



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header @ 38

General Information

Procurement Folder: 837109

Procurement Type: Central Master Agreement

Vendor ID: 000000196173

Legal Name: ALLSTATE TOWER INC

Alias/DBA:

Total Bid: \$3,265,270.00

Response Date: 05/18/2021

Response Time: 12:52

Responded By User ID: AllstateTower1

First Name: Jeff

Last Name: Garner

Email: jgarner@pttg.com

Phone: 270-830-8512

SO Doc Code: CRFQ

SO Dept: 0606

SO Doc ID: HSE210000009

Published Date: 5/11/21

Close Date: 5/18/21

Close Time: 13:30

Status: Closed

Solicitation Description: Addendum No.1
Self-Supporting & Guyed Towers

Total of Header Attachments: 38

Total of All Attachments: 38

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	100 Foot Self-Supporting Tower	1.00000	EA	35846.000000	35846.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

100 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	120 Foot Self-Supporting Tower	1.00000	EA	43098.000000	43098.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

120 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	140 Foot Self-Supporting Tower	1.00000	EA	58968.000000	58968.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

140 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	160 Foot Self-Supporting Tower	1.00000	EA	70354.000000	70354.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

160 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	180 Foot Self-Supporting Tower	1.00000	EA	83665.000000	83665.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

180 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
6	200 Foot Self-Supporting Tower	1.00000	EA	94224.000000	94224.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

200 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
7	220 Foot Self-Supporting Tower	1.00000	EA	111165.000000	111165.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

220 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
8	240 Foot Self-Supporting Tower	1.00000	EA	128949.000000	128949.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

240 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
9	260 Foot Self-Supporting Tower	1.00000	EA	142475.000000	142475.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

260 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
10	280 Foot Self-Supporting Tower	1.00000	EA	162148.000000	162148.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

280 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
11	300 Foot Self-Supporting Tower	1.00000	EA	178065.000000	178065.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

300 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
12	320 Foot Self-Supporting Tower	1.00000	EA	196875.000000	196875.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

320 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
13	340 Foot Self-Supporting Tower	1.00000	EA	222155.000000	222155.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

340 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
14	360 Foot Self-Supporting Tower	1.00000	EA	230182.000000	230182.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

360 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
15	380 Foot Self-Supporting Tower	1.00000	EA	262011.000000	262011.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

380 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
16	400 Foot Self-Supporting Tower	1.00000	EA	298075.000000	298075.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

400 Foot Self-Supporting Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
17	100 Foot Guyed Tower	1.00000	EA	30268.000000	30268.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

100 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
18	120 Foot Guyed Tower	1.00000	EA	33844.000000	33844.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

120 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
19	140 Foot Guyed Tower	1.00000	EA	44876.000000	44876.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

140 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
20	160 Foot Guyed Tower	1.00000	EA	48360.000000	48360.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

160 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
21	200 Foot Guyed Tower	1.00000	EA	54816.000000	54816.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

200 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
22	240 Foot Guyed Tower	1.00000	EA	66084.000000	66084.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

240 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
23	280 Foot Guyed Tower	1.00000	EA	79126.000000	79126.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

280 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
24	320 Foot Guyed Tower	1.00000	EA	98394.000000	98394.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

320 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
25	360 Foot Guyed Tower	1.00000	EA	102564.000000	102564.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

360 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
26	400 Foot Guyed Tower	1.00000	EA	120075.000000	120075.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

400 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
27	440 Foot Guyed Tower	1.00000	EA	128510.000000	128510.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

440 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
28	480 Foot Guyed Tower	1.00000	EA	139563.000000	139563.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

480 Foot Guyed Tower

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
29	Six Foot Standard Arms	1.00000	EA	535.000000	535.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Six Foot Standard Arms

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
30	Six Foot Tapered Side Arms	0.00000	EA	610.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Six Foot Tapered Side Arms

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
31	Safety Climb Device (acceptable increments of 100 foot)	0.00000	EA	422.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Safety Climb Device (acceptable increments of 100 foot)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
32	Medium white light, and red LED beacon combinations	0.00000	EA	8960.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Medium white light, and red LED beacon combinations

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
33	Red side lights, must be LED fixtures	0.00000	EA	710.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Red side lights, must be LED fixtures

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
34	Four-inch microwave dish mounts with all hardware.	0.00000	EA	525.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Four-inch microwave dish mounts with all hardware.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
35	Ice shields for six (6) foot dishes	0.00000	EA	824.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Ice shields for six (6) foot dishes

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
36	Ice shields for eight (8) foot dishes	0.00000	EA	988.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Ice shields for eight (8) foot dishes

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
37	Twenty (20) foot vertical waveguide ladder	0.00000	EA	115.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Twenty (20) foot vertical waveguide ladder

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
38	Ten (10) foot horizontal waveguide	0.00000	EA	795.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Ten (10) foot horizontal waveguide

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
39	Three (3) foot standard side arms	0.00000	EA	565.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Three (3) foot standard side arms

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
40	Three (3) foot tapered side arms	0.00000	EA	590.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Three (3) foot tapered side arms

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
41	Twelve-foot sector booms	0.00000	EA	5295.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Twelve-foot sector booms

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
42	Tower light controller kit for tower lights	0.00000	EA	13301.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43190000			

Commodity Line Comments:

Extended Description:

Tower light controller kit for tower lights

CRFQ HSE21*09 - EXHIBIT A

Pricing Page - WV EMD

Contract Item #	Description	Estimated Annual Quantity	Unit Price	Extended Price
3.1.1	100' Self Supporting Tower	1	35846	35846
3.1.2	120' Self Supporting Tower	1	43098	43098
3.1.3	140' Self Supporting Tower	1	58968	58968
3.1.4	160' Self Supporting Tower	1	70354	70354
3.1.5	180' Self Supporting Tower	2	83665	167330
3.1.6	200' Self Supporting Tower	1	94224	94224
3.1.7	220' Self Supporting Tower	1	111165	111165
3.1.8	240' Self Supporting Tower	2	128949	257898
3.1.9	260' Self Supporting Tower	1	142475	142475
3.1.10	280' Self Supporting Tower	1	162148	162148
3.1.11	300' Self Supporting Tower	2	178065	356130
3.1.12	320' Self Supporting Tower	2	196875	393750
3.1.13	340' Self Supporting Tower	2	222155	444310
3.1.14	360' Self Supporting Tower	2	230182	460364
3.1.15	380' Self Supporting Tower	2	262011	524022
3.1.16	400' Self Supporting Tower	1	298075	298075
3.1.17	100' Guyed Tower	1	30268	30268
3.1.18	120' Guyed Tower	1	33844	33844
3.1.19	140' Guyed Tower	1	44876	44876
3.1.20	160' Guyed Tower	1	48360	48360
3.1.21	200' Guyed Tower	1	54816	54816
3.1.22	240' Guyed Towers	1	66084	66084
3.1.23	280' Guyed Tower	1	79126	79126
3.1.24	320' Guyed Tower	1	98394	98394
3.1.25	360' Guyed Tower	1	102564	102564
3.1.26	400' Guyed Tower	1	120075	120075
3.1.27	440' Guyed Tower	1	128510	128510
3.1.28	480' Guyed Tower	1	139563	139563
3.1.29	Six (6) foot standard arms	10	535	5350
3.1.30	Six (6) foot tapered side arms	10	610	6100
3.1.31	Safety climb device (acceptable increments of 100 foot)	10	422	4220
3.1.32	FAA approved white light and red LED beacon combinations	10	8960	89600
3.1.33	Red side lights, shall be LED fixtures	10	710	7100
3.1.34	Four (4) inch microwave dish pipe mounts with all hardware. Must have capability of attaching to straight sections of tapered section	60	525	31500
3.1.35	Ice shields for six (6) foot dishes	16	824	13184
3.1.36	Ice shields for eight (8) foot dishes	16	988	15808
3.1.37	Twenty (20) foot vertical waveguide ladder (minimum width of 24 inches)	100	115	11500
3.1.38	Ten (10) foot horizontal waveguide bridge (minimum width of 24 inches)	12	795	9540
3.1.39	Three (3) foot standard side arms	24	565	13560
3.1.40	Three (3) foot tapered side arms	24	590	14160

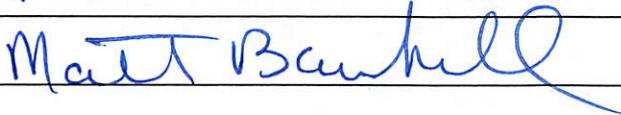
**CRFQ HSE21*09 - EXHIBIT A
Pricing Page - WV EMD**

3.1.41	Twelve (12) foot sector booms capable of supporting four (4) antennas on each sector. Assume one (1) foot solid panel that is six (6) feet in length and six (6) inches thick.	6	5295	31770
3.1.42	Tower light controller kit for tower lights. Tower lights must be capable of providing telemetry.	3	1330	3990
GRAND TOTAL				4824019

Estimated Annual Quantities are for bid evaluation purposes only. Actual quantities ordered may be more or less.

Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost.

VENDOR SECTION:

Vendor Name:	Allstate Tower Inc.
Physical Address:	232 Heilman Ave Henderson, Ky 42420
Remit to Address:	PO Box 25 Henderson, Ky 42419
Telephone:	270-830-8512
Fax:	270-830-8475
Email:	mbarnhill@pttg.com
Vendor Representative (print name):	Math Barnhill
Signature:	

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ ADJ2100000039

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

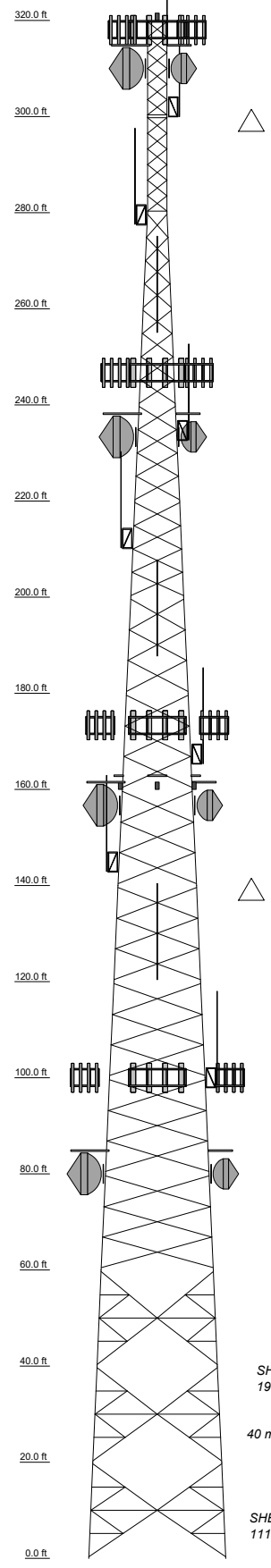
Allstate Tower Inc
Company

Matt Bankhill
Authorized Signature

5.18.21
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Section	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	L1	
Legs	SR 5	SR 5	SR 5	SR 4 I/2	SR 4 I/4	SR 4	SR 3 I/4	SR 3 I/4	SR 3	SR 3 I/4	SR 3 I/4	SR 2 I/4	SR 2 I/4	SR 1/5/8	SR 1/5/8	
Leg Grade	2L3x3x1/4x1/2	2L3x3x3/16x1/2	2L3x3x3/16x1/2	L4x4x5/16	L4x4x1/4	L3x3x3/16	L3 1/2x3 1/2x1/4	L3x3x1/4	L3x3x3/16	L3x3x3/16	L2x2x3/16	L2x2x3/16	L1 3/4x1 3/4x3/16	L1 1/2x1 1/2x3/16	L1 3/4x1 3/4x3/16	
Diagonal Grade																
Top Grids																
Bottom Grids																
Horizontals																
Red. Horizontals																
Red. Diagonals																
Inner Bracing																
# Face Width (ft)	28.5	28.75	24	21.5	19.75	18	16	14.5	12.75	11	9.25	7.5	5.75	4	4	
# Panels @ (ft)				6 @ 9.875	9 @ 6.36111	6 @ 6.375	6 @ 6.40278	6 @ 4.5232	8 @ 4.84375	8 @ 4.84375	8 @ 4.84375	8 @ 4.84375	12 @ 3.23611	12 @ 3.23611	12 @ 3.23611	
Weight (K)	72.3	6.7	7.5	8.0	6.7	5.6	3.9	3.0	3.3	3.3	2.6	2.2	2.1	1.7	1.3	0.9



ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 750 K
SHEAR: 70 K

UPLIFT: -629 K
SHEAR: 60 K

AXIAL 250 K

SHEAR 19 K MOMENT 3259 kip-ft

TORQUE 9 kip-ft
40 mph WIND - 1.0000 in ICE

AXIAL 129 K

SHEAR 111 K MOMENT 17447 kip-ft

TORQUE 55 kip-ft
REACTIONS - 120 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	320	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	173.33
L-Lighting Beacon	320	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	173.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	320	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	173.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	320	(3) 12' Gate Mount(s)	173.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	320	3' Sidearm(s)	167.33
(3) 12' Gate Mount(s)	320	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	167.33
Ice Shield For 06' Dish	315	2'x2' Ice Shield / Rest Platform	163
Ice Shield For 08' Dish	315	2'x2' Ice Shield / Rest Platform	163
Leg Mounted 6' Dish Mount Assembly	310	2'x2' Ice Shield / Rest Platform	163
Leg Mounted 8' Dish Mount Assembly	310	Ice Shield For 06' Dish	161.67
6' Std. Dish w/Radome (EW63)	310	Ice Shield For 08' Dish	161.67
8' Std. Dish w/Radome (EW63)	310	L-Side Light / Obstruction Light	160
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	302	L-Side Light / Obstruction Light	160
3' Sidearm(s)	302	L-Side Light / Obstruction Light	160
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	279.56	Leg Mounted 6' Dish Mount Assembly	156.67
3' Sidearm(s)	279.56	Leg Mounted 8' Dish Mount Assembly	156.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	257.11	6' Std. Dish w/Radome (EW63)	156.67
3' Sidearm(s)	257.11	8' Std. Dish w/Radome (EW63)	156.67
(3) 12' Gate Mount(s)	246.67	3' Sidearm(s)	144.89
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	246.67	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	144.89
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	246.67	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	122.44
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	246.67	3' Sidearm(s)	122.44
Ice Shield For 06' Dish	238.33	3' Sidearm(s)	100
Ice Shield For 08' Dish	238.33	(3) 12' Gate Mount(s)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	234.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
3' Sidearm(s)	234.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
Leg Mounted 6' Dish Mount Assembly	233.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	100
Leg Mounted 8' Dish Mount Assembly	233.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
6' Std. Dish w/Radome (EW63)	233.33	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	233.33	Ice Shield For 06' Dish	85
3' Sidearm(s)	212.22	Leg Mounted 8' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	212.22	Leg Mounted 6' Dish Mount Assembly	80
3' Sidearm(s)	189.78	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	189.78	8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

