

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job 190' PTSGLP20 130 MPH	Page 1 of 39
	Project Perry Tower move to Lake City	Date 13:04:21 07/18/22
	Client Dockins Broadcasting	Designed by Owner

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 190.00 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 2.00 ft at the top and tapered at the base.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

Tower is located in Columbia County, Florida.

Basic wind speed of 130 mph.

Structure Class II.

Exposure Category C.

Topographic Category 1.

Crest Height 0.00 ft.

Deflections calculated using a wind speed of 60 mph.

Weld together tower sections have flange connections..

Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC

Specifications..

Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards..

Welds are fabricated with ER-70S-6 electrodes..

Pressures are calculated at each section.

Safety factor used in guy design is 1.

Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feedline supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	√	Distribute Leg Loads As Uniform	√	Treat Feedline Bundles As Cylinder
Consider Moments - Horizontals		Assume Legs Pinned		Use ASCE 10 X-Brace Ly Rules
Consider Moments - Diagonals		Assume Rigid Index Plate	√	Calculate Redundant Bracing Forces
Use Moment Magnification	√	Use Clear Spans For Wind Area		Ignore Redundant Members in FEA
√ Use Code Stress Ratios	√	Use Clear Spans For KL/r	√	SR Leg Bolts Resist Compression
√ Use Code Safety Factors - Guys	√	Retension Guys To Initial Tension	√	All Leg Panels Have Same Allowable
Escalate Ice		Bypass Mast Stability Checks		Offset Girt At Foundation
Always Use Max Kz	√	Use Azimuth Dish Coefficients	√	Consider Feedline Torque
Use Special Wind Profile	√	Project Wind Area of Appurt.		Include Angle Block Shear Check
√ Include Bolts In Member Capacity	√	Autocalc Torque Arm Areas		Poles
√ Leg Bolts Are At Top Of Section		SR Members Have Cut Ends		Include Shear-Torsion Interaction
√ Secondary Horizontal Braces Leg		Sort Capacity Reports By Component		Always Use Sub-Critical Flow
Use Diamond Inner Bracing (4 Sided)	√	Triangulate Diamond Inner Bracing		Use Top Mounted Sockets
Add IBC .6D+W Combination				

2022.07

.27

07:37:0

7 -04'00'

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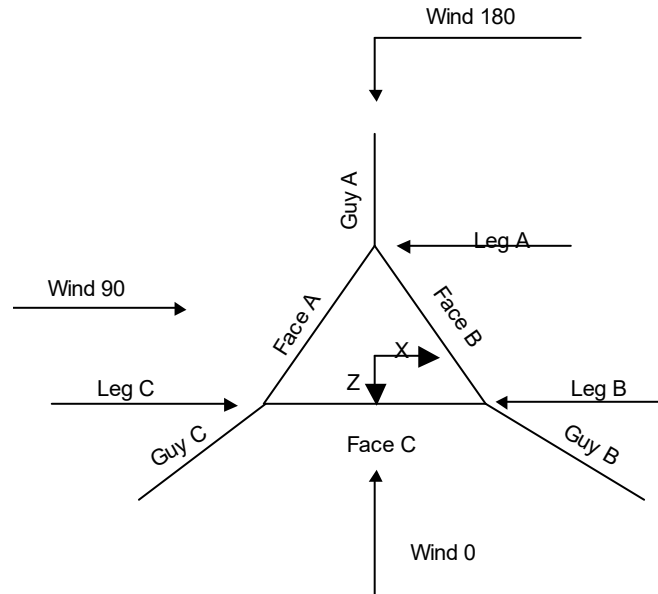
<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job 190' PTSGLP20 130 MPH	Page 2 of 39
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07:37:40

-04'00'



Corner & Starmount Guyed Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	190.00-180.00			2.00	1	10.00
T2	180.00-160.00			2.00	1	20.00
T3	160.00-140.00			2.00	1	20.00
T4	140.00-120.00			2.00	1	20.00
T5	120.00-100.00			2.00	1	20.00
T6	100.00-80.00			2.00	1	20.00
T7	80.00-60.00			2.00	1	20.00
T8	60.00-40.00			2.00	1	20.00
T9	40.00-20.00			2.00	1	20.00
T10	20.00-6.67			2.00	1	13.33
T11	6.67-0.00			2.00	1	6.67

Tower Section Geometry (cont'd)

RISATower**PRECISION TOWER
SYSTEMS LLC**

3948 Third Street South #135

Jacksonville Beach, FL 32250

Phone:

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2022.07.2

Job

190' PTSGLP20 130 MPH

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Project

Perry Tower move to Lake City

Date

13:04:21 07/18/22

Client

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Owner

7 07:37:52

-04'00'

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontal	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	190.00-180.00	3.08	K Brace Left	No	Yes+Steps	4.5000	4.5000
T2	180.00-160.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T3	160.00-140.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T4	140.00-120.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T5	120.00-100.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T6	100.00-80.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T7	80.00-60.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T8	60.00-40.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T9	40.00-20.00	3.21	K Brace Left	No	Yes+Steps	4.5000	4.5000
T10	20.00-6.67	2.10	K Brace Left	No	Yes+Steps	4.5000	4.5000
T11	6.67-0.00	2.96	K Brace Left	No	Yes+Steps	4.5000	4.5000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	3/4	A53-B-42 (42 ksi)
190.00-180.00				Round		A36 (36 ksi)
T2	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	3/4	A36 (36 ksi)
180.00-160.00				Round		A36 (36 ksi)
T3	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	7/8	A36 (36 ksi)
160.00-140.00				Round		A36 (36 ksi)
T4	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	3/4	A36 (36 ksi)
140.00-120.00				Round		A36 (36 ksi)
T5	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	7/8	A36 (36 ksi)
120.00-100.00				Round		A36 (36 ksi)
T6	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	3/4	A36 (36 ksi)
100.00-80.00				Round		A36 (36 ksi)
T7	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	3/4	A36 (36 ksi)
80.00-60.00				Round		A36 (36 ksi)
T8	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	7/8	A36 (36 ksi)
60.00-40.00				Round		A36 (36 ksi)
T9	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	3/4	A36 (36 ksi)
40.00-20.00				Round		A36 (36 ksi)
T10	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	7/8	A36 (36 ksi)
20.00-6.67				Round		A36 (36 ksi)
T11	Solid Round	1 1/2	A36M-50 (50 ksi)	Solid	7/8	A36 (36 ksi)
6.67-0.00				Round		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1	Solid Round	3/4	A36 (36 ksi)	Solid	3/4	A36 (36 ksi)
190.00-180.00				Round		A36 (36 ksi)
T2	Solid Round	3/4	A36 (36 ksi)	Solid	3/4	A36 (36 ksi)
180.00-160.00				Round		A36 (36 ksi)
T3	Solid Round	3/4	A36 (36 ksi)	Solid	3/4	A36 (36 ksi)
160.00-140.00				Round		A36 (36 ksi)
T4	Solid Round	3/4	A36	Solid	3/4	A36

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Project

Perry Tower move to Lake City

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Dockins Broadcasting

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Date

13:04:21 07/18/22

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Owner

7 07:38:07

-04'00'

<i>Tower Elevation ft</i>	<i>Top Girt Type</i>	<i>Top Girt Size</i>	<i>Top Girt Grade</i>	<i>Bottom Girt Type</i>	<i>Bottom Girt Size</i>	<i>Bottom Girt Grade</i>
140.00-120.00			(36 ksi)	Round		(36 ksi)
T5	Solid Round	3/4	A36	Solid	3/4	A36
120.00-100.00			(36 ksi)	Round		(36 ksi)
T6	Solid Round	3/4	A36	Solid	3/4	A36
100.00-80.00			(36 ksi)	Round		(36 ksi)
T7	Solid Round	3/4	A36	Solid	3/4	A36
80.00-60.00			(36 ksi)	Round		(36 ksi)
T8	Solid Round	3/4	A36	Solid	3/4	A36
60.00-40.00			(36 ksi)	Round		(36 ksi)
T9	Solid Round	3/4	A36	Solid	3/4	A36
40.00-20.00			(36 ksi)	Round		(36 ksi)
T10	Solid Round	3/4	A36	Solid	3/4	A36
20.00-6.67			(36 ksi)	Round		(36 ksi)
T11 6.67-0.00	Solid Round	3/4	A36	Solid	3/4	A36
			(36 ksi)	Round		(36 ksi)

Tower Section Geometry (cont'd)

<i>Tower Elevation ft</i>	<i>No. of Mid Girts</i>	<i>Mid Girt Type</i>	<i>Mid Girt Size</i>	<i>Mid Girt Grade</i>	<i>Horizontal Type</i>	<i>Horizontal Size</i>	<i>Horizontal Grade</i>
T1	None	Flat Bar		A36	Solid Round	3/4	A36
190.00-180.00				(36 ksi)			(36 ksi)
T2	None	Flat Bar		A36	Solid Round	3/4	A36
180.00-160.00				(36 ksi)			(36 ksi)
T3	None	Flat Bar		A36	Solid Round	3/4	A36
160.00-140.00				(36 ksi)			(36 ksi)
T4	None	Flat Bar		A36	Solid Round	3/4	A36
140.00-120.00				(36 ksi)			(36 ksi)
T5	None	Flat Bar		A36	Solid Round	3/4	A36
120.00-100.00				(36 ksi)			(36 ksi)
T6	None	Flat Bar		A36	Solid Round	3/4	A36
100.00-80.00				(36 ksi)			(36 ksi)
T7	None	Flat Bar		A36	Solid Round	3/4	A36
80.00-60.00				(36 ksi)			(36 ksi)
T8	None	Flat Bar		A36	Solid Round	3/4	A36
60.00-40.00				(36 ksi)			(36 ksi)
T9	None	Flat Bar		A36	Solid Round	3/4	A36
40.00-20.00				(36 ksi)			(36 ksi)
T10	None	Flat Bar		A36	Solid Round	3/4	A36
20.00-6.67				(36 ksi)			(36 ksi)
T11 6.67-0.00	None	Flat Bar		A36	Solid Round	3/4	A36
				(36 ksi)			(36 ksi)

Tower Section Geometry (cont'd)

1998. *Journal of the American Academy of Child and Adolescent Psychiatry*, 37, 10, 1133-1140.



