EM-CING-069-130123

:less

500 Enterprise Drive
Rocky Hill, Connecticut 06067

John Lawrence
Real Estate Consultant
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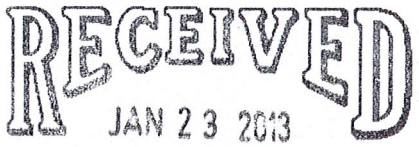
ORIGINAL



CONNECTICUT SITING COUNCIL

January 16, 2013

Honorable Robert Stein, Chairman,
and Members of the Connecticut Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification – Existing Telecommunications Facility at 1375 North Road, Dayville CT 06241

Dear Chairman Stein and Members of the Council:

New Cingular Wireless PCS, LLC ("AT&T") intends to modify the existing telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 1375 North Road, Dayville. AT&T operates under licenses issued by the Federal Communications Commission ("FCC") to provide cellular and PCS mobile telephone service in Windham County, which includes the area to be served by AT&T's proposed installation.

In order to accommodate technological changes, implement Long Term Evolution ("LTE") capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

Please accept this letter as notification to the Council, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to Bruce E. Benway, Town Manager

.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the

structural sufficiency of the tower to accommodate the revised antenna configuration.

Existing Facility

The subject facility is located at 1375 North Road, Dayville CT

The facility is owned by American Tower.

The existing facility consists of a 322 foot lattic tower with an existing chain link fence around the tower compound fenced in compound. AT&T currently operates wireless communications equipment at the facility and has six (6) antennas mounted at the tower centerline height of 254'.

Statutory Considerations

The changes to the Dayville tower facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2) because they will not result in any substantial adverse environmental effect.

1. The height of the overall structure will be unaffected.

2. The proposed changes will not affect the property boundaries. All new construction will take place inside the existing fenced compound.

3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.

4. LTE will utilize additional radio frequencies newly licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A Section §16-50j-72(b)(2).

Respectfully yours,

John Lawrence
Real Estate Consultant
Enclosures:
Bruce E. Benway, Town Manager, Town of Killingly

New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067

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Real Estate Consultant
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Phone: (781) 715-5532
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January 16, 2013

Bruce E. Benway, Town Manager
Town of Killingly
172 Main Street
Danielson, CT 06239

Re: Notice of Exempt Modification – Existing Telecommunications Facility at 1375 North Road, Dayville CT 06241

Dear Mr. Benway,

New Cingular Wireless PCS, LLC ("AT&T") intends to replace telecommunications antennas and associated equipment at an existing telecommunications tower, owned and operated by American Tower.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73. Please accept this letter as notification to the Town of Killingly under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The attached letter fully sets forth the AT&T proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council's procedures, please contact John Lawrence at (781) 715-5532 or Linda Roberts, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

John Lawrence
Real Estate Consultant

Enclosure
CC: Honorable Robert Stein, Chairmen of the Connecticut Siting Council

C Squared Systems, LLC
65 Dartmouth Drive, Unit A3
Auburn, NH 03032
(603) 644-2800
support@csquaredsystems.com

Calculated Radio Frequency Emissions

CT1289

(Killingly CT82 North Road)

1375 North Road, Dayville, CT 06241

January 14, 2013

Table of Contents

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed modifications to the existing AT&T antenna arrays mounted on the lattice tower located at 1375 North Road in Dayville, CT. The coordinates of the tower are 41° 52' 17.4" N, 71° 49' 17.5" W.

AT&T is proposing the following modifications:

1) Install three multi-band (700/850/1900/2100 MHz) antennas for their LTE network (one per sector).

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment B of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{1.6^2 \times EIRP}{4\pi \times R^2} \right) \text{x Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Ground reflection factor of 1.6

Off Beam Loss is determined by the selected antenna pattern

These calculations assume that the antennas are operating at 100 percent capacity and power, and that all channels are transmitting simultaneously. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the finished modifications.

4. Calculation Results

Table 1 below outlines the power density information for the site. Because the proposed AT&T antennas are directional in nature, the majority of the RF power is focused out towards the horizon. As a result, there will be less RF power directed below the antennas relative to the horizon, and consequently lower power density levels around the base of the tower. Please refer to Attachment C for the vertical patterns of the proposed AT&T antennas. The calculated results for AT&T in Table 1 include a nominal 10 dB off-beam pattern loss to account for the lower relative gain below the antennas.

Carrier	Antenna Height (Feet)	Operating Frequency (MHz)	Number of Trans.	ERP Per Transmitter (Watts)	Power Density (mw/cm^2)	Limit	%MPE
Cingular GSM	*254*	*880*	*2*	*296*	*0.0033*	*0.5867*	*0.56%*
Cingular UMTS	*254*	*880*	*1*	*500*	*0.0028*	*0.5867*	*0.47%*
Cingular UMTS	*254*	*1900*	*1*	*500*	*0.0028*	*1.0000*	*0.28%*
Verizon cellular	262	869	9	213	0.0100	0.5793	1.73%
Verizon PCS	262	1970	11	186	0.0107	1.0000	1.07%
Verizon AWS	262	2145	1	605	0.0032	1.0000	0.32%
Verizon LTE	262	698	1	715	0.0037	0.4653	0.80%
Sprint/Nextel iDEN	300	851	12	100	0.0048	0.5673	0.85%
Sprint/Nextel CDMA	300	1962	11	411	0.0181	1.0000	1.81%
AT&T UMTS	254	880	2	875	0.0010	0.5867	0.17%
AT&T UMTS	254	1900	2	1294	0.0014	1.0000	0.14%
AT&T LTE	254	734	1	1771	0.0010	0.4893	0.20%
AT&T GSM	254	880	1	438	0.0002	0.5867	0.04%
AT&T GSM	254	1900	4	777	0.0017	1.0000	0.17%
						Total	**7.31%**

Table 1: Carrier Information[1] [2] [3]

[1] The existing CSC filing for Cingular should be removed and replaced with the updated AT&T technologies and values provided in Table 1. The power density information for carriers other than AT&T was taken directly from the CSC database dated 7/26/2012. Please note that %MPE values listed are rounded to two decimal points. The total %MPE listed is a summation of each unrounded contribution. Therefore, summing each rounded value may not reflect the total value listed in the table.

[2] In the case where antenna models are not uniform across all 3 sectors for the same frequency band, the antenna model with the highest gain was used for the calculations to present a worse-case scenario.

[3] Antenna height listed for AT&T is in reference to the American Tower Corp. Structural Analysis dated November 13, 2012.

5. Conclusion

The above analysis verifies that emissions from the existing site will be below the maximum power density levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Even when using conservative methods, the cumulative power density from the proposed transmit antennas at the existing facility is well below the limits for the general public. The highest expected percent of Maximum Permissible Exposure at ground level is **7.31% of the FCC limit**.

As noted previously, obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the finished modifications.

6. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.

Daniel L. Goulet
C Squared Systems, LLC

January 14, 2013
Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz. IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave. IEEE-SA Standards Board

Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure[4]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $|E|^2$, $|H|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	($900/f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population/Uncontrolled Exposure[5]

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $|E|^2$, $|H|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

Table 2: FCC Limits for Maximum Permissible Exposure (MPE)

[4] Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

[5] General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

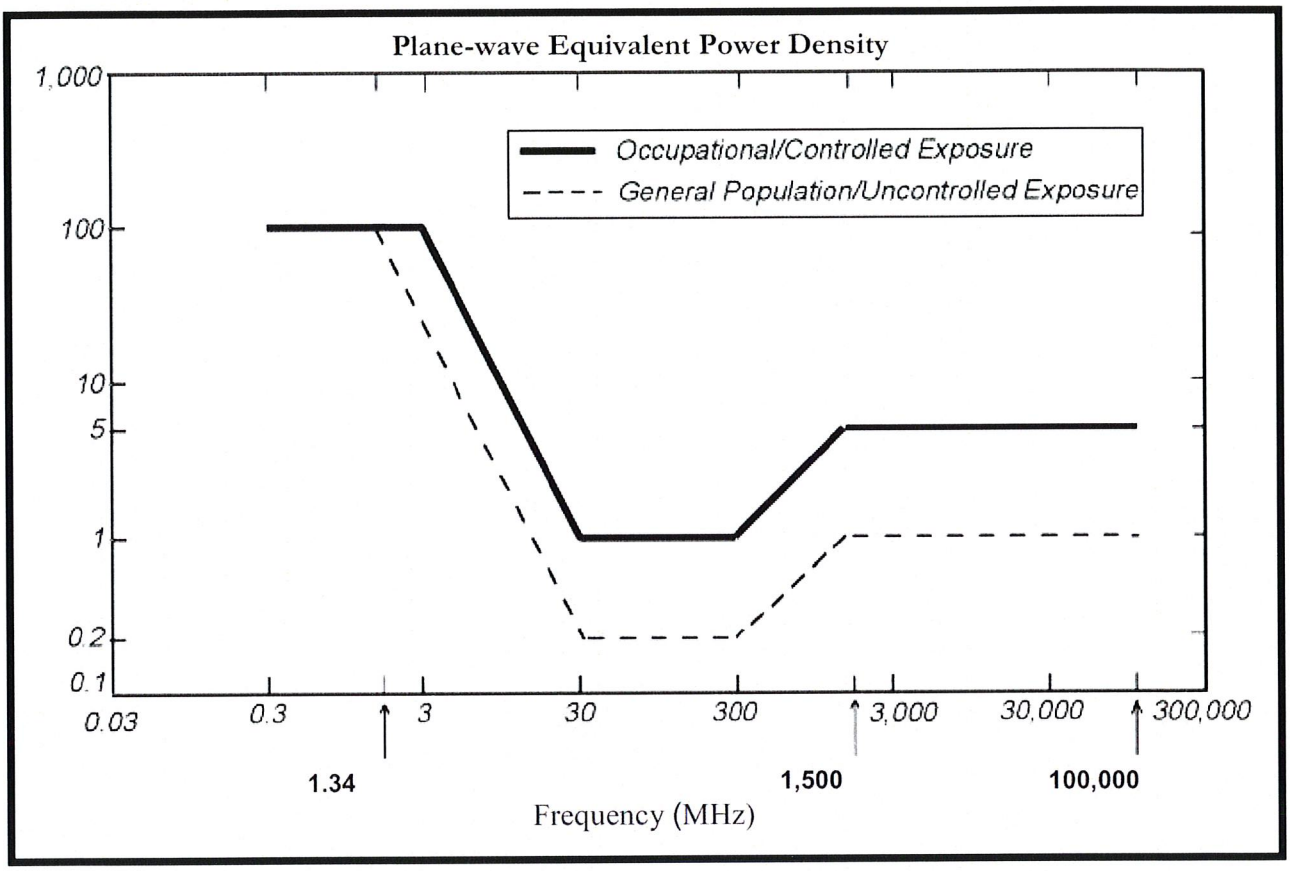
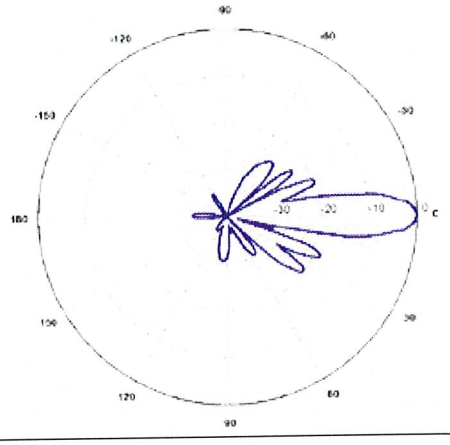


Figure 1: Graph of FCC Limits for Maximum Permissible Exposure (MPE)

Attachment C: AT&T Antenna Data Sheets and Electrical Patterns

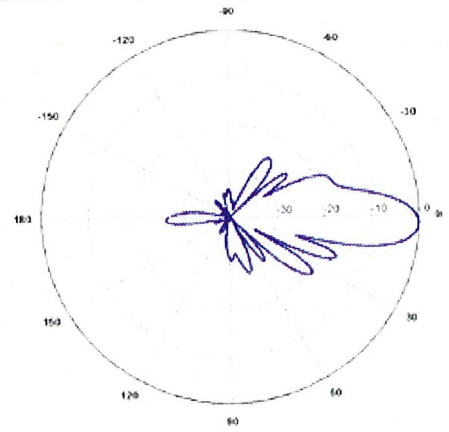
700 MHz

Manufacturer:	KMW Communications
Model #:	AM-X-CD-17-65-00T-RET
Frequency Band:	698-806 MHz
Gain:	14.7 dBd
Vertical Beamwidth:	10°
Horizontal Beamwidth:	66°
Polarization:	Dual Slant ± 45°
Size L x W x D:	96.0" x 11.8" x 6.0"



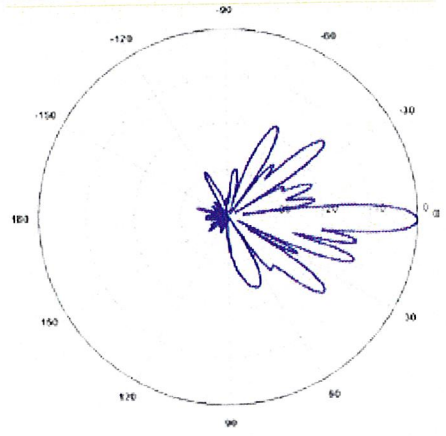
850 MHz

Manufacturer:	Powerwave
Model #:	P65-16-XLH-RR
Frequency Band:	806-894 MHz
Gain:	13.4 dBd
Vertical Beamwidth:	12.5°
Horizontal Beamwidth:	65°
Polarization:	Dual Linear ± 45°
Size L x W x D:	72.0" x 12.0" x 6.0"



1900 MHz

Manufacturer:	Powerwave
Model #:	P65-16-XLH-RR
Frequency Band:	1850-1990 MHz
Gain:	15.1 dBd
Vertical Beamwidth:	6.4°
Horizontal Beamwidth:	57°
Polarization:	Dual Linear ± 45°
Size L x W x D:	72.0" x 12.0" x 6.0"



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	287.5 ft Self Supported Tower
ATC Site Name	:	East Killingly North, CT
ATC Site Number	:	88011
Engineering Number	:	50580121
Proposed Carrier	:	AT&T Mobility
Carrier Site Name	:	Killingly CT82 North Road
Carrier Site Number	:	CT1289/10141309
Site Location	:	North Road Dayville, CT 06241-1404 41.871525,-71.821544
County	:	Windham
Date	:	November 13, 2012
Max Usage	:	100%
Result	:	Pass

Scott Wirgau
Senior Design Engineer

STATE OF CONNECTICUT
RAPHAEL I. MOHAMED
No. 25112
LICENSED
PROFESSIONAL ENGINEER

11/14/12

AMERICAN TOWER®
CORPORATION

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Scott Wirgau
Senior Design Engineer

STATE OF CONNECTICUT
RAPHAEL T. MOHAMED
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AMERICAN TOWER®
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Carrier Site Number	:	**CT1289/10141309**
Site Location	:	**North Road** **Dayville, CT 06241-1404** **41.871525,-71.821544**
County	:	**Windham**
Date	:	**November 13, 2012**
Max Usage	:	**100%**
Result	:	**Pass**

Scott Wirgau
Senior Design Engineer

AMERICAN TOWER®
CORPORATION

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Supporting Documents 1

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Conclusion 1

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Calculations ..... Attached

AMERICAN TOWER®
CORPORATION

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 287.5 ft self supported tower to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	AT&T Tag Tower, CSEI Analysis, ATC Eng. #26726321, dated September 13, 2006
Foundation Drawing	AT&T Tag Tower, CSEI Analysis, ATC Eng. #26726321, dated September 13, 2006
Modifications	ATC Eng. #45432633, dated July 9, 2010

Analysis

The tower was analyzed using Power Line Systems analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/EIA-222.

Basic Wind Speed:	85 mph (Fastest Mile)
Basic Wind Speed w/ Ice:	74 mph (Fastest Mile)w/ 1/2" radial ice concurrent
Code:	ANSI/TIA/EIA-222-F / 2003 IBC , Sec. 1609.1.1, Exception (4) & Sec. 3108.4 w/ 2005 CT Supplement & 2009 CT Amendment

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact me via email at scott.wirgau@americantower.com or call 919-466-5086.