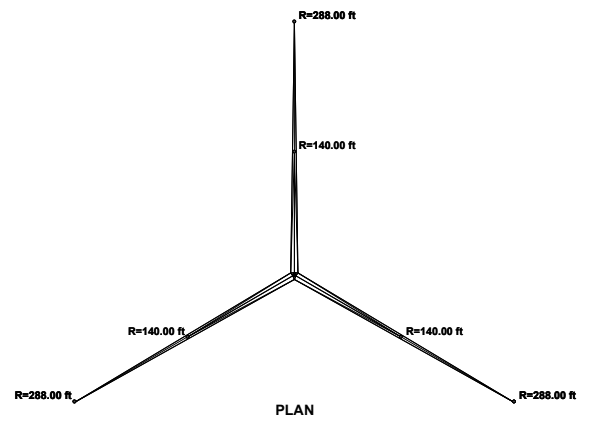
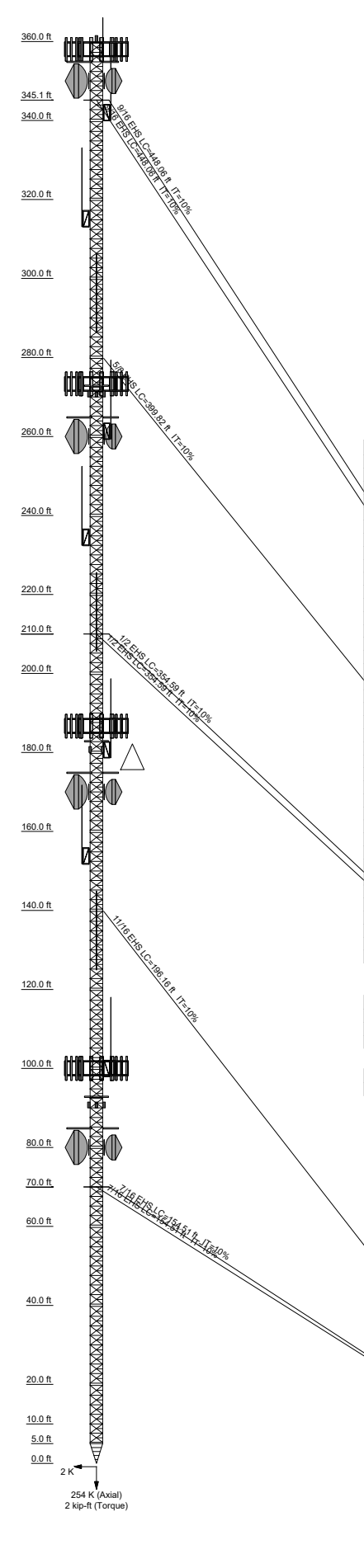
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D 1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 97.3%

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-320SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/14/21	App'd: Scale: NTS Dwg No. E-1
--	---	--	---	-------------------------------------

Section	T10	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 2																			
Leg Grade	A572-50																			
Diagonals	SR 3/4																			
Diagonal Grade	N.A.																			
Top Chfs	SR 3/4																			
Mid Chfs	N.A.																			
Bottom Chfs	SR 3/4																			
Horizontals	SR 3/4																			
Sec. Horizontals	SR 3/4																			
Top Guy Pull-Offs	N.A.																			
Face Width (ft)	140 @ 2.427/08																			
Weight (K)	20.3	0.5	0.3	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	360	3' Sidearm(s)	207.56
L-Lighting Beacon	360	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	186.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	360	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	186.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	360	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	186.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	360	(3) 12' Gate Mount(s)	186.67
(3) 12' Gate Mount(s)	360	2'x2' Ice Shield / Rest Platform	183
Ice Shield For 06' Dish	355	2'x2' Ice Shield / Rest Platform	183
Ice Shield For 08' Dish	355	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	180.67
Leg Mounted 6' Dish Mount Assembly	350	3' Sidearm(s)	180.67
Leg Mounted 8' Dish Mount Assembly	350	L-Lighting Beacon	180
6' Std. Dish w/Radome (EW63)	350	L-Lighting Beacon	180
8' Std. Dish w/Radome (EW63)	350	Ice Shield For 06' Dish	175
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	342	Ice Shield For 08' Dish	175
3' Sidearm(s)	342	Leg Mounted 6' Dish Mount Assembly	170
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	315.11	Leg Mounted 6' Dish Mount Assembly	170
3' Sidearm(s)	315.11	6' Std. Dish w/Radome (EW63)	170
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	288.22	8' Std. Dish w/Radome (EW63)	170
3' Sidearm(s)	288.22	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	153.78
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	273.33	3' Sidearm(s)	126.89
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	273.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	126.89
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	273.33	3' Sidearm(s)	100
(3) 12' Gate Mount(s)	273.33	3' Sidearm(s)	100
2'x2' Ice Shield / Rest Platform	273	(3) 12' Gate Mount(s)	100
2'x2' Ice Shield / Rest Platform	273	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
2'x2' Ice Shield / Rest Platform	273	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
L-Side Light / Obstruction Light	270	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
L-Side Light / Obstruction Light	270	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
L-Side Light / Obstruction Light	270	2'x2' Ice Shield / Rest Platform	93
Ice Shield For 06' Dish	265	2'x2' Ice Shield / Rest Platform	93
Ice Shield For 08' Dish	265	2'x2' Ice Shield / Rest Platform	93
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	261.33	L-Side Light / Obstruction Light	90
3' Sidearm(s)	261.33	L-Side Light / Obstruction Light	90
Leg Mounted 6' Dish Mount Assembly	260	L-Side Light / Obstruction Light	90
Leg Mounted 8' Dish Mount Assembly	260	Ice Shield For 06' Dish	85
6' Std. Dish w/Radome (EW63)	260	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	260	Leg Mounted 6' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	234.44	Leg Mounted 6' Dish Mount Assembly	80
3' Sidearm(s)	234.44	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	207.56	8' Std. Dish w/Radome (EW63)	80

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	4x3/4	D	2 @ 2.35417
B	SR 3/4	E	5 @ 1
C	C5x9		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

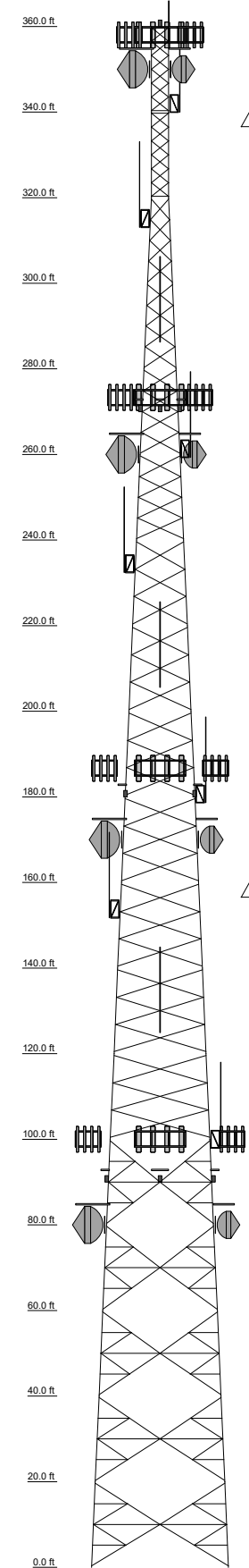
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower is designed for integral climbing ladder.
9. Tower is designed for integral feedline tab(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. ** Preliminary Design - Not For Construction **
16. TOWER RATING: 97.1%



ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-360GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21	App'd: Scale: NTS Dwg No. E-1
--	---	---	---	-------------------------------------

Section	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	L2	L1
Legs	SR 5 1/4	SR 5 1/4	SR 5 1/4	SR 5 1/4	SR 5	SR 5 1/4	SR 4 3/4	SR 4 1/2	SR 4 1/4	SR 4 1/4	SR 4	SR 3 3/4	SR 3 1/4	SR 3	SR 2 3/4	SR 2 3/4	SR 2 1/4	SR 1 3/4
Leg Grade	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	L4x4x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3x3x1/4	L3x3x3/16	L2 1/2x2 1/2x3/16	L2x2x3/16	L2x2x3/16	L1 3/4x1 3/4x3/16	L1 1/2x1 1/2x3/16	SR 7/8
Diagonal Grade																		A572-50
Top Girts																		A572-50
Bottom Girts																		SR 7/8
Horizontals	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	SR 7/8	
Red. Horizontals																		A572-50
Inner Diagonals	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L3x3x1/4x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L2 1/2x2 1/2x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	2L1 3/4x1 3/4x3/16x1/2	SR 7/8	
# Panels @ (ft)	30.25	28.5	26.75	25	23.25	21.5	19.75	18	16.25	14.5	12.75	11	9.25	7.5	5.75	4	4	4
Weight (K)	91.1	80	67	57	52	44	39	33	28	22	18	15	12	10	8	6	4	12 @ 3.23611



ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 853 K
SHEAR: 79 K

UPLIFT: -708 K
SHEAR: 68 K

AXIAL 296 K
SHEAR 22 K / MOMENT 4121 kip-ft

TORQUE 10 kip-ft
40 mph WIND - 1.0000 in ICE

AXIAL 154 K
SHEAR 128 K / MOMENT 22221 kip-ft

TORQUE 65 kip-ft
REACTIONS - 120 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	360	3' Sidearm(s)	207.56
L-Lighting Beacon	360	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	186.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	360	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	186.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	360	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	186.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	360	(3) 12' Gate Mount(s)	186.67
(3) 12' Gate Mount(s)	360	2x2' Ice Shield / Rest Platform	183
Ice Shield For 06' Dish	355	2x2' Ice Shield / Rest Platform	183
Ice Shield For 08' Dish	355	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	180.67
Leg Mounted 6' Dish Mount Assembly	350	3' Sidearm(s)	180.67
Leg Mounted 8' Dish Mount Assembly	350	L-Lighting Beacon	180
6' Std. Dish w/Radome (EW63)	350	L-Lighting Beacon	180
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	342	Ice Shield For 06' Dish	175
3' Sidearm(s)	342	Leg Mounted 6' Dish Mount Assembly	170
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	315.11	Leg Mounted 8' Dish Mount Assembly	170
3' Sidearm(s)	315.11	6' Std. Dish w/Radome (EW63)	170
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	288.22	8' Std. Dish w/Radome (EW63)	170
3' Sidearm(s)	288.22	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	153.78
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	273.33	3' Sidearm(s)	153.78
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	273.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	126.89
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	273.33	3' Sidearm(s)	126.89
(3) 12' Gate Mount(s)	273.33	3' Sidearm(s)	100
2x2' Ice Shield / Rest Platform	273	(3) 12' Gate Mount(s)	100
2x2' Ice Shield / Rest Platform	273	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
L-Side Light / Obstruction Light	270	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
L-Side Light / Obstruction Light	270	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
L-Side Light / Obstruction Light	270	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
Ice Shield For 06' Dish	265	2x2' Ice Shield / Rest Platform	93
Ice Shield For 08' Dish	265	2x2' Ice Shield / Rest Platform	93
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	261.33	2x2' Ice Shield / Rest Platform	93
3' Sidearm(s)	261.33	L-Side Light / Obstruction Light	90
Leg Mounted 6' Dish Mount Assembly	260	L-Side Light / Obstruction Light	90
Leg Mounted 8' Dish Mount Assembly	260	Ice Shield For 06' Dish	85
6' Std. Dish w/Radome (EW63)	260	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	260	Leg Mounted 6' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	234.44	Leg Mounted 8' Dish Mount Assembly	80
3' Sidearm(s)	234.44	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	207.56	8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 99%

PTTG
ALLSTATE TOWER

Allstate Tower Inc.
P.O. Box 25
Henderson, KY. 42419
Phone: (270) 830 - 8512
FAX: (270) 228 - 4551

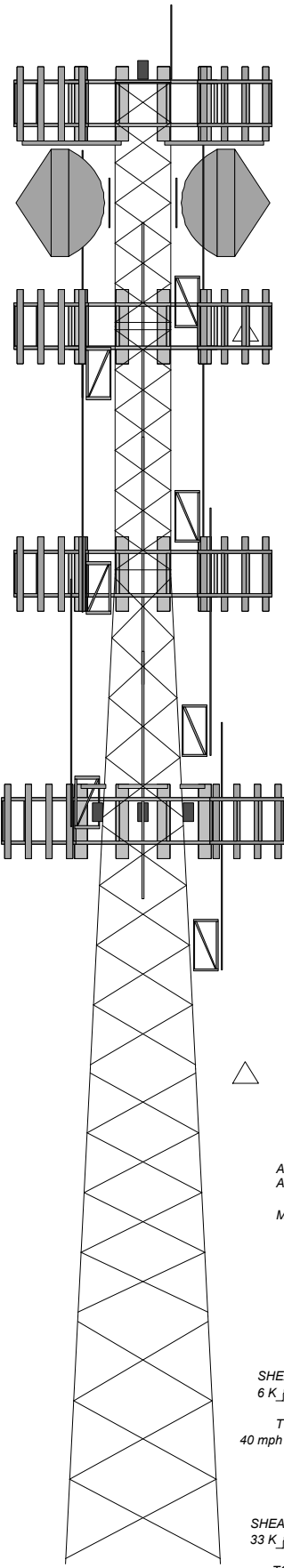
Job: **WV-360SS : 2021 Matrix**
Project: **As Req'd**
Client: **State of WV.**
Code: **TIA-222-H**
Path:

Drawn by: **Allstate Tower Inc.**
Date: **05/14/21**

App'd: _____
Scale: **NTS**
Dwg No: **E-1**

Section	L1	L2	T1	T2	T3	T4	12.5	11.7
Legs	SR 1 3/4	SR 2 1/4	SR 2 3/4	SR 3	SR 3 1/2	SR 3	8 @ 6.40278	3 @ 6.40278
Diagonals	SR 7/8	SR 1	SR 1	L2x2x3/16	L2 1/2x2 1/2x3/16	A572-50	N.A.	N.A.
Diagonal Grade	A572-50	SR 1	SR 1	A529-50	A529-50	A529-50	N.A.	N.A.
Top Girts	SR 7/8	SR 1	SR 1	N.A.	N.A.	N.A.	N.A.	N.A.
Bottom Girts	SR 7/8	SR 1	SR 1	N.A.	N.A.	N.A.	N.A.	N.A.
Face Width (ft)	4.5	4.5	4.5	6.5	10.5	10.5	8 @ 4.82282	3 @ 6.40278
# Panels @ (ft)	12 @ 3.23611	12 @ 3.23611	4 @ 4.84375	8 @ 4.82282	8 @ 4.82282	8 @ 4.82282	8 @ 4.82282	3 @ 6.40278
Weight (K)	1.0	1.5	1.8	2.2	2.3	2.3	2.9	2.9

120.0 ft
100.0 ft
80.0 ft
60.0 ft
40.0 ft
20.0 ft
0.0 ft



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	120	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
L-Lighting Beacon	120	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	(3) 12' Gate Mount(s)	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	78.89
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	3' Sidearm(s)	78.89
(3) 12' Gate Mount(s)	120	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	73.11
Ice Shield For 08' Dish	115	3' Sidearm(s)	73.11
Ice Shield For 08' Dish	115	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	67.33
Leg Mounted 8' Dish Mount Assembly	110	3' Sidearm(s)	67.33
Leg Mounted 8' Dish Mount Assembly	110	2x2' Ice Shield / Rest Platform	63
8' Std. Dish w/Radome (EW63)	110	2x2' Ice Shield / Rest Platform	63
8' Std. Dish w/Radome (EW63)	110	2x2' Ice Shield / Rest Platform	63
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	102	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	61.56
3' Sidearm(s)	102	3' Sidearm(s)	61.56
(3) 12' Gate Mount(s)	100	L-Side Light / Obstruction Light	60
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	L-Side Light / Obstruction Light	60
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	60
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	L-Side Light / Obstruction Light	60
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	96.22	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	60
3' Sidearm(s)	96.22	(3) 12' Gate Mount(s)	60
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	90.44	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	60
3' Sidearm(s)	90.44	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	55.78
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	84.67	3' Sidearm(s)	55.78
3' Sidearm(s)	84.67	3' Sidearm(s)	50
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	50

