

JUN 18 2025

Planning & Zoning



FREMONT COUNTY COLLOCATION OF ANTENNA ON AN EXISTING TOWER APPLICATION

1. Name and Number of Existing SRU Permit _____

2. Name: American Tower Address: 10 Presidential Way
 City: Woburn State: MA Zip Code: 01801
 Telephone #: 781-428-7334 office Facsimile # _____
 Name of Contact: Jillian Iannacci Email Address: jillian.iannacci@Americantower.com

3. The Applicant Applying for Collocation is:
 Name: Smartlink on behalf of AT&T Address: 10 Church Circle
 City: Annapolis State: MD Zip Code: 21401
 Telephone #: 574-527-0554 Facsimile # _____
 Name of Contact: Mia Warstler Email Address: mia.warstler@smartlinkgroup.com

4. Property Owner: Olomon Lloyd Address: 315 Greystone Ave
 City: Cannon City State: CO Zip Code: 81212
 Telephone #: Name Facsimile #: _____
 of Contact: _____ Email Address: _____

5. Consultant: Smartlink Group Address: 10 Church Circle
 City: Annapolis State: MD Zip Code: 21401
 Telephone #: 574-527-0554 Facsimile # _____
 Name of Contact: Mia Warstler Email Address: mia.warstler@smartlinkgroup.com

Please read prior to completion of this application

An application for Special Review Use Permit, instead of a Collocation Application, will be required for the following:

1. An increase in the height of the existing tower;
2. The relocation of an existing tower;
3. The placement of an additional tower on the existing tower site;
4. An attachment of an antenna on an existing non-commercial tower, which is less than one-hundred (100) feet in height.

Any application which is not complete or does not include all minimum submittal requirements will not be accepted by the Fremont County Department of Planning and Zoning (Department).

The applicant shall provide one (1) original document of the application and all of its attachments (*copies of deeds, contracts, leases etcetera are acceptable*) at the time of application submittal. After submittal, the Department will review the application and all attachments and prepare a Department Submittal Deficiency and Comment Letter (D & C Letter), which will list the deficiencies, comments and questions

about the application, which must be addressed by the applicant. The applicant shall provide one (1) original document of all requirements of the D & C letter to the Department.

Attachments can be made to this application to provide expanded narrative for any application item including supportive documentation or evidence for provided application item answers. Please indicate at the application item that there is an attachment and label it as an exhibit with the application item number, a period and the number of the attachment for that item (*as an example, the first attached document providing evidence in support of the answer given at application item number 22 would be marked - Exhibit 22.1, the fifth attached document supporting the narrative provided for application item 22 would be marked - Exhibit 22.5*). **Please label all exhibits in the lower right-hand corner of the page.**

An additional review fee of two-hundred fifty dollars (\$250.00) will be charged to the applicant, if all deficiencies as per the initial D & C Letter are not adequately addressed or provided. Each subsequent D & C Letter, based on resubmitted items, will result in another two-hundred fifty dollar (\$250.00) review fee. All such fees shall be paid along with the deficiency submittal, prior to any further review of the application.

If the application is approved by the Department, with contingencies and the contingencies are not submitted or addressed within six (6) months after approval, an additional fee of one-hundred fifty dollars (\$150.00) will be charged to the applicant for a request for an extension of time to submit the contingencies. All such fees shall be paid along with a written request, explaining the need for extension.

The Department may require additional information at any time during the application process as may be deemed necessary in determining if the application is in compliance with all applicable regulations and to make an informed decision with regard to recommendations, approval or disapproval of the application.

6. The legal description and/or address of the existing site is: _____
R MANUF #93000-03-641

7. The type of construction of the existing tower is: Modification to existing collocation

8. The total height of the existing tower (*with antenna*) is 196' feet.

9. What will be the total height of the tower (*with antenna(s)*) after collocation? 196' (no change) feet.

10. The existing tower currently has 9 antennas.

11. After the proposed collocation the tower would house 9 antennas.

12. Please provide documentation from a Licensed Professional Engineer demonstrating that the tower is capable of accommodating the proposed number of antennas. (*Mark as EXHIBIT 13.1*)

13. The existing site contains 1 accessory structures.

14. Will the proposed collocation require additional accessory structures? ☐ Yes --- ☒ No If yes, please provide how many, the sizes, the heights, the location and the reason such additional structures are necessary (*a new site plan may be required*): _____