Existing and Reserved Equipment

Mount Elev.[1] (ft)	Qty.	Antenna	Mount Type	Coax (in)	Carrier
287.5	3	72" x 12" Panel	Sector Frame	(3) 1 5/8"	Sprint Nextel
	6	14" x 9" TTA		(3) 1 5/8"	
	3	36" x 8" Panel		(3) 1 5/8"	
	9	Decibel DB846G90A-XY		(9) 1 5/8"	
	-	-	Platform	-	-
270.0	-	-	Catwalk	-	
262.0	3	Antel BXA-70063-6CF-EDIN-X	Sector Frame	(12) 1 5/8"	Verizon
	6	Antel LPA-80063-4CF-EDIN-X			
	3	Antel BXA-171063-8BF-EDIN-X			
	6	RFS FD9R6004/2C-3L			
254.0	9	77" x 14" Panel	Sector Frame	(12) 2 1/4"	AT&T Mobility
	6	14" x 9" TTA			
	2	KMW AM-X-CD-17-65-00T-RET			
237.5	-	-	Rest Platform	-	-
210.5	1	Decibel DB264	Side Arm	(1) 7/8"	US Treasury
200.0	-	-	Platform	-	-
187.5	-	-	Rest Platform	-	
137.5	-	-	Rest Platform	-	
87.5	-	-	Platform	-	
50.0	1	Andrew GPS-QBW-26N	Side Arm	(1) 1/2"	Verizon
37.5	-	-	Rest Platform	-	-

Proposed Equipment

Elevation[1](ft)		Qty.	Antenna	Mount Type	Coax (in)	Carrier
Mount	RAD					
254.0	254.0	1	Raycap DC2-48-60-0-9E	Sector Frame	(1) 3" Conduit (2) 0.78" Cable (1) 0.39" Fiber	AT&T Mobility
		6	Ericsson RRUS-11			
		1	Kathrein 800 10766			

[1]Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax on same tower face as existing coax.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	95%	Pass
Diagonals	100%	Pass
Horizontals	83%	Pass
Anchor Bolts	72%	Pass
Truss Diagonals	100%	Pass
Truss Horizontals	99%	Pass

Foundations

Reaction Component	Analysis Reactions
Uplift (Kips)	327.3
Axial (Kips)	423.1

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

AMERICAN TOWER®
CORPORATION

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

-- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

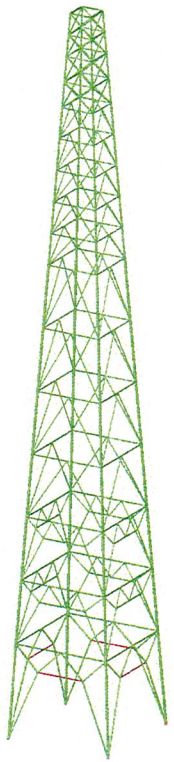
-- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

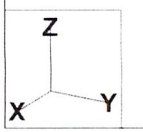
It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

American Tower Corp., Project: "88011-L2-AT&T Mobility-11_13_12"
Tower Version 12.10, 2:39:50 PM Tuesday, November 13, 2012
Undeformed geometry displayed





Project Name : 88011 - East Killingly North, CT
Project Notes: 287.5' AT&T Tau Tower
Project File : S:\L2 - ATC\88011\12_11-AT&T Mobility 11-13-12\88011-L2-AT&T Mobility-11_13_12.tow
Date run : 2:34:26 PM Tuesday, November 13, 2012
By : Power Version 12.10
Licensed to : American Tower Corp.

Successfully performed nonlinear analysis

The model has 0 warnings.

Member check option: TIA/EIA 222-F
Connection rupture check: Not Checked
Crossing diagonal check: Fixed
Included angle check: None
Climbing load check: None
Redundant members checked with: Actual Force
Loads from file: r:\engineering services\12 - atc\88011\12_11-at&t mobility 11-13-12\88011-loads-l2-at&t mobility-11_13_12.eia

*** Analysis Results:

Maximum element usage is 99.07% for Angle "D 8Y" in load case "W 180"

Summary of Joint Support Reactions For All Load Cases:

Load Case	Joint Label	Long. Force (kips)	Tran. Force (kips)	Vert. Force (kips)	Shear Force (kips)	Tran. Moment (ft-k)	Long. Moment (ft-k)	Vert. Moment (ft-k)	Bending Moment (ft-k)	Found. Usage %
W 0	0P	-36.39	-17.84	282.34	40.53	-1.20	-4.23	-1.98	4.40	0.00
W 0	0X	-35.65	18.29	280.08	40.07	1.00	-4.06	1.99	4.19	0.00
W 0	0XY	-27.62	-14.53	-186.07	31.21	0.07	-4.27	1.77	4.27	0.00
W 0	0Y	-28.24	14.08	-186.43	31.55	0.05	-4.43	-1.75	4.43	0.00
W 180	0P	28.23	14.01	-185.35	31.52	0.05	4.47	1.76	4.47	0.00
W 180	0X	27.60	-14.43	-185.26	31.15	0.06	4.29	-1.78	4.29	0.00
W 180	0XY	35.64	18.21	279.27	40.02	1.01	4.08	-1.99	4.21	0.00
W 180	0Y	36.43	-17.79	281.26	40.64	-1.19	4.26	1.99	4.42	0.00
W 45	0P	-40.50	-40.50	423.08	57.28	2.57	-2.57	0.00	3.64	0.00
W 45	0X	-15.25	-10.41	47.04	18.47	4.22	-3.41	2.94	5.43	0.00
W 45	0XY	-36.70	-36.70	-327.23	51.90	3.40	-3.40	-0.00	4.81	0.00
W 45	0Y	-10.41	-15.25	47.04	18.47	3.41	-4.22	-2.94	5.43	0.00
W -45	0P	-15.89	10.74	48.95	19.10	-4.37	-3.52	-2.93	5.61	0.00
W -45	0X	-39.97	40.82	421.17	57.13	-2.71	-2.46	0.00	3.66	0.00
W -45	0XY	-9.99	14.93	47.05	17.97	-3.33	-4.10	2.95	5.28	0.00
W -45	0Y	-37.41	36.37	-327.25	51.96	-3.32	-3.51	0.02	4.83	0.00
W 90	0P	-17.84	-36.39	282.34	40.53	4.23	1.20	1.98	4.40	0.00
W 90	0X	18.06	-28.24	-186.43	31.55	4.43	-0.05	1.75	4.43	0.00
W 90	0XY	-14.53	-27.62	-186.07	31.21	4.27	-0.07	-1.77	4.27	0.00
W 90	0Y	18.29	-35.65	280.08	40.07	4.06	-1.00	-1.99	4.19	0.00
W -90	0P	14.01	28.23	-185.35	31.52	-4.47	-0.05	-1.76	4.47	0.00
W -90	0X	-17.79	36.43	281.26	40.64	-4.26	1.19	-1.99	4.42	0.00
W -90	0XY	18.21	35.64	279.27	40.02	-4.08	-1.01	1.99	4.21	0.00
W -90	0Y	-14.43	27.60	-185.26	31.15	-4.29	-0.06	1.78	4.29	0.00
W 0 Ice	0P	-33.20	-17.13	269.13	37.39	-1.60	-3.09	-1.71	3.48	0.00
W 0 Ice	0X	-32.45	17.61	266.46	36.92	1.41	-2.93	1.72	3.25	0.00
W 0 Ice	0XY	-23.42	-12.06	-148.27	26.35	0.65	-4.41	1.55	4.36	0.00
W 0 Ice	0Y	-23.99	11.63	-148.32	26.66	-0.54	-4.46	-1.53	4.49	0.00
W 180 Ice	0P	23.98	11.54	-146.82	26.61	-0.55	4.51	1.53	4.54	0.00
W 180 Ice	0X	23.41	-11.92	-147.15	26.27	0.64	4.33	-1.56	4.38	0.00
W 180 Ice	0XY	32.42	17.52	265.34	36.86	1.42	2.96	-1.72	3.28	0.00
W 180 Ice	0Y	33.24	-17.13	267.64	37.39	-1.59	3.13	1.72	3.51	0.00
W 45 Ice	0P	-40.80	-40.80	397.10	57.70	2.19	-2.19	-0.00	3.10	0.00
W 45 Ice	0X	-14.47	-5.08	59.18	15.34	4.02	-2.51	2.61	4.74	0.00
W 45 Ice	0XY	-32.16	-32.16	-276.45	45.49	3.71	-3.71	0.00	5.24	0.00
W 45 Ice	0Y	-5.08	-14.47	59.18	15.34	2.51	-4.02	-2.61	4.74	0.00
W -45 Ice	0P	-15.03	5.37	61.50	15.96	-4.17	-2.61	-2.60	4.92	0.00
W -45 Ice	0X	-40.24	41.11	394.77	57.53	-2.34	-2.08	0.00	3.13	0.00
W -45 Ice	0XY	-4.72	14.17	58.88	14.94	-2.44	-3.91	2.62	4.61	0.00
W -45 Ice	0Y	-32.52	31.86	-276.16	45.52	-3.64	-3.81	0.02	5.26	0.00
W 90 Ice	0P	-17.19	-33.20	269.13	37.39	3.09	1.60	1.71	3.48	0.00
W 90 Ice	0X	11.63	-23.99	-148.32	26.66	4.46	0.54	1.53	4.49	0.00
W 90 Ice	0XY	-12.06	-23.42	-148.27	26.35	4.41	-0.65	-1.55	4.36	0.00
W 90 Ice	0Y	17.61	-32.45	266.46	36.92	2.93	-1.41	-1.72	3.25	0.00
W -90 Ice	0P	11.54	23.98	-146.82	26.61	-4.51	0.55	-1.53	4.54	0.00
W -90 Ice	0X	-17.13	33.24	267.64	37.39	-3.13	1.59	-1.72	3.51	0.00
W -90 Ice	0XY	17.52	32.42	265.34	36.86	-2.96	-1.42	1.72	3.28	0.00
W -90 Ice	0Y	-11.92	23.41	-147.15	26.27	-4.33	-0.64	1.56	4.38	0.00

Summary of Joint Support Reactions For All Load Cases in Direction of Leg:

Load Case	Support Joint	Origin Joint	Leg Member	Force In Leg Dir. (kips)	Residual Shear Perpendicular To Leg (kips)	Residual Shear Horizontal To Leg - Res. (kips)	Residual Shear Horizontal To Leg - Long. (kips)	Residual Shear Horizontal To Leg - Tran. (kips)	Total Long. Force (kips)	Total Tran. Force (kips)	Total Vert. Force (kips)
W 0	0P	1P	L 1P	284.590	19.179	19.217	19.206	0.651	-36.39	-17.84	282.34
W 0	0X	1X	L 1X	282.323	18.606	18.645	18.604	-1.237	-35.65	18.29	280.08
W 0	0XY	1XY	L 1XY	-187.941	16.560	16.603	16.291	3.203	-27.62	-14.53	-186.07
W 0	0Y	1Y	L 1Y	-188.310	17.068	17.110	16.890	-2.732	-28.24	14.08	-186.43
W 180	0P	1P	L 1P	-187.231	17.124	17.166	-16.948	-2.728	28.23	14.01	-185.35
W 180	0X	1X	L 1X	-187.126	16.588	16.630	-16.328	3.155	27.60	-14.43	-185.26
W 180	0XY	1XY	L 1XY	281.510	18.640	18.679	-18.639	-1.215	35.64	18.21	279.27
W 180	0Y	1Y	L 1Y	283.516	19.280	19.318	-19.306	0.673	36.43	-17.79	281.26
W 45	0P	1P	L 1P	426.432	20.788	20.857	14.748	14.748	-40.50	-40.50	423.08
W 45	0X	1X	L 1X	47.156	18.159	18.159	12.388	13.277	-15.25	-10.41	47.04
W 45	0XY	1XY	L 1XY	-330.470	23.641	23.728	16.778	16.778	-36.70	-36.70	-327.23
W 45	0Y	1Y	L 1Y	47.156	18.159	18.159	13.277	12.388	-10.41	-15.25	47.04
W -45	0P	1P	L 1P	49.076	18.775	18.775	12.817	-13.720	-15.80	10.74	48.95
W -45	0X	1X	L 1X	424.517	20.808	20.880	14.337	-15.180	-39.97	40.82	421.17
W -45	0XY	1XY	L 1XY	47.179	17.631	17.681	12.852	-12.070	-9.99	14.93	47.05
W -45	0Y	1Y	L 1Y	-330.496	23.704	23.791	17.186	-16.452	-37.11	36.37	-327.25
W 90	0P	1P	L 1P	284.590	19.179	19.217	0.651	19.206	-17.84	-36.39	282.34
W 90	0X	1X	L 1X	-188.310	17.068	17.110	-2.732	16.890	14.08	-28.24	-186.43
W 90	0XY	1XY	L 1XY	-187.941	16.560	16.603	3.203	16.291	-14.53	-27.62	-186.07
W 90	0Y	1Y	L 1Y	282.323	18.606	18.645	-1.237	18.604	18.29	-35.65	280.08
W -90	0P	1P	L 1P	-187.231	17.124	17.166	-2.728	-16.948	14.01	28.23	-185.35
W -90	0X	1X	L 1X	283.516	19.280	19.318	0.673	-19.306	-17.79	36.43	281.26
W -90	0XY	1XY	L 1XY	281.510	18.640	18.679	-1.215	-18.639	18.21	35.64	279.27
W -90	0Y	1Y	L 1Y	-187.126	16.588	16.630	3.155	-16.328	-14.43	27.60	-185.26
W 0 Ice	0P	1P	L 1P	271.194	16.805	16.839	16.819	0.810	-33.20	-17.19	269.13
W 0 Ice	0X	1X	L 1X	268.514	16.258	16.293	16.233	-1.394	-32.45	17.61	266.46
W 0 Ice	0XY	1XY	L 1XY	-149.874	14.677	14.715	14.400	3.032	-23.42	-12.06	-148.27
W 0 Ice	0Y	1Y	L 1Y	-149.930	15.147	15.185	14.959	-2.607	-23.99	11.63	-148.32
W 180 Ice	0P	1P	L 1P	-148.435	15.231	15.269	-15.046	-2.599	23.98	11.54	-146.82
W 180 Ice	0X	1X	L 1X	-148.748	14.716	14.754	-14.453	2.968	23.41	-11.92	-147.15
W 180 Ice	0XY	1XY	L 1XY	267.390	16.306	16.341	-16.284	-1.366	32.43	17.52	265.34
W 180 Ice	0Y	1Y	L 1Y	269.704	16.934	16.968	-16.948	0.837	33.24	-17.13	267.64
W 45 Ice	0P	1P	L 1P	402.583	23.427	23.514	16.627	16.627	-40.80	-40.80	397.10
W 45 Ice	0X	1X	L 1X	59.529	13.912	13.912	10.872	8.680	-14.47	-5.08	59.18
W 45 Ice	0XY	1XY	L 1XY	-279.631	21.608	21.688	15.336	15.336	-32.16	-32.16	-276.45
W 45 Ice	0Y	1Y	L 1Y	59.529	13.912	13.912	8.680	10.872	-5.08	-14.47	59.18
W -45 Ice	0P	1P	L 1P	61.464	14.509	14.509	11.290	-9.113	-15.03	5.37	61.50
W -45 Ice	0X	1X	L 1X	398.263	23.462	23.549	16.208	-17.084	-40.24	41.11	394.77
W -45 Ice	0XY	1XY	L 1XY	59.238	13.458	13.459	8.305	-10.590	-4.72	14.17	58.88
W -45 Ice	0Y	1Y	L 1Y	-279.043	21.674	21.754	15.711	-15.047	-32.52	31.86	-276.16
W 90 Ice	0P	1P	L 1P	271.194	16.805	16.839	0.810	16.819	-17.19	-33.20	269.13
W 90 Ice	0X	1X	L 1X	-149.930	15.147	15.185	-2.607	14.959	11.63	-23.99	-148.32
W 90 Ice	0XY	1XY	L 1XY	-149.874	14.677	14.715	3.032	14.400	-12.06	-23.42	-148.27
W 90 Ice	0Y	1Y	L 1Y	268.514	16.258	16.293	-1.394	16.233	17.61	-32.45	266.46
W -90 Ice	0P	1P	L 1P	-148.435	15.231	15.269	-2.599	-15.046	11.54	23.98	-146.82
W -90 Ice	0X	1X	L 1X	269.704	16.934	16.968	0.837	-16.948	-17.13	33.24	267.64
W -90 Ice	0XY	1XY	L 1XY	267.390	16.306	16.341	-1.366	-16.284	17.52	32.43	265.34
W -90 Ice	0Y	1Y	L 1Y	-148.748	14.716	14.754	2.968	-14.453	-11.92	23.41	-147.15