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

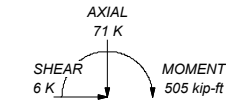
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 96.3%

ALL REACTIONS
ARE FACTORED

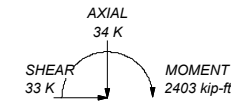
MAX. CORNER REACTIONS AT BASE:

DOWN: 230 K
SHEAR: 20 K

UPLIFT: -206 K
SHEAR: 19 K



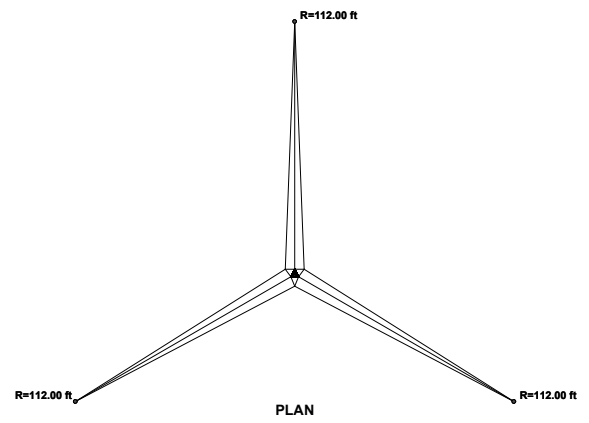
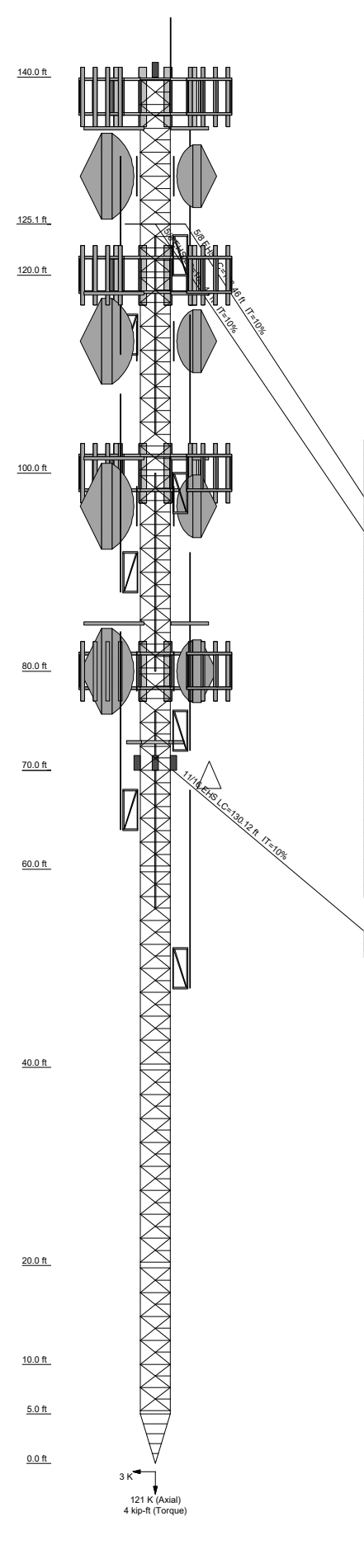
TORQUE 2 kip-ft
40 mph WIND - 1.0000 in ICE



TORQUE 15 kip-ft
REACTIONS - 120 mph WIND

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-120SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/14/21	App'd: Scale: NTS Dwg No. E-1
	<small>© 2021 PTTG, Inc. All rights reserved. PTTG, Inc. is a registered trademark of PTTG, Inc. All other trademarks are the property of their respective owners.</small>			

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11
Legs	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 3/4	SR 1 1/8
Leg Grade	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50
Diagonals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Diagonal Grade	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Top Girts	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8
Mid Girts	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Bottom Girts	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Horizontals	CA7/25	CA7/25	CA7/25	CA7/25	CA7/25	CA7/25	CA7/25	CA7/25	CA7/25	CA7/25	CA7/25
Sec. Horizontals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Top Guy Pull-Offs	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Face Width (ft)	5 @ 1	2 @ 2.35417	5 @ 1	2 @ 2.35417	5 @ 1	2 @ 2.35417	5 @ 1	2 @ 2.35417	5 @ 1	2 @ 2.35417	5 @ 1
# Panels @ (ft)	0.4	0.3	0.5	0.4	0.3	0.5	0.4	0.3	0.5	0.4	0.3
Weight (K)	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6



DESIGNED APPURTENANCE LOADING

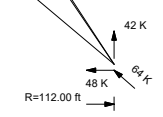
TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	140	3' Sidearm(s)	98
L-Lighting Beacon	140	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	98
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	Leg Mounted 6' Dish Mount Assembly	96.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	Leg Mounted 8' Dish Mount Assembly	96.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	6' Std. Dish w/Radome (EW63)	96.67
(3) 12' Gate Mount(s)	140	8' Std. Dish w/Radome (EW63)	96.67
Ice Shield For 06' Dish	135	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	90
Ice Shield For 08' Dish	135	3' Sidearm(s)	90
Leg Mounted 6' Dish Mount Assembly	130	Ice Shield For 06' Dish	85
Leg Mounted 8' Dish Mount Assembly	130	Ice Shield For 08' Dish	85
6' Std. Dish w/Radome (EW63)	130	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	82
8' Std. Dish w/Radome (EW63)	130	3' Sidearm(s)	82
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	122	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
3' Sidearm(s)	122	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
(3) 12' Gate Mount(s)	120	(3) 12' Gate Mount(s)	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	Leg Mounted 6' Dish Mount Assembly	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	Leg Mounted 8' Dish Mount Assembly	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
Ice Shield For 06' Dish	118.33	6' Std. Dish w/Radome (EW63)	80
Ice Shield For 08' Dish	118.33	8' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	114	3' Sidearm(s)	74
3' Sidearm(s)	114	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	74
Leg Mounted 6' Dish Mount Assembly	113.33	2x2' Ice Shield / Rest Platform	73
Leg Mounted 8' Dish Mount Assembly	113.33	2x2' Ice Shield / Rest Platform	73
6' Std. Dish w/Radome (EW63)	113.33	2x2' Ice Shield / Rest Platform	73
8' Std. Dish w/Radome (EW63)	113.33	L-Side Light / Obstruction Light	70
3' Sidearm(s)	106	L-Side Light / Obstruction Light	70
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	106	L-Side Light / Obstruction Light	70
Ice Shield For 06' Dish	101.67	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	66
Ice Shield For 08' Dish	101.67	3' Sidearm(s)	66
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	3' Sidearm(s)	58
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	58
(3) 12' Gate Mount(s)	100	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	50
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	3' Sidearm(s)	50

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

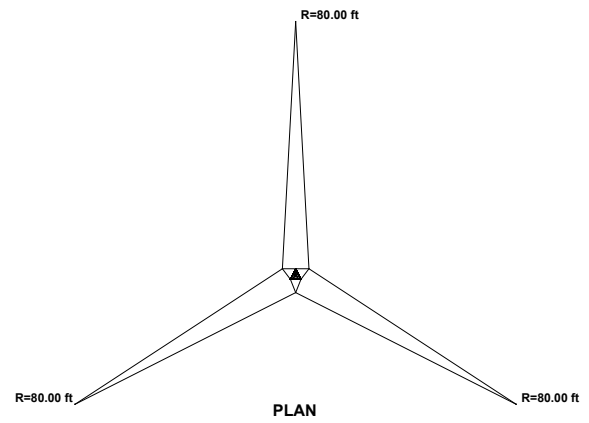
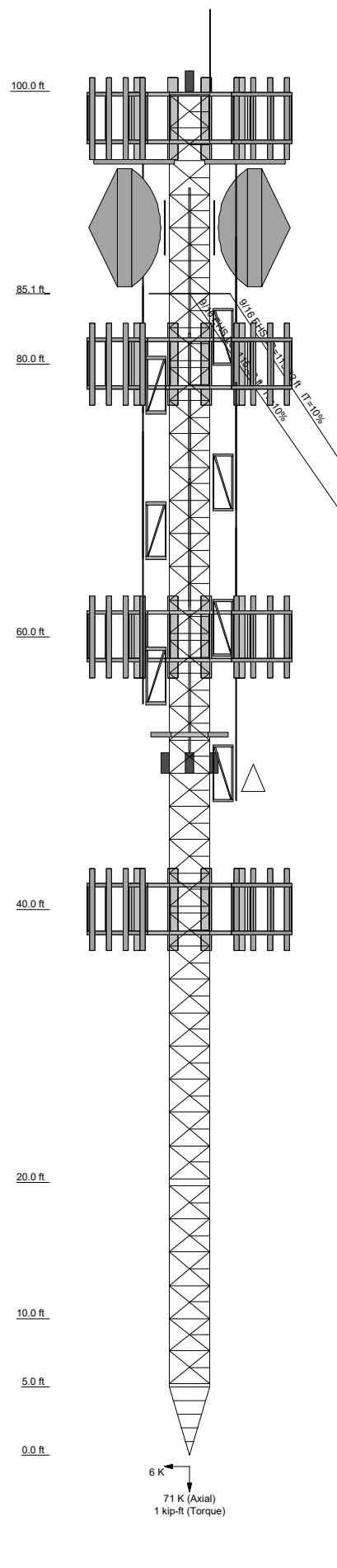
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower is designed for integral climbing ladder.
9. Tower is designed for integral feedline tab(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D.1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. ** Preliminary Design - Not For Construction **
16. TOWER RATING: 91%



ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-140GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21	App'd: Scale: NTS Dwg No: E-1
--	---	---	---	---

Section	T1	T2	T3	T4	T5	T6	T7
Legs	SR 1 3/4	A572-50	SR 3/4	A572-50	SR 3/4	A572-50	SR 3/4
Diagonals							
Diagonal Grade							
Top Girts							
Mid Girts							
Bottom Girts							
Horizontal							
Sec. Horizontal							
Top Guy Pull-Offs							
Face Width (ft)							
# Panels @ (ft)							
Weight (K)							



DESIGNED APPURTENANCE LOADING

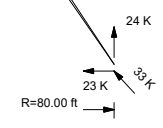
TYPE	ELEVATION	TYPE	ELEVATION
6' Lighting Rod	100	3' Sidearm(s)	67.78
L-Lighting Beacon	100	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	64.22
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	3' Sidearm(s)	64.22
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	60.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	3' Sidearm(s)	60.67
(3) 12' Gate Mount(s)	100	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	60
Ice Shield For 08' Dish	95	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	60
Ice Shield For 08' Dish	95	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	60
Leg Mounted 8' Dish Mount Assembly	90	(3) 12' Gate Mount(s)	60
Leg Mounted 8' Dish Mount Assembly	90	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	57.11
8' Std. Dish w/Radome (EW63)	90	3' Sidearm(s)	57.11
8' Std. Dish w/Radome (EW63)	90	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	53.56
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	82	3' Sidearm(s)	53.56
3' Sidearm(s)	82	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	53
(3) 12' Gate Mount(s)	80	2'x2' Ice Shield / Rest Platform	53
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80	2'x2' Ice Shield / Rest Platform	53
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80	2'x2' Ice Shield / Rest Platform	53
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80	L-Side Light / Obstruction Light	50
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	78.44	L-Side Light / Obstruction Light	50
3' Sidearm(s)	78.44	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	50
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	74.89	3' Sidearm(s)	50
3' Sidearm(s)	74.89	L-Side Light / Obstruction Light	50
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	71.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	40
3' Sidearm(s)	71.33	(3) 12' Gate Mount(s)	40
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	67.78	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	40
		(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	40

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

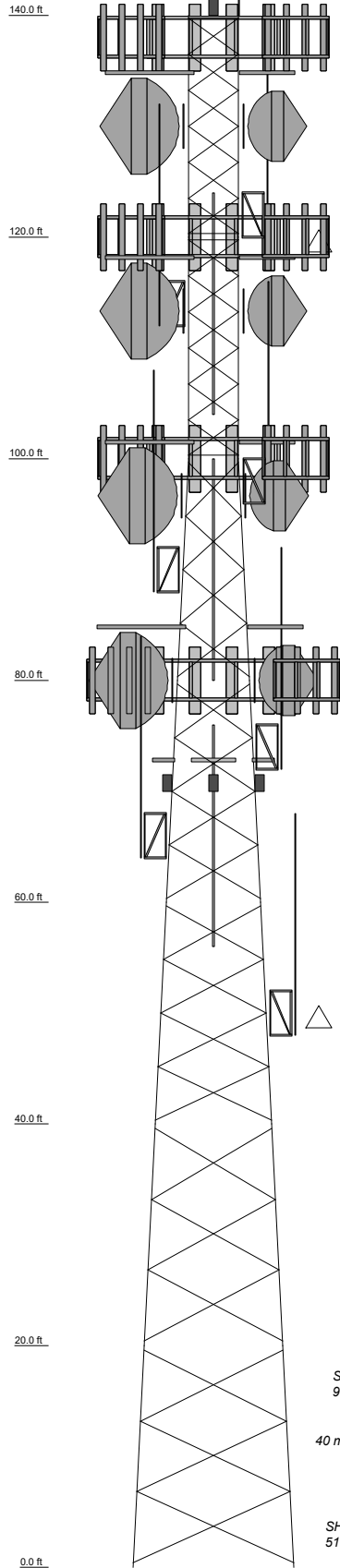
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower is designed for integral climbing ladder.
9. Tower is designed for integral feedline tab(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. ** Preliminary Design - Not For Construction **
16. TOWER RATING: 89.7%



ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-100GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21 Scale: NTS Dwg No. E-1
--	---	---	--

Section	L1	L2	T1	T2	T3	T4	T5	14	15	16	17.5
Legs	SR 1 3/4	SR 2 1/4	SR 3	SR 3 1/4	SR 3 1/2	SR 4					
Leg Grade	SR 7/8										
Diagonals											
Diagonal Grade	A572-50										
Top Girts	SR 1	SR 1	SR 1								
Bottom Girts	SR 1	SR 1	SR 1								
Face Width (ft)	4.5	4.5	4.5	6.5	8.5	10.5	12.5				
# Panels @ (ft)	12 @ 3.23611		4 @ 4.84375	8 @ 4.82282			6 @ 6.40278				
Weight (K)	1.0	1.5	2.1	2.4	3.0	3.6	3.9				



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	140	3' Sidearm(s)	98
L-Lighting Beacon	140	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	98
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	Leg Mounted 6' Dish Mount Assembly	96.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	Leg Mounted 8' Dish Mount Assembly	96.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	6' Std. Dish w/Radome (EW63)	96.67
(3) 12' Gate Mount(s)	140	8' Std. Dish w/Radome (EW63)	96.67
Ice Shield For 06' Dish	135	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	90
Ice Shield For 08' Dish	135	3' Sidearm(s)	90
Leg Mounted 6' Dish Mount Assembly	130	Ice Shield For 06' Dish	85
Leg Mounted 8' Dish Mount Assembly	130	Ice Shield For 08' Dish	85
6' Std. Dish w/Radome (EW63)	130	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	82
8' Std. Dish w/Radome (EW63)	130	3' Sidearm(s)	82
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	122	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
3' Sidearm(s)	122	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
(3) 12' Gate Mount(s)	120	(3) 12' Gate Mount(s)	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	Leg Mounted 6' Dish Mount Assembly	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	Leg Mounted 8' Dish Mount Assembly	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	80
Ice Shield For 06' Dish	118.33	6' Std. Dish w/Radome (EW63)	80
Ice Shield For 08' Dish	118.33	8' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	114	3' Sidearm(s)	74
3' Sidearm(s)	114	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	74
Leg Mounted 6' Dish Mount Assembly	113.33	2x2' Ice Shield / Rest Platform	73
Leg Mounted 8' Dish Mount Assembly	113.33	2x2' Ice Shield / Rest Platform	73
6' Std. Dish w/Radome (EW63)	113.33	2x2' Ice Shield / Rest Platform	73
8' Std. Dish w/Radome (EW63)	113.33	L-Side Light / Obstruction Light	70
3' Sidearm(s)	106	L-Side Light / Obstruction Light	70
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	106	L-Side Light / Obstruction Light	70
Ice Shield For 06' Dish	101.67	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	66
Ice Shield For 08' Dish	101.67	3' Sidearm(s)	66
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	3' Sidearm(s)	58
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	58
(3) 12' Gate Mount(s)	100	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	50
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100	3' Sidearm(s)	50