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-04'00'

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in
ft	ft^2	in						
T1 190.00-180.00	0.00	0.0000	A36 (36 ksi)	1	1.01	1.01	36.0000	36.0000
T2 180.00-160.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T3 160.00-140.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T4 140.00-120.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T5 120.00-100.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T6 100.00-80.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T7 80.00-60.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T8 60.00-40.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T9 40.00-20.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T10 20.00-6.67	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000
T11 6.67-0.00	0.00	0.0000	A36 (36 ksi)	1	1	1	36.0000	36.0000

Tower Section Geometry (cont'd)

[illegible]

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	Client	Dockins Broadcasting	Designed by	Owner

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Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹						
				X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
0										
T7	No	No	1	1	1	1	1	1	1	1
80.00-60.00				1	1	1	1	1	1	1
T8	No	No	1	1	1	1	1	1	1	1
60.00-40.00				1	1	1	1	1	1	1
T9	No	No	1	1	1	1	1	1	1	1
40.00-20.00				1	1	1	1	1	1	1
T10	No	No	1	1	1	1	1	1	1	1
20.00-6.67				1	1	1	1	1	1	1
T11	No	No	1	1	1	1	1	1	1	1
6.67-0.00				1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct t in	U	Net Width Deduct t in	U	Net Width Deduct t in	U	Net Width Deduct t in	U
T1	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
190.00-180.00							0		0		0		0	
T2	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
180.00-160.00							0		0		0		0	
T3	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
160.00-140.00							0		0		0		0	
T4	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
140.00-120.00							0		0		0		0	
T5	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
120.00-100.00							0		0		0		0	
T6	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
100.00-80.00							0		0		0		0	
T7	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
80.00-60.00							0		0		0		0	
T8	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
60.00-40.00							0		0		0		0	
T9	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
40.00-20.00							0		0		0		0	
T10	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
20.00-6.67							0		0		0		0	
T11	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
6.67-0.00							0		0		0		0	

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9 -04'00"

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connecti on Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No .	Bolt Size in	No .	Bolt Size in	No .	Bolt Size in	No .	Bolt Size in	No .	Bolt Size in	No .	Bolt Size in	No .
T1 190.00-180. 00	Flange	0.7500 A325N	4	0.5000 A325N	1	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T2 180.00-160. 00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T3 160.00-140. 00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T4 140.00-120. 00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T5 120.00-100. 00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T6 100.00-80.0 0	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T7 80.00-60.00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T8 60.00-40.00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T9 40.00-20.00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T10 20.00-6.67	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T11 6.67-0.00	Flange	0.7500 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0

Guy Data

Guy Elevation ft	Guy Grade	Guy Size	Initial Tension lb	%	Guy Modulu s ksi	Guy Weight plf	L _u ft	Anchor Radius ft	Anchor Azimut h Adj. °	Anchor Elevation ft	End Fitting Efficien cy %
189.625	EHS	1 7/16	2080.00	10	21000	0.399	227.41	130.00	0.0000	2.00	100%
		1 7/16	2080.00	%	21000	0.399	227.41	130.00	0.0000	2.00	100%
		C 7/16	2080.00	10	21000	0.399	227.41	130.00	0.0000	2.00	100%
				%							
				10							
				%							

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149'	EHS	7/16	2080.00	10	21000	0.399	195.31	130.00	0.0000	2.00	100%
	I	7/16	2080.00	%	21000	0.399	195.31	130.00	0.0000	2.00	100%
	C	7/16	2080.00	10	21000	0.399	195.31	130.00	0.0000	2.00	100%
				%							
				10							
				%							
99	EHS	3/8	1540.00	10	21000	0.273	161.13	130.00	0.0000	2.00	100%
	I	3/8	1540.00	%	21000	0.273	161.13	130.00	0.0000	2.00	100%
	C	3/8	1540.00	10	21000	0.273	161.13	130.00	0.0000	2.00	100%
				%							
				10							
				%							
49	EHS	3/8	1540.00	10	21000	0.273	137.03	130.00	0.0000	2.00	100%
	I	3/8	1540.00	%	21000	0.273	137.03	130.00	0.0000	2.00	100%
	C	3/8	1540.00	10	21000	0.273	137.03	130.00	0.0000	2.00	100%
				%							
				10							
				%							

Guy Data(cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
189.625	Corner						
149	Corner						
99	Corner						
49	Corner						

Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap	Pull-Off Grade	Pull-Off Type	Pull-Off Size
189.63	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Flat Bar	1x1/2
149.00	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Flat Bar	1x1/2
99.00	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Flat Bar	1x1/2
49.00	A572-50 (50 ksi)	Solid Round			No	A572-50 (50 ksi)	Flat Bar	1x1/2

Guy Data (cont'd)

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	Client	Dockins Broadcasting	Designed by	Owner

7 07:39:07

-04'00'

Guy Elevation	Cable Weight A lb	Cable Weight B lb	Cable Weight C lb	Cable Weight D lb	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
189.625	90.74	90.74	90.74		4.88	4.88	4.88	
					3.8	3.8	3.8 sec/pulse	
149	77.93	77.93	77.93		3.61	3.61	3.61	
					3.3	3.3	3.3 sec/pulse	
99	43.99	43.99	43.99		2.28	2.28	2.28	
					2.6	2.6	2.6 sec/pulse	
49	37.41	37.41	37.41		1.66	1.66	1.66	
					2.2	2.2	2.2 sec/pulse	
					sec/pulse	sec/pulse		

Guy Data (cont'd)

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm		Pull Off		Diagonal	
			K _x	K _y	K _x	K _y	K _x	K _y
189.625	No	No			1	1	1	1
149	No	No			1	1	1	1
99	No	No			1	1	1	1
49	No	No			1	1	1	1

Guy Data (cont'd)

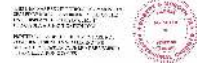
Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Numbe r	Net Width Deduct in	U	Bolt Size in	Numbe r	Net Width Deduct in	U	Bolt Size in	Numbe r	Net Width Deduct in	U
189.625	0.6250 A325N	0	0.0000	0.75	0.0000 A325N	0	0.0000	1	0.0000 A325N	0	0.0000	1
149	0.6250 A325N	0	0.0000	0.75	0.0000 A325N	0	0.0000	1	0.0000 A325N	0	0.0000	1
99	0.6250 A325N	0	0.0000	0.75	0.0000 A325N	0	0.0000	1	0.0000 A325N	0	0.0000	1
49	0.6250 A325N	0	0.0000	0.75	0.0000 A325N	0	0.0000	1	0.0000 A325N	0	0.0000	1

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q _z psf	q _z Ice psf	Ice Thickness in
189.625	A	95.81	46		
	B	95.81	46		
	C	95.81	46		

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Guy Elevation ft	Guy Location	z ft	qz psf	qz Ice psf	Ice Thickness in
149	A	75.50	44		
	B	75.50	44		
	C	75.50	44		
99	A	50.50	40		
	B	50.50	40		
	C	50.50	40		
49	A	25.50	35		
	B	25.50	35		
	C	25.50	35		



2022.07.2
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-04'00'

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Lead g	Allow Shie ld	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#		C _{AA} ft ² /ft	Weight plf
FLC 78-50J (7/8 FOAM)	B	No	CaAa (In Face)	100.00 - 5.00	0.0000	0.45	1	No Ice	0.11	0.40
FLC 158-50J (1-5/8 FOAM)	C	No	CaAa (In Face)	155.00 - 5.00	0.0000	0.45	1	No Ice	0.20	0.92

Feed Line/Linear Appurtenances Section Areas

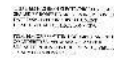
Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
T1	190.00-180.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T2	180.00-160.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
T3	160.00-140.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	3.030	0.000	13.80
T4	140.00-120.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	4.040	0.000	18.40
T5	120.00-100.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	4.040	0.000	18.40
T6	100.00-80.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.220	0.000	8.00
		C	0.000	0.000	4.040	0.000	18.40
T7	80.00-60.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.220	0.000	8.00
		C	0.000	0.000	4.040	0.000	18.40
T8	60.00-40.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	2.220	0.000	8.00
		C	0.000	0.000	4.040	0.000	18.40
T9	40.00-20.00	A	0.000	0.000	0.000	0.000	0.00

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job	190' PTSGLP20 130 MPH	Page	11 of 39
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-04'00'



Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight lb
T10	20.00-6.67	B	0.000	0.000	2.220	0.000	8.00
		C	0.000	0.000	4.040	0.000	18.40
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	1.480	0.000	5.33
T11	6.67-0.00	C	0.000	0.000	2.693	0.000	12.26
		A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.185	0.000	0.67
		C	0.000	0.000	0.337	0.000	1.54

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	190.00-180.00	0.0000	0.0000	0.0000	0.0000
T2	180.00-160.00	0.0000	0.0000	0.0000	0.0000
T3	160.00-140.00	-0.9430	0.6049	-0.9430	0.6049
T4	140.00-120.00	-1.1602	0.7442	-1.1602	0.7442
T5	120.00-100.00	-1.1400	0.7313	-1.1400	0.7313
T6	100.00-80.00	-0.3902	0.8745	-0.3902	0.8745
T7	80.00-60.00	-0.3941	0.8833	-0.3941	0.8833
T8	60.00-40.00	-0.3848	0.8623	-0.3848	0.8623
T9	40.00-20.00	-0.3941	0.8833	-0.3941	0.8833
T10	20.00-6.67	-0.3733	0.8366	-0.3733	0.8366
T11	6.67-0.00	-0.1608	0.3604	-0.1608	0.3604

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T3	2	FLC 158-50J (1-5/8 FOAM)	140.00 - 155.00	1.0000	1.0000
T4	2	FLC 158-50J (1-5/8 FOAM)	120.00 - 140.00	1.0000	1.0000
T5	2	FLC 158-50J (1-5/8 FOAM)	100.00 - 120.00	1.0000	1.0000
T6	1	FLC 78-50J (7/8 FOAM)	80.00 - 100.00	1.0000	1.0000
T6	2	FLC 158-50J (1-5/8 FOAM)	80.00 - 100.00	1.0000	1.0000
T7	1	FLC 78-50J (7/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T7	2	FLC 158-50J (1-5/8 FOAM)	60.00 - 80.00	1.0000	1.0000
T8	1	FLC 78-50J (7/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T8	2	FLC 158-50J (1-5/8 FOAM)	40.00 - 60.00	1.0000	1.0000
T9	1	FLC 78-50J (7/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T9	2	FLC 158-50J (1-5/8 FOAM)	20.00 - 40.00	1.0000	1.0000
T10	1	FLC 78-50J (7/8 FOAM)	6.67 - 20.00	1.0000	1.0000
T10	2	FLC 158-50J (1-5/8 FOAM)	6.67 - 20.00	1.0000	1.0000
T11	1	FLC 78-50J (7/8 FOAM)	5.00 - 6.67	1.0000	1.0000
T11	2	FLC 158-50J (1-5/8 FOAM)	5.00 - 6.67	1.0000	1.0000

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-04'00"

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
6810-2	C	From Face	0.00 0.00 0.00	0.0000	185.00 - 155.00	No Ice	10.80 10.80	247.00

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight lb
6 FT DISH	C	Grid	From Leg	0.00 0.00 0.00	0.0000		100.00	6.00	No Ice 28.27	143.00

Tower Pressures - No Ice

$$G_H = 0.850$$

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e ft ²	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg % ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T1 190.00-180.00	185.00	1.441	53	21.250	A B C	0.156 0.156 0.156	3.533 3.533 3.533	2.500	67.77 67.77 67.77	0.000 0.000 0.000	0.000 0.000 0.000
T2 180.00-160.00	170.00	1.415	52	42.500	A B C	0.000 0.000 0.000	7.149 7.149 7.149	5.000	69.94 69.94 69.94	0.000 0.000 0.000	0.000 0.000 0.000
T3 160.00-140.00	150.00	1.378	51	42.500	A B C	0.156 0.156 0.156	7.371 7.371 7.371	5.000	66.43 66.43 66.43	0.000 0.000 3.030	0.000 0.000 0.000
T4 140.00-120.00	130.00	1.337	49	42.500	A B C	0.000 0.000 0.000	7.149 7.149 7.149	5.000	69.94 69.94 69.94	0.000 0.000 4.040	0.000 0.000 0.000
T5 120.00-100.00	110.00	1.291	47	42.500	A B C	0.000 0.000 0.000	7.371 7.371 7.371	5.000	67.83 67.83 67.83	0.000 0.000 4.040	0.000 0.000 0.000
T6 100.00-80.00	90.00	1.238	46	42.500	A B C	0.156 0.156 0.156	7.149 7.149 7.149	5.000	68.44 68.44 68.44	0.000 2.220 4.040	0.000 0.000 0.000

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job 190' PTSGLP20 130 MPH	Page 13 of 39
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07:39:51

-04'00'