Overturning Moment Summary For All Load Cases:

Load Case	Transverse Moment (ft-k)	Longitudinal Moment (ft-k)	Resultant Moment (ft-k)
W 0	41.750	20568.392	20568.434
W 180	41.748	-20485.271	20485.313
W 45	16506.675	16506.675	23343.964
W -45	-16423.383	16506.890	23285.094
W 90	20568.392	41.750	20568.434
W -90	-20485.271	41.748	20485.313
W 0 Ice	57.705	18307.827	18307.918
W 180 Ice	57.702	-18192.732	18192.823
W 45 Ice	14818.008	14818.008	20955.816
W -45 Ice	-14702.761	14819.175	20874.614
W 90 Ice	18307.827	57.705	18307.918
W -90 Ice	-18192.732	57.702	18192.823

EIA Sections Information:

Section Label	Top Z (ft)	Bottom Z (ft)	Joint Count	Member Count	Top Width (ft)	Bottom Width (ft)	Gross Face Area (ft^2)	Af Face Adjust Factor	Ar Face Adjust Factor	Dead Load Factor

278.9-287.5	287.500	278.917	8	20	9.00	10.04	81.73	1.1670	1.1670	1.284
270.3-278.9	278.917	270.333	8	16	10.04	11.09	90.70	1.2150	1.2150	1.336
260.2-270.3	270.333	260.167	8	16	11.09	12.33	119.04	1.1960	1.1960	1.316
250.0-260.2	260.167	250.000	12	24	12.33	13.57	131.62	1.2030	1.2030	1.323
237.5-250.0	250.000	237.500	16	24	13.57	15.09	179.08	1.2010	1.2010	1.441
225.0-237.5	237.500	225.000	16	24	15.09	16.61	198.10	1.2070	1.2070	1.448
212.5-225.0	225.000	212.500	16	24	16.61	18.13	217.12	1.2130	1.2130	1.455
200.0-212.5	212.500	200.000	16	24	18.13	19.65	236.14	1.2190	1.2190	1.463
187.5-200.0	200.000	187.500	16	24	19.65	21.17	255.16	1.2250	1.2250	1.469
162.5-187.5	187.500	162.500	16	24	21.17	24.22	567.39	1.2540	1.2540	1.504
137.5-162.5	162.500	137.500	16	24	24.22	27.26	643.48	1.2680	1.2680	1.522
112.5-137.5	137.500	112.500	16	24	27.26	30.30	719.57	1.2770	1.2770	1.533
87.50-112.5	112.500	87.500	20	32	30.30	33.35	795.65	1.2910	1.2910	1.549
62.50-87.50	87.500	62.500	36	76	33.35	36.39	871.74	1.2310	1.2310	1.478
37.50-62.50	62.500	37.500	32	68	36.39	39.43	947.83	1.2320	1.2320	1.478
0.000-37.50	37.500	0.000	20	40	39.43	44.00	1564.40	1.2860	1.2860	1.543

*** Overall summary for all load cases - Usage = Maximum Stress / Allowable Stress
Printed capacities do not include EIA allowable stress increase for wind load cases.
Printed capacities do not include the strength factor entered for each load case.
The Group Summary reports on the member and load case that resulted in maximum usage which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Usage Control	Max Use In Comp. %	Comp. Control Member	Comp. Force (kips)	Comp. Control Load Case	L/R Capacity (kips)	Comp. Connect. Shear Capacity (kips)	Comp. Connect. Bearing Capacity (kips)	RLX	RLY	RLZ	L/R	KL/R	Length Comp. Member (ft)	Curve No.	No. Of Bolts Comp.
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	95.19	Comp	95.19	L 1P	-343.496	W 45	270.661	0.000	0.000	0.250	0.250	0.250	72.41	72.41	37.639	1	0
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	74.01	Comp	74.01	L 2P	-296.588	W 45	300.580	0.000	0.000	0.281	0.281	0.281	54.26	54.26	25.092	1	0
Leg S3	L 8" x 8" x 1"	SAE	8X8X1	36.0	70.76	Comp	70.76	L 3P	-254.239	W 45	269.498	0.000	0.000	0.281	0.281	0.281	54.26	54.26	25.092	1	0
Leg S4	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	81.62	Comp	81.62	L 4P	-245.432	W 45	325.529	0.000	0.000	0.333	0.333	0.333	63.92	63.92	25.092	1	0
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	68.95	Comp	68.95	L 5P	-207.302	W 45	325.529	0.000	0.000	0.333	0.333	0.333	63.92	63.92	25.092	1	0
Leg S6	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	64.95	Comp	64.95	L 6P	-169.285	W 45	195.474	0.000	0.000	0.333	0.333	0.333	63.52	63.52	25.092	1	0
Leg S7	L 8" x 8" x 0.625"	SAE	8X8X0.63	36.0	60.58	Comp	60.58	L 7P	-132.619	W 45	164.205	0.000	0.000	0.333	0.333	0.333	63.52	63.52	25.092	1	0
Leg S8	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	59.38	Comp	59.38	L 8P	-115.637	W 45	143.526	0.000	0.000	0.500	0.500	0.500	64.34	64.34	12.546	1	0
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	49.65	Comp	49.65	L 9P	-95.009	W 45	143.526	0.000	0.000	0.500	0.500	0.500	64.34	64.34	12.546	1	0
Leg S10	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	52.98	Comp	52.98	L 10P	-77.482	W 45	109.693	0.000	0.000	0.500	0.500	0.500	63.79	63.79	12.546	1	0
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	41.06	Comp	41.06	L 11P	-60.055	W 45	109.693	0.000	0.000	0.500	0.500	0.500	63.79	63.79	12.546	1	0
Leg S12	L 6" x 6" x 0.4375"	SAE	6X6X0.44	36.0	36.45	Comp	36.45	L 12P	-42.079	W 45	86.590	0.000	0.000	0.500	0.500	0.500	63.26	63.26	12.546	1	0
Leg S13	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	33.79	Comp	33.79	L 13P	-32.437	W 45	72.008	0.000	0.000	0.500	0.500	0.500	62.10	62.10	10.204	1	0
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	20.78	Comp	20.78	L 14P	-19.954W	45 Ice	72.008	0.000	0.000	0.500	0.500	0.500	62.10	62.10	10.204	1	0
Leg S15	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	14.05	Comp	14.05	L 15P	-10.285W	45 Ice	54.901	0.000	0.000	0.500	0.500	0.500	52.00	52.00	8.615	1	0
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	6.87	Comp	6.87	L 16P	-5.028W	45 Ice	54.901	0.000	0.000	0.500	0.500	0.500	52.00	52.00	8.615	1	0
Diag S1	B/B L3"x5"x0.3125"	DAS	5X3X0.31	36.0	98.82	Comp	98.82	D 1Y	-55.825	W 180	42.368	0.000	0.000	0.316	0.632	0.316	136.37	130.07	30.677	6	0
Diag S2	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	89.30	Comp	89.30	D 3Y	-41.341	W 180	34.721	0.000	0.000	0.320	0.640	0.320	107.12	107.12	20.504	1	0
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	36.0	86.84	Comp	86.84	D 6X	-40.979	W -90	35.392	0.000	0.000	0.320	0.640	0.320	105.35	105.35	20.165	1	0
Diag S4	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	99.97	Comp	99.97	D 7X	-26.857	W -90	20.148	0.000	0.000	0.300	0.610	0.300	151.90	139.62	30.089	6	0
Diag S5	B/B L2.5"x2"x0.25"	DAS	2X2.5X0.25	36.0	95.99	Comp	95.99	D 9X	-26.749	W -90	20.900	0.000	0.000	0.300	0.610	0.300	147.78	137.08	29.275	6	0
Diag S6	B/B L2.5"x4"x0.25"	DAS	4X2.5X0.25	36.0	94.99	Comp	94.99	D 11X	-25.714	W -90	20.303	0.000	0.000	0.320	0.640	0.320	151.02	139.08	28.515	6	0
Diag S7	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	89.61	Comp	89.61	D 13X	-25.068	W -90	20.980	0.000	0.000	0.320	0.640	0.320	147.35	136.82	27.820	6	0
Diag S8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	68.31	Comp	68.31	D 15X	-14.799	W -90	16.248	0.000	0.000	0.500	1.000	0.500	165.36	147.90	16.399	6	0
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	62.07	Comp	62.07	D 17X	-14.006	W -90	16.923	0.000	0.000	0.500	1.000	0.500	160.52	144.92	15.918	6	0
Diag S10	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	90.39	Comp	90.39	D 19X	-13.545	W -90	11.240	0.000	0.000	0.500	1.000	0.500	198.42	168.23	15.460	6	0
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	87.15	Comp	87.15	D 22Y	-13.608	W 180	11.711	0.000	0.000	0.500	1.000	0.500	192.85	164.80	15.026	6	0
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	82.27	Comp	82.27	D 24Y	-13.361	W 180	12.181	0.000	0.000	0.500	1.000	0.500	187.63	161.59	14.620	6	0
Diag S13	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	49.24	Comp	49.24	D 25P	-8.279	W 0	12.611	0.000	0.000	0.520	0.750	0.520	148.11	141.46	16.373	5	0
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	32.13	Comp	32.13	D 26P	-5.934	W 90	13.862	0.000	0.000	0.520	0.750	0.520	139.54	134.93	15.519	5	0
Diag S15	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	21.81	Comp	21.81	D 29P	-3.282	W 0	11.287	0.000	0.000	0.520	0.750	0.520	143.61	138.03	13.624	5	0
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	17.87	Comp	17.87	D 31P	-2.956	W 0	12.406	0.000	0.000	0.520	0.750	0.520	135.24	131.65	12.831	5	0
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	79.33	Comp	79.33	H 2Y	-36.153	W -45	34.180	0.000	0.000	0.500	0.500	0.500	108.54	108.54	19.717	1	0
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	78.58	Comp	78.58	H 4Y	-29.533	W -45	28.194	0.000	0.000	0.940	0.940	0.940	125.53	123.40	12.130	6	0
Horiz 3	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	83.08	Comp	83.08	H 6Y	-26.634	W -45	24.045	0.000	0.000	0.940	0.940	0.940	132.69	127.80	11.116	6	0
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	76.04	Comp	76.04	H 8P	-12.970	W 180	12.793	0.000	0.000	1.000	1.000	1.000	192.41	175.22	15.152	5	0
Horiz 5	B/B L4"x2.5"x0.25"	DAL	4X2.5X0.25	36.0	59.96	Comp	59.96	H 10P	-12.190	W 180	15.248	0.000	0.000	1.000	1.000	1.000	173.08	160.49	13.630	5	0
Horiz 6	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	67.01	Comp	67.01	H 12P	-10.661	W 180	11.933	0.000	0.000	1.000	1.000	1.000	188.95	172.58	12.109	5	0
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	49.88	Comp	49.88	H 13P	-9.904	W -90	14.892	0.000	0.000	1.000	1.000	1.000	165.21	154.49	10.587	5	0
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	38.54	Comp	38.54	H 15P	-8.634	W -90	16.802	0.000	0.000	1.000	1.000	1.000	153.33	145.44	9.826	5	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	31.35	Comp	31.35	H 17P	-7.985	W -90	19.105	0.000	0.000	1.000	1.000	1.000	141.46	136.39	9.069	5	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	24.56	Comp	24.56	H 19P	-7.175	W -90	21.916	0.000	0.000	1.000	1.000	1.000	129.59	127.35	8.304	5	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	21.19	Comp	21.19	H 21P	-7.132	W -90	25.247	0.000	0.000	1.000	1.000	1.000	117.71	117.71	7.543	1	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	15.48	Comp	15.48	H 23P	-6.005	W -90	29.995	0.000	0.000	1.000	1.000	1.000	105.84	105.84	6.783	1	0
Horiz 13	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	8.53	Comp	8.53	H 26X	-1.214	W 90	10.679	0.000	0.000	0.500	0.500	0.500	140.09	135.35	12.328	5	0
Horiz 14	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	2.06	Tens	1.96	H 27Y	-0.609	W 0	43.100	0.000	0.000	0.500	0.500	0.500	78.41	78.41	11.090	1	0
Horiz 15	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	36.0	2.80	Tens	0.88	H 29Y	-0.170	W 0	14.549	0.000	0.000	0.500	0.500	0.500	114.15	114.15	10.045	1	0
Horiz 16	C8x11.5	CHN	C8x11.5	36.0	2.04	Comp	2.04	H 31Y	-0.533	W -90	19.649	0.000	0.000	0.500	1.000	0.500	172.80	160.27	9.000	5	0

LD 1	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	68.07	Comp	68.07	LD 1X	-27.444W	-45 Ic	30.240	0.000	0.000	0.900	0.900	0.900	134.95	129.19	13.620	6	0
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	36.0	98.53	Comp	98.53	LD 3X	-48.838	W -90	37.177	0.000	0.000	0.900	0.900	0.900	114.92	114.92	13.620	1	0
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	99.65	Comp	99.65	LD 7X	-21.752	W -45	16.371	0.000	0.000	0.910	0.910	0.910	151.53	139.39	10.879	6	0
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	83.21	Comp	83.21	LD 10Y	-27.030	W 180	24.363	0.000	0.000	0.910	0.910	0.910	111.73	111.73	8.021	1	0
LD 6	B/B L4"x2"x0.25"	DAL	4X2X0.25	36.0	81.46	Comp	81.46	LD 11P	-28.791	W -90	26.509	0.000	0.000	0.910	0.910	0.910	113.91	113.91	9.295	1	0
LD 7	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	93.60	Comp	93.60	LD 13X	-21.872	W -45	17.525	0.000	0.000	0.910	0.910	0.910	143.94	134.72	10.334	6	0
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	80.14	Comp	80.14	LD 16Y	-26.601	W 180	24.896	0.000	0.000	0.910	0.910	0.910	109.88	109.88	7.989	1	0
LD 9	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	99.47	Comp	99.47	LD 17P	-27.798	W -90	28.960	0.000	0.000	0.910	0.910	0.910	124.97	123.65	8.972	6	0
LH 1	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	74.12	Comp	74.12	LH 1P	-12.377W	-45 Ic	12.521	0.000	0.000	0.500	1.000	0.500	198.83	168.48	19.717	6	0
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	99.04	Comp	99.04	LH 3X	-23.995	W -45	18.170	0.000	0.000	1.000	2.000	1.000	163.95	147.02	9.904	6	0
LH 3	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	85.41	Comp	85.41	LH 5X	-23.165	W -45	20.342	0.000	0.000	1.000	2.000	1.000	150.81	138.95	9.112	6	0
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00		0.00	BR 9XY	-0.998	W 45	0.215	0.000	0.000	1.000	1.000	1.000	2.31	2.31	19.276	1	0

Group Summary (Tension Portion):