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

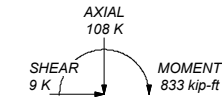
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D.1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 97.4%

ALL REACTIONS
ARE FACTORED

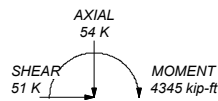
MAX. CORNER REACTIONS AT BASE:

DOWN: 358 K
SHEAR: 31 K

UPLIFT: -312 K
SHEAR: 28 K



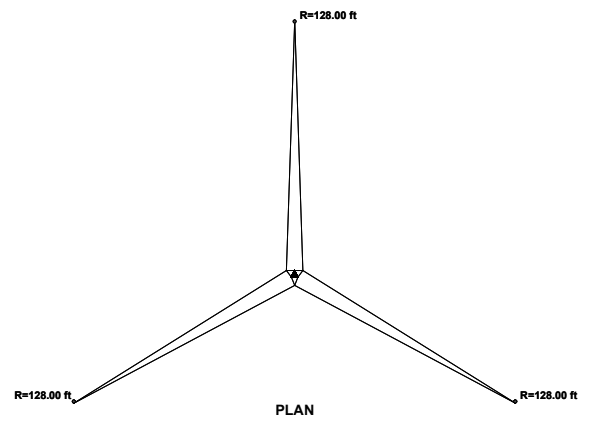
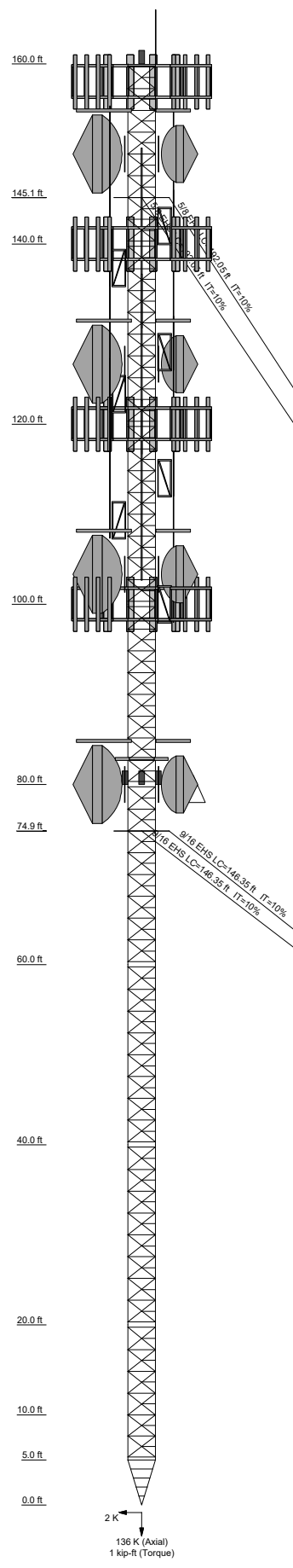
TORQUE 4 kip-ft
40 mph WIND - 1.0000 in ICE



TORQUE 27 kip-ft
REACTIONS - 120 mph WIND

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-140SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/14/21	App'd: Scale: NTS Dwg No. E-1
--	---	--	---	---

Section	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 1/34	SR 1/34	SR 1/34	SR 1/34	SR 1/34	SR 1/34	SR 1/34	SR 1/34	SR 1/34	SR 1/34
Leg Grade	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50	A572-50
Diagonals	SR 3/4	SR 3/4	SR 3/4	SR 3/4	SR 3/4	SR 3/4	SR 3/4	SR 3/4	SR 3/4	SR 3/4
Diagonal Grade	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Top Chfs	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8	3 1/2x5/8
Mid Chfs	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Bottom Chfs	N.A.	SR 3/4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Horizontals	CA87.25	CA87.25	CA87.25	CA87.25	CA87.25	CA87.25	CA87.25	CA87.25	CA87.25	CA87.25
Sec. Horizontals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Top Guy Pull-Offs	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Face Width (ft)	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7	5 @ 1' 2" @ 2.354+7
Weight (K)	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8



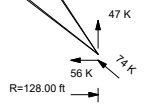
DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	160	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120
L-Lighting Beacon	160	(3) 12' Gate Mount(s)	120
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	160	3' Sidearm(s)	118.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	160	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	118.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	160	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	114
(3) 12' Gate Mount(s)	160	3' Sidearm(s)	114
Ice Shield For 06' Dish	155	3' Sidearm(s)	109.33
Ice Shield For 08' Dish	155	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	109.33
Leg Mounted 6' Dish Mount Assembly	150	Ice Shield For 06' Dish	108.33
Leg Mounted 8' Dish Mount Assembly	150	Ice Shield For 08' Dish	108.33
6' Std. Dish w/Radome (EW63)	150	3' Sidearm(s)	104.67
8' Std. Dish w/Radome (EW63)	150	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	104.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	142	Leg Mounted 6' Dish Mount Assembly	103.33
3' Sidearm(s)	142	Leg Mounted 8' Dish Mount Assembly	103.33
(3) 12' Gate Mount(s)	140	6' Std. Dish w/Radome (EW63)	103.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	8' Std. Dish w/Radome (EW63)	103.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	140	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	137.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
3' Sidearm(s)	137.33	3' Sidearm(s)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	132.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
3' Sidearm(s)	132.67	(3) 12' Gate Mount(s)	100
Ice Shield For 06' Dish	131.67	Ice Shield For 06' Dish	85
Ice Shield For 08' Dish	131.67	Ice Shield For 08' Dish	85
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	128	2x2' Ice Shield / Rest Platform	83
3' Sidearm(s)	128	2x2' Ice Shield / Rest Platform	83
Leg Mounted 6' Dish Mount Assembly	126.67	2x2' Ice Shield / Rest Platform	83
Leg Mounted 8' Dish Mount Assembly	126.67	Leg Mounted 6' Dish Mount Assembly	80
6' Std. Dish w/Radome (EW63)	126.67	L-Side Light / Obstruction Light	80
8' Std. Dish w/Radome (EW63)	126.67	L-Side Light / Obstruction Light	80
3' Sidearm(s)	123.33	Leg Mounted 8' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	123.33	L-Side Light / Obstruction Light	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	6' Std. Dish w/Radome (EW63)	80
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	120	8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

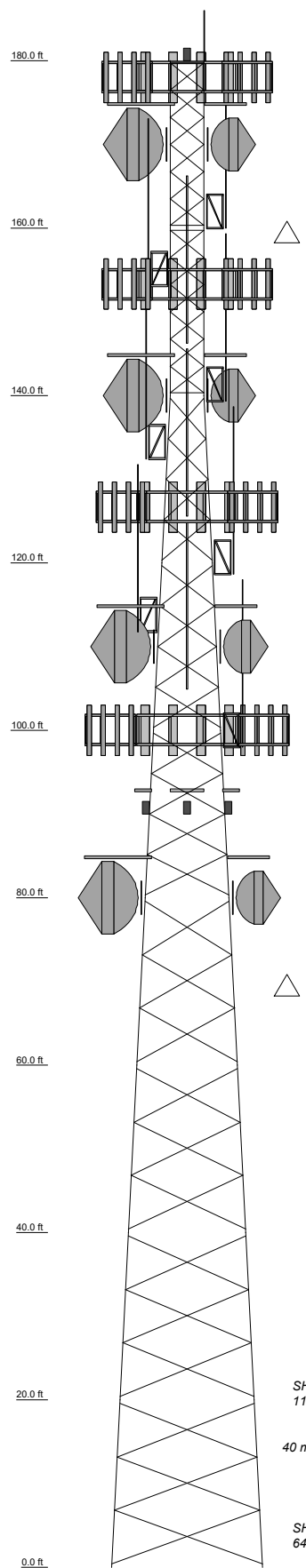
- ### TOWER DESIGN NOTES
1. Tower designed for Exposure C to the TIA-222-H Standard.
 2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
 3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
 4. Deflections are based upon a 60.00 mph wind.
 5. Tower Risk Category III.
 6. Topographic Category 1 with Crest Height of 0.00 ft
 7. Conservative ground elevation of 500' assumed.
 8. Tower is designed for integral climbing ladder.
 9. Tower is designed for integral feedline tab(s).
 10. All bolted legs and/or weld together tower sections have flange connections.
 11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
 12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
 13. All structural steel welding will be in compliance with AWS D.1.1 latest revision and fabricated with ER-70S-6 electrodes.
 14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
 15. ** Preliminary Design - Not For Construction **
 16. TOWER RATING: 99.2%



ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-160GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21	App'd: Scale: NTS Dwg No: E-1
--	---	---	---	---

Section	L1	L2	T1	T2	T3	T4	T5	T6	T7	
Legs	SR 1 3/4	SR 2 1/4	SR 2 3/4	SR 3 1/4	SR 3 1/4	SR 4	SR 4 1/4	SR 4 1/4	SR 4 1/2	
Diagonals	SR 7/8	SR 1	L2x3/16	L2x3/16	L3x3/16	L3x3/16	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	L3 1/2x3 1/2x1/4	
Diagonal Grade	A572-50	A572-50	A529-50	A529-50	N.A.	N.A.	N.A.	N.A.		
Top Girts	SR 7/8	SR 1	SR 1	SR 1	SR 1	SR 1	SR 1	SR 1	SR 1	
Bottom Girts	SR 7/8	SR 7/8	SR 7/8	SR 7/8	SR 7/8	SR 7/8	SR 7/8	SR 7/8	SR 7/8	
Face Width (ft)	4	4	4	4	4	4	4	4	4	
# Panels @ (ft)	12 @ 3.23611	1.4	1.8	2.4	2.7	3.7	3.8	4.7	5.5	
Weight (K)	1.0									



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	180	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	126.67
L-Lighting Beacon	180	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	126.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	180	(3) 12' Gate Mount(s)	126.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	180	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	126.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	180	3' Sidearm(s)	120.67
(3) 12' Gate Mount(s)	180	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	120.67
Ice Shield For 06' Dish	175	Ice Shield For 06' Dish	115
Ice Shield For 08' Dish	175	Ice Shield For 08' Dish	115
Leg Mounted 6' Dish Mount Assembly	170	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	113.78
Leg Mounted 8' Dish Mount Assembly	170	3' Sidearm(s)	113.78
6' Std. Dish w/Radome (EW63)	170	Leg Mounted 6' Dish Mount Assembly	110
8' Std. Dish w/Radome (EW63)	170	Leg Mounted 8' Dish Mount Assembly	110
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	162	6' Std. Dish w/Radome (EW63)	110
3' Sidearm(s)	162	6' Std. Dish w/Radome (EW63)	110
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	155.11	3' Sidearm(s)	106.89
3' Sidearm(s)	155.11	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	106.89
(3) 12' Gate Mount(s)	153.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	153.33	3' Sidearm(s)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	153.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	153.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	148.22	(3) 12' Gate Mount(s)	100
3' Sidearm(s)	148.22	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
Ice Shield For 06' Dish	145	2'x2' Ice Shield / Rest Platform	93
Ice Shield For 08' Dish	145	2'x2' Ice Shield / Rest Platform	93
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	141.33	2'x2' Ice Shield / Rest Platform	93
3' Sidearm(s)	141.33	L-Side Light / Obstruction Light	90
Leg Mounted 6' Dish Mount Assembly	140	L-Side Light / Obstruction Light	90
Leg Mounted 8' Dish Mount Assembly	140	L-Side Light / Obstruction Light	90
6' Std. Dish w/Radome (EW63)	140	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	140	Ice Shield For 06' Dish	85
3' Sidearm(s)	134.44	Leg Mounted 8' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	134.44	Leg Mounted 6' Dish Mount Assembly	80
3' Sidearm(s)	127.56	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	127.56	8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

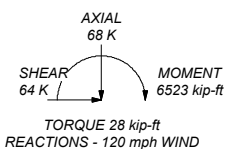
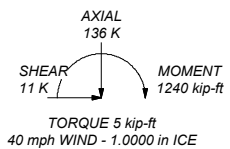
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 98.3%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

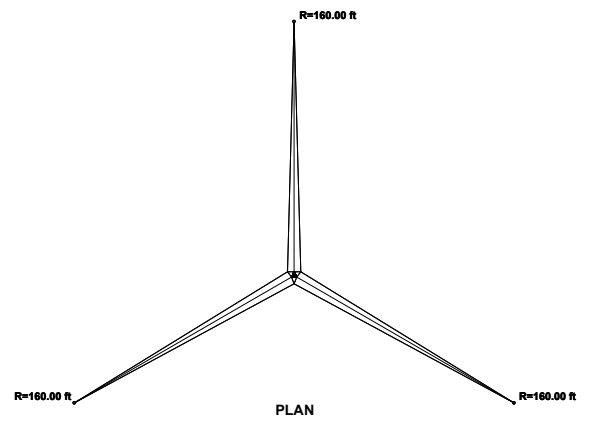
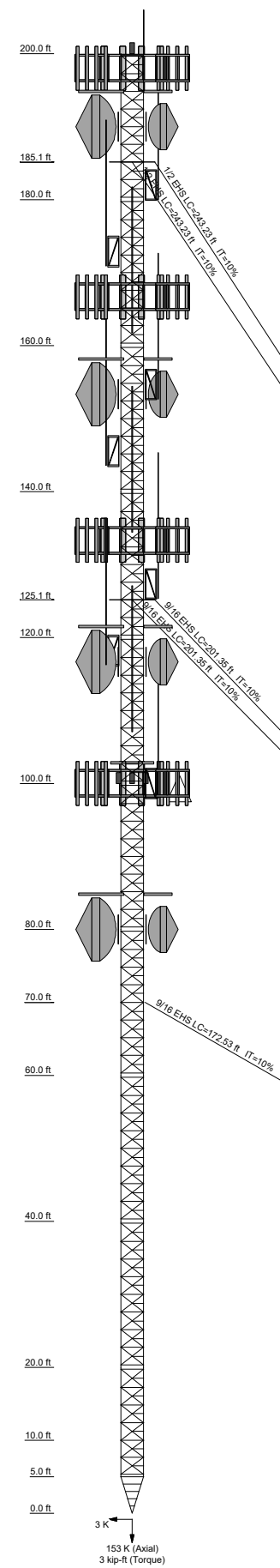
DOWN: 435 K
SHEAR: 39 K

UPLIFT: -376 K
SHEAR: 35 K



	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-180SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/14/21	App'd: Scale: NTS Dwg No: E-1
--	---	--	---	-------------------------------------