Section Elevation	<i>z</i>	<i>K_Z</i>	<i>q_z</i>	<i>A_G</i>	<i>F_a</i> <i>c</i> <i>e</i>	<i>A_F</i>	<i>A_R</i>	<i>A_{leg}</i>	<i>Leg</i> %	<i>C_{AA}</i> <i>In</i> Face <i>ft</i> ²	<i>C_{AA}</i> <i>Out</i> Face <i>ft</i> ²
<i>ft</i>	<i>ft</i>		<i>psf</i>	<i>ft</i> ²		<i>ft</i> ²	<i>ft</i> ²	<i>ft</i> ²		<i>ft</i> ²	<i>ft</i> ²
T7 80.00-60.00	70.00	1.174	43	42.500	A	0.000	7.149	5.000	69.94	0.000	0.000
					B	0.000	7.149		69.94	2.220	0.000
					C	0.000	7.149		69.94	4.040	0.000
T8 60.00-40.00	50.00	1.094	40	42.500	A	0.156	7.371	5.000	66.43	0.000	0.000
					B	0.156	7.371		66.43	2.220	0.000
					C	0.156	7.371		66.43	4.040	0.000
T9 40.00-20.00	30.00	0.982	36	42.500	A	0.000	7.149	5.000	69.94	0.000	0.000
					B	0.000	7.149		69.94	2.220	0.000
					C	0.000	7.149		69.94	4.040	0.000
T10 20.00-6.67	13.34	0.85	31	28.326	A	0.000	5.341	3.333	62.39	0.000	0.000
					B	0.000	5.341		62.39	1.480	0.000
					C	0.000	5.341		62.39	2.693	0.000
T11 6.67-0.00	3.34	0.85	31	7.513	A	0.000	2.077	1.692	81.46	0.000	0.000
					B	0.000	2.077		81.46	0.185	0.000
					C	0.000	2.077		81.46	0.337	0.000

Tower Pressure - Service

$$G_H = 0.850$$

Section Elevation	<i>z</i>	<i>K_Z</i>	<i>q_z</i>	<i>A_G</i>	<i>F_a</i> <i>c</i> <i>e</i>	<i>A_F</i>	<i>A_R</i>	<i>A_{leg}</i>	<i>Leg</i> %	<i>C_{AA}</i> <i>In</i> Face <i>ft</i> ²	<i>C_{AA}</i> <i>Out</i> Face <i>ft</i> ²
<i>ft</i>	<i>ft</i>		<i>psf</i>	<i>ft</i> ²		<i>ft</i> ²	<i>ft</i> ²	<i>ft</i> ²		<i>ft</i> ²	<i>ft</i> ²
T1 190.00-180.00	185.00	1.441	11	21.250	A	0.156	3.533	2.500	67.77	0.000	0.000
					B	0.156	3.533		67.77	0.000	0.000
					C	0.156	3.533		67.77	0.000	0.000
T2 180.00-160.00	170.00	1.415	11	42.500	A	0.000	7.149	5.000	69.94	0.000	0.000
					B	0.000	7.149		69.94	0.000	0.000
					C	0.000	7.149		69.94	0.000	0.000
T3 160.00-140.00	150.00	1.378	11	42.500	A	0.156	7.371	5.000	66.43	0.000	0.000
					B	0.156	7.371		66.43	0.000	0.000
					C	0.156	7.371		66.43	3.030	0.000
T4 140.00-120.00	130.00	1.337	10	42.500	A	0.000	7.149	5.000	69.94	0.000	0.000
					B	0.000	7.149		69.94	0.000	0.000
					C	0.000	7.149		69.94	4.040	0.000
T5 120.00-100.00	110.00	1.291	10	42.500	A	0.000	7.371	5.000	67.83	0.000	0.000
					B	0.000	7.371		67.83	0.000	0.000
					C	0.000	7.371		67.83	4.040	0.000
T6 100.00-80.00	90.00	1.238	10	42.500	A	0.156	7.149	5.000	68.44	0.000	0.000
					B	0.156	7.149		68.44	2.220	0.000
					C	0.156	7.149		68.44	4.040	0.000
T7 80.00-60.00	70.00	1.174	9	42.500	A	0.000	7.149	5.000	69.94	0.000	0.000
					B	0.000	7.149		69.94	2.220	0.000
					C	0.000	7.149		69.94	4.040	0.000
T8 60.00-40.00	50.00	1.094	9	42.500	A	0.156	7.371	5.000	66.43	0.000	0.000
					B	0.156	7.371		66.43	2.220	0.000
					C	0.156	7.371		66.43	4.040	0.000
T9 40.00-20.00	30.00	0.982	8	42.500	A	0.000	7.149	5.000	69.94	0.000	0.000
					B	0.000	7.149		69.94	2.220	0.000
					C	0.000	7.149		69.94	4.040	0.000
T10 20.00-6.67	13.34	0.85	7	28.326	A	0.000	5.341	3.333	62.39	0.000	0.000
					B	0.000	5.341		62.39	1.480	0.000
					C	0.000	5.341		62.39	2.693	0.000
T11 6.67-0.00	3.34	0.85	7	7.513	A	0.000	2.077	1.692	81.46	0.000	0.000
					B	0.000	2.077		81.46	0.185	0.000

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job	190' PTSGLP20 130 MPH	Page	14 of 39
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	Client	Dockins Broadcasting	Designed by	Owner

Section Elevation	z	Kz	qz	AG	F a c e	AF	AR	Aleg	Leg %	CAAA In Face ft²	CAAA Out Face ft²
ft	ft		psf	ft²	C	ft²	ft²	ft²		ft²	ft²
					C	0.000	2.077		81.46	0.337	0.000



2022.07.
27
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-04'00'

Tower Forces - No Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	CF	qz	DF	DR	AE	F	w	Ctrl. Face
ft	lb	lb	e			psf			ft²	lb	plf	
T1	0.00	270.06	A	0.174	2.687	53	1	1	2.171	262.66	26.27	C
190.00-180.0			B	0.174	2.687		1	1	2.171			
0			C	0.174	2.687		1	1	2.171			
T2	0.00	526.24	A	0.168	2.706	52	1	1	4.073	487.44	24.37	C
180.00-160.0			B	0.168	2.706		1	1	4.073			
0			C	0.168	2.706		1	1	4.073			
T3	13.80	573.39	A	0.177	2.674	51	1	1	4.364	633.38	31.67	C
160.00-140.0			B	0.177	2.674		1	1	4.364			
0			C	0.177	2.674		1	1	4.364			
T4	18.40	526.24	A	0.168	2.706	49	1	1	4.073	629.57	31.48	C
140.00-120.0			B	0.168	2.706		1	1	4.073			
0			C	0.168	2.706		1	1	4.073			
T5	18.40	563.18	A	0.173	2.687	47	1	1	4.204	619.02	30.95	C
120.00-100.0			B	0.173	2.687		1	1	4.204			
0			C	0.173	2.687		1	1	4.204			
T6	26.40	536.44	A	0.172	2.693	46	1	1	4.232	683.15	34.16	C
100.00-80.00			B	0.172	2.693		1	1	4.232			
			C	0.172	2.693		1	1	4.232			
T7	26.40	526.24	A	0.168	2.706	43	1	1	4.073	634.12	31.71	C
80.00-60.00			B	0.168	2.706		1	1	4.073			
			C	0.168	2.706		1	1	4.073			
T8	26.40	573.39	A	0.177	2.674	40	1	1	4.364	613.02	30.65	C
60.00-40.00			B	0.177	2.674		1	1	4.364			
			C	0.177	2.674		1	1	4.364			
T9	26.40	526.24	A	0.168	2.706	36	1	1	4.073	530.52	26.53	C
40.00-20.00			B	0.168	2.706		1	1	4.073			
			C	0.168	2.706		1	1	4.073			
T10	17.60	410.33	A	0.189	2.635	31	1	1	3.058	324.94	24.38	C
20.00-6.67			B	0.189	2.635		1	1	3.058			
			C	0.189	2.635		1	1	3.058			
T11	2.20	155.41	A	0.277	2.36	31	1	1	1.230	91.01	13.65	C
6.67-0.00			B	0.277	2.36		1	1	1.230			
			C	0.277	2.36		1	1	1.230			
Sum Weight:	176.00	5187.14								5508.82		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	CF	qz	DF	DR	AE	F	w	Ctrl. Face
ft	lb	lb	e			psf			ft²	lb	plf	
T1	0.00	270.06	A	0.174	2.687	53	0.8	1	2.140	258.88	25.89	C
190.00-180.0			B	0.174	2.687		0.8	1	2.140			
0			C	0.174	2.687		0.8	1	2.140			

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job	190' PTSGLP20 130 MPH	Page	15 of 39
	Project	Perry Tower move to Lake City	Date	13:04:21 07/18/22
	Client	Dockins Broadcasting	Designed by	Owner

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T2	0.00	526.24	A	0.168	2.706	52	0.8	1	4.073	487.44	24.37	C
180.00-160.0			B	0.168	2.706		0.8	1	4.073			
0			C	0.168	2.706		0.8	1	4.073			
T3	13.80	573.39	A	0.177	2.674	51	0.8	1	4.333	629.77	31.49	C
160.00-140.0			B	0.177	2.674		0.8	1	4.333			
0			C	0.177	2.674		0.8	1	4.333			
T4	18.40	526.24	A	0.168	2.706	49	0.8	1	4.073	629.57	31.48	C
140.00-120.0			B	0.168	2.706		0.8	1	4.073			
0			C	0.168	2.706		0.8	1	4.073			
T5	18.40	563.18	A	0.173	2.687	47	0.8	1	4.204	619.02	30.95	C
120.00-100.0			B	0.173	2.687		0.8	1	4.204			
0			C	0.173	2.687		0.8	1	4.204			
T6	26.40	536.44	A	0.172	2.693	46	0.8	1	4.201	679.90	33.99	C
100.00-80.00			B	0.172	2.693		0.8	1	4.201			
			C	0.172	2.693		0.8	1	4.201			
T7	26.40	526.24	A	0.168	2.706	43	0.8	1	4.073	634.12	31.71	C
80.00-60.00			B	0.168	2.706		0.8	1	4.073			
			C	0.168	2.706		0.8	1	4.073			
T8	26.40	573.39	A	0.177	2.674	40	0.8	1	4.333	610.17	30.51	C
60.00-40.00			B	0.177	2.674		0.8	1	4.333			
			C	0.177	2.674		0.8	1	4.333			
T9	26.40	526.24	A	0.168	2.706	36	0.8	1	4.073	530.52	26.53	C
40.00-20.00			B	0.168	2.706		0.8	1	4.073			
			C	0.168	2.706		0.8	1	4.073			
T10	17.60	410.33	A	0.189	2.635	31	0.8	1	3.058	324.94	24.38	C
20.00-6.67			B	0.189	2.635		0.8	1	3.058			
			C	0.189	2.635		0.8	1	3.058			
T11	2.20	155.41	A	0.277	2.36	31	0.8	1	1.230	91.01	13.65	C
6.67-0.00			B	0.277	2.36		0.8	1	1.230			
			C	0.277	2.36		0.8	1	1.230			
Sum Weight:	176.00	5187.14								5495.32		

2022.07.
27
07:40:16
-04'00'

Tower Forces - No Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1	0.00	270.06	A	0.174	2.687	53	0.85	1	2.148	259.82	25.98	C
190.00-180.0			B	0.174	2.687		0.85	1	2.148			
0			C	0.174	2.687		0.85	1	2.148			
T2	0.00	526.24	A	0.168	2.706	52	0.85	1	4.073	487.44	24.37	C
180.00-160.0			B	0.168	2.706		0.85	1	4.073			
0			C	0.168	2.706		0.85	1	4.073			
T3	13.80	573.39	A	0.177	2.674	51	0.85	1	4.341	630.68	31.53	C
160.00-140.0			B	0.177	2.674		0.85	1	4.341			
0			C	0.177	2.674		0.85	1	4.341			
T4	18.40	526.24	A	0.168	2.706	49	0.85	1	4.073	629.57	31.48	C
140.00-120.0			B	0.168	2.706		0.85	1	4.073			
0			C	0.168	2.706		0.85	1	4.073			
T5	18.40	563.18	A	0.173	2.687	47	0.85	1	4.204	619.02	30.95	C
120.00-100.0			B	0.173	2.687		0.85	1	4.204			
0			C	0.173	2.687		0.85	1	4.204			
T6	26.40	536.44	A	0.172	2.693	46	0.85	1	4.209	680.71	34.04	C