Group Label	Group Desc.	Angle Type	Angle Size	Steel Strength (ksi)	Max Usage %	Usage Control	Max Use In Tens. %	Tension Control Member	Tension Force (kips)	Tension Control Load Case	Net Section Capacity (kips)	Tension Connect. Shear Capacity (kips)	Tension Connect. Bearing Capacity (kips)	Tension Connect. Rupture Capacity (kips)	Length Tens. Member (ft)	No. Of Bolts Tens.	No. Of Holes	Hole Diameter (in)
Leg S5	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	95.19	Comp	50.91	L 1XY	245.294	W 45	361.367	0.000	0.000	0.000	37.639	0	0.000	0
Leg S6	L 8" x 8" x 1.125"	SAE	8X8X1.13	36.0	74.03	Comp	47.58	L 2XY	229.260	W 45	361.367	0.000	0.000	0.000	25.092	0	0.000	0
Leg S7	L 8" x 8" x 1"	SAE	8X8X1	36.0	70.76	Comp	45.60	L 3XY	197.000	W 45	323.999	0.000	0.000	0.000	25.092	0	0.000	0
Leg S4	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	81.62	Comp	50.79	L 4XY	193.617	W 45	285.768	0.000	0.000	0.000	25.092	0	0.000	0
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	36.0	68.45	Comp	42.57	L 5XY	162.215	W 45	285.768	0.000	0.000	0.000	25.092	0	0.000	0
Leg S6	L 8" x 8" x 0.75"	SAE	8X8X0.75	36.0	64.95	Comp	39.75	L 6Y	130.968	W -45	247.104	0.000	0.000	0.000	25.092	0	0.000	0
Leg S7	L 8" x 8" x 0.625"	SAE	8X8X0.63	36.0	60.58	Comp	35.96	L 7Y	99.632	W -45	207.576	0.000	0.000	0.000	25.092	0	0.000	0
Leg S8	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	59.38	Comp	34.77	L 8Y	84.512	W -45	182.304	0.000	0.000	0.000	12.546	0	0.000	0
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	36.0	49.65	Comp	29.13	L 9Y	70.797	W -45	182.304	0.000	0.000	0.000	12.546	0	0.000	0
Leg S10	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	52.98	Comp	30.22	L 10Y	55.966	W -45	138.888	0.000	0.000	0.000	12.546	0	0.000	0
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	36.0	41.06	Comp	22.11	L 11Y	40.941	W -45	138.888	0.000	0.000	0.000	12.546	0	0.000	0
Leg S12	L 6" x 6" x 0.4375"	SAE	6X6X0.44	36.0	36.45	Comp	17.79	L 12Y	25.827	W -45	109.296	0.000	0.000	0.000	12.546	0	0.000	0
Leg S13	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	33.79	Comp	16.03	L 13Y	19.293	W -45	90.288	0.000	0.000	0.000	10.204	0	0.000	0
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	36.0	20.78	Comp	8.15	L 14Y	9.805	W -45	90.288	0.000	0.000	0.000	10.204	0	0.000	0
Leg S15	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	14.05	Comp	4.90	L 15Y	4.272	W -45	65.448	0.000	0.000	0.000	8.615	0	0.000	0
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	36.0	6.87	Comp	0.48	L 16XY	0.422	W 45	65.448	0.000	0.000	0.000	8.615	0	0.000	0
Diag S1	B/B L3"x5"x0.3125"	DAS	3X5X0.31	36.0	98.82	Comp	44.14	D 1Y	47.189	W -45	103.680	0.000	0.000	0.000	30.677	0	0.000	0
Diag S2	B/B L2.5"x3.5"x0.25"	DAC	3.5X2.5X0.25	36.0	89.30	Comp	43.10	D 3P	35.750	W 180	62.208	0.000	0.000	0.000	20.564	0	0.000	0
Diag S3	B/B L2.5"x3.5"x0.25"	DAC	3.5X2.5X0.25	36.0	86.84	Comp	41.97	D 6P	34.812	W -90	62.208	0.000	0.000	0.000	20.165	0	0.000	0
Diag S4	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	99.97	Comp	32.74	D 7P	24.799	W -90	56.808	0.000	0.000	0.000	30.089	0	0.000	0
Diag S5	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	95.99	Comp	32.56	D 9P	24.658	W -90	56.808	0.000	0.000	0.000	29.279	0	0.000	0
Diag S6	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	94.99	Comp	31.54	D 11P	23.889	W -90	56.808	0.000	0.000	0.000	28.515	0	0.000	0
Diag S7	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	89.61	Comp	31.42	D 13P	23.800	W -90	56.808	0.000	0.000	0.000	27.820	0	0.000	0
Diag S8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	68.31	Comp	29.13	D 15P	13.795	W -90	51.408	0.000	0.000	0.000	16.399	0	0.000	0
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	62.07	Comp	19.14	D 17P	13.116	W -90	51.408	0.000	0.000	0.000	15.918	0	0.000	0
Diag S10	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	90.39	Comp	20.80	D 19P	12.758	W -90	46.008	0.000	0.000	0.000	15.460	0	0.000	0
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	87.15	Comp	21.02	D 22P	12.893	W 180	46.008	0.000	0.000	0.000	15.026	0	0.000	0
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	82.37	Comp	20.72	D 23P	12.710	W -90	46.008	0.000	0.000	0.000	14.620	0	0.000	0
Diag S13	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	49.24	Comp	14.70	D 26X	7.157	W 90	36.504	0.000	0.000	0.000	16.473	0	0.000	0
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	36.0	32.13	Comp	10.26	D 27Y	4.993	W 0	36.504	0.000	0.000	0.000	15.519	0	0.000	0
Diag S15	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	21.81	Comp	6.51	D 30X	2.701	W 90	31.104	0.000	0.000	0.000	13.624	0	0.000	0
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	36.0	17.87	Comp	5.67	D 31Y	2.353	W 0	31.104	0.000	0.000	0.000	12.831	0	0.000	0
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	79.33	Comp	44.14	H 1X	36.610W	-45 Ic	62.208	0.000	0.000	0.000	19.717	0	0.000	0
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	36.0	78.58	Comp	40.59	H 3X	33.662	W -45	62.208	0.000	0.000	0.000	12.130	0	0.000	0
Horiz 3	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	83.08	Comp	38.34	H 5X	29.038	W -45	56.808	0.000	0.000	0.000	11.116	0	0.000	0
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	76.04	Comp	17.94	H 7X	13.589	W -90	56.808	0.000	0.000	0.000	15.152	0	0.000	0
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	59.96	Comp	16.50	H 9F	12.495	W 90	56.808	0.000	0.000	0.000	13.630	0	0.000	0
Horiz 6	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	67.01	Comp	15.81	H 11X	10.834	W -90	51.408	0.000	0.000	0.000	12.109	0	0.000	0
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	49.88	Comp	14.09	H 13P	10.204	W 90	51.408	0.000	0.000	0.000	10.587	0	0.000	0
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	38.54	Comp	12.93	H 15X	8.865	W -90	51.408	0.000	0.000	0.000	9.826	0	0.000	0
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	31.35	Comp	11.95	H 18P	8.188	W 0	51.408	0.000	0.000	0.000	9.065	0	0.000	0
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	24.56	Comp	10.82	H 20Y	7.415	W 180	51.408	0.000	0.000	0.000	8.304	0	0.000	0
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	21.19	Comp	10.59	H 21P	7.255	W 90	51.408	0.000	0.000	0.000	7.543	0	0.000	0
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	15.48	Comp	9.87	H 23X	6.762	W -90	51.408	0.000	0.000	0.000	6.783	0	0.000	0
Horiz 13	L 3" x 3.5" x 0.25"	SAD	3X3.5X0.25	36.0	8.53	Comp	7.08	H 26F	2.673W	90 Ice	28.296	0.000	0.000	0.000	12.328	0	0.000	0
Horiz 14	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	36.0	2.06	Tens	2.06	H 27P	1.561	W 0 Ice	56.808	0.000	0.000	0.000	11.090	0	0.000	0
Horiz 15	L 3" x 2.5" x 0.25"	SAD	3X2.5X0.25	36.0	2.80	Tens	2.80	H 29P	1.055	W 0 Ice	28.296	0.000	0.000	0.000	10.045	0	0.000	0
Horiz 16	C8x11.5	CHN	C8x11.5	36.0	2.04	Comp	0.71	H 31Y	0.687	W 90	73.008	0.000	0.000	0.000	9.000	0	0.000	0
LD 1	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	36.0	68.07	Comp	28.42	LD 2Y	27.666	W -45	73.008	0.000	0.000	0.000	13.620	0	0.000	0
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	36.0	98.53	Comp	40.97	LD 4P	45.722	W 180	73.008	0.000	0.000	0.000	13.620	0	0.000	0
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	99.65	Comp	31.43	LD 8Y	19.281	W -45	46.008	0.000	0.000	0.000	10.879	0	0.000	0
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	83.21	Comp	38.43	LD 9F	23.572	W -90	46.008	0.000	0.000	0.000	8.021	0	0.000	0
LD 6	B/B L4"x2"x0.25"	DAL	4X2X0.25	36.0	81.46	Comp	43.26	LD 11X	29.650	W -90	51.408	0.000	0.000	0.000	9.295	0	0.000	0
LD 7	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	93.60	Comp	32.42	LD 14Y	19.888	W -45	46.008	0.000	0.000	0.000	10.334	0	0.000	0
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	80.14	Comp	37.54	LD 16P	23.027	W 180	46.008	0.000	0.000	0.000	7.889	0	0.000	0
LD 9	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	36.0	99.47	Comp	46.44	LD 17X	28.488	W -90	46.008	0.000	0.000	0.000	8.472	0	0.000	0
LH 1	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	36.0	74.12	Comp	21.67	LH 1Y	14.852	W 0	51.408	0.000	0.000	0.000	19.717	0	0.000	0
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	36.0	99.04	Comp	27.24	LH 4Y	20.629	W -45	56.808	0.000	0.000	0.000	9.904	0	0.000	0

DB 1	R/R L2.5"x3"x0.25"	DAS	8X2.5X0.25	36.0	85.41	Comp	27.17	LB 6Y	20.576	W -45	56.808	0.000	0.000	0.000	9.112	0	0.000	0
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00		0.00	BR 9X	0.879	W -45	0.216	0.000	0.000	0.000	14.276	0	0.000	0

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Usages by Load Case:

Load Case	Maximum Usage %	Element Label	Element Type
W 0	99.38	D 8P	Angle
W 180	99.97	D 8Y	Angle
W 45	97.23	LD 7P	Angle
W -45	99.65	LD 7X	Angle
W 90	99.38	D 7P	Angle
W -90	99.97	D 7X	Angle
W 0 Ice	89.29	D 8P	Angle
W 180 Ice	90.11	D 8Y	Angle
W 45 Ice	86.25	D 1P	Angle
W -45 Ice	88.67	D 2X	Angle
W 90 Ice	89.29	D 7P	Angle
W -90 Ice	90.11	D 7X	Angle

*** Weight of structure (lbs):

Weight of Angles*Section DLF:	127856.1
Total:	127856.1

*** End of Report

Site #:	88011
Name:	East Killingly North, CT

Engineer:	SAW
Date:	11/13/12

Windspeed:	No Ice:	85 mph	Ice:	74 mph
Carrier	AT&T Mobility			

Taper:	-0.121739
FW @ Base:	44 ft

Taper Change:	287.5 ft
FW @ Top:	9 ft

Spreadsheet Version Last Updated: 2/16/2012

Joint Label	Symmetry Code	X Coord. (ft)	Y Coord. (ft)	Z Coord. (ft)	X Disp. Rest.	Y Disp. Rest.	Z Disp. Rest.	X Rot. Rest.	Y Rot. Rest.	Z Rot. Rest.	Drop Sub-Brace (Y or Blank)
0	XY-Symmetry	22	22	0	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	
1	XY-Symmetry	19.7173913	19.7173913	37.5	Free	Free	Free	Free	Free	Free	
2	XY-Symmetry	18.19565217	18.19565217	62.5	Free	Free	Free	Free	Free	Free	
3	XY-Symmetry	16.67391304	16.67391304	87.5	Free	Free	Free	Free	Free	Free	
4	XY-Symmetry	15.15217391	15.15217391	112.5	Free	Free	Free	Free	Free	Free	
5	XY-Symmetry	13.63043478	13.63043478	137.5	Free	Free	Free	Free	Free	Free	
6	XY-Symmetry	12.10869565	12.10869565	162.5	Free	Free	Free	Free	Free	Free	
7	XY-Symmetry	10.58695652	10.58695652	187.5	Free	Free	Free	Free	Free	Free	
8	XY-Symmetry	9.826086957	9.826086957	200	Free	Free	Free	Free	Free	Free	
9	XY-Symmetry	9.065217391	9.065217391	212.5	Free	Free	Free	Free	Free	Free	
10	XY-Symmetry	8.304347826	8.304347826	225	Free	Free	Free	Free	Free	Free	
11	XY-Symmetry	7.543478261	7.543478261	237.5	Free	Free	Free	Free	Free	Free	
12	XY-Symmetry	6.782608696	6.782608696	250	Free	Free	Free	Free	Free	Free	
13	XY-Symmetry	6.163766087	6.163766087	260.1667	Free	Free	Free	Free	Free	Free	
14	XY-Symmetry	5.544923478	5.544923478	270.3334	Free	Free	Free	Free	Free	Free	
15	XY-Symmetry	5.022461739	5.022461739	278.9167	Free	Free	Free	Free	Free	Free	
16	XY-Symmetry	4.5	4.5	287.5	Free	Free	Free	Free	Free	Free	
A1	Y-Symmetry	19.7173913	0	37.5	Free	Free	Free	Free	Free	Free	
A2	X-Symmetry	0	19.7173913	37.5	Free	Free	Free	Free	Free	Free	
A3	XY-Symmetry	18.19565217	6.065217391	62.5	Free	Free	Free	Free	Free	Free	
A4	XY-Symmetry	6.065217391	18.19565217	62.5	Free	Free	Free	Free	Free	Free	
A5	XY-Symmetry	16.67391304	5.557971014	87.5	Free	Free	Free	Free	Free	Free	
A6	XY-Symmetry	5.557971014	16.67391304	87.5	Free	Free	Free	Free	Free	Free	
A7	Y-Symmetry	15.15217391	0	112.5	Free	Free	Free	Free	Free	Free	
A8	X-Symmetry	0	15.15217391	112.5	Free	Free	Free	Free	Free	Free	
A9	Y-Symmetry	13.63043478	0	137.5	Free	Free	Free	Free	Free	Free	
A10	X-Symmetry	0	13.63043478	137.5	Free	Free	Free	Free	Free	Free	
A11	Y-Symmetry	12.10869565	0	162.5	Free	Free	Free	Free	Free	Free	
A12	X-Symmetry	0	12.10869565	162.5	Free	Free	Free	Free	Free	Free	
A13	Y-Symmetry	10.58695652	0	187.5	Free	Free	Free	Free	Free	Free	
A14	X-Symmetry	0	10.58695652	187.5	Free	Free	Free	Free	Free	Free	
A15	Y-Symmetry	9.826086957	0	200	Free	Free	Free	Free	Free	Free	
A16	X-Symmetry	0	9.826086957	200	Free	Free	Free	Free	Free	Free	
A17	Y-Symmetry	9.065217391	0	212.5	Free	Free	Free	Free	Free	Free	
A18	X-Symmetry	0	9.065217391	212.5	Free	Free	Free	Free	Free	Free	
A19	Y-Symmetry	8.304347826	0	225	Free	Free	Free	Free	Free	Free	
A20	X-Symmetry	0	8.304347826	225	Free	Free	Free	Free	Free	Free	
A21	Y-Symmetry	7.543478261	0	237.5	Free	Free	Free	Free	Free	Free	
A22	X-Symmetry	0	7.543478261	237.5	Free	Free	Free	Free	Free	Free	
A23	Y-Symmetry	6.782608696	0	250	Free	Free	Free	Free	Free	Free	
A24	X-Symmetry	0	6.782608696	250	Free	Free	Free	Free	Free	Free	
H1	XY-Symmetry	20.28834783	9.858695652	28.12	Free	Free	Free	Free	Free	Free	
H2	XY-Symmetry	9.858695652	20.28834783	28.12	Free	Free	Free	Free	Free	Free	
H5	XY-Symmetry	18.62356522	9.904208696	55.47	Free	Free	Free	Free	Free	Free	
H6	XY-Symmetry	9.904208696	18.62356522	55.47	Free	Free	Free	Free	Free	Free	
H7	Y-Symmetry	18.62356522	0	55.47	Free	Free	Free	Free	Free	Free	
H8	X-Symmetry	0	18.62356522	55.47	Free	Free	Free	Free	Free	Free	
H9	XY-Symmetry	17.10182609	9.111686957	80.47	Free	Free	Free	Free	Free	Free	
H10	XY-Symmetry	9.111686957	17.10182609	80.47	Free	Free	Free	Free	Free	Free	
H11	Y-Symmetry	17.10182609	0	80.47	Free	Free	Free	Free	Free	Free	
H12	X-Symmetry	0	17.10182609	80.47	Free	Free	Free	Free	Free	Free	

# Vert	Drop (ft)	Height (ft)	Type
3	9.38	37.5	1
	7.03	25	2
	7.03	25	2
		25	A
		25	A
		25	A
		25	A
		12.5	A
		12.5	A
		12.5	A
		12.5	A
		12.5	A
1		10.1667	X
1		10.1667	X
1		8.5833	X
1		8.5833	X

Count	Z-Elev. (ft)	FW (ft)	# Sub-Brace
1	0	44	3
2	37.5	39.43478261	3
3	62.5	36.39130435	3
4	87.5	33.34782609	2
5	112.5	30.30434783	2
6	137.5	27.26086957	2
7	162.5	24.2173913	2
8	187.5	21.17391304	1
9	200	19.65217391	1
10	212.5	18.13043478	1
11	225	16.60869565	1
12	237.5	15.08695652	1
13	250	13.56521739	1
14	260.1667	12.32753217	1
15	270.3334	11.08984696	1
16	278.9167	10.04492348	1
17	287.5	9	

NOTES

Types:

1: Built up Horizs. w/ A

2: Built up Horizs. w/ M

A: Typical A brace

X: Typical X brace

Drop: Use only for types 1 & 2

# Sections:	16

Legs

Engineer:	SAW
Date:	11/13/2012
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape [1]	Diameter or Length (in)	Thickness [2] (in)	F_Y (ksi)
1	0.000-37.50	L	8	1.125	36
2	37.50-62.50	L	8	1.125	36
3	62.50-87.50	L	8	1	36
4	87.50-112.5	L	8	0.875	36
5	112.5-137.5	L	8	0.875	36
6	137.5-162.5	L	8	0.75	36
7	162.5-187.5	L	8	0.625	36
8	187.5-200.0	L	6	0.75	36
9	200.0-212.5	L	6	0.75	36
10	212.5-225.0	L	6	0.5625	36
11	225.0-237.5	L	6	0.5625	36
12	237.5-250.0	L	6	0.4375	36
13	250.0-260.2	L	5	0.4375	36
14	260.2-270.3	L	5	0.4375	36
15	270.3-278.9	L	5	0.3125	36
16	278.9-287.5	L	5	0.3125	36

Notes:

[1] Type of Leg Shape: **R** = Round or **P** = Bent Plate or **S** = Schifflerized Angle. **L** = Even Leg

[2] For Solid Round Leg Shapes Thickness Equals Zero.