15. If a design plan addressing materials, colors, textures, screening and landscaping in the design of the tower or antenna was required with the issuance of the original permit, will it be adequate for the proposed collocation? ☒ Yes --- ☐ No If no, it may be required to comply with the original design plan.
16. The existing site contains 0 off-street parking spaces.
17. Will the proposed collocation require additional off-street parking spaces? ☐ Yes --- ☒ No If yes, please provide how many additional spaces will be necessary: _____ off-street parking spaces.
18. Was surfacing, lighting and or landscaping of driveways and parking areas required with issuance of the original permit? ☐ Yes --- ☒ No If no, was it waived by the Board? ☒ Yes --- ☐ No
19. Will the surfacing, lighting and or landscaping of driveways and parking areas required with issuance of the original permit be adequate for the proposed collocation? ☒ Yes --- ☐ No Please explain: _____

20. Will the existing access to the site be adequate for the proposed collocation? ☒ Yes --- ☐ No If No, what is the proposed access for the proposed collocation? _____

21. Was a stormwater drainage plan required and approved with the issuance of the original permit? ☒ Yes --- ☐ No If yes, will the stormwater drainage plan required and approved with the issuance of the original permit be adequate with the addition of the accessory structures (if any)? ☒ Yes --- ☐ No Please explain: _____

22. Please explain how the existing tower and additional uses meet the minimum requirements of the Federal Aviation Administration. The existing tower does not require additional uses for this SOW

23. If the existing permit holder is not the site property owner, does the agreement, lease, or the like between the site property owner and the existing permit holder allow the collocation? ☒ Yes --- ☐ No Please show (highlight) in the agreement, lease or the like that grants the permission to collocate.
24. Please attach a copy of a lease or agreement between the permit holder and the collocation applicant as to right to use of the tower by the collocation applicant, marked as Exhibit 25.1.
25. A submittal fee of \$250.00 must accompany this application (Check # TBD ☐ cash)

Collocation Applicant's Endorsement:

By signing this Application, the Applicant, or the agent/representative acting with due authorization on behalf of the Applicant, hereby certifies that all information contained in the application and any attachments to the Application, is true and correct to the best of Applicant's knowledge and belief.

Fremont County hereby advises Applicant that if any material information contained herein is determined to be misleading, inaccurate or false, the Board of Commissioners may take any and all reasonable and appropriate steps to declare actions of the Board regarding the Application to be null and void.

Further the applicant understands that if collocation is approved the applicant must comply with the conditions of the original permit, as issued or as may be amended, and applicable regulations of the Fremont County Zoning Resolution.

Signing this Application is a declaration by the Applicant to conform to all plans, drawings, and commitments submitted with or contained within this Application, provided that the same is in conformance with the Fremont County Zoning Resolution.

Mia Warstler on behalf of AT&T

Applicant Printed Name

Mia Warstler

Applicant Signature

Real Estate Specialist, Smartlink Group

Applicant Title & Company Name

6/12/2025

Date

Existing Permit Holder's Endorsement:

By signing this Application, the Permit Holder, or the agent/representative acting with due authorization on behalf of the Permit Holder, hereby certifies that all information contained in the application and any attachments to the Application, is true and correct to the best of Permit Holder's knowledge and belief.

Fremont County hereby advises Permit Holder that if any material information contained herein is determined to be misleading, inaccurate or false, the Board of Commissioners may take any and all reasonable and appropriate steps to declare actions of the Board regarding the Application to be null and void.

Further the existing permit holder understands that if collocation is approved the applicant and existing permit holder must comply with the conditions of the original permit, as issued or as may be amended, and applicable regulations of the Fremont County Zoning Resolution.

Signing this Application is a declaration by the Permit Holder to conform to all plans, drawings, and commitments submitted with or contained within this Application, provided that the same is in conformance with the Fremont County Zoning Resolution.

THIS SIGNATURE ALSO SERVES AS THE EXISTING PERMIT HOLDERS APPROVAL FOR COLLOCATION.

Same as Applicant

Permit Holder Printed Name

Mia Warstler

Permit Holder Signature

Same as Applicant

Permit Holder Title & Company Name

6/12/2025

Date



June 6, 2025

Fremont County
615 Macon Ave Room 210
Canon City, CO 81212

Re: Zoning and Building Approval Request for Existing Cell Tower
AT&T Site Details: 10093565_WSUTH0038142 TITAN 1 CANON CITY SOUTH_COL06027
Projects: Nokia Market Modernization

Greetings Fremont County Planning and Building,

I am contacting you on behalf of AT&T Wireless, who is proposing to perform a minor site upgrade to the existing site located in your Jurisdiction.

- **12868 County Road 3, Canon City, 81212, Parcel: 98904413**

The modification activity to this site will involve the changes referenced in the Construction Drawings and Passing Structural Analysis attached. Please review and confirm the Zoning and Building review and approval by signing this letter.

Please note that there are:

- No changes to the heights of these structures.
- No changes to the footprint of the site.
- No additional noise.
- No changes to the existing electrical service already provided at these locations.
- No additional shelters/equipment sheds or platforms.
- No expansion of the existing compound.