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job	190' PTSGLP20 130 MPH	Page	16 of 39
	Project	Perry Tower move to Lake City	Date	13:04:21 07/18/22
	Client	Dockins Broadcasting	Designed by	Owner

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
100.00-80.00			B	0.172	2.693		0.85	1	4.209			
			C	0.172	2.693		0.85	1	4.209			
T7	26.40	526.24	A	0.168	2.706	43	0.85	1	4.073	634.12	31.71	C
80.00-60.00			B	0.168	2.706		0.85	1	4.073			
			C	0.168	2.706		0.85	1	4.073			
T8	26.40	573.39	A	0.177	2.674	40	0.85	1	4.341	610.88	30.54	C
60.00-40.00			B	0.177	2.674		0.85	1	4.341			
			C	0.177	2.674		0.85	1	4.341			
T9	26.40	526.24	A	0.168	2.706	36	0.85	1	4.073	530.52	26.53	C
40.00-20.00			B	0.168	2.706		0.85	1	4.073			
			C	0.168	2.706		0.85	1	4.073			
T10	17.60	410.33	A	0.189	2.635	31	0.85	1	3.058	324.94	24.38	C
20.00-6.67			B	0.189	2.635		0.85	1	3.058			
			C	0.189	2.635		0.85	1	3.058			
T11	2.20	155.41	A	0.277	2.36	31	0.85	1	1.230	91.01	13.65	C
6.67-0.00			B	0.277	2.36		0.85	1	1.230			
			C	0.277	2.36		0.85	1	1.230			
Sum Weight:	176.00	5187.14								5498.70		

Tower Forces - Service - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1	0.00	270.06	A	0.174	2.687	11	1	1	2.171	55.95	5.60	C
190.00-180.0			B	0.174	2.687		1	1	2.171			
0			C	0.174	2.687		1	1	2.171			
T2	0.00	526.24	A	0.168	2.706	11	1	1	4.073	103.83	5.19	C
180.00-160.0			B	0.168	2.706		1	1	4.073			
0			C	0.168	2.706		1	1	4.073			
T3	13.80	573.39	A	0.177	2.674	11	1	1	4.364	134.92	6.75	C
160.00-140.0			B	0.177	2.674		1	1	4.364			
0			C	0.177	2.674		1	1	4.364			
T4	18.40	526.24	A	0.168	2.706	10	1	1	4.073	134.11	6.71	C
140.00-120.0			B	0.168	2.706		1	1	4.073			
0			C	0.168	2.706		1	1	4.073			
T5	18.40	563.18	A	0.173	2.687	10	1	1	4.204	131.86	6.59	C
120.00-100.0			B	0.173	2.687		1	1	4.204			
0			C	0.173	2.687		1	1	4.204			
T6	26.40	536.44	A	0.172	2.693	10	1	1	4.232	145.52	7.28	C
100.00-80.00			B	0.172	2.693		1	1	4.232			
			C	0.172	2.693		1	1	4.232			
T7	26.40	526.24	A	0.168	2.706	9	1	1	4.073	135.08	6.75	C
80.00-60.00			B	0.168	2.706		1	1	4.073			
			C	0.168	2.706		1	1	4.073			
T8	26.40	573.39	A	0.177	2.674	9	1	1	4.364	130.58	6.53	C
60.00-40.00			B	0.177	2.674		1	1	4.364			
			C	0.177	2.674		1	1	4.364			
T9	26.40	526.24	A	0.168	2.706	8	1	1	4.073	113.01	5.65	C
40.00-20.00			B	0.168	2.706		1	1	4.073			
			C	0.168	2.706		1	1	4.073			
T10	17.60	410.33	A	0.189	2.635	7	1	1	3.058	69.22	5.19	C
20.00-6.67			B	0.189	2.635		1	1	3.058			

2022.07
.27
07:40:2
8 -04'00'

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job	190' PTSGLP20 130 MPH	Page	17 of 39
	Project	Perry Tower move to Lake City	Date	13:04:21 07/18/22
	Client	Dockins Broadcasting	Designed by	Owner

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T11	2.20	155.41	C	0.189	2.635		1	1	3.058			
6.67-0.00			A	0.277	2.36	7	1	1	1.230	19.39	2.91	C
			B	0.277	2.36		1	1	1.230			
			C	0.277	2.36		1	1	1.230			
Sum Weight:	176.00	5187.14								1173.48		

2022.0
7.27
07:40:4
2
-04'00'

Tower Forces - Service - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1	0.00	270.06	A	0.174	2.687	11	0.8	1	2.140	55.15	5.51	C
190.00-180.0			B	0.174	2.687		0.8	1	2.140			
0			C	0.174	2.687		0.8	1	2.140			
T2	0.00	526.24	A	0.168	2.706	11	0.8	1	4.073	103.83	5.19	C
180.00-160.0			B	0.168	2.706		0.8	1	4.073			
0			C	0.168	2.706		0.8	1	4.073			
T3	13.80	573.39	A	0.177	2.674	11	0.8	1	4.333	134.15	6.71	C
160.00-140.0			B	0.177	2.674		0.8	1	4.333			
0			C	0.177	2.674		0.8	1	4.333			
T4	18.40	526.24	A	0.168	2.706	10	0.8	1	4.073	134.11	6.71	C
140.00-120.0			B	0.168	2.706		0.8	1	4.073			
0			C	0.168	2.706		0.8	1	4.073			
T5	18.40	563.18	A	0.173	2.687	10	0.8	1	4.204	131.86	6.59	C
120.00-100.0			B	0.173	2.687		0.8	1	4.204			
0			C	0.173	2.687		0.8	1	4.204			
T6	26.40	536.44	A	0.172	2.693	10	0.8	1	4.201	144.83	7.24	C
100.00-80.00			B	0.172	2.693		0.8	1	4.201			
			C	0.172	2.693		0.8	1	4.201			
T7	26.40	526.24	A	0.168	2.706	9	0.8	1	4.073	135.08	6.75	C
80.00-60.00			B	0.168	2.706		0.8	1	4.073			
			C	0.168	2.706		0.8	1	4.073			
T8	26.40	573.39	A	0.177	2.674	9	0.8	1	4.333	129.98	6.50	C
60.00-40.00			B	0.177	2.674		0.8	1	4.333			
			C	0.177	2.674		0.8	1	4.333			
T9	26.40	526.24	A	0.168	2.706	8	0.8	1	4.073	113.01	5.65	C
40.00-20.00			B	0.168	2.706		0.8	1	4.073			
			C	0.168	2.706		0.8	1	4.073			
T10	17.60	410.33	A	0.189	2.635	7	0.8	1	3.058	69.22	5.19	C
20.00-6.67			B	0.189	2.635		0.8	1	3.058			
			C	0.189	2.635		0.8	1	3.058			
T11	2.20	155.41	A	0.277	2.36	7	0.8	1	1.230	19.39	2.91	C
6.67-0.00			B	0.277	2.36		0.8	1	1.230			
			C	0.277	2.36		0.8	1	1.230			
Sum Weight:	176.00	5187.14								1170.60		

Tower Forces - Service - Wind 90 To Face

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job 190' PTSGLP20 130 MPH	Page 18 of 39
	Project Perry Tower move to Lake City	Date 13:04:21 07/18/22
	Client Dockins Broadcasting	Designed by Owner

2022.07.
27
07:40:56
-04'00'

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1 190.00-180.00	0.00	270.06	A	0.174	2.687	11	0.85	1	2.148	55.35	5.53	C
0			B	0.174	2.687		0.85	1	2.148			
			C	0.174	2.687		0.85	1	2.148			
T2 180.00-160.00	0.00	526.24	A	0.168	2.706	11	0.85	1	4.073	103.83	5.19	C
0			B	0.168	2.706		0.85	1	4.073			
			C	0.168	2.706		0.85	1	4.073			
T3 160.00-140.00	13.80	573.39	A	0.177	2.674	11	0.85	1	4.341	134.34	6.72	C
0			B	0.177	2.674		0.85	1	4.341			
			C	0.177	2.674		0.85	1	4.341			
T4 140.00-120.00	18.40	526.24	A	0.168	2.706	10	0.85	1	4.073	134.11	6.71	C
0			B	0.168	2.706		0.85	1	4.073			
			C	0.168	2.706		0.85	1	4.073			
T5 120.00-100.00	18.40	563.18	A	0.173	2.687	10	0.85	1	4.204	131.86	6.59	C
0			B	0.173	2.687		0.85	1	4.204			
			C	0.173	2.687		0.85	1	4.204			
T6 100.00-80.00	26.40	536.44	A	0.172	2.693	10	0.85	1	4.209	145.00	7.25	C
			B	0.172	2.693		0.85	1	4.209			
			C	0.172	2.693		0.85	1	4.209			
T7 80.00-60.00	26.40	526.24	A	0.168	2.706	9	0.85	1	4.073	135.08	6.75	C
			B	0.168	2.706		0.85	1	4.073			
			C	0.168	2.706		0.85	1	4.073			
T8 60.00-40.00	26.40	573.39	A	0.177	2.674	9	0.85	1	4.341	130.13	6.51	C
			B	0.177	2.674		0.85	1	4.341			
			C	0.177	2.674		0.85	1	4.341			
T9 40.00-20.00	26.40	526.24	A	0.168	2.706	8	0.85	1	4.073	113.01	5.65	C
			B	0.168	2.706		0.85	1	4.073			
			C	0.168	2.706		0.85	1	4.073			
T10 20.00-6.67	17.60	410.33	A	0.189	2.635	7	0.85	1	3.058	69.22	5.19	C
			B	0.189	2.635		0.85	1	3.058			
			C	0.189	2.635		0.85	1	3.058			
T11 6.67-0.00	2.20	155.41	A	0.277	2.36	7	0.85	1	1.230	19.39	2.91	C
			B	0.277	2.36		0.85	1	1.230			
			C	0.277	2.36		0.85	1	1.230			
Sum Weight:	176.00	5187.14								1171.32		

Discrete Appurtenance Pressures - No Ice

$G_H = 0.850$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAC} Front ft ²	C _{AAC} Side ft ²
6810-2	180.0000	247.00	0.00	0.58	170.00	1.415	52	10.80	10.80
	Sum Weight:	247.00							

Discrete Appurtenance Pressures - Service

$G_H = 0.850$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAC} Front ft ²	C _{AAC} Side ft ²
6810-2	180.0000	247.00	0.00	0.58	170.00	1.415	11	10.80	10.80
	Sum	247.00							

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job 190' PTSGLP20 130 MPH	Page 19 of 39
	Project Perry Tower move to Lake City	Date 13:04:21 07/18/22
	Client Dockins Broadcasting	Designed by Owner

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAC} Front ft ²	C _{AAC} Side ft ²
	Weight:								



2022.07.
27
07:41:08
-04'00'

Dish Pressures - No Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
100.00	6 FT DISH	240.0000 Sum Weight:	143.00 143.00	-1.00	0.58	1.266	28.27	47

Dish Pressures - Service

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
100.00	6 FT DISH	240.0000 Sum Weight:	143.00 143.00	-1.00	0.58	1.266	28.27	10

Force Totals (Does not include forces on guys)

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Torques lb-ft
Leg Weight	3431.13			
Bracing Weight	1756.00			
Total Member Self-Weight	5187.14			
Guy Weight	750.19			
Total Weight	6503.33			
Wind 0 deg - No Ice		69.73	-6390.04	-653.60
Wind 90 deg - No Ice		6551.77	-34.53	908.05
Wind 180 deg - No Ice		-102.18	6390.24	647.20
Total Weight	6503.33			
Wind 0 deg - Service		14.85	-1361.19	-139.23
Wind 90 deg - Service		1395.64	-7.36	193.43
Wind 180 deg - Service		-21.77	1361.23	137.86

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice+1.0 Guy
3	1.2 Dead+1.6 Wind 90 deg - No Ice+1.0 Guy

