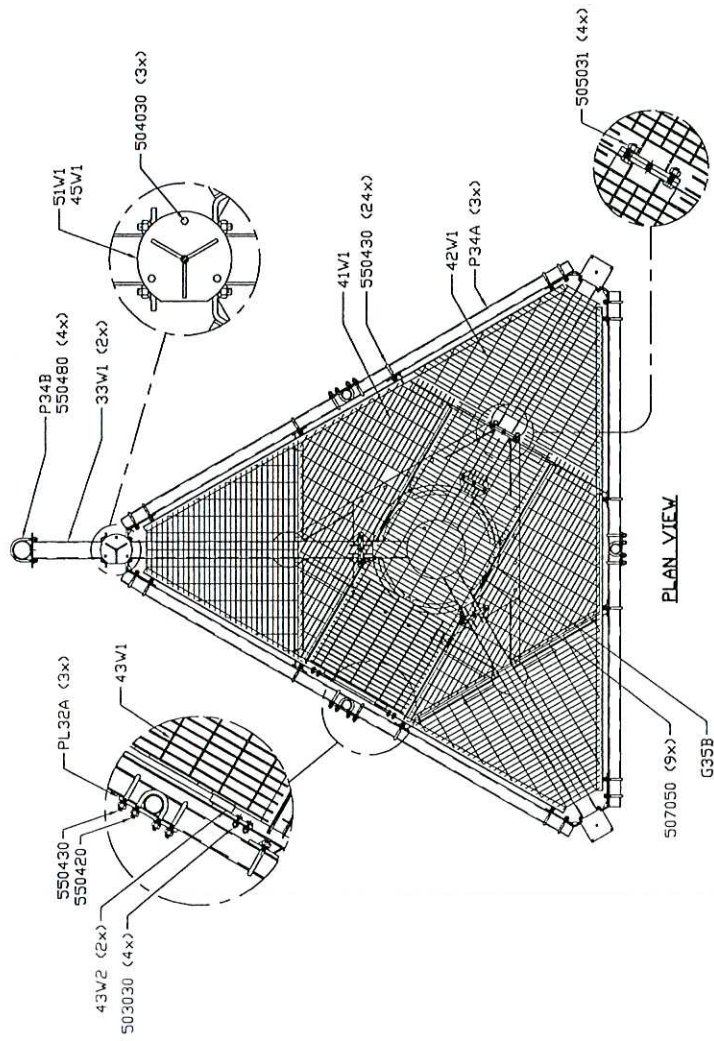


SADDLE CLIP INSTALLATION

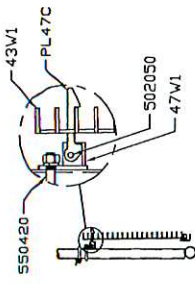
SITE:

PLATFORM
INSTALLATION

DATE: _____
BY: _____
CHECKED: _____
TEST OF



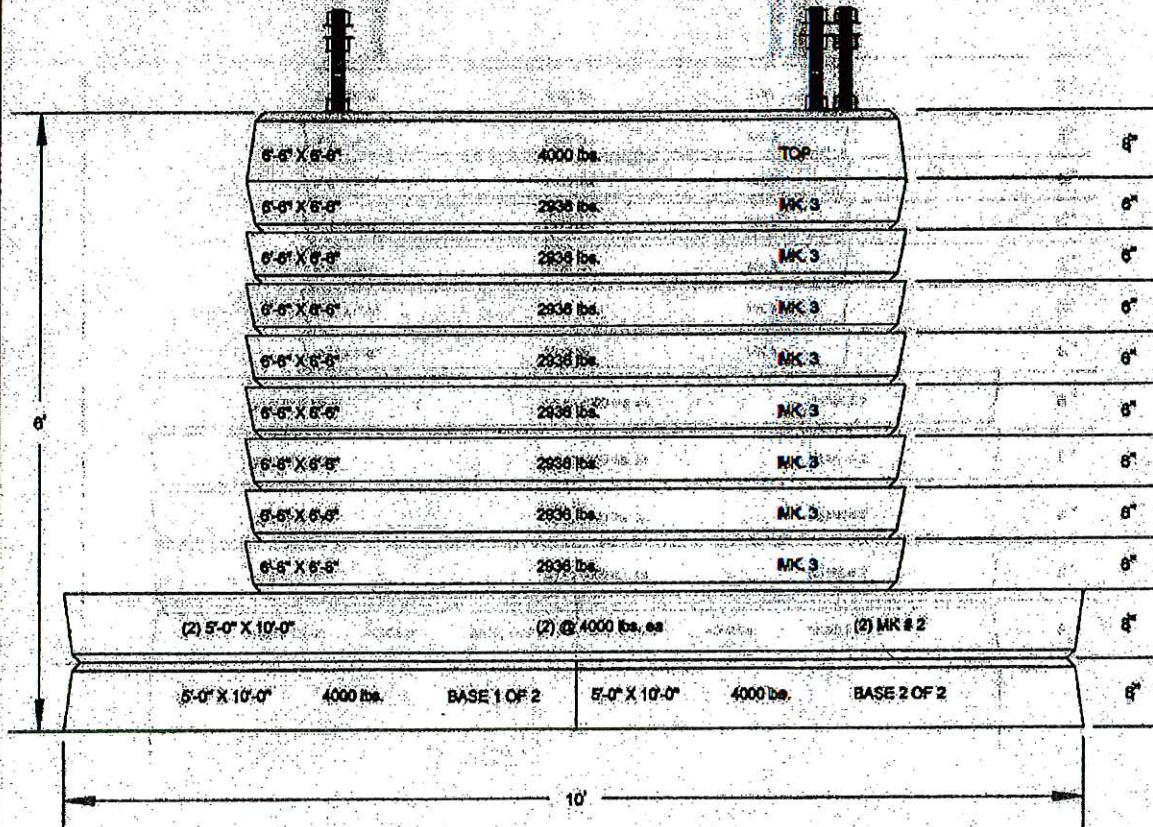
HATCH DOOR LATCH





Bill of Material

Qty	Description
1	Base Section 2 Pc 10' x 10' overall
1	#2 Section 2 Pc 10' x 10' Overall
8	MK #3 6' 6" x 6' 6"
1	MK Top 6' 6" x 6' 6"
6	1 1/2" x 78" Bolts & Hardware W/ 3 Nuts & 3 Flat Washers Each



Total Weight: 44,000 lbs.
OT @ 404 kips

6-- 1 1/2" x 78" Bolts
Grade 55

Elevation View