[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Engineer:	SAW
Date:	11/13/2012
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape [1]	Diameter [2] (in)	Web Length [3] (in)	Flange Length [3] (in)	Thickness (in)	F_y (ksi)	Is Diag. Tension Only? (Y/N)
1	0.000-37.50	2L		3	5	0.3125	36	
2	37.50-62.50	2L		2.5	3.5	0.25	36	
3	62.50-87.50	2L		2.5	3.5	0.25	36	
4	87.50-112.5	2L		2.5	3	0.25	36	
5	112.5-137.5	2L		2.5	3	0.25	36	
6	137.5-162.5	2L		2.5	3	0.25	36	
7	162.5-187.5	2L		2.5	3	0.25	36	
8	187.5-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2	0.25	36	
11	225.0-237.5	2L		2.5	2	0.25	36	
12	237.5-250.0	2L		2.5	2	0.25	36	
13	250.0-260.2	L		3.5	3.5	0.25	36	
14	260.2-270.3	L		3.5	3.5	0.25	36	
15	270.3-278.9	L		3	3	0.25	36	
16	278.9-287.5	L		3	3	0.25	36	

Notes:

[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Horizontals

Engineer:	SAW
Date:	11/13/2012
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape [1]	Diameter [2] (in)	Web Length [3] (in)	Flange Length [3] (in)	Thickness (in)	F_y (ksi)	
1	0.000-37.50	2L		3.5	2.5	0.25	36	
2	37.50-62.50	2L		3.5	2.5	0.25	36	
3	62.50-87.50	2L		3	2.5	0.25	36	
4	87.50-112.5	2L		3	2.5	0.25	36	
5	112.5-137.5	2L		3	2.5	0.25	36	
6	137.5-162.5	2L		2.5	2.5	0.25	36	
7	162.5-187.5	2L		2.5	2.5	0.25	36	
8	187.5-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2.5	0.25	36	
11	225.0-237.5	2L		2.5	2.5	0.25	36	
12	237.5-250.0	2L		2.5	2.5	0.25	36	
13	250.0-260.2	L		3	2.5	0.25	36	
14	260.2-270.3	2L		3	2.5	0.25	36	
15	270.3-278.9	L		3	2.5	0.25	36	
16	278.9-287.5	C		8	11.5		36	

Notes:

[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle, **2L** = Double-Angle, **C** = Channel, **W** = W Shape

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Built-up Diagonals

Engineer:	SAW
Date:	11/13/2012
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.
Input diags. from left to center & from base section upward.

Tower Built-up Diag. #	Section Elevations (ft)	Type of Shape [1]	Diameter [2] (in)	Web Length [3] (in)	Flange Length [3] (in)	Thickness (in)	F_y (ksi)
1	0.000-37.50	2L		3.5	3.5	0.25	36
2	0.000-37.50	2L		4	3	0.25	36
3	37.50-62.50	2L		2.5	2	0.25	36
4	37.50-62.50	2L		2.5	2	0.25	36
5	37.50-62.50	2L		3	2	0.25	36
6	62.50-87.50	2L		2.5	2	0.25	36
7	62.50-87.50	2L		2.5	2	0.25	36
8	62.50-87.50	2L		2.5	2	0.25	36

Notes:

[1] Type of Diagonal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

[5] Applies to Single-Angle Shapes only.

Built-up Horizontals

Engineer:	SAW
Date:	11/13/2012
Carrier:	AT&T Mobility

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape [1]	Diameter [2] (in)	Web Length [3] (in)	Flange Length [3] (in)	Thickness (in)	F_y (ksi)	Is Horiz. Tension Only? (Y/N)
1	0.000-37.50	2L		2.5	2.5	0.25	36	Y
2	37.50-62.50	2L		2.5	3	0.25	36	
3	62.50-87.50	2L		2.5	3	0.25	36	

Notes:

[1] Type of Horizontal Shape: **R** = Round, **L** = Single-Angle or **2L** = Double-Angle.

[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

[3] Applies to Single-Angle and Double-Angle Shapes only.

[4] Applies to Double-Angle Shapes only.

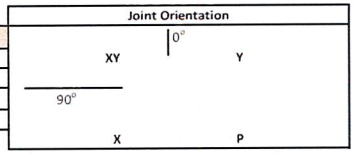
[5] Applies to Single-Angle Shapes only.

Coax & Dishes

Site No.:	88011
Engineer:	SAW
Date:	11/13/12
Carrier:	AT&T Mobility

Dish Types	
S	Standard
R	Standard w/ Radome
H	High Performance
G	Grid

Joint Orientation



Dish Elevation (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation

Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle *(deg)*

Description	From *(ft)*	To *(ft)*	Quantity	Shape	Width or Diameter *(in)*	Perimeter *(in)*	Unit Weight *(lb/ft)*	Part of Face Solidity Ratio *(Yes/No)*	Include in Wind Load *(Yes/No)*
Sprint-287.5	5	287.5	6	Round	1.98	6.22	1.64	No	No
Sprint2-287.5	5	287.5	3	Round	1.98	6.22	1.64	Yes	Yes
Verizon-262	5	262	12	Round	1.98	6.22	0.82	Yes	Yes
AT&T-254	5	254	6	Round	2.38	7.48	2.44	No	No
AT&T-254B	5	254	1	Round	3.5	11.00	7.58	No	No
AT&T-254C	5	254	2	Round	0.78	2.45	0.59	No	No
AT&T-254D	5	254	1	Round	0.39	1.23	0.06	No	No
US Treasury-210	5	210.5	1	Round	1.11	3.49	0.33	No	No
Verizon-50	5	50	1	Round	0.63	1.98	0.14	No	No
WG	5	287.5	4	Flat	3	9.42	6.00	No	No

Coax	Dia. (in)	Weight(lb/ft)
1/4"	0.3	0.064
3/8"	0.44	0.084
1/2"	0.63	0.144
7/8"	1.11	0.33
EW90	1.32	0.32
1-1/4"	1.55	0.664
1-5/8"	1.98	0.82
EW63	2.01	0.51
EW52	2.25	0.59
Ladder	3	6
WC281	3.11	5.39

Site #:	88011
Name:	AT&T Mobility

Engineer:	SAW
Date:	11/13/12

Section Label	Section Color	Joint Defining Bottom Section	Dead Load Adj. Factor					Adj. Factor Flat	Adj. Factor Round	Area Multiplier	Weight Multiplier
0.000-37.50		0P	1.543270417					1.286058681	1.286058681	1	1.2
37.50-62.50		1P	1.477923316					1.231602763	1.231602763	1	1.2
62.50-87.50		2P	1.477524377					1.231270314	1.231270314	1	1.2
87.50-112.5		3P	1.549132353					1.290943627	1.290943627	1	1.2
112.5-137.5		4P	1.532600195					1.277166829	1.277166829	1	1.2
137.5-162.5		5P	1.522172553					1.268477128	1.268477128	1	1.2
162.5-187.5		6P	1.504280965					1.253567471	1.253567471	1	1.2
187.5-200.0		7P	1.469456964					1.22454747	1.22454747	1	1.2
200.0-212.5		8P	1.462508988					1.21875749	1.21875749	1	1.2
212.5-225.0		9P	1.455431845					1.212859871	1.212859871	1	1.2
225.0-237.5		10P	1.448242134					1.206868445	1.206868445	1	1.2
237.5-250.0		11P	1.440959783					1.20079982	1.20079982	1	1.2
250.0-260.2		12P	1.323179195					1.202890177	1.202890177	1	1.1
260.2-270.3		13P	1.315938213					1.196307467	1.196307467	1	1.1
270.3-278.9		14P	1.335954564					1.214504149	1.214504149	1	1.1
278.9-287.5		15P	1.284010507					1.167282279	1.167282279	1	1.1

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Group Label	Group Description	Angle Type	Angle Size	Material Type	Element Type	Group Type	Optimize Group
Leg S1	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S2	L 8" x 8" x 1.125"	SAE	8X8X1.13	A 36	Beam	Leg	None
Leg S3	L 8" x 8" x 1"	SAE	8X8X1	A 36	Beam	Leg	None
Leg S4	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S5	L 8" x 8" x 0.875"	SAE	8X8X0.88	A 36	Beam	Leg	None
Leg S6	L 8" x 8" x 0.75"	SAE	8X8X0.75	A 36	Beam	Leg	None
Leg S7	L 8" x 8" x 0.625"	SAE	8X8X0.63	A 36	Beam	Leg	None
Leg S8	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S9	L 6" x 6" x 0.75"	SAE	6X6X0.75	A 36	Beam	Leg	None
Leg S10	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S11	L 6" x 6" x 0.5625"	SAE	6X6X0.56	A 36	Beam	Leg	None
Leg S12	L 6" x 6" x 0.4375"	SAE	6X6X0.44	A 36	Beam	Leg	None
Leg S13	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S14	L 5" x 5" x 0.4375"	SAE	5X5X0.44	A 36	Beam	Leg	None
Leg S15	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Leg S16	L 5" x 5" x 0.3125"	SAE	5X5X0.31	A 36	Beam	Leg	None
Diag S1	B/B L3"x5"x0.3125"	DAS	5X3X0.31	A 36	Beam	Other	None
Diag S2	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	A 36	Beam	Other	None
Diag S3	B/B L2.5"x3.5"x0.25"	DAS	3.5X2.5X0.25	A 36	Beam	Other	None
Diag S4	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
Diag S5	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
Diag S6	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
Diag S7	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
Diag S8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Diag S10	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S11	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S12	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
Diag S13	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S14	L 3.5" x 3.5" x 0.25"	SAE	3.5X3.5X0.25	A 36	Beam	Other	None
Diag S15	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Diag S16	L 3" x 3" x 0.25"	SAE	3X3X0.25	A 36	Beam	Other	None
Horiz 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 2	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	A 36	Beam	Other	None
Horiz 3	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 4	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 5	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 6	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 7	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 8	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 9	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 10	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 11	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 12	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	Beam	Other	None
Horiz 13	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 14	B/B L3"x2.5"x0.25"	DAL	3X2.5X0.25	A 36	Beam	Other	None
Horiz 15	L 3" x 2.5" x 0.25"	SAU	3X2.5X0.25	A 36	Beam	Other	None
Horiz 16	C8x11.5	CHN	C8x11.5	A 36	Beam	Other	None
LD 1	B/B L3.5"x3.5"x0.25"	DAE	3.5X3.5X0.25	A 36	Beam	Other	None
LD 2	B/B L4"x3"x0.25"	DAL	4X3X0.25	A 36	Beam	Other	None
LD 4	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 5	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 6	B/B L3"x2"x0.25"	DAL	3X2X0.25	A 36	Beam	Other	None
LD 7	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 8	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LD 9	B/B L2.5"x2"x0.25"	DAL	2.5X2X0.25	A 36	Beam	Other	None
LH 1	B/B L2.5"x2.5"x0.25"	DAE	2.5X2.5X0.25	A 36	T-Only	Other	None
LH 2	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
LH 3	B/B L2.5"x3"x0.25"	DAS	3X2.5X0.25	A 36	Beam	Other	None
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	A 36	Beam	Fictitious	None

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Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
L 1	Leg S1		XY-Symmetry	0P	1P	1	4	0.250133333	0.250133333	0.250133333
L 2	Leg S2		XY-Symmetry	1P	2P	1	4	0.2812	0.2812	0.2812
L 3	Leg S3		XY-Symmetry	2P	3P	1	4	0.2812	0.2812	0.2812
L 4	Leg S4		XY-Symmetry	3P	4P	1	4	0.333333333	0.333333333	0.333333333
L 5	Leg S5		XY-Symmetry	4P	5P	1	4	0.333333333	0.333333333	0.333333333
L 6	Leg S6		XY-Symmetry	5P	6P	1	4	0.333333333	0.333333333	0.333333333
L 7	Leg S7		XY-Symmetry	6P	7P	1	4	0.333333333	0.333333333	0.333333333
L 8	Leg S8		XY-Symmetry	7P	8P	1	4	0.5	0.5	0.5
L 9	Leg S9		XY-Symmetry	8P	9P	1	4	0.5	0.5	0.5
L 10	Leg S10		XY-Symmetry	9P	10P	1	4	0.5	0.5	0.5
L 11	Leg S11		XY-Symmetry	10P	11P	1	4	0.5	0.5	0.5
L 12	Leg S12		XY-Symmetry	11P	12P	1	4	0.5	0.5	0.5
L 13	Leg S13		XY-Symmetry	12P	13P	1	4	0.5	0.5	0.5
L 14	Leg S14		XY-Symmetry	13P	14P	1	4	0.5	0.5	0.5
L 15	Leg S15		XY-Symmetry	14P	15P	1	4	0.5	0.5	0.5
L 16	Leg S16		XY-Symmetry	15P	16P	1	4	0.5	0.5	0.5
D 1	Diag S1		XY-Symmetry	0P	H2P	1	6	0.316	0.632	0.316
D 2	Diag S1		XY-Symmetry	0P	H1P	1	6	0.316	0.632	0.316
D 3	Diag S2		XY-Symmetry	1P	H6P	1	6	0.32	0.64	0.32
D 4	Diag S2		XY-Symmetry	1P	H5P	1	6	0.32	0.64	0.32
D 5	Diag S3		XY-Symmetry	2P	H10P	1	6	0.32	0.64	0.32
D 6	Diag S3		XY-Symmetry	2P	H9P	1	6	0.32	0.64	0.32
D 7	Diag S4		XY-Symmetry	3P	A7P	1	6	0.3	0.61	0.3
D 8	Diag S4		XY-Symmetry	3P	A8P	1	6	0.3	0.61	0.3
D 9	Diag S5		XY-Symmetry	4P	A9P	1	6	0.3	0.61	0.3
D 10	Diag S5		XY-Symmetry	4P	A10P	1	6	0.3	0.61	0.3
D 11	Diag S6		XY-Symmetry	5P	A11P	1	6	0.32	0.64	0.32
D 12	Diag S6		XY-Symmetry	5P	A12P	1	6	0.32	0.64	0.32
D 13	Diag S7		XY-Symmetry	6P	A13P	1	6	0.32	0.64	0.32
D 14	Diag S7		XY-Symmetry	6P	A14P	1	6	0.32	0.64	0.32
D 15	Diag S8		XY-Symmetry	7P	A15P	1	6	0.5	1	0.5
D 16	Diag S8		XY-Symmetry	7P	A16P	1	6	0.5	1	0.5
D 17	Diag S9		XY-Symmetry	8P	A17P	1	6	0.5	1	0.5
D 18	Diag S9		XY-Symmetry	8P	A18P	1	6	0.5	1	0.5
D 19	Diag S10		XY-Symmetry	9P	A19P	1	6	0.5	1	0.5
D 20	Diag S10		XY-Symmetry	9P	A20P	1	6	0.5	1	0.5
D 21	Diag S11		XY-Symmetry	10P	A21P	1	6	0.5	1	0.5
D 22	Diag S11		XY-Symmetry	10P	A22P	1	6	0.5	1	0.5
D 23	Diag S12		XY-Symmetry	11P	A23P	1	6	0.5	1	0.5
D 24	Diag S12		XY-Symmetry	11P	A24P	1	6	0.5	1	0.5
D 25	Diag S13		XY-Symmetry	12P	13Y	1	5	0.52	0.75	0.52
D 26	Diag S13		XY-Symmetry	12P	13X	1	5	0.52	0.75	0.52
D 27	Diag S14		XY-Symmetry	13P	14Y	1	5	0.52	0.75	0.52
D 28	Diag S14		XY-Symmetry	13P	14X	1	5	0.52	0.75	0.52
D 29	Diag S15		XY-Symmetry	14P	15Y	1	5	0.52	0.75	0.52
D 30	Diag S15		XY-Symmetry	14P	15X	1	5	0.52	0.75	0.52
D 31	Diag S16		XY-Symmetry	15P	16Y	1	5	0.52	0.75	0.52
D 32	Diag S16		XY-Symmetry	15P	16X	1	5	0.52	0.75	0.52
H 1	Horiz 1		XY-Symmetry	1P	A1P	1	6	0.5	0.5	0.5
H 2	Horiz 1		XY-Symmetry	1P	A2P	1	6	0.5	0.5	0.5
H 3	Horiz 2		XY-Symmetry	2P	A3P	1	6	0.94	0.94	0.94
H 4	Horiz 2		XY-Symmetry	2P	A4P	1	6	0.94	0.94	0.94
H 5	Horiz 3		XY-Symmetry	3P	A5P	1	6	0.94	0.94	0.94
H 6	Horiz 3		XY-Symmetry	3P	A6P	1	6	0.94	0.94	0.94
H 7	Horiz 4		XY-Symmetry	4P	A7P	1	5	1	1	1
H 8	Horiz 4		XY-Symmetry	4P	A8P	1	5	1	1	1
H 9	Horiz 5		XY-Symmetry	5P	A9P	1	5	1	1	1
H 10	Horiz 5		XY-Symmetry	5P	A10P	1	5	1	1	1
H 11	Horiz 6		XY-Symmetry	6P	A11P	1	5	1	1	1
H 12	Horiz 6		XY-Symmetry	6P	A12P	1	5	1	1	1
H 13	Horiz 7		XY-Symmetry	7P	A13P	1	5	1	1	1
H 14	Horiz 7		XY-Symmetry	7P	A14P	1	5	1	1	1