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job	190' PTSGLP20 130 MPH	Page	20 of 39
	Project	Perry Tower move to Lake City	Date	13:04:21 07/18/22
	Client	Dockins Broadcasting	Designed by	Owner

2022.07.
27
07:41:20
-04'00'

Comb. No.	Description
4	1.2 Dead+1.6 Wind 180 deg - No Ice+1.0 Guy
5	Dead+Wind 0 deg - Service+Guy
6	Dead+Wind 90 deg - Service+Guy
7	Dead+Wind 180 deg - Service+Guy



Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T1	190 - 180	Leg	Max Tension	2	3557.19	-15.71	91.46
			Max. Compression	4	-9751.11	20.32	-7.26
			Max. Mx	3	-7801.18	-105.23	-53.27
			Max. My	4	-222.92	-11.85	-98.52
			Max. Vy	3	-245.52	-105.23	-53.27
		Diagonal	Max. Vx	2	262.90	0.10	91.83
			Max Tension	2	1357.11	0.00	0.00
			Max. Compression	3	-1605.26	0.00	0.00
			Max. Mx	2	1357.11	1.69	0.00
			Max. My	3	-135.16	0.00	-0.05
		Horizontal	Max. Vy	2	-1.84	0.00	0.00
			Max. Vx	3	0.06	0.00	0.00
			Max Tension	4	79.72	0.00	0.00
			Max. Compression	2	-59.34	0.00	0.00
			Max. Mx	2	46.34	0.91	0.00
		Bottom Girt	Max. My	3	69.16	0.00	-0.00
			Max. Vy	2	-1.82	0.00	0.00
			Max. Vx	3	0.00	0.00	0.00
			Max Tension	4	334.90	0.00	0.00
			Max. Compression	2	-363.64	0.00	0.00
		Guy A	Max. Mx	2	97.39	0.91	0.00
			Max. My	3	320.71	0.00	-0.00
			Max. Vy	2	-1.82	0.00	0.00
			Max. Vx	3	0.00	0.00	0.00
			Bottom Tension	4	6160.75		
		Guy B	Top Tension	4	6234.44		
			Top Cable Vert	4	5262.78		
			Top Cable Norm	4	3342.35		
			Top Cable Tan	4	0.70		
			Bot Cable Vert	4	-4931.98		
		Guy C	Bot Cable Norm	4	3691.95		
			Bot Cable Tan	4	0.70		
			Bottom Tension	2	5133.42		
			Top Tension	2	5206.63		
			Top Cable Vert	2	4366.51		
		Top Guy Pull-Off	Top Cable Norm	2	2825.08		
			Top Cable Tan	2	248.11		
			Bot Cable Vert	2	-4136.12		
			Bot Cable Norm	2	3028.45		
			Bot Cable Tan	2	270.26		
			Bottom Tension	3	5841.45		
			Top Tension	3	5914.92		
			Top Cable Vert	3	4989.81		
			Top Cable Norm	3	3173.63		
			Top Cable Tan	3	127.17		
			Bot Cable Vert	3	-4679.25		
			Bot Cable Norm	3	3493.74		
			Bot Cable Tan	3	144.80		
			Max Tension	4	2008.64	0.00	0.00

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07:41:3

1 -04'00'

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T2	180 - 160	Leg	Max. Compression	1	0.00	0.00	0.00
			Max. Mx	2	1811.68	1.03	0.00
			Max. My	3	1815.65	0.00	-0.00
			Max. Vy	2	-2.06	0.00	0.00
			Max. Vx	3	0.00	0.00	0.00
			Max Tension	2	5347.69	8.58	4.63
			Max. Compression	4	-10983.07	-29.53	-14.35
			Max. Mx	3	-5498.17	95.43	-18.33
			Max. My	4	-1917.10	-8.39	125.97
			Max. Vy	3	284.34	-20.46	-19.00
			Max. Vx	4	339.51	-3.69	0.17
			Max Tension	3	965.48	0.00	0.00
		Diagonal	Max. Compression	4	-1170.38	0.00	0.00
			Max. Mx	2	414.45	1.72	0.00
			Max. My	3	26.05	0.00	-0.06
			Max. Vy	2	-1.82	0.00	0.00
			Max. Vx	3	0.06	0.00	0.00
			Max Tension	4	174.20	0.00	0.00
		Horizontal	Max. Compression	2	-126.24	0.00	0.00
			Max. Mx	3	91.49	0.90	0.00
			Max. My	3	-122.39	0.00	-0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	0.00	0.00	0.00
			Max Tension	2	278.38	0.00	0.00
		Top Girt	Max. Compression	4	-218.79	0.00	0.00
			Max. Mx	2	-24.54	0.90	0.00
			Max. My	3	-209.08	0.00	-0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	0.00	0.00	0.00
			Max Tension	4	226.01	0.00	0.00
		Bottom Girt	Max. Compression	3	-267.12	0.00	0.00
			Max. Mx	2	-161.73	0.90	0.00
			Max. My	3	216.50	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	2	3019.61	8.14	11.10
T3	160 - 140	Leg	Max. Compression	3	-11598.36	-9.92	-29.83
			Max. Mx	3	-1785.52	-466.29	-3.94
			Max. My	2	-4754.57	1.22	457.07
			Max. Vy	3	737.13	-466.29	-3.94
			Max. Vx	4	719.55	-2.62	-446.46
			Max Tension	4	1891.68	0.00	0.00
		Diagonal	Max. Compression	3	-2304.02	0.00	0.00
			Max. Mx	3	-494.29	2.33	0.00
			Max. My	3	567.47	0.00	-0.07
			Max. Vy	3	-2.46	0.00	0.00
			Max. Vx	3	0.07	0.00	0.00
			Max Tension	3	835.87	0.00	0.00
		Horizontal	Max. Compression	4	-692.18	0.00	0.00
			Max. Mx	4	-262.32	0.90	0.00
			Max. My	3	14.48	0.00	0.00
			Max. Vy	4	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	3	396.03	0.00	0.00
		Top Girt	Max. Compression	2	-282.72	0.00	0.00
			Max. Mx	4	367.13	0.90	0.00
			Max. My	3	-280.14	0.00	0.00
			Max. Vy	4	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	4	499.16	0.00	0.00
		Bottom Girt	Max. Compression	2	-448.63	0.00	0.00

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-04'00'

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T4	140 - 120	Guy A	Max. Mx	2	72.37	0.90	0.00
			Max. My	3	-266.76	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Bottom Tension	4	7378.45		
			Top Tension	4	7436.18		
			Top Cable Vert	4	5690.56		
			Top Cable Norm	4	4786.88		
			Top Cable Tan	4	1.80		
			Bot Cable Vert	4	-5422.62		
		Guy B	Bot Cable Norm	4	5003.68		
			Bot Cable Tan	4	1.80		
			Bottom Tension	2	5711.90		
			Top Tension	2	5768.77		
			Top Cable Vert	2	4405.88		
			Top Cable Norm	2	3718.97		
			Top Cable Tan	2	190.15		
			Bot Cable Vert	2	-4208.68		
			Bot Cable Norm	2	3855.06		
			Bot Cable Tan	2	226.66		
		Guy C	Bottom Tension	3	7037.96		
			Top Tension	3	7095.29		
			Top Cable Vert	3	5430.11		
			Top Cable Norm	3	4566.10		
			Top Cable Tan	3	88.11		
			Bot Cable Vert	3	-5172.52		
			Bot Cable Norm	3	4771.09		
			Bot Cable Tan	3	121.17		
		Top Guy Pull-Off	Max Tension	2	2801.12	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	4	2224.71	1.02	0.00
			Max. My	3	434.50	0.00	0.00
			Max. Vy	4	-2.04	0.00	0.00
		Leg	Max. Vx	3	-0.00	0.00	0.00
			Max Tension	2	4056.13	21.53	1.74
			Max. Compression	4	-15208.68	-55.32	-17.78
			Max. Mx	3	-9150.73	123.00	-4.89
			Max. My	2	-11025.26	-41.84	-163.08
			Max. Vy	3	-340.49	-9.92	-29.83
			Max. Vx	2	361.90	-20.54	-28.63
		Diagonal	Max Tension	4	1314.62	0.00	0.00
			Max. Compression	2	-1387.29	0.00	0.00
			Max. Mx	2	571.53	1.71	0.00
			Max. My	3	-328.30	0.00	-0.05
			Max. Vy	2	-1.81	0.00	0.00
		Horizontal	Max. Vx	3	0.06	0.00	0.00
			Max Tension	3	146.74	0.00	0.00
			Max. Compression	3	-103.86	0.00	0.00
			Max. Mx	3	30.54	0.90	0.00
			Max. My	4	141.31	0.00	-0.00
		Top Girt	Max. Vy	3	-1.80	0.00	0.00
			Max. Vx	4	0.00	0.00	0.00
			Max Tension	2	414.79	0.00	0.00
			Max. Compression	4	-404.29	0.00	0.00
			Max. Mx	2	-6.93	0.90	0.00
		Bottom Girt	Max. My	3	247.47	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	4	158.64	0.00	0.00
			Max. Compression	2	-136.36	0.00	0.00
			Max. Mx	4	130.86	0.90	0.00

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-04'00'

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T5	120 - 100	Leg	Max. My	3	-6.14	0.00	0.00
			Max. Vy	4	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Diagonal	Max Tension	2	3208.19	18.71	0.62
			Max. Compression	3	-14784.65	-41.20	-21.48
			Max. Mx	3	-8897.66	406.44	-9.97
			Max. My	2	-8345.00	-28.10	-436.64
			Max. Vy	3	530.28	206.17	-1.84
			Max. Vx	4	575.37	-10.28	180.53
		Horizontal	Max Tension	3	2028.14	0.00	0.00
			Max. Compression	4	-2054.64	0.00	0.00
			Max. Mx	3	2028.14	2.34	0.00
			Max. My	3	-1077.35	0.00	-0.08
			Max. Vy	3	-2.47	0.00	0.00
			Max. Vx	3	0.09	0.00	0.00
			Max Tension	4	316.81	0.00	0.00
			Max. Compression	3	-245.27	0.00	0.00
			Max. Mx	4	5.54	0.90	0.00
			Max. My	3	-245.27	0.00	0.00
			Max. Vy	4	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Top Girt	Max Tension	2	197.48	0.00	0.00
			Max. Compression	4	-154.35	0.00	0.00
			Max. Mx	4	-136.49	0.90	0.00
			Max. My	3	101.52	0.00	0.00
			Max. Vy	4	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Bottom Girt	Max Tension	2	612.42	0.00	0.00
			Max. Compression	4	-591.43	0.00	0.00
			Max. Mx	4	393.09	0.90	0.00
			Max. My	3	-531.68	0.00	0.00
			Max. Vy	4	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
T6	100 - 80	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	3	-15312.37	0.97	-4.90
			Max. Mx	3	-10707.46	-664.20	-23.58
		Diagonal	Max. My	4	-8756.03	-13.84	-627.40
			Max. Vy	3	922.28	-664.20	-23.57
			Max. Vx	4	917.83	71.27	-617.98
			Max Tension	4	1385.46	0.00	0.00
			Max. Compression	2	-1388.61	0.00	0.00
		Horizontal	Max. Mx	3	158.08	1.72	0.00
			Max. My	3	304.84	0.00	-0.06
			Max. Vy	3	-1.82	0.00	0.00
			Max. Vx	3	0.06	0.00	0.00
			Max Tension	3	388.43	0.00	0.00
			Max. Compression	4	-271.09	0.00	0.00
		Top Girt	Max. Mx	2	108.42	0.90	0.00
			Max. My	3	-47.83	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	4	264.06	0.00	0.00
			Max. Compression	2	-102.54	0.00	0.00
		Bottom Girt	Max. Mx	4	98.40	0.90	0.00
			Max. My	3	77.28	0.00	0.00
			Max. Vy	4	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	2	102.84	0.00	0.00
			Max. Compression	4	-112.89	0.00	0.00
			Max. Mx	2	85.99	0.90	0.00
			Max. My	3	-20.09	0.00	0.00