Section	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs						SR 1.3/4					SR 1.1/2	
Leg Grade								A572-50			SR 3/4	
Diagonals									SR 7/8			
Diagonal Grade								A572-50				
Top Chfs								SR 3/4				
Mid Chfs												
Bottom Chfs								SR 3/4				
Horizontals								SR 3/4				
Sec. Horizontals								SR 5/8				
Top Guy Pull-Offs									SR 1.1/8			
Face Width (ft)												
# Panels @ (ft)	5 @ 1	B	0.4	0.3	1.0	1.0	1.0	1.0	1.7	0.8	0.8	1.4
Weight (K)	10.8											



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	200	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	133.33
L-Lighting Beacon	200	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	133.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	200	(3) 12' Gate Mount(s)	133.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	200	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	133.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	200	3' Sidearm(s)	127.33
(3) 12' Gate Mount(s)	200	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	127.33
Ice Shield For 06' Dish	195	Ice Shield For 06' Dish	121.67
Ice Shield For 08' Dish	195	Ice Shield For 08' Dish	121.67
Leg Mounted 6' Dish Mount Assembly	190	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	118.22
Leg Mounted 8' Dish Mount Assembly	190	3' Sidearm(s)	118.22
6' Std. Dish w/Radome (EW63)	190	Leg Mounted 6' Dish Mount Assembly	116.67
6' Std. Dish w/Radome (EW63)	190	Leg Mounted 8' Dish Mount Assembly	116.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	182	6' Std. Dish w/Radome (EW63)	116.67
3' Sidearm(s)	182	8' Std. Dish w/Radome (EW63)	116.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	172.89	3' Sidearm(s)	109.11
3' Sidearm(s)	172.89	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	109.11
(3) 12' Gate Mount(s)	166.67	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	166.67	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	166.67	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	166.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	163.78	L-Side Light / Obstruction Light	100
3' Sidearm(s)	163.78	L-Side Light / Obstruction Light	100
Ice Shield For 06' Dish	158.33	3' Sidearm(s)	100
Ice Shield For 08' Dish	158.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	154.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
3' Sidearm(s)	154.67	(3) 12' Gate Mount(s)	100
Leg Mounted 6' Dish Mount Assembly	153.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	100
Leg Mounted 8' Dish Mount Assembly	153.33	L-Side Light / Obstruction Light	100
6' Std. Dish w/Radome (EW63)	153.33	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	153.33	Ice Shield For 06' Dish	85
3' Sidearm(s)	145.56	Leg Mounted 6' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	145.56	Leg Mounted 8' Dish Mount Assembly	80
3' Sidearm(s)	136.44	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	136.44	8' Std. Dish w/Radome (EW63)	80

SYMBOL LIST

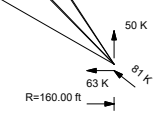
MARK	SIZE	MARK	SIZE
A	3 1/2x5/8	B	2 @ 2.35417

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

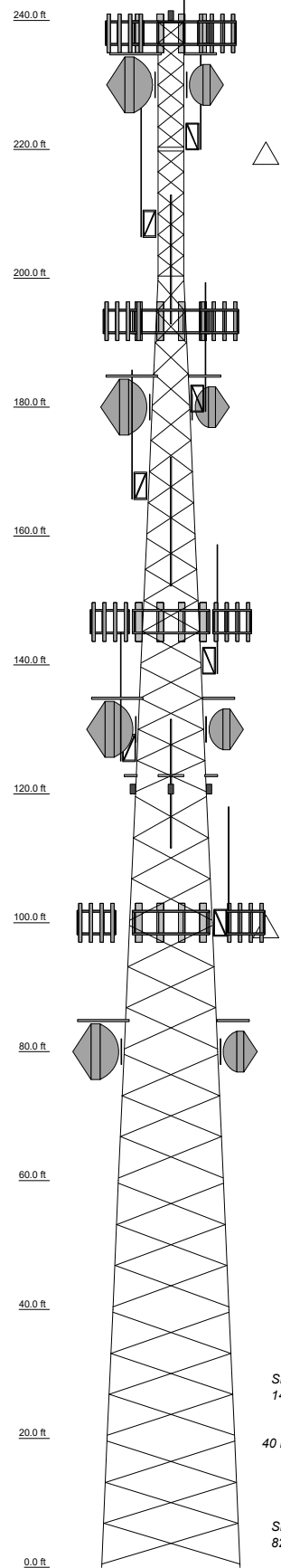
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower is designed for integral climbing ladder.
9. Tower is designed for integral feedline tab(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. ** Preliminary Design - Not For Construction **
16. TOWER RATING: 91.2%



ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-200GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21	App'd: Scale: NTS Dwg No: E-1
--	---	---	---	---

Section	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	
Legs	SR 1 1/2	SR 2 1/4	SR 2 3/4	SR 3	SR 3 1/4	SR 4	SR 4 1/4	SR 4 1/2	SR 4 3/4	SR 5	SR 5 1/2	SR 6	SR 6 1/2	SR 6 3/4	SR 7	SR 7 1/2	SR 7 3/4	SR 8	SR 8 1/2	SR 8 3/4	
Leg Grade																					
Diagonals																					
Diagonal Grade																					
Top Girts																					
Bottom Girts																					
Face Width (ft)																					
# Panels @ (ft)																					
Weight (K)																					



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	240	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	146.67
L-Lighting Beacon	240	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	146.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	240	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	146.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	240	(3) 12' Gate Mount(s)	146.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	240	3' Sidearm(s)	140.67
(3) 12' Gate Mount(s)	240	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	140.67
Ice Shield For 06' Dish	235	Ice Shield For 06' Dish	135
Ice Shield For 08' Dish	235	Ice Shield For 08' Dish	135
Leg Mounted 6' Dish Mount Assembly	230	Leg Mounted 6' Dish Mount Assembly	130
Leg Mounted 8' Dish Mount Assembly	230	Leg Mounted 8' Dish Mount Assembly	130
6' Std. Dish w/Radome (EW63)	230	6' Std. Dish w/Radome (EW63)	130
8' Std. Dish w/Radome (EW63)	230	8' Std. Dish w/Radome (EW63)	130
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	222	3' Sidearm(s)	127.11
3' Sidearm(s)	222	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	127.11
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	208.44	2'x2' Ice Shield / Rest Platform	123
3' Sidearm(s)	208.44	2'x2' Ice Shield / Rest Platform	123
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	194.89	2'x2' Ice Shield / Rest Platform	123
3' Sidearm(s)	194.89	L-Side Light / Obstruction Light	120
(3) 12' Gate Mount(s)	193.33	L-Side Light / Obstruction Light	120
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33	L-Side Light / Obstruction Light	120
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33	3' Sidearm(s)	113.56
Ice Shield For 06' Dish	185	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	113.56
Ice Shield For 08' Dish	185	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	181.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
3' Sidearm(s)	181.33	(3) 12' Gate Mount(s)	100
Leg Mounted 6' Dish Mount Assembly	180	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
Leg Mounted 8' Dish Mount Assembly	180	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
6' Std. Dish w/Radome (EW63)	180	3' Sidearm(s)	100
8' Std. Dish w/Radome (EW63)	180	Ice Shield For 08' Dish	85
3' Sidearm(s)	167.78	Ice Shield For 06' Dish	85
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	167.78	Leg Mounted 6' Dish Mount Assembly	80
3' Sidearm(s)	154.22	Leg Mounted 8' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	154.22	6' Std. Dish w/Radome (EW63)	80
		8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

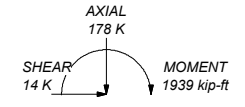
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D.1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 98.5%

ALL REACTIONS ARE FACTORED

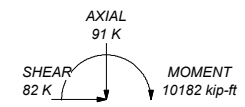
MAX. CORNER REACTIONS AT BASE:

DOWN: 577 K
SHEAR: 49 K

UPLIFT: -495 K
SHEAR: 45 K



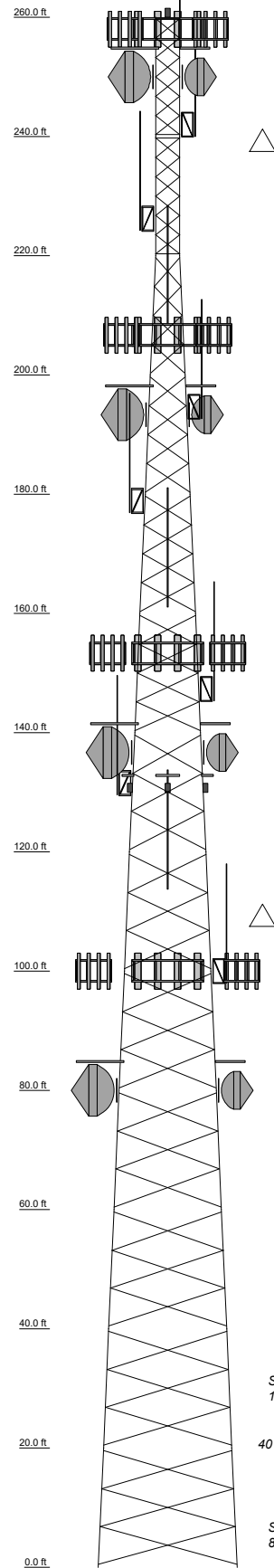
TORQUE 6 kip-ft
40 mph WIND - 1.0000 in ICE



TORQUE 38 kip-ft
REACTIONS - 120 mph WIND

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-240SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/14/21	App'd: Scale: NTS Dwg No. E-1
--	---	--	---	-------------------------------------

Section	L1	L2	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	
Legs	SR 1 3/4	SR 2 1/4	SR 2 3/4	SR 3	SR 3 1/4	SR 3 1/4	SR 4	SR 4	SR 4 1/4	SR 4 1/2	SR 4 3/4	SR 4 1/4	SR 5	
Leg Grade	SR 7/8		L1 1/2x1 1/2x3/16	L1 3/4x1 3/4x3/16	L2x2x3/16	L2 1/2x2 1/2x3/16	L3x3x3/16	L3x3x1/4	L4x4x1/4	L4x4x1/4	L3 1/2x3 1/2x1/4	L4x4x1/4	L4x4x5/16	
Diagonals														
Diagonal Grade	A572-50													
Top Girts														
Bottom Girts														
Face Width (ft)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
# Panels @ (ft)	12 @ 3.23611			8 @ 4.84375	8 @ 4.82292	6 @ 6.40278	6 @ 6.375	9 @ 6.36111	6 @ 6.375	6 @ 6.375	6 @ 6.375	6 @ 6.375	9 @ 6.36111	9 @ 6.36111
Weight (K)	1.0	1.3	1.7	2.1	2.5	2.8	3.8	3.9	4.7	5.6	6.1	6.7	8.0	50.0



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	260	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	153.33
L-Lighting Beacon	260	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	153.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	260	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	153.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	260	(3) 12' Gate Mount(s)	153.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	260	3' Sidearm(s)	147.33
(3) 12' Gate Mount(s)	260	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	147.33
Ice Shield For 06' Dish	255	Ice Shield For 06' Dish	141.67
Ice Shield For 08' Dish	255	Ice Shield For 08' Dish	141.67
Leg Mounted 6' Dish Mount Assembly	250	Leg Mounted 6' Dish Mount Assembly	136.67
Leg Mounted 8' Dish Mount Assembly	250	Leg Mounted 8' Dish Mount Assembly	136.67
6' Std. Dish w/Radome (EW63)	250	6' Std. Dish w/Radome (EW63)	136.67
8' Std. Dish w/Radome (EW63)	250	8' Std. Dish w/Radome (EW63)	136.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	242	2x2' Ice Shield / Rest Platform	133
3' Sidearm(s)	242	2x2' Ice Shield / Rest Platform	133
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	226.22	2x2' Ice Shield / Rest Platform	133
3' Sidearm(s)	226.22	3' Sidearm(s)	131.56
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	210.44	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	131.56
3' Sidearm(s)	210.44	L-Side Light / Obstruction Light	130
(3) 12' Gate Mount(s)	206.67	L-Side Light / Obstruction Light	130
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	206.67	L-Side Light / Obstruction Light	130
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	206.67	3' Sidearm(s)	115.78
Ice Shield For 06' Dish	198.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	115.78
Ice Shield For 08' Dish	198.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	194.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
3' Sidearm(s)	194.67	(3) 12' Gate Mount(s)	100
Leg Mounted 6' Dish Mount Assembly	193.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
Leg Mounted 8' Dish Mount Assembly	193.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	100
6' Std. Dish w/Radome (EW63)	193.33	3' Sidearm(s)	100
8' Std. Dish w/Radome (EW63)	193.33	Ice Shield For 08' Dish	85
3' Sidearm(s)	178.89	Ice Shield For 06' Dish	85
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	178.89	Leg Mounted 6' Dish Mount Assembly	80
3' Sidearm(s)	163.11	Leg Mounted 8' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	163.11	6' Std. Dish w/Radome (EW63)	80
		8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

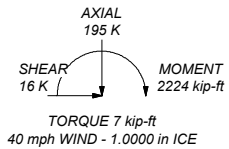
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D 1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 98%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 615 K
SHEAR: 53 K

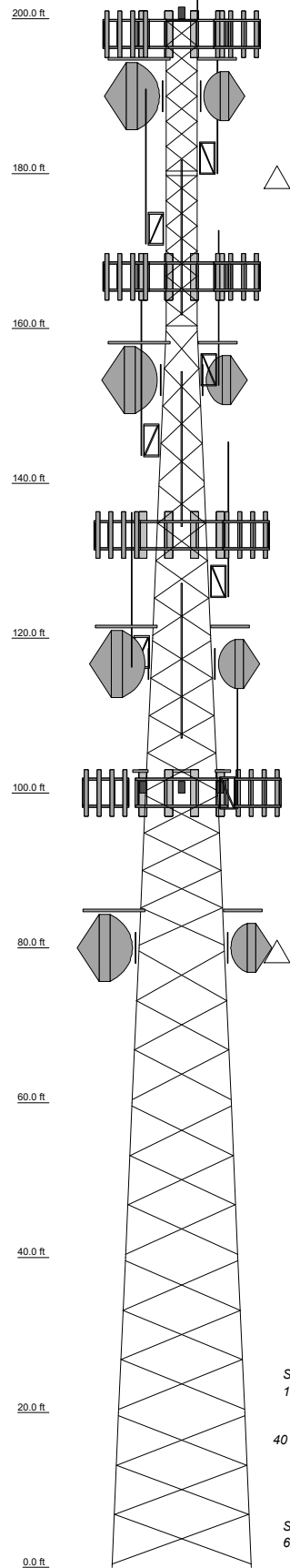
UPLIFT: -525 K
SHEAR: 48 K



REACTIONS - 120 mph WIND

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-260SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/14/21	App'd: Scale: NTS Dwg No. E-1
	<small>Copyright 2021 PTTG, Inc. All rights reserved. PTTG, Inc. is a registered trademark of PTTG, Inc. All other trademarks are the property of their respective owners.</small>			

Section	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20
Legs	SR 1 3/4	SR 2 1/4	SR 2 3/4	SR 3	SR 3 1/4	SR 3 1/2	SR 4	SR 4 1/4	SR 4 1/2	SR 4 3/4	SR 5	SR 5 1/4	SR 5 1/2	SR 5 3/4	SR 6	SR 6 1/4	SR 6 1/2	SR 6 3/4	SR 7	SR 7 1/4
Leg Grade																				
Diagonals																				
Diagonal Grade																				
Top Girts																				
Bottom Girts																				
Face Width (ft)																				
# Panels @ (ft)																				
Weight (K)																				