The Scope of Work includes:

STRUCTURE WORK:

- REMOVE (8) ANTENNAS
- REMOVE (6) REMOTE RADIO HEADS (RRHS)
- REMOVE (7) TMAS
- INSTALL (9) ANTENNAS
- INSTALL (9) REMOTE RADIO UNITS (RRUs)
- INSTALL (6) BACK TO BACK RRU MOUNTS
- INSTALL (1) DC9 SURGE SUPPRESSION
- INSTALL (1) 24 PAIR FIBER TRUNK
- INSTALL (2) #6 AWG DC TRUNK
- ROTATE – EXISTING SECTOR FRAMES TO MATCH PROPOSED AZIMUTHS

GROUND WORK:

- REMOVE (1) GSM CABINET
- REMOVE ALL RECTIFIERS
- REMOVE ALL CONVERTERS
- REMOVE (1) POWER PLANT
- INSTALL (1) 512 OUTDOOR POWER PLANT
- INSTALL (9) CONVERTERS
- INSTALL (2) DC12 SURGE SUPPRESSION UNITS
- INSTALL (10) RECTIFIERS
- INSTALL (1) GENERIC E\\ BBU @ DRM
- INSTALL (1) FLX 42 CABINET
- RELO. (8) 190AH BATTERIES

Please call if you need any further information or have any questions or if there is another point of contact I should reach out to for approval.

Thank you,
Mia



Mia Warstler

RE Specialist II

 **(574) 527-0554**

 **Mia.Warstler@SmartlinkGroup.com**

 **10 Church Circle, Annapolis, MD
21401**

 **www.smartlinkgroup.com**



Canon County has reviewed the requested changes and hereby gives Planning and Building Consent for the replacement of the AT&T equipment as described in the attached letter dated 6/6/2025.

Signed: _____

Printed Name: _____

Title: _____

Date: _____

Structural Evaluation Letter

Asset Number 370533
Asset Name Canon City
Proposed Carrier AT&T MOBILITY
Site Number WSUTH0038142
Site Name TITAN 1 CANON CITY SOUTH_COL06027
Site Location 12868 Cr 3
 CANON CITY, CO 81212-0000, Fremont County
 38.4062° N, 105.2663° W
Tower Description 196.0 ft Self Support
Basic Wind Speed 105 mph (3-second gust)
Basic Wind w/ Ice 56 mph (3-second gust) w/ 0.19" radial ice concurrent
Applicable Code(s) ANSI/TIA-222-I / 2018 IBC



Evaluation Results:

The loading in the tables below was evaluated with respect to the tower and foundation capacities. As future loading is added, or if actual loading is different from these tables, re-evaluation shall be required. This tower and foundation **are adequate** to support the below loads in conformance with specified requirements.

AT&T MOBILITY Final Loading

Elev (ft)	Qty	Equipment	Lines
197.7	-	-	(1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6
194.5	3	Ericsson AIR 6472 B77G B77M (67.2lbs)	-
194.0	1	Raycap DC6-48-60-18-8F ("Squid")	(1) 0.39" (10mm) Fiber Trunk
	1	Raycap DC9-48-60-24-8C-EV (Enclosure)	(2) 0.96" (24.3mm) Cable
	3	Ericsson Radio 4490HP 44B5 44B12A C	
	3	Ericsson Radio 4494 44B14 20B29 M01	
192.0	3	Ericsson Radio 4890HP B2/B25 B66	(8) 1 5/8" Coax
	3	Light Sector Frame	
	6	Commscope NNH4-65C-R6-V4	
143.0	1	Andrew VHLPX6-11/A	(2) 0.38" (9.7mm) Cat 5e
	2	Alcatel-Lucent 9500 MPR (ODU)	
45.0	1	Andrew VHLPX6-11/A	(1) EWP90

Install proposed lines in the place of the existing AT&T MOBILITY lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines
181.6	1	Andrew VHLP2-11	(2) 0.24" (6.1mm) Cat 5e
	1	DragonWave Horizon Compact Plus	
	2	KMW ET-X-TS-70-15-62-18-IR-RD	
181.4	2	Samsung RRH-B8 w/ Finger Guard	