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-04'00'

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T7	80 - 60	Guy A	Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Bottom Tension	4	5840.07		
			Top Tension	4	5866.21		
			Top Cable Vert	4	3580.46		
		Guy B	Top Cable Norm	4	4646.80		
			Top Cable Tan	4	2.39		
			Bot Cable Vert	4	-3440.75		
			Bot Cable Norm	4	4718.86		
			Bot Cable Tan	4	2.39		
		Guy C	Bottom Tension	2	4429.69		
			Top Tension	2	4455.10		
			Top Cable Vert	2	2724.33		
			Top Cable Norm	2	3523.10		
			Top Cable Tan	2	116.80		
		Top Guy Pull-Off	Bot Cable Vert	2	-2607.40		
			Bot Cable Norm	2	3578.02		
			Bot Cable Tan	2	146.17		
			Bottom Tension	3	5727.23		
			Top Tension	3	5753.05		
		Leg	Top Cable Vert	3	3514.62		
			Top Cable Norm	3	4554.45		
			Top Cable Tan	3	44.70		
			Bot Cable Vert	3	-3371.12		
			Bot Cable Norm	3	4629.37		
		Diagonal	Bot Cable Tan	3	74.87		
			Max Tension	2	2668.29	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	2	2668.29	1.02	0.00
			Max. My	3	1524.36	0.00	0.00
		Horizontal	Max. Vy	2	-2.04	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	3	-15194.20	-50.79	-73.90
			Max. Mx	3	-9340.65	144.89	10.84
		Top Girt	Max. My	2	-9524.68	-29.01	-196.91
			Max. Vy	3	485.40	-37.05	-35.43
			Max. Vx	2	-476.37	-17.80	-19.49
			Max Tension	3	1818.76	0.00	0.00
			Max. Compression	2	-1785.52	0.00	0.00
		Bottom Girt	Max. Mx	3	1818.76	1.73	0.00
			Max. My	3	-148.66	0.00	-0.06
			Max. Vy	3	-1.83	0.00	0.00
			Max. Vx	3	0.07	0.00	0.00
			Max Tension	4	172.68	0.00	0.00
			Max. Compression	3	-112.97	0.00	0.00
			Max. Mx	2	142.84	0.90	0.00
			Max. My	3	-112.97	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	3	137.85	0.00	0.00
			Max. Compression	2	-139.66	0.00	0.00
			Max. Mx	2	-1.43	0.90	0.00
			Max. My	3	136.25	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	2	571.68	0.00	0.00
			Max. Compression	4	-443.19	0.00	0.00
			Max. Mx	2	-124.24	0.90	0.00
			Max. My	3	-429.63	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00

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7 -04'00'

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T8	60 - 40	Leg	Max. Vx	3	-0.00	0.00	0.00
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	2	-19202.19	81.59	-157.63
		Diagonal	Max. Mx	3	-4897.03	-527.63	-26.75
			Max. My	2	-5624.85	-4.51	559.71
			Max. Vy	3	847.75	-527.63	-26.75
			Max. Vx	2	-799.12	-4.51	559.71
			Max Tension	2	2299.30	0.00	0.00
			Max. Compression	3	-2874.27	0.00	0.00
			Max. Mx	3	1797.51	2.35	0.00
			Max. My	3	-442.39	0.00	-0.08
			Max. Vy	3	-2.49	0.00	0.00
		Horizontal	Max. Vx	3	0.09	0.00	0.00
			Max Tension	3	1000.28	0.00	0.00
			Max. Compression	4	-706.89	0.00	0.00
			Max. Mx	2	-85.13	0.90	0.00
			Max. My	3	137.06	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Top Girt	Max Tension	4	572.38	0.00	0.00
			Max. Compression	2	-611.54	0.00	0.00
			Max. Mx	2	205.38	0.90	0.00
			Max. My	3	550.44	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Bottom Girt	Max Tension	4	397.20	0.00	0.00
			Max. Compression	2	-383.36	0.00	0.00
			Max. Mx	2	268.42	0.90	0.00
			Max. My	3	355.33	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Guy A	Bottom Tension	4	4518.47		
			Top Tension	4	4531.24		
			Top Cable Vert	4	1579.82		
			Top Cable Norm	4	4246.92		
			Top Cable Tan	4	1.40		
			Bot Cable Vert	4	-1515.50		
			Bot Cable Norm	4	4256.74		
			Bot Cable Tan	4	1.40		
		Guy B	Bottom Tension	2	3458.08		
			Top Tension	2	3470.54		
			Top Cable Vert	2	1221.35		
			Top Cable Norm	2	3247.36		
			Top Cable Tan	2	87.32		
			Bot Cable Vert	2	-1149.27		
			Bot Cable Norm	2	3260.01		
			Bot Cable Tan	2	99.18		
		Guy C	Bottom Tension	3	4347.93		
			Top Tension	3	4360.59		
			Top Cable Vert	3	1527.88		
			Top Cable Norm	3	4084.05		
			Top Cable Tan	3	28.80		
			Bot Cable Vert	3	-1450.93		
			Bot Cable Norm	3	4098.48		
			Bot Cable Tan	3	42.12		
		Top Guy Pull-Off	Max Tension	2	2547.78	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	2	2547.78	1.02	0.00
			Max. My	3	1238.74	0.00	0.00
			Max. Vy	2	-2.04	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00

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0 -04'00"

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T9	40 - 20	Leg	Max Tension	1	0.00	0.00	0.00
			Max. Compression	4	-15597.87	48.78	-2.13
			Max. Mx	3	-10185.15	175.64	2.21
			Max. My	4	-11282.81	-25.09	172.31
			Max. Vy	3	-363.08	40.41	1.74
		Diagonal	Max. Vx	2	395.99	-20.27	42.16
			Max Tension	2	1210.19	0.00	0.00
			Max. Compression	4	-1266.39	0.00	0.00
			Max. Mx	3	-168.36	1.72	0.00
			Max. My	3	117.06	0.00	-0.05
		Horizontal	Max. Vy	3	-1.82	0.00	0.00
			Max. Vx	3	0.06	0.00	0.00
			Max Tension	4	188.92	0.00	0.00
			Max. Compression	2	-86.42	0.00	0.00
			Max. Mx	2	72.04	0.90	0.00
		Top Girt	Max. My	3	-4.16	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	3	395.96	0.00	0.00
			Max. Compression	4	-305.48	0.00	0.00
		Bottom Girt	Max. Mx	2	-202.92	0.90	0.00
			Max. My	3	-270.75	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	2	101.48	0.00	0.00
T10	20 - 6.67	Leg	Max. Compression	3	-83.21	0.00	0.00
			Max. Mx	2	101.48	0.90	0.00
			Max. My	3	35.20	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Diagonal	Max Tension	1	0.00	0.00	0.00
			Max. Compression	4	-15600.37	60.47	-0.63
			Max. Mx	2	-12504.01	-354.00	70.75
			Max. My	4	-13866.44	-33.05	-378.83
			Max. Vy	3	1134.12	-297.55	221.12
		Horizontal	Max. Vx	4	1317.37	-33.05	-378.83
			Max Tension	3	634.46	0.00	0.00
			Max. Compression	2	-737.89	0.00	0.00
			Max. Mx	3	634.46	1.79	0.00
			Max. My	3	-68.76	0.00	-0.04
		Top Girt	Max. Vy	3	-2.47	0.00	0.00
			Max. Vx	3	0.06	0.00	0.00
			Max Tension	2	154.74	0.00	0.00
			Max. Compression	3	-70.91	0.00	0.00
			Max. Mx	2	106.84	0.90	0.00
		Bottom Girt	Max. My	3	-70.91	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	3	109.31	0.00	0.00
			Max. Compression	2	-17.24	0.00	0.00
T11	6.67 - 0	Leg	Max. Mx	2	-17.24	0.90	0.00
			Max. My	3	81.58	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
			Max Tension	2	848.37	0.00	0.00
		Diagonal	Max. Compression	1	0.00	0.00	0.00
			Max. Mx	2	782.78	0.90	0.00
			Max. My	3	403.00	0.00	0.00
			Max. Vy	2	-1.80	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00

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-04'00'

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
			Max. Compression	4	-14227.19	-7.99	242.13
			Max. Mx	4	-13886.07	378.83	-32.59
			Max. My	3	-9929.09	-5.25	271.12
			Max. Vy	4	1091.13	378.83	-32.59
			Max. Vx	3	-116.52	11.64	-85.81
		Diagonal	Max Tension	2	133.16	0.00	0.00
			Max. Compression	3	-439.61	0.00	0.00
			Max. Mx	2	19.76	1.51	0.00
			Max. My	2	76.68	0.00	0.05
			Max. Vy	2	-1.83	0.00	0.00
			Max. Vx	2	-0.06	0.00	0.00
		Horizontal	Max Tension	3	113.29	0.00	0.00
			Max. Compression	2	-58.30	0.00	0.00
			Max. Mx	2	-27.77	0.23	0.00
			Max. My	3	76.80	0.00	0.00
			Max. Vy	2	-0.90	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00
		Top Girt	Max Tension	3	730.82	0.00	0.00
			Max. Compression	1	0.00	0.00	0.00
			Max. Mx	2	666.16	0.80	0.00
			Max. My	3	637.24	0.00	0.00
			Max. Vy	2	-1.70	0.00	0.00
			Max. Vx	3	-0.00	0.00	0.00

Maximum Reactions

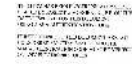
Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Mast	Max. Vert	3	35018.43	-359.49	62.17
	Max. H _x	2	34868.67	11.09	338.21
	Max. H _z	2	34868.67	11.09	338.21
	Max. M _x	1	0.00	-0.29	0.50
	Max. M _z	1	0.00	-0.29	0.50
	Max. Torsion	2	138.29	11.09	338.21
	Min. Vert	1	20511.13	-0.29	0.50
	Min. H _x	3	35018.43	-359.49	62.17
	Min. H _z	4	34581.59	-25.85	-448.94
	Min. M _x	1	0.00	-0.29	0.50
	Min. M _z	1	0.00	-0.29	0.50
	Min. Torsion	3	-160.46	-359.49	62.17
	Max. Vert	7	-4363.34	-4237.31	2338.67
	Max. H _x	7	-4363.34	-4237.31	2338.67
Guy C @ 130 ft Elev 2 ft Azimuth 240 deg	Max. H _z	3	-14673.81	-14907.57	8164.69
	Min. Vert	3	-14673.81	-14907.57	8164.69
	Min. H _x	3	-14673.81	-14907.57	8164.69
	Min. H _z	4	-5826.73	-5177.82	2167.79
	Max. Vert	3	-3594.50	2234.50	1683.98
	Max. H _x	2	-12101.46	11512.08	7503.58
	Max. H _z	2	-12101.46	11512.08	7503.58
	Min. Vert	2	-12101.46	11512.08	7503.58
	Min. H _x	3	-3594.50	2234.50	1683.98
	Min. H _z	3	-3594.50	2234.50	1683.98
Guy B @ 130 ft Elev 2 ft Azimuth 120 deg	Max. H _x	2	-12101.46	11512.08	7503.58
	Max. H _z	2	-12101.46	11512.08	7503.58
	Min. Vert	2	-12101.46	11512.08	7503.58
	Min. H _x	3	-3594.50	2234.50	1683.98
	Min. H _z	3	-3594.50	2234.50	1683.98

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Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Guy A @ 130 ft Elev 2 ft Azimuth 0 deg	Max. Vert	2	-2736.71	-0.48	-1748.20
	Max. H _x	4	-15310.85	6.30	-17671.22
	Max. H _z	2	-2736.71	-0.48	-1748.20
	Min. Vert	4	-15310.85	6.30	-17671.22
	Min. H _x	3	-9096.23	-893.85	-9854.37
	Min. H _z	4	-15310.85	6.30	-17671.22