Label	Label	Label	Code	Joint	Joint	Code	Code	RLX	RLY	RLZ
H 15	Horiz 8		XY-Symmetry	8P	A15P	1	5	1	1	1
H 16	Horiz 8		XY-Symmetry	8P	A16P	1	5	1	1	1
H 17	Horiz 9		XY-Symmetry	9P	A17P	1	5	1	1	1
H 18	Horiz 9		XY-Symmetry	9P	A18P	1	5	1	1	1
H 19	Horiz 10		XY-Symmetry	10P	A19P	1	5	1	1	1
H 20	Horiz 10		XY-Symmetry	10P	A20P	1	5	1	1	1
H 21	Horiz 11		XY-Symmetry	11P	A21P	1	5	1	1	1
H 22	Horiz 11		XY-Symmetry	11P	A22P	1	5	1	1	1
H 23	Horiz 12		XY-Symmetry	12P	A23P	1	5	1	1	1
H 24	Horiz 12		XY-Symmetry	12P	A24P	1	5	0.5	0.5	0.5
H 25	Horiz 13		Y-Symmetry	13P	13X	1	5	0.5	0.5	0.5
H 26	Horiz 13		X-Symmetry	13P	13Y	1	5	0.5	0.5	0.5
H 27	Horiz 14		Y-Symmetry	14P	14X	1	5	0.5	0.5	0.5
H 28	Horiz 14		X-Symmetry	14P	14Y	1	5	0.5	0.5	0.5
H 29	Horiz 15		Y-Symmetry	15P	15X	1	5	0.5	0.5	0.5
H 30	Horiz 15		X-Symmetry	15P	15Y	1	5	0.5	1	0.5
H 31	Horiz 16		Y-Symmetry	16P	16X	1	5	0.5	1	0.5
H 32	Horiz 16		X-Symmetry	16P	16Y					
H 35	Horiz 2		Y-Symmetry	A3P	A3X	1	5	1	1	1
H 36	Horiz 2		X-Symmetry	A4P	A4Y	1	5	1	1	1
H 37	Horiz 3		Y-Symmetry	A5P	A5X	1	5	1	1	1
H 38	Horiz 3		X-Symmetry	A6P	A6Y	1	5	1	1	1
LH 1	LH 1		Y-Symmetry	H1P	H1X	1	6	0.5	1	0.5
LH 2	LH 1		X-Symmetry	H2P	H2Y	1	6	0.5	1	0.5
LH 3	LH 2		XY-Symmetry	H5P	H7P	1	6	1	2	1
LH 4	LH 2		XY-Symmetry	H6P	H8P	1	6	1	2	1
LH 5	LH 3		XY-Symmetry	H9P	H11P	1	6	1	2	1
LH 6	LH 3		XY-Symmetry	H10P	H12P	1	6	1	2	1
LD 1	LD 1		XY-Symmetry	H1P	1P	1	6	0.9	0.9	0.9
LD 2	LD 1		XY-Symmetry	H2P	1P	1	6	0.9	0.9	0.9
LD 3	LD 2		XY-Symmetry	H1P	A1P	1	6	0.9	0.9	0.9
LD 4	LD 2		XY-Symmetry	H2P	A2P	1	6	0.9	0.9	0.9
LD 7	LD 4		XY-Symmetry	H5P	2P	1	6	0.91	0.91	0.91
LD 8	LD 4		XY-Symmetry	H6P	2P	1	6	0.91	0.91	0.91
LD 9	LD 5		XY-Symmetry	H5P	A3P	1	6	0.91	0.91	0.91
LD 10	LD 5		XY-Symmetry	H6P	A4P	1	6	0.91	0.91	0.91
LD 11	LD 6		XY-Symmetry	A3P	H7P	1	6	0.91	0.91	0.91
LD 12	LD 6		XY-Symmetry	A4P	H8P	1	6	0.91	0.91	0.91
LD 13	LD 7		XY-Symmetry	H9P	3P	1	6	0.91	0.91	0.91
LD 14	LD 7		XY-Symmetry	H10P	3P	1	6	0.91	0.91	0.91
LD 15	LD 8		XY-Symmetry	H9P	A5P	1	6	0.91	0.91	0.91
LD 16	LD 8		XY-Symmetry	H10P	A6P	1	6	0.91	0.91	0.91
LD 17	LD 9		XY-Symmetry	A5P	H11P	1	6	0.91	0.91	0.91
LD 18	LD 9		XY-Symmetry	A6P	H12P					
BR 1	DUM 1		XY-Symmetry	A1P	A2P	1	4	1	1	1
BR 3	DUM 1		XY-Symmetry	A3P	A4P	1	4	1	1	1
BR 4	DUM 1		XY-Symmetry	A3P	A4XY	1	4	1	1	1
BR 5	DUM 1		XY-Symmetry	A5P	A6P	1	4	1	1	1
BR 6	DUM 1		XY-Symmetry	A5P	A6XY	1	4	1	1	1
BR 7	DUM 1		XY-Symmetry	A7P	A8P	1	4	1	1	1
BR 9	DUM 1		XY-Symmetry	A9P	A10P	1	4	1	1	1
BR 11	DUM 1		XY-Symmetry	A11P	A12P	1	4	1	1	1
BR 13	DUM 1		XY-Symmetry	A13P	A14P	1	4	1	1	1
BR 15	DUM 1		XY-Symmetry	A15P	A16P	1	4	1	1	1
BR 17	DUM 1		XY-Symmetry	A17P	A18P	1	4	1	1	1

Label	Label	Label	Code	Joint	Joint	Code	Code	RLX	RLY	RLZ
BR 19	DUM 1		XY-Symmetry	A19P	A20P	1	4	1	1	1
BR 21	DUM 1		XY-Symmetry	A21P	A22P	1	4	1	1	1
BR 23	DUM 1		XY-Symmetry	A23P	A24P	1	4	1	1	1
BR 61	DUM 1		XY-Symmetry	H1P	H2P	1	4	1	1	1
BR 62	DUM 1		XY-Symmetry	H1P	H2XY	1	4	1	1	1
BR 64	DUM 1		XY-Symmetry	H5P	H6P	1	4	1	1	1
BR 65	DUM 1		XY-Symmetry	H5P	H6XY	1	4	1	1	1
BR 66	DUM 1		XY-Symmetry	H7P	H8P	1	4	1	1	1
BR 67	DUM 1		XY-Symmetry	H9P	H10P	1	4	1	1	1
BR 68	DUM 1		XY-Symmetry	H9P	H10XY	1	4	1	1	1
BR 69	DUM 1		XY-Symmetry	H11P	H12P	1	4	1	1	1

Site #:	88011
Name:	AT&T Mobility

Engineer:	SAW
Date:	11/13/12

Ar: 1 (No round members)

Taper: -0.12173913
Base FW: 44

Leg	Lower H	Top H	Diag	Diag 1	Diag 2	Diag 3	Face Width Base	Face Width Top
37.56940647	19.7173913	39.43478261	30.62916374	13.60802263	13.60802263	0	44	39.43478261
25.04627098	19.80841739	36.39130435	20.47484926	10.87055357	8.009915994	9.284813515	39.43478261	36.39130435
25.04627098	18.22337391	33.34782609	20.13552393	10.32512292	7.877169352	8.961693021	36.39130435	33.34782609
25.04627098	0	30.30434783	30.0502808	0	0	0	33.34782609	30.30434783
25.04627098	0	27.26086957	29.23334354	0	0	0	30.30434783	27.26086957
25.04627098	0	24.2173913	28.47435254	0	0	0	27.26086957	24.2173913
25.04627098	0	21.17391304	27.77805807	0	0	0	24.2173913	21.17391304
12.52313549	0	19.65217391	16.38089278	0	0	0	21.17391304	19.65217391
12.52313549	0	18.13043478	15.89974795	0	0	0	19.65217391	18.13043478
12.52313549	0	16.60869565	15.44111934	0	0	0	18.13043478	16.60869565
12.52313549	0	15.08695652	15.00707143	0	0	0	16.60869565	15.08695652
12.52313549	0	13.56521739	14.59979672	0	0	0	15.08695652	13.56521739
10.18551693	0	12.32753217	16.46117884	0	0	0	13.56521739	12.32753217
10.18551693	0	11.08984696	15.50661795	0	0	0	12.32753217	11.08984696
8.599186308	0	10.04492348	13.61406145	0	0	0	11.08984696	10.04492348
8.599186308	0	9	12.81991874	0	0	0	10.04492348	9
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		
	0			0	0	0		

Area Total	Area Modeled	Ratio	Drop Sub-Brace
126.0681574	98.02675357	1.286058681	0
85.19780635	69.17636831	1.231602763	0
80.32395002	65.23664957	1.231270314	0
69.05524077	53.49206526	1.290943627	0
66.91179853	52.39080517	1.277166829	0
63.81027432	50.30463138	1.268477128	0
61.90172672	49.38045072	1.253567471	0
28.70671169	23.44271038	1.22454747	0
27.94026455	22.92520438	1.21875749	0
27.18877692	22.41708014	1.212859871	0
26.45358824	21.91919786	1.206868445	0
25.7361074	21.43247108	1.20079982	0
25.46779309	21.17216814	1.202890177	0
24.29212329	20.30591965	1.196307467	0
20.02019024	16.48425019	1.214504149	0
22.85065714	19.57594796	1.167282279	0

Taper change: 287.5
Top FW: 9

	$H_{@ base}$	$H_{section}$	Type	Leg	Lower H	Top H	Diag	Diag 1	Diag 2	Diag 3
1	0	37.5	1	8	2.5	3.5	3	3.5	4	0
2	37.5	25	2	8	2.5	3.5	2.5	2.5	2.5	3
3	62.5	25	2	8	2.5	3	2.5	2.5	2.5	2.5
4	87.5	25	A	8	0	3	2.5	0	0	0
5	112.5	25	A	8	0	3	2.5	0	0	0
6	137.5	25	A	8	0	2.5	2.5	0	0	0
7	162.5	25	A	8	0	2.5	2.5	0	0	0
8	187.5	12.5	A	6	0	2.5	2.5	0	0	0
9	200	12.5	A	6	0	2.5	2.5	0	0	0
10	212.5	12.5	A	6	0	2.5	2.5	0	0	0
11	225	12.5	A	6	0	2.5	2.5	0	0	0
12	237.5	12.5	A	6	0	2.5	2.5	0	0	0
13	250	10.1667	X	5	0	3	3.5	0	0	0
14	260.1667	10.1667	X	5	0	3	3.5	0	0	0
15	270.3334	8.5833	X	5	0	3	3	0	0	0
16	278.9167	8.5833	X	5	0	8	3	0	0	0
17				0	0	0	0	0	0	0
18				0	0	0	0	0	0	0
19				0	0	0	0	0	0	0
20				0	0	0	0	0	0	0
21				0	0	0	0	0	0	0
22				0	0	0	0	0	0	0
23				0	0	0	0	0	0	0
24				0	0	0	0	0	0	0
25				0	0	0	0	0	0	0
26				0	0	0	0	0	0	0
27				0	0	0	0	0	0	0
28				0	0	0	0	0	0	0
29				0	0	0	0	0	0	0
30				0	0	0	0	0	0	0
31				0	0	0	0	0	0	0
32				0	0	0	0	0	0	0
33				0	0	0	0	0	0	0
34				0	0	0	0	0	0	0
35				0	0	0	0	0	0	0
36				0	0	0	0	0	0	0
37				0	0	0	0	0	0	0
38				0	0	0	0	0	0	0
39				0	0	0	0	0	0	0
40				0	0	0	0	0	0	0

$FW_{@ base}$	Area Modeled
	98.02675357
	69.17636831
	65.23664957
	53.49206526
	52.39080517
	50.30463138
	49.38045072
	23.44271038
	22.92520438
	22.41708014
	21.91919786
	21.43247108
	21.17216814
	20.30591965
	16.48425019
	19.57594796

H1	H2	H3	H4	H5	H6	D1	D2	D3	D4	D5	V1	Drop	Face Width @H1	@H2	@H3	@H4	@H5	@H6
10.42965217	6.953101449	3.476550725	0	0	0	11.34003225	9.813471036	0	0	0	9.38	9.38	40.57669565	41.7177971	42.85889855			
8.719356522	5.812904348	2.906452174	0	0	0	8.097161571	6.507001481	0	0	0	0	7.03	37.24713043	37.97634783	38.70556522			
7.99013913	5.32675942	2.66337971	0	0	0	7.778369997	6.415952632	0	0	0	0	7.03	34.20365217	34.93286957	35.66208696			
10.10144928	5.050724638	0	0	0	0	12.70799645	9.491450845	0	0	0	0		31.31884058	32.33333333				
9.086956522	4.543478261	0	0	0	0	11.96059658	9.259352692	0	0	0	0		28.27536232	29.28985507				
8.072463768	4.036231884	0	0	0	0	11.2550859	9.049761497	0	0	0	0		25.23188406	26.24637681				
7.057971014	3.528985507	0	0	0	0	10.59983197	8.864273902	0	0	0	0		22.1884058	23.20289855				
4.913043478	0	0	0	0	0	7.720559668	0	0	0	0	0		20.41304348					
4.532608696	0	0	0	0	0	7.503535714	0	0	0	0	0		18.89130435					
4.152173913	0	0	0	0	0	7.29989836	0	0	0	0	0		17.36956522					
3.77173913	0	0	0	0	0	7.110797788	0	0	0	0	0		15.84782609					
3.391304348	0	0	0	0	0	6.937422831	0	0	0	0	0		14.32608696					
6.473187391	0	0	0	0	0	0	0	0	0	0	5.08335		12.94637478					
5.854344783	0	0	0	0	0	0	0	0	0	0	5.08335		11.70868957					
5.283692609	0	0	0	0	0	0	0	0	0	0	4.29165		10.56738522					
4.76123087	0	0	0	0	0	0	0	0	0	0	4.29165		9.522461739					
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							
0	0	0	0	0	0	0	0	0	0	0	0							