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	200	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	133.33
L-Lighting Beacon	200	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	133.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	200	(3) 12' Gate Mount(s)	133.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	200	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	133.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	200	3' Sidearm(s)	127.33
(3) 12' Gate Mount(s)	200	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	127.33
Ice Shield For 06' Dish	195	Ice Shield For 06' Dish	121.67
Ice Shield For 08' Dish	195	Ice Shield For 08' Dish	121.67
Leg Mounted 6' Dish Mount Assembly	190	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	118.22
Leg Mounted 8' Dish Mount Assembly	190	3' Sidearm(s)	118.22
6' Std. Dish w/Radome (EW63)	190	Leg Mounted 6' Dish Mount Assembly	116.67
8' Std. Dish w/Radome (EW63)	190	Leg Mounted 8' Dish Mount Assembly	116.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	182	6' Std. Dish w/Radome (EW63)	116.67
3' Sidearm(s)	182	8' Std. Dish w/Radome (EW63)	116.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	172.89	3' Sidearm(s)	109.11
3' Sidearm(s)	172.89	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	109.11
(3) 12' Gate Mount(s)	166.67	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	166.67	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	166.67	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	166.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	163.78	L-Side Light / Obstruction Light	100
3' Sidearm(s)	163.78	L-Side Light / Obstruction Light	100
Ice Shield For 06' Dish	158.33	3' Sidearm(s)	100
Ice Shield For 08' Dish	158.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	154.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Helix)	100
3' Sidearm(s)	154.67	(3) 12' Gate Mount(s)	100
Leg Mounted 6' Dish Mount Assembly	153.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	100
Leg Mounted 8' Dish Mount Assembly	153.33	L-Side Light / Obstruction Light	100
6' Std. Dish w/Radome (EW63)	153.33	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	153.33	Ice Shield For 06' Dish	85
3' Sidearm(s)	145.56	Leg Mounted 6' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	145.56	Leg Mounted 8' Dish Mount Assembly	80
3' Sidearm(s)	136.44	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Helix)	136.44	8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D.1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 98.1%

ALL REACTIONS ARE FACTORED

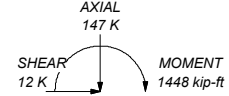
MAX. CORNER REACTIONS AT BASE:

DOWN: 507 K

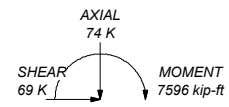
SHEAR: 41 K

UPLIFT: -441 K

SHEAR: 38 K



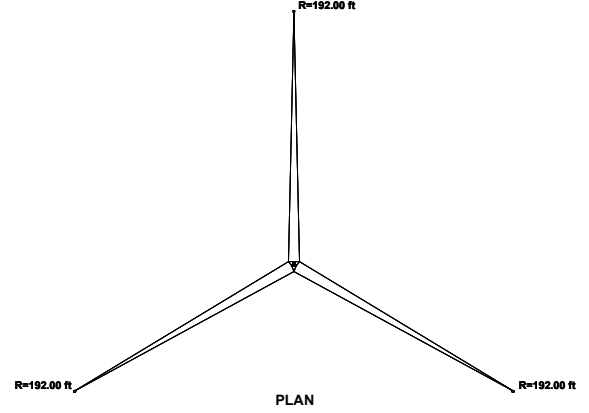
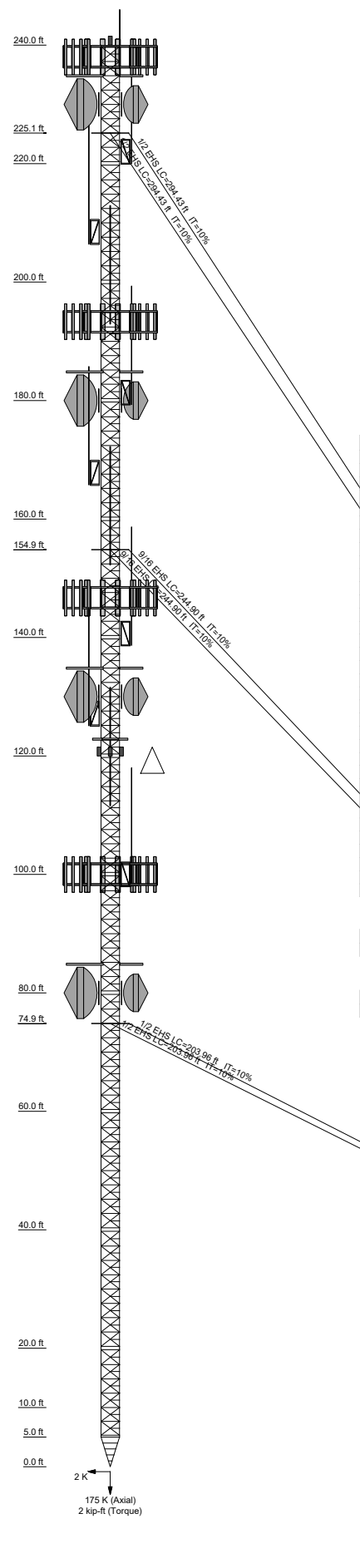
TORQUE 5 kip-ft
40 mph WIND - 1.0000 in ICE



TORQUE 30 kip-ft
REACTIONS - 120 mph WIND

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-200SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/14/21	App'd: Scale: NTS Dwg No: E-1
	<small>Copyright © 2021 PTTG, Inc. All rights reserved. PTTG, Allstate Tower Inc., and Allstate Tower are registered trademarks of PTTG, Inc.</small>			

Section	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Leg Grade	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Diagonals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Diagonal Grade	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Top Girts	4x3/4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Mid Girts	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Bottom Girts	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Horizontals	C5x9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Sec. Horizontals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Top Guy Pull-Offs	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Face Width (ft)	5 @ 1	A												
Weight (K)	13.7	0.5	0.3											



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	240	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	146.67
L-Lighting Beacon	240	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	146.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	240	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	146.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	240	(3) 12' Gate Mount(s)	146.67
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	240	3' Sidearm(s)	140.67
(3) 12' Gate Mount(s)	240	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	140.67
Ice Shield For 06' Dish	235	Ice Shield For 06' Dish	135
Ice Shield For 08' Dish	235	Ice Shield For 08' Dish	135
Leg Mounted 6' Dish Mount Assembly	230	Leg Mounted 6' Dish Mount Assembly	130
Leg Mounted 8' Dish Mount Assembly	230	Leg Mounted 8' Dish Mount Assembly	130
6' Std. Dish w/Radome (EW63)	230	6' Std. Dish w/Radome (EW63)	130
8' Std. Dish w/Radome (EW63)	230	8' Std. Dish w/Radome (EW63)	130
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	222	3' Sidearm(s)	127.11
3' Sidearm(s)	222	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	127.11
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	208.44	2x2' Ice Shield / Rest Platform	123
3' Sidearm(s)	208.44	2x2' Ice Shield / Rest Platform	123
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	194.89	2x2' Ice Shield / Rest Platform	123
3' Sidearm(s)	194.89	L-Side Light / Obstruction Light	120
(3) 12' Gate Mount(s)	193.33	L-Side Light / Obstruction Light	120
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33	L-Side Light / Obstruction Light	120
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33	3' Sidearm(s)	113.56
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	113.56
Ice Shield For 06' Dish	185	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
Ice Shield For 08' Dish	185	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	181.33	(3) 12' Gate Mount(s)	100
3' Sidearm(s)	181.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
Leg Mounted 6' Dish Mount Assembly	180	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
Leg Mounted 8' Dish Mount Assembly	180	3' Sidearm(s)	100
6' Std. Dish w/Radome (EW63)	180	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	180	Ice Shield For 06' Dish	85
3' Sidearm(s)	167.78	Leg Mounted 6' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	167.78	Leg Mounted 8' Dish Mount Assembly	80
3' Sidearm(s)	154.22	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	154.22	8' Std. Dish w/Radome (EW63)	80

SYMBOL LIST

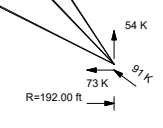
MARK	SIZE	MARK	SIZE
A	2 @ 2.35417		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

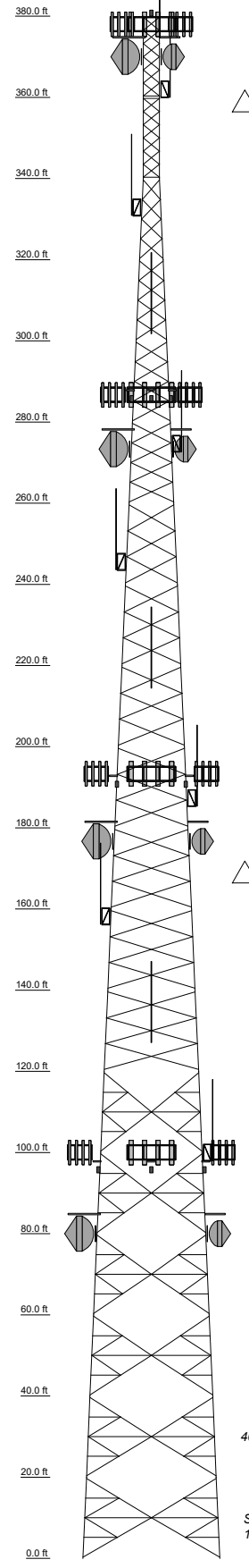
1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower is designed for integral climbing ladder.
9. Tower is designed for integral feedline tab(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. ** Preliminary Design - Not For Construction **
16. TOWER RATING: 95.7%



ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-240GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21	App'd: Scale: NTS Dwg No: E-1
--	---	---	---	---

Section	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	L1
Legs	SR 5 I/2	SR 5 I/4	SR 5	SR 5 I/4	SR 5 I/2	SR 4 I/2	SR 4 I/4	SR 4	SR 3 I/4	SR 3 I/4	SR 3 I/4	SR 3	SR 3 I/4	SR 3 I/4	SR 2 I/4	SR 2 I/4	SR 1 I/4	SR 1 I/4
Leg Grade	2L3-12x3-1/2x14x1/2	2L3-3x3-1/4x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2
Diagonals	2L3-12x3-1/2x14x1/2	2L3-3x3-1/4x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2
Diagonal Grade	2L3-12x3-1/2x14x1/2	2L3-3x3-1/4x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2	2L3-3x3-1/8x1/2
Top Girts																		
Bottom Girts																		
Horizontals	2L3-3x1/4x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2	2L3-3x3-1/6x1/2
Reel Horizontals	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2	2L2-2x3/16x1/2
Reel Diagonals	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2
Inner Bracing	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2	2L3-3x3/16x1/2
Face Width (ft)	33.75	32	30.25	28.5	26.75	25	23.25	21.5	19.75	18	16.25	14.5	12.75	11	9.25	7.5	5.75	4
# Panels @ (ft)	102.4	110	107	102	97	93	87	80	73	67	60	52	40	33	25	17	10	4
Weight (K)																		



ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 905 K
SHEAR: 83 K

UPLIFT: -745 K
SHEAR: 71 K

AXIAL 321 K
SHEAR 24 K
MOMENT 4589 kip-ft

TORQUE 11 kip-ft
40 mph WIND - 1.0000 in ICE

AXIAL 169 K
SHEAR 136 K
MOMENT 24792 kip-ft

TORQUE 70 kip-ft
REACTIONS - 120 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	380	3' Sidearm(s)	216.44
L-Lighting Beacon	380	(3) 12' Gate Mount(s)	193.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	380	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	380	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	380	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	193.33
(3) 12' Gate Mount(s)	380	2x2' Ice Shield / Rest Platform	193
Ice Shield For 06' Dish	375	2x2' Ice Shield / Rest Platform	193
Ice Shield For 08' Dish	375	L-Lighting Beacon	190
Leg Mounted 6' Dish Mount Assembly	370	L-Lighting Beacon	190
Leg Mounted 8' Dish Mount Assembly	370	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	187.33
6' Std. Dish w/Radome (EW63)	370	3' Sidearm(s)	187.33
8' Std. Dish w/Radome (EW63)	370	Ice Shield For 06' Dish	181.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	362	Ice Shield For 06' Dish	181.67
3' Sidearm(s)	362	Leg Mounted 6' Dish Mount Assembly	176.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	332.89	Leg Mounted 8' Dish Mount Assembly	176.67
3' Sidearm(s)	332.89	6' Std. Dish w/Radome (EW63)	176.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	303.78	8' Std. Dish w/Radome (EW63)	176.67
3' Sidearm(s)	303.78	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	158.22
2x2' Ice Shield / Rest Platform	288	3' Sidearm(s)	158.22
2x2' Ice Shield / Rest Platform	288	3' Sidearm(s)	129.11
2x2' Ice Shield / Rest Platform	288	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	129.11
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	286.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	286.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	286.67	(3) 12' Gate Mount(s)	100
(3) 12' Gate Mount(s)	286.67	3' Sidearm(s)	100
L-Side Light / Obstruction Light	285	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
L-Side Light / Obstruction Light	285	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
L-Side Light / Obstruction Light	285	2x2' Ice Shield / Rest Platform	98
Ice Shield For 06' Dish	278.33	2x2' Ice Shield / Rest Platform	98
Ice Shield For 08' Dish	278.33	2x2' Ice Shield / Rest Platform	98
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	274.67	L-Side Light / Obstruction Light	95
3' Sidearm(s)	274.67	L-Side Light / Obstruction Light	95
Leg Mounted 6' Dish Mount Assembly	273.33	L-Side Light / Obstruction Light	95
Leg Mounted 8' Dish Mount Assembly	273.33	Ice Shield For 06' Dish	85
6' Std. Dish w/Radome (EW63)	273.33	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	273.33	Leg Mounted 6' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	245.56	Leg Mounted 8' Dish Mount Assembly	80
3' Sidearm(s)	245.56	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	216.44	8' Std. Dish w/Radome (EW63)	80

MATERIAL STRENGTH

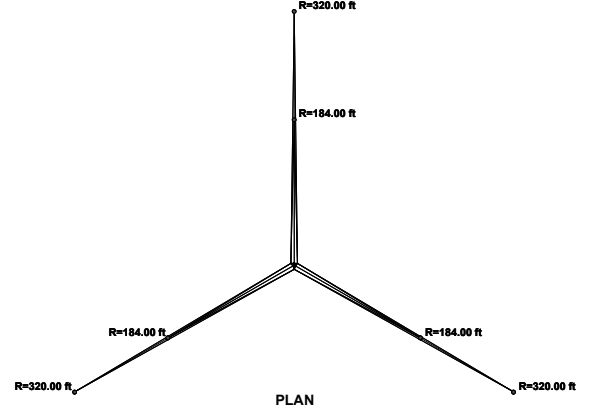
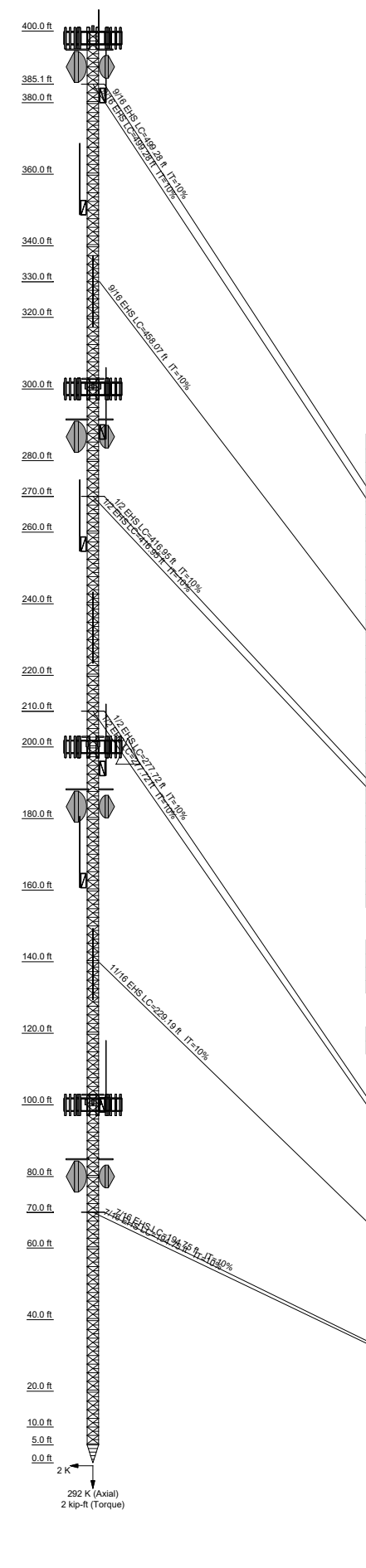
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 96.7%