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
Dead Only	20511.13	0.29	-0.50	0.00	0.00	0.86
1.2 Dead+1.6 Wind 0 deg - No Ice+1.0 Guy	34868.67	-11.09	-338.21	0.00	0.00	-138.29
1.2 Dead+1.6 Wind 90 deg - No Ice+1.0 Guy	35018.43	359.49	-62.17	0.00	0.00	160.46
1.2 Dead+1.6 Wind 180 deg - No Ice+1.0 Guy	34581.59	25.85	448.94	0.00	0.00	141.27
Dead+Wind 0 deg - Service+Guy	20880.53	-1.02	-80.57	0.00	0.00	-28.29
Dead+Wind 90 deg - Service+Guy	20866.28	76.08	1.13	0.00	0.00	35.56
Dead+Wind 180 deg - Service+Guy	20855.27	2.16	76.72	0.00	0.00	30.50

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	0.00	-6503.29	0.00	-0.01	6503.28	0.02	0.000%
2	111.57	-7834.30	-13677.62	-111.57	7834.27	13675.51	0.013%
3	13927.80	-7653.92	-55.25	-13926.40	7653.89	56.48	0.012%
4	-163.49	-7473.53	13677.93	161.85	7473.53	-13678.23	0.011%
5	14.85	-6527.30	-1820.98	-14.85	6527.30	1820.98	0.000%
6	1854.29	-6503.29	-7.36	-1854.28	6503.28	7.35	0.000%
7	-21.77	-6479.27	1821.03	21.77	6479.27	-1821.02	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	8	0.00000001	0.00003307
2	Yes	21	0.00013946	0.00013500
3	Yes	21	0.00013176	0.00012406
4	Yes	16	0.00012983	0.00012315
5	Yes	14	0.00000001	0.00005126

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6	Yes	14	0.00000001	0.00006570
7	Yes	14	0.00000001	0.00004907

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Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	190 - 180	0.459	7	0.0422	0.4084
T2	180 - 160	0.528	7	0.0369	0.4019
T3	160 - 140	0.609	7	0.0199	0.4053
T4	140 - 120	0.652	7	0.0154	0.3916
T5	120 - 100	0.660	7	0.0078	0.3990
T6	100 - 80	0.591	7	0.0165	0.4069
T7	80 - 60	0.514	7	0.0228	0.3870
T8	60 - 40	0.389	7	0.0335	0.3638
T9	40 - 20	0.266	7	0.0249	0.3529
T10	20 - 6.67	0.157	7	0.0320	0.3417
T11	6.67 - 0	0.057	7	0.0384	0.3274

Critical Deflections and Radius of Curvature - Service Wind

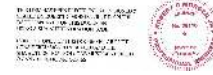
Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
189.63	Guy	7	0.461	0.0420	0.4081	88680
185.00	6810-2	7	0.495	0.0399	0.4044	88680
180.00	6810-2	7	0.528	0.0369	0.4019	49982
175.00	6810-2	7	0.555	0.0327	0.4020	53898
170.00	6810-2	7	0.577	0.0279	0.4036	68708
165.00	6810-2	7	0.594	0.0233	0.4052	94742
160.00	6810-2	7	0.609	0.0199	0.4053	139885
155.00	6810-2	7	0.621	0.0182	0.4029	163531
149.00	Guy	7	0.635	0.0175	0.3979	179007
100.00	6 FT DISH	7	0.591	0.0165	0.4069	173187
99.00	Guy	7	0.587	0.0169	0.4065	175971
49.00	Guy	7	0.319	0.0291	0.3565	161179

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	190 - 180	7.507	2	0.3287	1.7477
T2	180 - 160	8.192	2	0.2846	1.7918
T3	160 - 140	9.047	2	0.1263	1.8357
T4	140 - 120	9.399	2	0.0560	1.8189
T5	120 - 100	9.183	2	0.1615	1.8963
T6	100 - 80	8.088	2	0.2928	1.9140
T7	80 - 60	6.674	2	0.3860	1.8088
T8	60 - 40	4.803	2	0.4582	1.6738
T9	40 - 20	3.084	2	0.3494	1.5818

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T10	20 - 6.67	1.673	2	0.3670	1.5307
T11	6.67 - 0	0.587	2	0.4056	1.4740

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
189.63	Guy	2	7.534	0.3273	1.7494	10844
185.00	6810-2	2	7.863	0.3092	1.7705	10844
180.00	6810-2	2	8.192	0.2846	1.7918	6058
175.00	6810-2	2	8.470	0.2512	1.8103	6233
170.00	6810-2	2	8.701	0.2112	1.8247	7330
165.00	6810-2	2	8.891	0.1684	1.8336	8895
160.00	6810-2	2	9.047	0.1263	1.8357	10801
155.00	6810-2	2	9.176	0.0937	1.8308	11188
149.00	Guy	2	9.294	0.0686	1.8214	11046
100.00	6 FT DISH	2	8.088	0.2928	1.9140	24588
99.00	Guy	2	8.023	0.2979	1.9115	24976
49.00	Guy	2	3.807	0.4123	1.6459	11604

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load lb	Ratio Load Allowable	Allowable Ratio	Criteria
T1	190	Leg	A325N	0.7500	4	0.23	29820.60	0.000	1	Bolt Tension
		Diagonal	A325N	0.5000	1	1605.26	7952.16	0.202	1	Bolt Shear

Guy Design Data

Section No.	Elevation ft	Size	Initial Tension lb	Breaking Load lb	Actual T_u lb	Allowable ϕT_n lb	Required S.F.	Actual S.F.
T1	189.63 (A) (417)	7/16 EHS	2080.00	20800.02	6234.44	12480.00	1.000	2.002
	189.63 (B) (416)	7/16 EHS	2080.00	20800.02	5206.63	12480.00	1.000	2.397
	189.63 (C) (415)	7/16 EHS	2080.00	20800.02	5914.92	12480.00	1.000	2.110
T3	149.00 (A) (423)	7/16 EHS	2080.00	20800.02	7436.18	12480.00	1.000	1.678

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Section No.	Elevation ft	Size	Initial Tension lb	Breaking Load lb	Actual T_u lb	Allowable ϕT_n lb	Required S.F.	Actual S.F.
T6	149.00 (B) (422)	7/16 EHS	2080.00	20800.02	5768.77	12480.00	1.000	2.163
	149.00 (C) (418)	7/16 EHS	2080.00	20800.02	7095.29	12480.00	1.000	1.759
	99.00 (A) (429)	3/8 EHS	1540.00	15399.96	5866.21	9240.00	1.000	1.575
	99.00 (B) (428)	3/8 EHS	1540.00	15399.96	4455.10	9240.00	1.000	2.074
	99.00 (C) (424)	3/8 EHS	1540.00	15399.96	5753.05	9240.00	1.000	1.606
T8	49.00 (A) (435)	3/8 EHS	1540.00	15399.96	4531.24	9240.00	1.000	2.039
	49.00 (B) (434)	3/8 EHS	1540.00	15399.96	3470.54	9240.00	1.000	2.662
	49.00 (C) (430)	3/8 EHS	1540.00	15399.96	4360.59	9240.00	1.000	2.119



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Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	Mast Stabilit y Index	P_u lb	ϕP_n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	1 1/2	10.00	3.08	98.7 K=1.00	1.7672	1.00	-9751.11	39025.80	0.250 ¹
T2	180 - 160	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-10983.10	36794.20	0.299 ¹
T3	160 - 140	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-11598.40	36794.20	0.315 ¹
T4	140 - 120	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-15208.70	36794.20	0.413 ¹
T5	120 - 100	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-14784.60	36794.20	0.402 ¹
T6	100 - 80	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-15312.40	36794.20	0.416 ¹
T7	80 - 60	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-15194.20	36794.20	0.413 ¹
T8	60 - 40	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-19202.20	36794.20	0.522 ¹
T9	40 - 20	1 1/2	20.00	3.21	102.7 K=1.00	1.7672	1.00	-15597.90	36794.20	0.424 ¹
T10	20 - 6.67	1 1/2	13.33	2.10	67.1 K=1.00	1.7672	1.00	-15600.40	57219.20	0.273 ¹
T11	6.67 - 0	1 1/2	6.77	3.38	108.3 K=1.00	1.7672	1.00	-14227.20	33727.90	0.422 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	Mast Stability Index	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
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¹ P_u / φP_n controls



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Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	3/4	3.68	3.45	220.5 K=1.00	0.4418	-1605.26	2052.54	0.782 ¹ ✓
T2	180 - 160	KL/R > 200 (C) - 22 3/4	3.78	3.54	226.8 K=1.00	0.4418	-1170.38	1939.61	0.603 ¹ ✓
T3	160 - 140	KL/R > 200 (C) - 35 7/8	3.78	3.54	194.4 K=1.00	0.6013	-2304.02	3593.36	0.641 ¹ ✓
T4	140 - 120	3/4	3.78	3.54	226.8 K=1.00	0.4418	-1387.29	1939.61	0.715 ¹ ✓
T5	120 - 100	KL/R > 200 (C) - 150 7/8	3.78	3.54	194.4 K=1.00	0.6013	-2054.64	3593.36	0.572 ¹ ✓
T6	100 - 80	3/4	3.78	3.54	226.8 K=1.00	0.4418	-1388.61	1939.61	0.716 ¹ ✓
T7	80 - 60	KL/R > 200 (C) - 227 3/4	3.78	3.54	226.8 K=1.00	0.4418	-1785.52	1939.61	0.921 ¹ ✓
T8	60 - 40	KL/R > 200 (C) - 246 7/8	3.78	3.54	194.4 K=1.00	0.6013	-2874.27	3593.36	0.800 ¹ ✓
T9	40 - 20	3/4	3.78	3.54	226.8 K=1.00	0.4418	-1266.39	1939.61	0.653 ¹ ✓
T10	20 - 6.67	KL/R > 200 (C) - 359 7/8	2.90	2.72	149.0 K=1.00	0.6013	-737.89	6117.36	0.121 ¹ ✓
T11	6.67 - 0	7/8	3.30	3.02	165.8 K=1.00	0.6013	-439.61	4943.99	0.089 ¹ ✓

¹ P_u / φP_n controls

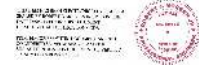
Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	3/4	2.00	1.88	120.0 K=1.00	0.4418	-59.34	6706.99	0.009 ¹ ✓
T2	180 - 160	3/4	2.00	1.88	120.0	0.4418	-126.24	6706.99	0.019 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T3	160 - 140	3/4	2.00	1.88	K=1.00 120.0	0.4418	-692.18	6706.99	0.103 ¹
T4	140 - 120	3/4	2.00	1.88	K=1.00 120.0	0.4418	-103.86	6706.99	0.015 ¹
T5	120 - 100	3/4	2.00	1.88	K=1.00 120.0	0.4418	-245.27	6706.99	0.037 ¹
T6	100 - 80	3/4	2.00	1.88	K=1.00 120.0	0.4418	-271.09	6706.99	0.040 ¹
T7	80 - 60	3/4	2.00	1.88	K=1.00 120.0	0.4418	-112.97	6706.99	0.017 ¹
T8	60 - 40	3/4	2.00	1.88	K=1.00 120.0	0.4418	-706.89	6706.99	0.105 ¹
T9	40 - 20	3/4	2.00	1.88	K=1.00 120.0	0.4418	-86.42	6706.99	0.013 ¹
T10	20 - 6.67	3/4	2.00	1.88	K=1.00 120.0	0.4418	-70.91	6706.99	0.011 ¹
T11	6.67 - 0	3/4	1.00	0.88	K=1.00 56.0	0.4418	-58.30	12135.50	0.005 ¹

¹ P_u / φP_n controls



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-04'00"