- Yellow Shade Denotes Value Assumed

	$H_{@ base}$	$H_{section}$	Section	$FW_{@ base}$	$FW_{@ top}$	H1	H2	H3	H4	H5	H6	D1	D2	D3	D4	D5	V1	Area Missing	Sub FW
1	0	37.5	1	44	39.43478261	3	3	3	3	3	3	3	3	3	3	3	3	28.04140382	
2	37.5	25	2	39.43478261	36.39130435	3	3	3	3	3	3	3	3	3	3	3	3	16.02143805	
3	62.5	25	3	36.39130435	33.34782609	3	3	3	3	3	3	3	3	3	3	3	3	15.08730045	
4	87.5	25	4	33.34782609	30.30434783	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	15.5631755	
5	112.5	25	5	30.30434783	27.26086957	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	14.52099336	
6	137.5	25	6	27.26086957	24.2173913	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	13.50564294	
7	162.5	25	7	24.2173913	21.17391304	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	12.521276	
8	187.5	12.5	8	21.17391304	19.65217391	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.264001311	
9	200	12.5	9	19.65217391	18.13043478	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.01506017	
10	212.5	12.5	10	18.13043478	16.60869565	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.77169678	
11	225	12.5	11	16.60869565	15.08695652	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.534390383	
12	237.5	12.5	12	15.08695652	13.56521739	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.303636325	
13	250	10.1667	13	13.56521739	12.32753217	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.295624946	
14	260.1667	10.1667	14	12.32753217	11.08984696	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.986203641	
15	270.3334	8.5833	15	11.08984696	10.04492348	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.535940054	
16	278.9167	8.5833	16	10.04492348	9	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.274709185	
17			17	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
18			18	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
19			19	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
20			20	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
21			21	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
22			22	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
23			23	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
24			24	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
25			25	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
26			26	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
27			27	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
28			28	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
29			29	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
30			30	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
31			31	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
32			32	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
33			33	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
34			34	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
35			35	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
36			36	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
37			37	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
38			38	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
39			39	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	
40			40	9	9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	

Point Loads

Tower Height:	287.5	ft
Gh:	1.09	
Wind Speed:	85.00	mph
Wind Speed (Ice):	73.61	mph
Radial Ice Diameter:	0.5	in

Site No.:	88011
Engineer:	SAW
Date:	11/13/2012
Carrier:	AT&T Mobility

KS-15676 Horn Antennas: ~128 ft²

No.	Carrier	Elevation (ft)	Quantity	Number of Azimuths	Model	Height (in)	Width (in)	Depth (in)	Weight (lbs/ea)	Flat/Round (F|R)	Reduction Factor	C_AA_C (ft²/ea)	Weight (k/ea)	H/W	C_A	q_z (psf)	q_z (Ice) (psf)
1		287.5	-		-									0.00	0.00	34.33	25.75
			1	4	Platform						1.000	60.00	6.00	-	-		
2		270	-		-									0.00	0.00	33.72	25.29
			1	4	Catwalk						1.000	50.00	4.50	-	-		
3		237.5	-		-									0.00	0.00	32.51	24.38
			1	1	Rest Platform						1.000	15.00	0.50	-	-		
4		200	-		-									0.00	0.00	30.95	23.21
			1	4	Platform						1.000	40.00	4.50	-	-		
5		187.5	-		-									0.00	0.00	30.38	22.79
			1	1	Rest Platform						1.000	15.00	0.50	-	-		
6		137.5	-		-									0.00	0.00	27.81	20.85
			1	1	Rest Platform						1.000	15.00	0.50	-	-		
7		87.5	-		-									0.00	0.00	24.44	18.33
			1	4	Platform						1.000	40.00	4.50	-	-		
8		37.5	-		-									0.00	0.00	19.18	14.39
			1	1	Rest Platform						1.000	15.00	0.50	-	-		
9																	
10	Sprint Nextel	306	3	3	36" x 8" Panel	36	8	4	20	F	0.670			4.50	1.40	34.95	26.21
	Sprint Nextel		3	3	Sector Frame						0.670	17.90	0.50	-	-		
11	Sprint Nextel	306	3	3	72" x 12" Panel	72	12	6	45	F	0.670			6.00	1.40	34.95	26.21
	Sprint Nextel		1	3	-						1.000	0.00	0.00	-	-		
12	Sprint Nextel	306	6	3	14" x 9" TTA	14	9	6	10	F	0.500			1.56	1.40	34.95	26.21
	Sprint Nextel		1	3	-						1.000	0.00	0.00	-	-		
13	Sprint Nextel	306	9	3	Decibel DB846G90A-XY	72	8	6.5	15.4	F	0.750			9.00	1.47	34.95	26.21
	Sprint Nextel		1	3	-						1.000	0.00	0.00	-	-		
14	Verizon	267	3	3	Antel BXA-70063-6CF-EDIN-X	71	11.2	5.2	17	F	0.660			6.34	1.40	33.61	25.21
	Verizon		3	3	Sector Frame						0.670	17.90	0.50	-	-		
15	Verizon	267	6	3	Antel LPA-80063-4CF-EDIN-X	47.4	15.2	13.1	20	F	0.750			3.12	1.40	33.61	25.21
	Verizon		1	3	-						1.000	0.00	0.00	-	-		
16	Verizon	267	3	3	Antel BXA-171063-8BF-EDIN-X	48.5	6.1	4.1	10.5	F	0.710			7.95	1.43	33.61	25.21
	Verizon		3	3	-						1.000	0.00	0.00	-	-		
17	Verizon	267	6	3	RFS FD9R6004/2C-3L	5.8	6.5	1.5	2.6	F	0.500			0.89	1.40	33.61	25.21
	Verizon		1	3	-						1.000	0.00	0.00	-	-		
18	AT&T Mobility	254	9	3	77" x 14" Panel	77	14	7	35	F	0.670			5.50	1.40	33.14	24.85
	AT&T Mobility		3	3	Sector Frame						0.670	17.90	0.50	-	-		
19	AT&T Mobility	254	6	3	14" x 9" TTA	14	9	6	10	F	0.500			1.56	1.40	33.14	24.85
	AT&T Mobility		1	3	-						1.000	0.00	0.00	-	-		
20	US Treasury	210.5	1	1	Decibel DB264	258	3	3	36	R	1.000			86.00	1.20	31.41	23.55
	US Treasury		1	1	Side Arm						1.000	5.20	0.30	-	-		
21	Verizon	50	1	1	MicroPulse GPS-QBW-26N	5	3.2	3.2	0.6	R	1.000			1.56	0.80	20.83	15.62
	Verizon		1	1	Standoff						1.000	3.00	0.10	-	-		
22	AT&T Mobility	254	1	3	Raycap DC2-48-60-0-9E	10.2	10.2	6.2	16	F	1.000			1.00	1.40	33.14	24.85
	AT&T Mobility		1	3	-						1.000	0.00	0.00	-	-		
23	AT&T Mobility	254	6	3	Ericsson RRUS-11	25	18.2	6.7	55	F	0.690			1.37	1.40	33.14	24.85
	AT&T Mobility		1	3	-						1.000	0.00	0.00	-	-		
24	AT&T Mobility	254	1	3	Kathrein 800 10766	96	11.8	6	61.7	F	0.800			8.14	1.44	33.14	24.85
	AT&T Mobility		1	3	-						1.000	0.00	0.00	-	-		
25	AT&T Mobility	254	2	3	KMW AM-X-CD-17-65-00T-RET	96	11.8	6	59.5	F	0.800			8.14	1.44	33.14	24.85
	AT&T Mobility		1	3	-						1.000	0.00	0.00	-	-		
26																	
27																	
28																	
29																	
30																	

No.	Elevation (ft)	C_AA_C (ft^2)	C_AA_C (Ice) (ft^2)	Force (k)	Force (Ice) (k)	Weight (k)	Weight (Ice) (k)	Σ Force (k)	Σ Force (Ice) (k)	Σ Weight (k)	Σ Weight (Ice) (k)
1	287.5	0.00	0.00	0.000	0.000	0.000	0.000	2.25	2.27	6.00	7.80
		60.00	81.00	2.246	2.274	6.000	7.800				
2	270	0.00	0.00	0.000	0.000	0.000	0.000	1.84	1.86	4.50	5.85
		50.00	67.50	1.838	1.861	4.500	5.850				
3	237.5	0.00	0.00	0.000	0.000	0.000	0.000	0.53	0.54	0.50	0.65
		15.00	20.25	0.532	0.538	0.500	0.650				
4	200	0.00	0.00	0.000	0.000	0.000	0.000	1.35	1.37	4.50	5.85
		40.00	54.00	1.350	1.367	4.500	5.850				
5	187.5	0.00	0.00	0.000	0.000	0.000	0.000	0.50	0.50	0.50	0.65
		15.00	20.25	0.497	0.503	0.500	0.650				
6	137.5	0.00	0.00	0.000	0.000	0.000	0.000	0.45	0.46	0.50	0.65
		15.00	20.25	0.455	0.460	0.500	0.650				
7	87.5	0.00	0.00	0.000	0.000	0.000	0.000	1.07	1.08	4.50	5.85
		40.00	54.00	1.066	1.079	4.500	5.850				
8	37.5	0.00	0.00	0.000	0.000	0.000	0.000	0.31	0.32	0.50	0.65
		15.00	20.25	0.314	0.318	0.500	0.650				
9											
10	306	5.63	6.51	0.214	0.186	0.060	0.110	1.59	1.57	1.56	2.06
		35.98	48.57	1.371	1.388	1.500	1.950				
11	306	16.88	18.55	0.643	0.530	0.135	0.277	0.64	0.53	0.14	0.28
		0.00	0.00	0.000	0.000	0.000	0.000				
12	306	3.68	4.38	0.140	0.125	0.060	0.117	0.14	0.13	0.06	0.12
		0.00	0.00	0.000	0.000	0.000	0.000				
13	306	39.60	45.17	1.509	1.291	0.139	0.484	1.51	1.29	0.14	0.48
		0.00	0.00	0.000	0.000	0.000	0.000				
14	267	15.31	16.91	0.561	0.465	0.051	0.178	1.88	1.80	1.55	2.13
		35.98	48.57	1.319	1.335	1.500	1.950				
15	267	31.52	34.30	1.155	0.943	0.120	0.434	1.16	0.94	0.12	0.43
		0.00	0.00	0.000	0.000	0.000	0.000				
16	267	6.27	7.44	0.230	0.205	0.032	0.088	0.23	0.20	0.03	0.09
		0.00	0.00	0.000	0.000	0.000	0.000				
17	267	1.10	1.49	0.040	0.041	0.016	0.029	0.04	0.04	0.02	0.03
		0.00	0.00	0.000	0.000	0.000	0.000				
18	254	63.20	68.59	2.283	1.859	0.315	0.844	3.58	3.17	1.82	2.79
		35.98	48.57	1.300	1.316	1.500	1.950				
19	254	3.68	4.38	0.133	0.119	0.060	0.117	0.13	0.12	0.06	0.12
		0.00	0.00	0.000	0.000	0.000	0.000				
20	210.5	6.45	8.63	0.221	0.222	0.036	0.095	0.40	0.40	0.34	0.49
		5.20	7.02	0.178	0.180	0.300	0.390				
21	50	0.09	0.14	0.002	0.002	0.001	0.002	0.07	0.07	0.10	0.13
		3.00	4.05	0.068	0.069	0.100	0.130				
22	254	1.01	1.22	0.037	0.033	0.016	0.024	0.04	0.03	0.02	0.02
		0.00	0.00	0.000	0.000	0.000	0.000				
23	254	18.31	20.09	0.662	0.544	0.330	0.485	0.66	0.54	0.33	0.48
		0.00	0.00	0.000	0.000	0.000	0.000				
24	254	9.05	9.92	0.327	0.269	0.062	0.123	0.33	0.27	0.06	0.12
		0.00	0.00	0.000	0.000	0.000	0.000				
25	254	18.10	19.84	0.654	0.538	0.119	0.242	0.65	0.54	0.12	0.24
		0.00	0.00	0.000	0.000	0.000	0.000				
26											
27											
28											
29											
30											

Carrier: AT&T Mobility

Date: 11/13/12

Load Case Description	Dead Load Factor	Wind Load Factor	Ice Load Factor	Strength Factor	Allowable Stress Inc. Factor	Basic Wind Speed	Wind Dir.	Ice Thick.	Ice Density	Temp.	Point Loads
W 0	1.1	1	1	1	1.333333333	85	0	0	56	50	
W 180	1.1	1	1	1	1.333333333	85	180	0	56	50	
W 45	1.1	1	1	1	1.333333333	85	45	0	56	50	
W -45	1.1	1	1	1	1.333333333	85	-45	0	56	50	
W 90	1.1	1	1	1	1.333333333	85	90	0	56	50	
W -90	1.1	1	1	1	1.333333333	85	-90	0	56	50	
W 0 Ice	1.1	1	1	1	1.333333333	73.61	0	0.5	56	10	
W 180 Ice	1.1	1	1	1	1.333333333	73.61	180	0.5	56	10	
W 45 Ice	1.1	1	1	1	1.333333333	73.61	45	0.5	56	10	
W -45 Ice	1.1	1	1	1	1.333333333	73.61	-45	0.5	56	10	
W 90 Ice	1.1	1	1	1	1.333333333	73.61	90	0.5	56	10	
W -90 Ice	1.1	1	1	1	1.333333333	73.61	-90	0.5	56	10	

Angle: 0

No Ice

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)	Moment X-Axis (ft-lbs)	Moment Y-Axis (ft-lbs)	Moment Z-Axis (ft-lbs)
16P	561.52	0.00	1500			
16X	561.52	0.00	1500			
16Y	561.52	0.00	1500			
16XY	561.52	0.00	1500			
14P	459.61	0.00	1125			
14X	459.61	0.00	1125			
14Y	459.61	0.00	1125			
14XY	459.61	0.00	1125			
11P	531.69	0.00	500			
11X	0.00	0.00	0			
11Y	0.00	0.00	0			
11XY	0.00	0.00	0			
8P	337.47	0.00	1125			
8X	337.47	0.00	1125			
8Y	337.47	0.00	1125			
8XY	337.47	0.00	1125			
7P	496.96	0.00	500			
7X	0.00	0.00	0			
7Y	0.00	0.00	0			
7XY	0.00	0.00	0			
5P	454.82	0.00	500			
5X	0.00	0.00	0			
5Y	0.00	0.00	0			
5XY	0.00	0.00	0			
3P	266.48	0.00	1125			
3X	266.48	0.00	1125			
3Y	266.48	0.00	1125			
3XY	266.48	0.00	1125			
1P	313.77	0.00	500			
1X	0.00	0.00	0			
1Y	0.00	0.00	0			
1XY	0.00	0.00	0			

With Ice

Joint Label	Force X-Dir (lbs)	Force Y-Dir (lbs)	Force Vertical (lbs)
16P	568.50	0.00	1950
16X	568.50	0.00	1950
16Y	568.50	0.00	1950
16XY	568.50	0.00	1950
14P	465.33	0.00	1462.5
14X	465.33	0.00	1462.5
14Y	465.33	0.00	1462.5
14XY	465.33	0.00	1462.5
11P	538.30	0.00	650
11X	0.00	0.00	0
11Y	0.00	0.00	0
11XY	0.00	0.00	0
8P	341.67	0.00	1462.5
8X	341.67	0.00	1462.5
8Y	341.67	0.00	1462.5
8XY	341.67	0.00	1462.5
7P	503.14	0.00	650
7X	0.00	0.00	0
7Y	0.00	0.00	0
7XY	0.00	0.00	0
5P	460.48	0.00	650
5X	0.00	0.00	0
5Y	0.00	0.00	0
5XY	0.00	0.00	0
3P	269.79	0.00	1462.5
3X	269.79	0.00	1462.5
3Y	269.79	0.00	1462.5
3XY	269.79	0.00	1462.5
1P	317.63	0.00	650
1X	0.00	0.00	0
1Y	0.00	0.00	0
1XY	0.00	0.00	0