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-380SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21	App'd: Scale: NTS Dwg No. E-1
--	---	--	---	-------------------------------------

Section	T21	T20	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 2 1/4																				
Leg Grade	SR 3/4																				
Diagonals	SR 3/4																				
Diagonal Grade	SR 3/4																				
Top Girts	SR 3/4																				
Mid Girts	SR 3/4																				
Bottom Girts	SR 3/4																				
Horizontal	SR 3/4																				
Sec. Horizontals	SR 3/4																				
Top Guy Pull-Offs	SR 1																				
Face Width (ft)	N.A.																				
# Panels @ (ft)	156 @ 2.42708																				
Weight (K)	23.8	0.5	0.3	0.7	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.8	0.8	0.8	0.8	1.4



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	400	3' Sidearm(s)	225.33
L-Lighting Beacon	400	2'x2' Ice Shield / Rest Platform	203
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	400	2'x2' Ice Shield / Rest Platform	203
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	400	L-Lighting Beacon	200
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	400	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	200
(3) 12' Gate Mount(s)	400	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	200
Ice Shield For 06' Dish	395	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	200
Ice Shield For 08' Dish	395	(3) 12' Gate Mount(s)	200
6' Std. Dish w/Radome (EW63)	390	L-Lighting Beacon	200
8' Std. Dish w/Radome (EW63)	390	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	194
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	382	3' Sidearm(s)	194
3' Sidearm(s)	382	Ice Shield For 06' Dish	188.33
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	350.67	Ice Shield For 08' Dish	188.33
3' Sidearm(s)	350.67	6' Std. Dish w/Radome (EW63)	183.33
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	319.33	8' Std. Dish w/Radome (EW63)	183.33
3' Sidearm(s)	319.33	3' Sidearm(s)	162.67
2'x2' Ice Shield / Rest Platform	303	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	162.67
2'x2' Ice Shield / Rest Platform	303	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	131.33
2'x2' Ice Shield / Rest Platform	303	3' Sidearm(s)	131.33
L-Side Light / Obstruction Light	300	2'x2' Ice Shield / Rest Platform	103
L-Side Light / Obstruction Light	300	2'x2' Ice Shield / Rest Platform	103
L-Side Light / Obstruction Light	300	2'x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	300	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	300	(3) 12' Gate Mount(s)	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	300	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
(3) 12' Gate Mount(s)	300	L-Side Light / Obstruction Light	100
Ice Shield For 06' Dish	291.67	L-Side Light / Obstruction Light	100
Ice Shield For 08' Dish	291.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	288	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
3' Sidearm(s)	288	3' Sidearm(s)	100
6' Std. Dish w/Radome (EW63)	286.67	L-Side Light / Obstruction Light	100
8' Std. Dish w/Radome (EW63)	286.67	Ice Shield For 06' Dish	85
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	256.67	Ice Shield For 08' Dish	85
3' Sidearm(s)	256.67	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	225.33	8' Std. Dish w/Radome (EW63)	80

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	N.A.	D	C5x9
B	4x3/4	E	2 @ 2.35417
C	SR 3/4	F	5 @ 1

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower is designed for integral climbing ladder.
9. Tower is designed for integral feedline tab(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. 105mph 3 second gust is equivalent to 90mph fastest mile wind speed.
16. ** Preliminary Design - Not For Construction **

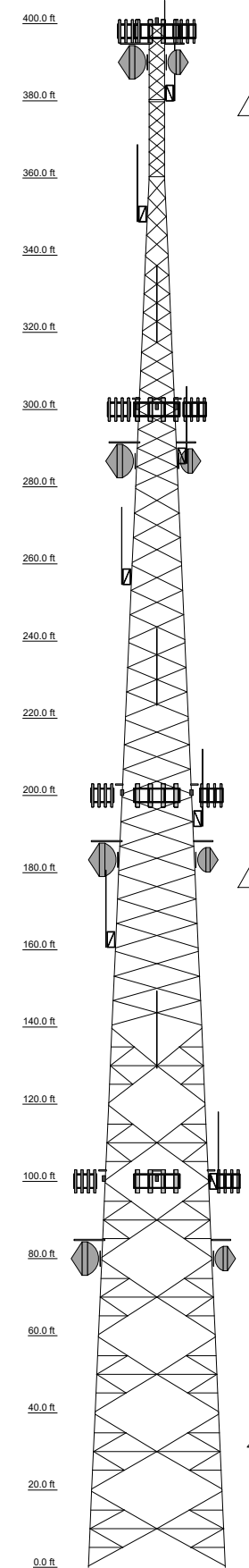


ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-400GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/12/21	App'd: Scale: NTS Dwg No: E-1
--	---	---	---	---

Section	L1	L2	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18	T19	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	T31	T32	T33	T34	T35	T36	T37	T38	T39	T40	T41	T42	T43	T44	T45	T46	T47	T48	T49	T50	T51	T52	T53	T54	T55	T56	T57	T58	T59	T60	T61	T62	T63	T64	T65	T66	T67	T68	T69	T70	T71	T72	T73	T74	T75	T76	T77	T78	T79	T80	T81	T82	T83	T84	T85	T86	T87	T88	T89	T90	T91	T92	T93	T94	T95	T96	T97	T98	T99	T100	T101	T102	T103	T104	T105	T106	T107	T108	T109	T110	T111	T112	T113	T114	T115	T116	T117	T118	T119	T120	T121	T122	T123	T124	T125	T126	T127	T128	T129	T130	T131	T132	T133	T134	T135	T136	T137	T138	T139	T140	T141	T142	T143	T144	T145	T146	T147	T148	T149	T150	T151	T152	T153	T154	T155	T156	T157	T158	T159	T160	T161	T162	T163	T164	T165	T166	T167	T168	T169	T170	T171	T172	T173	T174	T175	T176	T177	T178	T179	T180	T181	T182	T183	T184	T185	T186	T187	T188	T189	T190	T191	T192	T193	T194	T195	T196	T197	T198	T199	T200	T201	T202	T203	T204	T205	T206	T207	T208	T209	T210	T211	T212	T213	T214	T215	T216	T217	T218	T219	T220	T221	T222	T223	T224	T225	T226	T227	T228	T229	T230	T231	T232	T233	T234	T235	T236	T237	T238	T239	T240	T241	T242	T243	T244	T245	T246	T247	T248	T249	T250	T251	T252	T253	T254	T255	T256	T257	T258	T259	T260	T261	T262	T263	T264	T265	T266	T267	T268	T269	T270	T271	T272	T273	T274	T275	T276	T277	T278	T279	T280	T281	T282	T283	T284	T285	T286	T287	T288	T289	T290	T291	T292	T293	T294	T295	T296	T297	T298	T299	T300	T301	T302	T303	T304	T305	T306	T307	T308	T309	T310	T311	T312	T313	T314	T315	T316	T317	T318	T319	T320	T321	T322	T323	T324	T325	T326	T327	T328	T329	T330	T331	T332	T333	T334	T335	T336	T337	T338	T339	T340	T341	T342	T343	T344	T345	T346	T347	T348	T349	T350	T351	T352	T353	T354	T355	T356	T357	T358	T359	T360	T361	T362	T363	T364	T365	T366	T367	T368	T369	T370	T371	T372	T373	T374	T375	T376	T377	T378	T379	T380	T381	T382	T383	T384	T385	T386	T387	T388	T389	T390	T391	T392	T393	T394	T395	T396	T397	T398	T399	T400	T401	T402	T403	T404	T405	T406	T407	T408	T409	T410	T411	T412	T413	T414	T415	T416	T417	T418	T419	T420	T421	T422	T423	T424	T425	T426	T427	T428	T429	T430	T431	T432	T433	T434	T435	T436	T437	T438	T439	T440	T441	T442	T443	T444	T445	T446	T447	T448	T449	T450	T451	T452	T453	T454	T455	T456	T457	T458	T459	T460	T461	T462	T463	T464	T465	T466	T467	T468	T469	T470	T471	T472	T473	T474	T475	T476	T477	T478	T479	T480	T481	T482	T483	T484	T485	T486	T487	T488	T489	T490	T491	T492	T493	T494	T495	T496	T497	T498	T499	T500	T501	T502	T503	T504	T505	T506	T507	T508	T509	T510	T511	T512	T513	T514	T515	T516	T517	T518	T519	T520	T521	T522	T523	T524	T525	T526	T527	T528	T529	T530	T531	T532	T533	T534	T535	T536	T537	T538	T539	T540	T541	T542	T543	T544	T545	T546	T547	T548	T549	T550	T551	T552	T553	T554	T555	T556	T557	T558	T559	T560	T561	T562	T563	T564	T565	T566	T567	T568	T569	T570	T571	T572	T573	T574	T575	T576	T577	T578	T579	T580	T581	T582	T583	T584	T585	T586	T587	T588	T589	T590	T591	T592	T593	T594	T595	T596	T597	T598	T599	T600	T601	T602	T603	T604	T605	T606	T607	T608	T609	T610	T611	T612	T613	T614	T615	T616	T617	T618	T619	T620	T621	T622	T623	T624	T625	T626	T627	T628	T629	T630	T631	T632	T633	T634	T635	T636	T637	T638	T639	T640	T641	T642	T643	T644	T645	T646	T647	T648	T649	T650	T651	T652	T653	T654	T655	T656	T657	T658	T659	T660	T661	T662	T663	T664	T665	T666	T667	T668	T669	T670	T671	T672	T673	T674	T675	T676	T677	T678	T679	T680	T681	T682	T683	T684	T685	T686	T687	T688	T689	T690	T691	T692	T693	T694	T695	T696	T697	T698	T699	T700	T701	T702	T703	T704	T705	T706	T707	T708	T709	T710	T711	T712	T713	T714	T715	T716	T717	T718	T719	T720	T721	T722	T723	T724	T725	T726	T727	T728	T729	T730	T731	T732	T733	T734	T735	T736	T737	T738	T739	T740	T741	T742	T743	T744	T745	T746	T747	T748	T749	T750	T751	T752	T753	T754	T755	T756	T757	T758	T759	T760	T761	T762	T763	T764	T765	T766	T767	T768	T769	T770	T771	T772	T773	T774	T775	T776	T777	T778	T779	T780	T781	T782	T783	T784	T785	T786	T787	T788	T789	T790	T791	T792	T793	T794	T795	T796	T797	T798	T799	T800	T801	T802	T803	T804	T805	T806	T807	T808	T809	T810	T811	T812	T813	T814	T815	T816	T817	T818	T819	T820	T821	T822	T823	T824	T825	T826	T827	T828	T829	T830	T831	T832	T833	T834	T835	T836	T837	T838	T839	T840	T841	T842	T843	T844	T845	T846	T847	T848	T849	T850	T851	T852	T853	T854	T855	T856	T857	T858	T859	T860	T861	T862	T863	T864	T865	T866	T867	T868	T869	T870	T871	T872	T873	T874	T875	T876	T877	T878	T879	T880	T881	T882	T883	T884	T885	T886	T887	T888	T889	T890	T891	T892	T893	T894	T895	T896	T897	T898	T899	T900	T901	T902	T903	T904	T905	T906	T907	T908	T909	T910	T911	T912	T913	T914	T915	T916	T917	T918	T919	T920	T921	T922	T923	T924	T925	T926	T927	T928	T929	T930	T931	T932	T933	T934	T935	T936	T937	T938	T939	T940	T941	T942	T943	T944	T945	T946	T947	T948	T949	T950	T951	T952	T953	T954	T955	T956	T957	T958	T959	T960	T961	T962	T963	T964	T965	T966	T967	T968	T969	T970	T971	T972	T973	T974	T975	T976	T977	T978	T979	T980	T981	T982	T983	T984	T985	T986	T987	T988	T989	T990	T991	T992	T993	T994	T995	T996	T997	T998	T999	T1000	T1001	T1002	T1003	T1004	T1005	T1006	T1007	T1008	T1009	T1010	T1011	T1012	T1013	T1014	T1015	T1016	T1017	T1018	T1019	T1020	T1021	T1022	T1023	T1024	T1025	T1026	T1027	T1028	T1029	T1030	T1031	T1032	T1033	T1034	T1035	T1036	T1037	T1038	T1039	T1040	T1041	T1042	T1043	T1044	T1045	T1046	T1047	T1048	T1049	T1050	T1051	T1052	T1053	T1054	T1055	T1056	T1057	T1058	T1059	T1060	T1061	T1062	T1063	T1064	T1065	T1066	T1067	T1068	T1069	T1070	T1071	T1072	T1073	T1074	T1075	T1076	T1077	T1078	T1079	T1080	T1081	T1082	T1083	T1084	T1085	T1086	T1087	T1088	T1089	T1090	T1091	T1092	T1093	T1094	T1095	T1096	T1097	T1098	T1099	T1100	T1101	T1102	T1103	T1104	T1105	T1106	T1107	T1108	T1109	T1110	T1111	T1112	T1113	T1114	T1115	T1116	T1117	T1118	T1119	T1120	T1121	T1122	T1123	T1124	T1125	T1126	T1127	T1128	T1129	T1130	T1131	T1132	T1133	T1134	T1135	T1136	T1137	T1138	T1139	T1140	T1141	T1142	T1143	T1144	T1145	T1146	T1147	T1148	T1149	T1150	T1151	T1152	T1153	T1154	T1155	T1156	T1157	T1158	T1159	T1160	T1161	T1162	T1163	T1164	T1165	T1166	T1167	T1168	T1169	T1170	T1171	T1172	T1173	T1174	T1175	T1176	T1177	T1178	T1179	T1180	T1181	T1182	T1183	T1184	T1185	T1186	T1187	T1188	T1189	T1190	T1191	T1192	T1193	T1194	T1195	T1196	T1197	T1198	T1199	T1200	T1201	T1202	T1203	T1204	T1205	T1206	T1207	T1208	T1209	T1210	T1211	T1212	T1213	T1214	T1215	T1216	T1217	T1218	T1219	T1220	T1221	T1222	T1223	T1224	T1225	T1226	T1227	T1228	T1229	T1230	T1231	T1232	T1233	T1234	T1235	T1236	T1237	T1238	T1239	T1240	T1241	T1242	T1243	T1244	T1245	T1246	T1247	T1248	T1249	T1250	T1251	T1252	T1253	T1254	T1255	T1256	T1257	T1258	T1259	T1260	T1261	T1262	T1263	T1264	T1265	T1266	T1267	T1268	T1269	T1270	T1271	T1272	T1273	T1274	T1275	T1276	T1277	T1278	T1279	T1280	T1281	T1282	T1283	T1284	T1285	T1286	T1287	T1288	T1289	T1290	T1291	T1292	T1293	T1294	T1295	T1296	T1297	T1298	T1299	T1300	T1301	T1302	T1303	T1304	T1305	T1306	T1307	T1308	T1309	T1310	T1311	T1312	T1313	T1314	T1315	T1316	T1317	T1318	T1319	T1320	T1321	T1322	T1323	T1324	T1325	T1326	T1327	T1328	T1329	T1330	T1331	T1332	T1333	T1334	T1335	T1336	T1337	T1338	T1339	T1340	T1341	T1342	T1343	T1344	T1345	T1346	T1347	T1348	T1349	T1350	T1351	T1352	T1353	T1354	T1355	T1356	T1357	T1358	T1359	T1360	T1361	T1362	T1363	T1364	T1365	T1366	T1367	T1368	T1369	T1370	T1371	T1372	T1373	T1374	T1375	T1376	T1377	T1378	T1379	T1380	T1381	T1382	T1383	T1384	T1385	T1386	T1387	T1388	T1389	T1390	T1391	T1392	T1393	T1394	T1395	T1396	T1397	T1398	T1399	T1400	T1401	T1402	T1403	T1404	T1405	T1406	T1407	T1408	T1409	T1410	T1411	T1412	T1413	T1414	T1415	T1416	T1417	T1418	T1419	T1420	T1421	T1422	T1423	T1424	T1425	T1426	T1427	T1428	T1429	T1430	T1431	T1432	T1433	T1434	T1435	T1436	T1437	T1438	T1439	T1440	T1441	T1442	T1443	T1444	T1445	T1446	T1447	T1448	T1449	T1450	T1451	T1452	T1453	T1454	T1455	T1456	T1457	T1458	T1459	T1460	T1461	T1462	T1463	T1464	T1465	T1466	T1467	T1468	T1469	T1470	T1471	T1472	T1473	T1474	T1475	T1476	T1477	T1478	T1479	T1480	T1481	T1482	T1483	T1484	T1485	T1486	T1487	T1488	T1489	T1490	T1491	T1492	T1493
---------	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Section	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1	L1
Legs	SR 5 3/4	SR 5 1/2	SR 5 1/4	SR 5 1/2	SR 5 1/4	SR 4 1/4	SR 4 1/2	SR 4 1/4	SR 4 1/4	SR 3 3/4	SR 3 3/4	SR 3 1/4	SR 3 1/4	SR 3 1/4	SR 3 1/4	SR 2 1/4	SR 2 1/4	SR 1 3/4	SR 1 3/4
Leg Grade	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Diagonals	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Diagonal Grade	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Top Girts	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Bottom Girts	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Horizontals	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Red. Horizontals	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Red. Diagonals	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Inner Bracing	2L3x3x1/4x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2	2L3x3x1/6x1/2
Face Width (ft)	33.75	30.25	28.5	28.5	28.5	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75	26.75
# Panels @ (ft)	11.5	10.7	9.3	9.3	9.3	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Weight (K)	114.8	107	93	93	93	80	80	80	80	80	80	80	80	80	80	80	80	80	80



ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 960 K
SHEAR: 90 K

UPLIFT: -786 K
SHEAR: 76 K

AXIAL 349 K
SHEAR 25 K
MOMENT 5103 kip-ft

TORQUE 12 kip-ft
40 mph WIND - 1.0000 in ICE

AXIAL 185 K
SHEAR 145 K
MOMENT 27613 kip-ft

TORQUE 77 kip-ft
REACTIONS - 120 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	400	3' Sidearm(s)	225.33
L-Lighting Beacon	400	2x2' Ice Shield / Rest Platform	203
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	400	2x2' Ice Shield / Rest Platform	203
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	400	L-Lighting Beacon	200
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	400	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	200
(3) 12' Gate Mount(s)	400	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	200
Ice Shield For 06' Dish	395	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	200
Ice Shield For 08' Dish	395	(3) 12' Gate Mount(s)	200
Leg Mounted 6' Dish Mount Assembly	390	L-Lighting Beacon	200
Leg Mounted 8' Dish Mount Assembly	390	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	194
6' Std. Dish w/Radome (EW63)	390	3' Sidearm(s)	188.33
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	382	Ice Shield For 06' Dish	188.33
3' Sidearm(s)	382	Leg Mounted 6' Dish Mount Assembly	183.33
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	350.67	Leg Mounted 8' Dish Mount Assembly	183.33
3' Sidearm(s)	350.67	6' Std. Dish w/Radome (EW63)	183.33
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	319.33	8' Std. Dish w/Radome (EW63)	183.33
3' Sidearm(s)	319.33	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	162.67
2x2' Ice Shield / Rest Platform	303	3' Sidearm(s)	162.67
2x2' Ice Shield / Rest Platform	303	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	131.33
2x2' Ice Shield / Rest Platform	303	3' Sidearm(s)	131.33
L-Side Light / Obstruction Light	300	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	300	2x2' Ice Shield / Rest Platform	103
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	300	L-Side Light / Obstruction Light	100
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	300	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
(3) 12' Gate Mount(s)	300	(3) 12' Gate Mount(s)	100
L-Side Light / Obstruction Light	300	3' Sidearm(s)	100
Ice Shield For 06' Dish	291.67	L-Side Light / Obstruction Light	100
Ice Shield For 08' Dish	291.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	288	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
3' Sidearm(s)	288	L-Side Light / Obstruction Light	100
Leg Mounted 6' Dish Mount Assembly	286.67	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
Leg Mounted 8' Dish Mount Assembly	286.67	Ice Shield For 06' Dish	85
6' Std. Dish w/Radome (EW63)	286.67	Ice Shield For 08' Dish	85
8' Std. Dish w/Radome (EW63)	286.67	Leg Mounted 6' Dish Mount Assembly	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	256.67	Leg Mounted 8' Dish Mount Assembly	80
3' Sidearm(s)	256.67	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	225.33	8' Std. Dish w/Radome (EW63)	80

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L1 3/4x1 3/4x3/16	B	2L2 1/2x2 1/2x3/16x1/2

MATERIAL STRENGTH

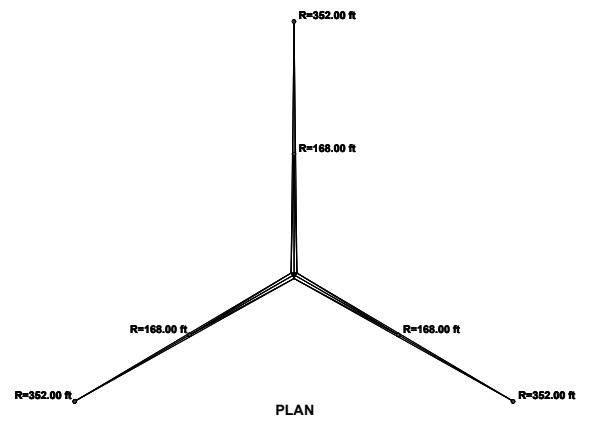
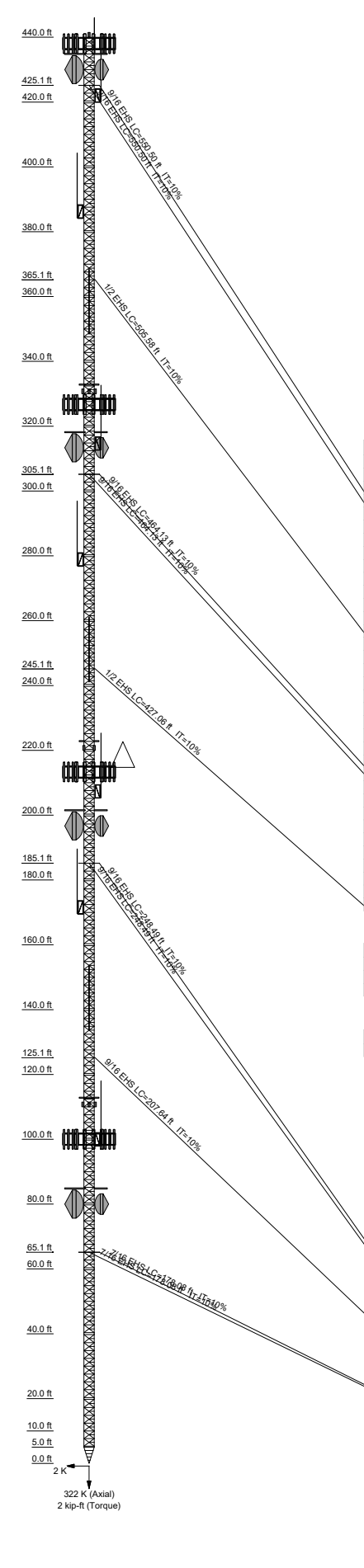
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower designed for step bolts up all three legs.
9. Tower designed for feedlines to be supported with waveguide ladder(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. TOWER RATING: 96.7%

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-400SS : 2021 Matrix Project: As Req'd Client: State of WV. Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/13/21	App'd: Scale: NTS Dwg No: E-1
--	---	--	---	-------------------------------------

Section	T24	T23	T22	T21	T20	T19	T18	T17	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 1 1/2																							
Leg Grade	SR 3/4																							
Diagonals	SR 7/8																							
Diagonal Grade	SR 3/4																							
Top Girts	SR 3/4																							
Mid Girts	SR 3/4																							
Bottom Girts	SR 3/4																							
Horizontals	SR 3/4																							
Sec. Horizontals	SR 5/8																							
Top Guy Pull-Offs	SR 1																							
Face Width (ft)	N.A.																							
# Panels @ (ft)	172 @ 2.42708																							
Weight (K)	25.7	0.6	0.3	0.7	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.4



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
6' Lightning Rod	440	3' Sidearm(s)	243.11
L-Lighting Beacon	440	2'x2' Ice Shield / Rest Platform	223
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	440	2'x2' Ice Shield / Rest Platform	223
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	440	L-Lighting Beacon	220
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	440	L-Lighting Beacon	220
(3) 12' Gate Mount(s)	440	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	213.33
Ice Shield For 06' Dish	435	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	213.33
Ice Shield For 08' Dish	435	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	213.33
6' Std. Dish w/Radome (EW63)	430	(3) 12' Gate Mount(s)	213.33
8' Std. Dish w/Radome (EW63)	430	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	207.33
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	422	3' Sidearm(s)	207.33
3' Sidearm(s)	422	Ice Shield For 06' Dish	201.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	386.22	Ice Shield For 08' Dish	201.67
3' Sidearm(s)	386.22	6' Std. Dish w/Radome (EW63)	196.67
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	350.44	8' Std. Dish w/Radome (EW63)	196.67
3' Sidearm(s)	350.44	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	171.56
2'x2' Ice Shield / Rest Platform	333	3' Sidearm(s)	171.56
2'x2' Ice Shield / Rest Platform	333	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	135.78
2'x2' Ice Shield / Rest Platform	333	3' Sidearm(s)	135.78
L-Side Light / Obstruction Light	330	2'x2' Ice Shield / Rest Platform	113
L-Side Light / Obstruction Light	330	2'x2' Ice Shield / Rest Platform	113
L-Side Light / Obstruction Light	330	2'x2' Ice Shield / Rest Platform	113
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	326.67	L-Side Light / Obstruction Light	110
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	326.67	L-Side Light / Obstruction Light	110
(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	326.67	L-Side Light / Obstruction Light	110
(3) 12' Gate Mount(s)	326.67	(3) 12' Gate Mount(s)	100
Ice Shield For 06' Dish	318.33	3' Sidearm(s)	100
Ice Shield For 08' Dish	318.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	314.67	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
3' Sidearm(s)	314.67	18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	100
6' Std. Dish w/Radome (EW63)	313.33	(4) 4' x 1' Typ. Flat Panel Antenna(s) (1-5/8" Heliax)	100
8' Std. Dish w/Radome (EW63)	313.33	Ice Shield For 06' Dish	85
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	278.89	Ice Shield For 06' Dish	85
3' Sidearm(s)	278.89	6' Std. Dish w/Radome (EW63)	80
18' Typ. Omni/Whip Antenna(s) (1-1/4" Heliax)	243.11	8' Std. Dish w/Radome (EW63)	80

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	N.A.	D	C5x9
B	4x3/4	E	2 @ 2.35417
C	SR 3/4	F	5 @ 1

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 120.00 mph basic wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40.00 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60.00 mph wind.
5. Tower Risk Category III.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Conservative ground elevation of 500' assumed.
8. Tower is designed for integral climbing ladder.
9. Tower is designed for integral feedline tab(s).
10. All bolted legs and/or weld together tower sections have flange connections.
11. Structural connections use galvanized A325 bolts and/or equivalent with nuts and/or nut locking devices. Installation per TIA/EIA-222 and AISC Specifications.
12. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
13. All structural steel welding will be in compliance with AWS D1.1 latest revision and fabricated with ER-70S-6 electrodes.
14. Structure is designed to arrange feedlines based on using stackable hangers currently available in the communications industry unless specified otherwise by customer. See plan view of sheet E-7 for feedline arrangement used for the design of this structure.
15. 105mph 3 second gust is equivalent to 90mph fastest mile wind speed.
16. ** Preliminary Design - Not For Construction **



ALL REACTIONS ARE FACTORED

	Allstate Tower Inc. P.O. Box 25 Henderson, KY. 42419 Phone: (270) 830 - 8512 FAX: (270) 228 - 4551	Job: WV-440GT : 2021 Matrix Project: As Req'd Client: State of WV Code: TIA-222-H Path:	Drawn by: Allstate Tower Inc. Date: 05/12/21	App'd: Scale: NTS Dwg No: E-1
--	---	---	---	---

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Allstate Tower Inc.

Authorized Signature: Matt Burchell Date: 5.18.21

State of Ky

County of Henderson, to-wit:

Taken, subscribed, and sworn to before me this 18 day of May, 2021.

My Commission expires 10-2-22, 20 .



NOTARY PUBLIC [Signature]

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Allstate Tower Inc.

Authorized Signature: Matt Burchell Date: 5.18.21

State of Ky

County of Henderson, to-wit:

Taken, subscribed, and sworn to before me this 18 day of May, 2021.

My Commission expires 10-2-22, 20 .



NOTARY PUBLIC Breighton Hallmark

CRFQ HSE21*09 - EXHIBIT A
Pricing Page - WV EMD

3.1.42	Tower light controller kit for tower lights. Tower lights must be capable of providing telemetry.	3		
GRAND TOTAL				

Estimated Annual Quantities are for bid evaluation purposes only. Actual quantities ordered may be more or less.

Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost.

VENDOR SECTION:

Vendor Name:	Allstate Tower Inc.
Physical Address:	232 Heilman Ave Henderson, KY 42420
Remit to Address:	Po Box 25 Henderson, KY 42419
Telephone:	270-830-8512
Fax:	270-830-8475
Email:	mbarnhill@pttg.com
Vendor Representative (print name):	Matt Barnhill
Signature:	Matt Barnhill

In the event of significant delay or price increase of material, equipment, or energy occurring during the performance of the contract through no fault of the contractor, the contract sum, time of completion, type of material used, or contract requirements shall be equitably adjusted by change order in accordance with the procedures of the contract documents. A change in price of an item or material, equipment, or energy will be considered significant when the price of an item fluctuates 10 percent between the date of this contract and the date of completion.