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T2	180 - 160	3/4	2.00	1.88	K=1.00 120.0	0.4418	-218.79	6706.99	0.033 ¹
T3	160 - 140	3/4	2.00	1.88	K=1.00 120.0	0.4418	-282.72	6706.99	0.042 ¹
T4	140 - 120	3/4	2.00	1.88	K=1.00 120.0	0.4418	-404.29	6706.99	0.060 ¹
T5	120 - 100	3/4	2.00	1.88	K=1.00 120.0	0.4418	-154.35	6706.99	0.023 ¹
T6	100 - 80	3/4	2.00	1.88	K=1.00 120.0	0.4418	-102.54	6706.99	0.015 ¹
T7	80 - 60	3/4	2.00	1.88	K=1.00 120.0	0.4418	-139.66	6706.99	0.021 ¹
T8	60 - 40	3/4	2.00	1.88	K=1.00 120.0	0.4418	-611.54	6706.99	0.091 ¹
T9	40 - 20	3/4	2.00	1.88	K=1.00 120.0	0.4418	-305.48	6706.99	0.046 ¹
T10	20 - 6.67	3/4	2.00	1.88	K=1.00 120.0	0.4418	-17.24	6706.99	0.003 ¹

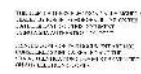
¹ P_u / φP_n controls

<i>RISATower</i> PRECISION TOWER SYSTEMS LLC 3948 Third Street South #135 Jacksonville Beach, FL 32250 Phone: FAX:	Job	190' PTSGLP20 130 MPH	Page	34 of 39
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Bottom Girt Design Data (Compression)

Section No.	Elevation <i>ft</i>	Size	<i>L</i> <i>ft</i>	<i>L_u</i> <i>ft</i>	<i>Kl/r</i>	<i>A</i> <i>in²</i>	<i>P_u</i> <i>lb</i>	ϕP_n <i>lb</i>	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	3/4	2.00	1.88	120.0 K=1.00	0.4418	-363.64	6706.99	0.054 ¹
T2	180 - 160	3/4	2.00	1.88	120.0 K=1.00	0.4418	-267.12	6706.99	0.040 ¹
T3	160 - 140	3/4	2.00	1.88	120.0 K=1.00	0.4418	-448.63	6706.99	0.067 ¹
T4	140 - 120	3/4	2.00	1.88	120.0 K=1.00	0.4418	-136.36	6706.99	0.020 ¹
T5	120 - 100	3/4	2.00	1.88	120.0 K=1.00	0.4418	-591.43	6706.99	0.088 ¹
T6	100 - 80	3/4	2.00	1.88	120.0 K=1.00	0.4418	-112.89	6706.99	0.017 ¹
T7	80 - 60	3/4	2.00	1.88	120.0 K=1.00	0.4418	-443.19	6706.99	0.066 ¹
T8	60 - 40	3/4	2.00	1.88	120.0 K=1.00	0.4418	-383.36	6706.99	0.057 ¹
T9	40 - 20	3/4	2.00	1.88	120.0 K=1.00	0.4418	-83.21	6706.99	0.012 ¹

¹ $P_u / \phi P_n$ controls



2022.07.2
7 07:44:34
-04'00"

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i> <i>ft</i>	<i>L_u</i> <i>ft</i>	<i>Kl/r</i>	<i>A</i> <i>in²</i>	<i>P_u</i> <i>lb</i>	ϕP_n <i>lb</i>	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	1 1/2	10.00	3.08	98.7	1.7672	3557.19	79521.60	0.045 ¹
T2	180 - 160	1 1/2	20.00	3.21	102.7	1.7672	5347.69	79521.60	0.067 ¹
T3	160 - 140	1 1/2	20.00	3.21	102.7	1.7672	3019.61	79521.60	0.038 ¹
T4	140 - 120	1 1/2	20.00	3.21	102.7	1.7672	4056.13	79521.60	0.051 ¹
T5	120 - 100	1 1/2	20.00	3.21	102.7	1.7672	3208.19	79521.60	0.040 ¹

¹ $P_u / \phi P_n$ controls

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Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	3/4	3.68	3.45	220.5	0.4418	1357.11	16699.50	0.081 ¹
T2	180 - 160	3/4	3.78	3.54	226.8	0.4418	965.48	14313.90	0.067 ¹
T3	160 - 140	7/8	3.78	3.54	194.4	0.6013	1891.68	19482.80	0.097 ¹
T4	140 - 120	3/4	3.78	3.54	226.8	0.4418	1314.62	14313.90	0.092 ¹
T5	120 - 100	7/8	3.78	3.54	194.4	0.6013	2028.14	19482.80	0.104 ¹
T6	100 - 80	3/4	3.78	3.54	226.8	0.4418	1385.46	14313.90	0.097 ¹
T7	80 - 60	3/4	3.78	3.54	226.8	0.4418	1818.76	14313.90	0.127 ¹
T8	60 - 40	7/8	3.78	3.54	194.4	0.6013	2299.30	19482.80	0.118 ¹
T9	40 - 20	3/4	3.78	3.54	226.8	0.4418	1210.19	14313.90	0.085 ¹
T10	20 - 6.67	7/8	2.90	2.72	149.0	0.6013	634.46	19482.80	0.033 ¹
T11	6.67 - 0	7/8	3.30	3.02	165.8	0.6013	133.16	19482.80	0.007 ¹

¹ P_u / φP_n controls

2022.07.2

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Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	3/4	2.00	1.88	120.0	0.4418	79.72	14313.90	0.006 ¹
T2	180 - 160	3/4	2.00	1.88	120.0	0.4418	174.20	14313.90	0.012 ¹
T3	160 - 140	3/4	2.00	1.88	120.0	0.4418	835.87	14313.90	0.058 ¹
T4	140 - 120	3/4	2.00	1.88	120.0	0.4418	146.74	14313.90	0.010 ¹
T5	120 - 100	3/4	2.00	1.88	120.0	0.4418	316.81	14313.90	0.022 ¹
T6	100 - 80	3/4	2.00	1.88	120.0	0.4418	388.43	14313.90	0.027 ¹
T7	80 - 60	3/4	2.00	1.88	120.0	0.4418	172.68	14313.90	0.012 ¹
T8	60 - 40	3/4	2.00	1.88	120.0	0.4418	1000.28	14313.90	0.070 ¹
T9	40 - 20	3/4	2.00	1.88	120.0	0.4418	188.92	14313.90	0.013 ¹

-04'00"

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T10	20 - 6.67	3/4	2.00	1.88	120.0	0.4418	154.74	14313.90	0.011 ¹
T11	6.67 - 0	3/4	1.00	0.88	56.0	0.4418	113.29	14313.90	0.008 ¹

¹ P_u / φP_n controls



2022.07.2
7 07:45:02
-04'00'

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T2	180 - 160	3/4	2.00	1.88	120.0	0.4418	278.38	14313.90	0.019 ¹
T3	160 - 140	3/4	2.00	1.88	120.0	0.4418	396.03	14313.90	0.028 ¹
T4	140 - 120	3/4	2.00	1.88	120.0	0.4418	414.79	14313.90	0.029 ¹
T5	120 - 100	3/4	2.00	1.88	120.0	0.4418	197.48	14313.90	0.014 ¹
T6	100 - 80	3/4	2.00	1.88	120.0	0.4418	264.06	14313.90	0.018 ¹
T7	80 - 60	3/4	2.00	1.88	120.0	0.4418	137.85	14313.90	0.010 ¹
T8	60 - 40	3/4	2.00	1.88	120.0	0.4418	572.38	14313.90	0.040 ¹
T9	40 - 20	3/4	2.00	1.88	120.0	0.4418	395.96	14313.90	0.028 ¹
T10	20 - 6.67	3/4	2.00	1.88	120.0	0.4418	109.31	14313.90	0.008 ¹
T11	6.67 - 0	3/4	1.89	1.76	112.8	0.4418	730.82	14313.90	0.051 ¹

¹ P_u / φP_n controls

Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	3/4	2.00	1.88	120.0	0.4418	334.90	14313.90	0.023 ¹
T2	180 - 160	3/4	2.00	1.88	120.0	0.4418	226.01	14313.90	0.016 ¹
T3	160 - 140	3/4	2.00	1.88	120.0	0.4418	499.16	14313.90	0.035 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	140 - 120	3/4	2.00	1.88	120.0	0.4418	158.64	14313.90	0.011 ¹
T5	120 - 100	3/4	2.00	1.88	120.0	0.4418	612.42	14313.90	0.043 ¹
T6	100 - 80	3/4	2.00	1.88	120.0	0.4418	102.84	14313.90	0.007 ¹
T7	80 - 60	3/4	2.00	1.88	120.0	0.4418	571.68	14313.90	0.040 ¹
T8	60 - 40	3/4	2.00	1.88	120.0	0.4418	397.20	14313.90	0.028 ¹
T9	40 - 20	3/4	2.00	1.88	120.0	0.4418	101.48	14313.90	0.007 ¹
T10	20 - 6.67	3/4	2.00	1.88	120.0	0.4418	848.37	14313.90	0.059 ¹

¹ P_u / φP_n controls



2022.07.2

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Top Guy Pull-Off Design Data (Tension)	-04'00"
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	190 - 180	1x1/2	2.00	1.88	155.9	0.5000	2008.64	22500.00	0.089 ¹
T3	160 - 140	1x1/2	2.00	1.88	155.9	0.5000	2801.12	22500.00	0.124 ¹
T6	100 - 80	1x1/2	2.00	1.88	155.9	0.5000	2668.29	22500.00	0.119 ¹
T8	60 - 40	1x1/2	2.00	1.88	155.9	0.5000	2547.78	22500.00	0.113 ¹

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	φP _{allow} lb	% Capacity	Pass Fail
T1	190 - 180	Leg	1 1/2	3	-9751.11	39025.80	25.0	Pass
		Diagonal	3/4	22	-1605.26	2052.54	78.2	Pass
		Horizontal	3/4	21	-59.34	6706.99	0.9	Pass
		Bottom Girt	3/4	9	-363.64	6706.99	5.4	Pass
		Guy A@189.625	7/16	417	6234.44	12480.00	50.0	Pass
		Guy B@189.625	7/16	416	5206.63	12480.00	41.7	Pass
		Guy C@189.625	7/16	415	5914.92	12480.00	47.4	Pass
		Top Guy	1x1/2	6	2008.64	22500.00	8.9	Pass
		Pull-Off@189.625						
T2	180 - 160	Leg	1 1/2	27	-10983.1	36794.20	29.9	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass/Fail
T10	20 - 6.67	Bottom Girt	3/4	326	-83.21	6706.99	1.2	Pass
		Leg	1 1/2	363	-15600.40	57219.20	27.3	Pass
		Diagonal	7/8	372	-737.89	6117.36	12.1	Pass
		Horizontal	3/4	373	154.74	14313.90	1.1	Pass
		Top Girt	3/4	365	109.31	14313.90	0.8	Pass
T11	6.67 - 0	Bottom Girt	3/4	369	848.37	14313.90	5.9	Pass
		Leg	1 1/2	405	-14227.20	33727.90	42.2	Pass
		Diagonal	7/8	413	-439.61	4943.99	8.9	Pass
		Horizontal	3/4	411	113.29	14313.90	0.8	Pass
		Top Girt	3/4	408	730.82	14313.90	5.1	Pass
		Summary						
		Leg (T8)	52.2	Pass				
		Diagonal (T7)	92.1	Pass				
		Horizontal (T8)	10.5	Pass				
		Top Girt (T8)	9.1	Pass				
		Bottom Girt (T5)	8.8	Pass				
		Guy A (T6)	63.5	Pass				
		Guy B (T6)	48.2	Pass				
Guy C (T6)	62.3	Pass						
Top Guy Pull-Off (T3)	12.4	Pass						
Bolt Checks	20.2	Pass						
RATING							92.1	Pass
=								