16P	528.51	0.00	520
16X	528.51	0.00	520
16Y	528.51	0.00	520
16XY	0.00	0.00	0
14P	214.47	0.00	45
14X	214.47	0.00	45
14Y	214.47	0.00	45
14XY	0.00	0.00	0
16P	46.68	0.00	20
16X	46.68	0.00	20
16Y	46.68	0.00	20
16XY	0.00	0.00	0
16P	503.02	0.00	46.2
16X	503.02	0.00	46.2
16Y	503.02	0.00	46.2
16XY	0.00	0.00	0
14P	626.58	0.00	517
14X	626.58	0.00	517
14Y	626.58	0.00	517
14XY	0.00	0.00	0
14P	385.10	0.00	40
14X	385.10	0.00	40
14Y	385.10	0.00	40
14XY	0.00	0.00	0
14P	76.54	0.00	10.5
14X	76.54	0.00	10.5
14Y	76.54	0.00	10.5
14XY	0.00	0.00	0
14P	13.43	0.00	5.2
14X	13.43	0.00	5.2
14Y	13.43	0.00	5.2
14XY	0.00	0.00	0
13P	1194.50	0.00	605
13X	1194.50	0.00	605
13Y	1194.50	0.00	605
13XY	0.00	0.00	0
13P	44.26	0.00	20
13X	44.26	0.00	20
13Y	44.26	0.00	20
13XY	0.00	0.00	0
9P	398.95	0.00	336
9X	0.00	0.00	0
9Y	0.00	0.00	0
9XY	0.00	0.00	0
2P	70.15	0.00	100.6
2X	0.00	0.00	0
2Y	0.00	0.00	0
2XY	0.00	0.00	0
13P	12.18	0.00	5.333333333
13X	12.18	0.00	5.333333333
13Y	12.18	0.00	5.333333333
13XY	0.00	0.00	0
13P	220.57	0.00	110
13X	220.57	0.00	110
13Y	220.57	0.00	110
13XY	0.00	0.00	0
13P	108.99	0.00	20.56666667
13X	108.99	0.00	20.56666667
13Y	108.99	0.00	20.56666667
13XY	0.00	0.00	0
13P	217.97	0.00	39.66666667
13X	217.97	0.00	39.66666667
13Y	217.97	0.00	39.66666667
13XY	0.00	0.00	0

16P	524.70	0.00	686.625
16X	524.70	0.00	686.625
16Y	524.70	0.00	686.625
16XY	0.00	0.00	0
16P	176.67	0.00	92.28240741
16X	176.67	0.00	92.28240741
16Y	176.67	0.00	92.28240741
16XY	0.00	0.00	0
16P	41.68	0.00	39.05555556
16X	41.68	0.00	39.05555556
16Y	41.68	0.00	39.05555556
16XY	0.00	0.00	0
16P	430.29	0.00	161.2625
16X	430.29	0.00	161.2625
16Y	430.29	0.00	161.2625
16XY	0.00	0.00	0
14P	599.96	0.00	709.4874074
14X	599.96	0.00	709.4874074
14Y	599.96	0.00	709.4874074
14XY	0.00	0.00	0
14P	314.30	0.00	144.8211111
14X	314.30	0.00	144.8211111
14Y	314.30	0.00	144.8211111
14XY	0.00	0.00	0
14P	68.19	0.00	29.27717593
14X	68.19	0.00	29.27717593
14Y	68.19	0.00	29.27717593
14XY	0.00	0.00	0
14P	13.63	0.00	9.798611111
14X	13.63	0.00	9.798611111
14Y	13.63	0.00	9.798611111
14XY	0.00	0.00	0
13P	1058.29	0.00	931.3611111
13X	1058.29	0.00	931.3611111
13Y	1058.29	0.00	931.3611111
13XY	0.00	0.00	0
13P	39.52	0.00	39.05555556
13X	39.52	0.00	39.05555556
13Y	39.52	0.00	39.05555556
13XY	0.00	0.00	0
9P	402.01	0.00	485.0462963
9X	0.00	0.00	0
9Y	0.00	0.00	0
9XY	0.00	0.00	0
2P	71.36	0.00	132.1707407
2X	0.00	0.00	0
2Y	0.00	0.00	0
2XY	0.00	0.00	0
13P	11.02	0.00	8.121666667
13X	11.02	0.00	8.121666667
13Y	11.02	0.00	8.121666667
13XY	0.00	0.00	0
13P	181.49	0.00	161.5498148
13X	181.49	0.00	161.5498148
13Y	181.49	0.00	161.5498148
13XY	0.00	0.00	0
13P	89.59	0.00	41.0308642
13X	89.59	0.00	41.0308642
13Y	89.59	0.00	41.0308642
13XY	0.00	0.00	0
13P	179.17	0.00	80.59506173
13X	179.17	0.00	80.59506173
13Y	179.17	0.00	80.59506173
13XY	0.00	0.00	0

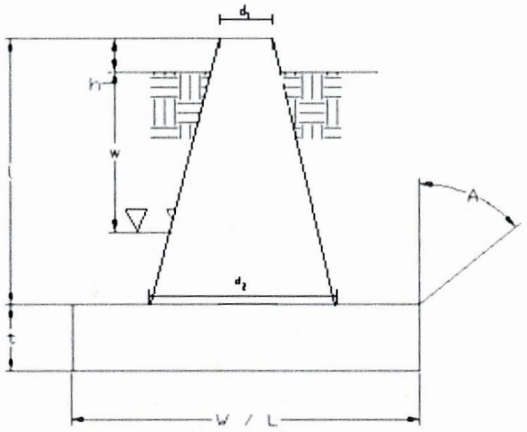
Foundation

Site No.:	88011
Engineer:	SAW
Date:	11/13/12
Carrier:	AT&T Mobility

Design Loads (Unfactored)

Compression/Leg:	423.08	k
Uplift/Leg:	327.25	k

Face Width @ Top of Pier (d_1):	3.50	ft
Face Width @ Bottom of Pier (d_2):	7.50	ft
Total Length of Pier (l):	8.50	ft
Height of Pedestal Above Ground (h):	0.50	ft
Width of Pad (W):	14.75	ft
Length of Pad (L):	14.75	ft
Thickness of Pad (t):	3.25	ft
Water Table Depth (w):	30	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	110.0	pcf
Unit Weight of Soil (Below Water Table):	55.0	pcf
Friction Angle of Uplift (A):	30	°
Allowable Compressive Bearing Pressure:	2000	psf



Volume Pier (Total):	268.46	ft^3
Volume Pad (Total):	707.08	ft^3
Volume Soil (Total):	2747.35	ft^3
Volume Pier (Buoyant):	0.00	ft^3
Volume Pad (Buoyant):	0.00	ft^3
Volume Soil (Buoyant):	0.00	ft^3
Weight Pier:	40.27	k
Weight Pad:	106.06	k
Weight Soil:	302.21	k

Uplift Check

TIA Case 1: $\frac{\text{Wt. Soil} + \text{Wt. Concrete}}{1.5}$

TIA Case 2: $\frac{\text{Wt. Soil}}{2.0} + \frac{\text{Wt. Concrete}}{1.25}$

	Allowable Uplift (k)	Ratio	Result
TIA Case 1:	356.55	0.92	OK
TIA Case 2:	325.69	1.00	OK

Axial Check

Allowable Axial: $\text{Allowable Bearing Pressure} * W * L$

	Allowable Axial (k)	Ratio	Result
	435.13	0.97	OK

Anchor Bolt Check

Bolt Description	Allowable Uplift (k)	Ratio	Result
(6) 2 1/4" A36	456.61	0.72	OK

PROJECT INFORMATION

SCOPE OF WORK:	TELECOMMUNICATIONS FACILITY UPGRADE (LTE): 1. INSTALL (3) NEW LTE ANTENNAS, (6) RRH'S, (1) FIBER & POWER CONNECTOR (1) FIBER LINE, (2) DC POWER LINES, (1) GPS ANTENNA & (3) SURGE ARRESTORS 2. INSTALL (1) LTE 6601 CABINET
SITE ADDRESS:	1375 NORTH ROAD DAYVILLE, CT 06241
LATITUDE: LONGITUDE:	41.87150 N 41° 52' 17.4" N 71.82153 W 71° 49' 17.5" W
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

at&t

SITE NUMBER: CT1289
SITE NAME: KILLINGLY CT82 NORTH ROAD

DRAWING INDEX

		REV
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
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A-3	DETAILS	1
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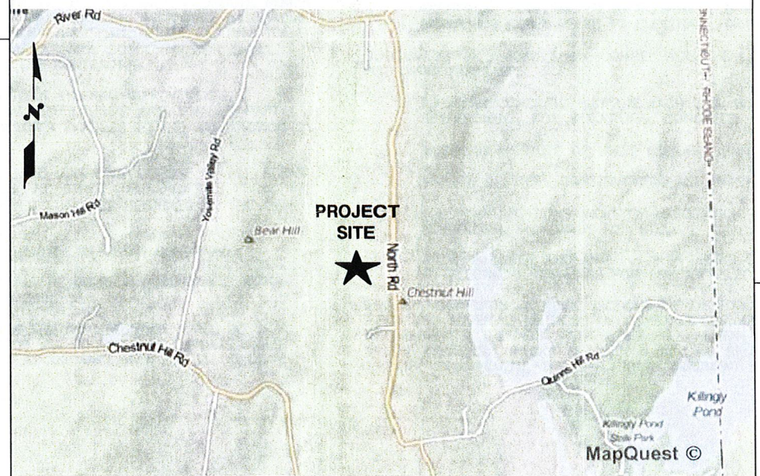
VICINITY MAP

DIRECTIONS TO SITE:

START OUT GOING NORTHEAST ON ENTERPRISE DR TOWARD CAPITOL BLVD. TURN LEFT ONTO CAPITOL BLVD. TURN LEFT ONTO WEST ST. MERGE ONTO I-91 N VIA THE RAMP ON THE LEFT TOWARD HARTFORD 4.5 MILES. MERGE ONTO CT-3 N VIA EXIT 25 TOWARD GLASTONBURY. MERGE ONTO CT-2 E TOWARD NORWICH 32.8 MILES. MERGE ONTO I-395 N VIA EXIT 28N TOWARD PROVIDENCE 27.5 MILES. TAKE THE CT-101 EXIT, EXIT 93, TOWARD DAYVILLE/E. KILLINGLY. TURN RIGHT ONTO CT-101/HARTFORD PIKE. TURN LEFT ONTO NORTH RD. TURN LEFT TO STAY ON NORTH RD. 1375 NORTH RD IS ON THE LEFT.



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3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL

BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455 OR DIAL 811

UNDERGROUND SERVICE ALERT

Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 3090
N. ANDOVER, MA 01845
TEL: (978) 557-5553
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NEXLINK GLOBAL SERVICES
a UniTek GLOBAL SERVICES company
800 MARSHALL PHELPS ROAD UNIT#: 2A
WINDSOR, CT 06095

SITE NUMBER: CT1289
SITE NAME: KILLINGLY CT82
NORTH ROAD
1375 NORTH ROAD
DAYVILLE, CT 06241
WINDHAM COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	09/24/12	ISSUED FOR PERMITTING	CG	DC	DPH
0	08/07/12	ISSUED FOR REVIEW	RM	DC	DPH

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: RM

DEREK J. CREAGER — STATE OF CONNECTICUT — LICENSED PROFESSIONAL ENGINEER

AT&T

TITLE SHEET (LTE)

JOB NUMBER	DRAWING NUMBER	REV
1289.01	T-1	1

CENTEK engineering

Centered on Solutions℠

February 3, 2015

Mr. Eric Campbell
SAI Communications
27 Northwestern Drive
Salem, NH 03079

Re: Tower Modification Certification

Project:	**AT&T CT2550** 6 Mountain Road, Washington, CT
Tower Owner:	**Verizon Wireless** 99 East River Drive, East Hartford, CT
Engineer:	**Centek Engineering** 63-2 North Branford Road, Branford, CT

Centek Project No.: 14042.011

CSC Exempt Mod Reference No.: EM-CING-150-130625

Dear Mr. Campbell,

We are providing this "Tower Modification Certification" with regard to the structural components at the above referenced project.

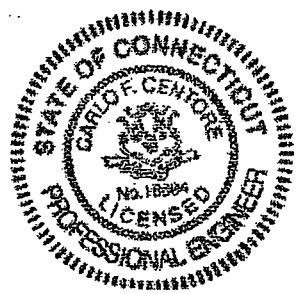
The following are the basis for substantiating compliance with the tower modification documents prepared by Centek Engineering (Centek Project Number: 13046.000):

- Review of the Centek Engineering Structural Analysis dated 05/07/2013 Rev-1.
- Review of the Centek Engineering Structural Analysis dated 08/19/2013 Rev-3.
- Review of the Centek Engineering Reinforcement Drawings T-1,N-1, N-2, MI-1 and thru S-1 thru S-3 dated 05/07/2013.
- Review of the Centek Engineering Post Modification Inspection Report dated 01/28/2014.
- Field observations by Centek Engineering personnel on 01/27/2014 of the completed modifications which determined all modifications were installed in general compliance with the recommendations of the structural analysis report prepared by Centek Engineering on 08/19/2013 Rev-3.

The modification design prepared by this office demonstrates the tower will not exceed 100 percent of the post construction structural rating. The work under this Contract has been reviewed and found, to be completed in general compliance with the documents referenced above.

Sincerely,

Carlo F. Centore, PE
Senior Project Manager



EM/TS #	Address	Town	Council Additional Conditions	Compliance with Council Additional Conditions Received	Notice of Completion Received	Decision Date	CSC Extension Granted
EM-CING-069-130123	1375 North Road	Dayville	Yes	No	No	3/8/2013	12/31/15
EM-AT&T-060-130321	370 Rockland Road	Guilford	Yes	No	No	4/5/2013	12/31/15
EM-CING-069-130130	246 East Franklin Street	Danielson	Yes	No	No	4/15/2013	12/31/15
EM-CING-088-130109	103 Eastside Boulevard	Naugatuck	N/A	N/A	No	4/15/2013	12/31/15
TS-AT&T-004-131223	376 Deercliff Road	Avon	N/A	N/A	No	6/28/2013	12/31/15
TS-AT&T-069-131216	1249 Hartford Pike	East Killingly	N/A	N/A	No	6/28/2013	12/31/15
EM-CING-128-130828	530 Brushy Hill Road	Simsbury	N/A	N/A	No	6/28/2013	12/31/15
EM-CING-135-130910	366 Old Long Ridge Road	Stamford	Yes	No	No	6/28/2013	12/31/15
EM-CING-156-130531	1 Burwell Road	West Haven	N/A	N/A	No	6/28/2013	12/31/15
EM-CING-086-130712	334 Route 85	Montville	Yes	No	No	7/12/2013	12/31/15
TS-AT&T-101-131108	50 Devine Street	North Haven	N/A	N/A	No	7/22/2013	12/31/15
EM-CING-158-130703	515 Post Road East	Westport	N/A	N/A	No	7/22/2013	12/31/15
EM-CING-073-130207	20 Mell Road	Lisbon	Yes	No	No	7/26/2013	12/31/15
TS-AT&T-143-131227	137 Wright Road	Torrington	Yes	No	No	7/26/2013	12/31/15
EM-CING-103-130703	177 West Rocks Road	Norwalk	N/A	N/A	No	8/8/2013	12/31/15
EM-CING-143-130122	1210 Highland Avenue	Torrington	Yes	No	No	8/16/2013	12/31/15
EM-CING-104-130819	39 Maennerchor Avenue	Norwich	Yes	No	No	8/23/2013	12/31/15
EM-CING-158-130326	880 Post Road East	Westport	Yes	No	No	9/13/2013	
TS-AT&T-164-131114	599 Matianuck Avenue	Windsor	N/A	N/A	No	9/27/2013	12/31/15
EM-CING-074-130322	438 BANTAM ROAD	LITCHFIELD	Yes	No	No	11/29/2013	
EM-CING-003-130214	353 Pumpkin Hill Road	Ashford	Yes	No	No	12/13/2013	
EM-CING-015-130531	1320 Chopsey Hill Road	Bridgeport	N/A	N/A	No	12/13/2013	
EM-AT&T-089-131230	One Hartford Square	New Britain	N/A	N/A	No	12/20/2013	
EM-AT&T-051-130408	280 Morehouse Drive	Fairfield	Yes	No	No	12/27/2013	
EM-AT&T-118-131030	845 Ethan Allen Highway	RIDGEFIELD	N/A	N/A	No	12/27/2013	