Elev (ft)	Qty	Equipment	Lines
181.3	2	Samsung RRH-C2A (w/o External Filter)	(2) 1.18" (30mm) Hybrid (Type 3)
181.2	2	Samsung RRH-P4	-
180.0	3	Sector Frame	-
178.5	2	KMW ET-X-WM-18-65-8P	-
165.4	3	Decibel DB878G105AXY	-
163.0	1	Sector Frame	-
155.0	1	Andrew VHLP2-11 (31 lb)	(1) 3/8" (0.38" - 9.5mm) RET Control Cable
	1	Ceragon FibeAir IP-20D	(1) 5/8" Hybriflex
	2	Commscope HELIAX FiberFeed 12 RRU Pendant Connect	
	3	Commscope FFVV-65C-R3-V1	
154.0	3	Nokia AEHC	(1) 0.28" (7mm) RG-6
	3	Nokia AHFIG	(2) 1.46" (37.1mm) Hybrid
	3	Nokia AirScale Dual RRH 4T4R B12/71 240W AHLOA	
150.0	2	Light Sector Frame	-

(If table breaks across pages, please see previous page for data in merged cells)



Structural Analysis Report

Structure : 196 ft Self Support Tower

ATC Asset Name : Canon City

ATC Asset Number : 370533

Engineering Number : OAA794142_C3_01

Proposed Carrier : AT&T MOBILITY

Carrier Site Name : TITAN 1 CANON CITY SOUTH_COL06027

Carrier Site Number : WSUTH0038142

Site Location : 12868 Cr 3
CANON CITY, CO 81212-0000
38.4062° N, 105.2664° W

County : Fremont

Date : September 17, 2024

Max Usage : 58%

Analysis Result : Pass





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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 196 ft Self Support tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower: Rohn Drawing #C011033, dated August 15, 2001
Foundation: Rohn Drawing #A012286-1, dated September 25, 2001
Geotechnical: AMEC Project #1529-000252, dated June 1, 2001

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	105 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 0.25" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2018 IBC
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.26$, $S_i = 0.07$
Site Class:	D - Stiff Soil - Default

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 reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact Engineering@americantower.com. Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Location	Result
Leg	58.0%	Member X	Section 4	Pass
Diagonal	54.1%	Block Shear	Section 9	Pass
Horizontal	5.0%	Block Shear	Section 10	Pass
Bolt	48.5%	-	Section 5	Pass
Serviceability Usage	8.7%	Deflection	Elevation 196 ft	Pass
Foundation	51.3%	Down	Base	Pass
Foundation	53.1%	Moment	Base	Pass
Foundation	49.6%	Shear	Base	Pass
Foundation	49.6%	Uplift	Base	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Self Support Base (Global)	3,175.1	42.7	-	27.6
Self Support Base (Local)	-	188.8	155.5	17.9

**Reactions shown are maximum overall and not limited by Load Case*

Foundation usages were calculated by comparing the maximum reactions from this analysis to the reactions from the original design drawings, factored by 1.35 per ANSI/TIA-222-H, Section 15.6.2



AT&T MOBILITY Final Loading

Elev (ft)	Qty	Equipment	Lines
197.7	1	Raycap DC6-48-60-18-8F	(2) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6
194.8	3	Ericsson AIR 6419 B77D/ C-Band	
	1	Raycap DC9-48-60-24-8C-EV (18.5lbs)	
	3	Ericsson RRUS 4478 B14 (18.1" Height)	
192.0	3	Ericsson RRUS 4490	(3) .957" (24.3mm) 6 AWG 6C (11) 1 5/8" Coax
	3	Ericsson Radio 4890HP B2/B25 B66	(1) 3/8" (0.38"- 9.5mm) RET Control Cable
	3	Light Sector Frame	
	6	Commscope NNH4-65C-R6-V4	
191.1	3	Ericsson AIR 6419 B77G	
143.0	1	Andrew VHLPX6-11/A	(2) 0.38" (9.7mm) Cat 5e
	2	Alcatel-Lucent 9500 MPR (ODU)	
45.0	1	Andrew VHLPX6-11/A	(1) EWP90

Install proposed lines alongside existing AT&T MOBILITY lines.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
181.7	1	Andrew VHLP2-11		SPRINT NEXTEL
181.6	1	DragonWave Horizon Compact Plus	(2) 0.24" (6.1mm) Cat 5e	SPRINT NEXTEL
181.4	2	KMW ET-X-TS-70-15-62-18-iR-RD		SPRINT NEXTEL
	2	Samsung RRH-B8 w/ Finger Guard		SPRINT NEXTEL
181.3	2	Samsung RRH-C2A (w/o External Filter)	(2) 1.18" (30mm) Hybrid (Type 3)	SPRINT NEXTEL
181.2	2	Samsung RRH-P4		SPRINT NEXTEL
180.0	3	Sector Frame		SPRINT NEXTEL
178.6	2	KMW ET-X-WM-18-65-8P		SPRINT NEXTEL
165.4	3	Decibel DB878G105AXY		SPRINT NEXTEL
163.0	1	Sector Frame		SPRINT NEXTEL
	1	Andrew VHLP2-11 (31 lb)	(1) 3/8" (0.38"- 9.5mm) RET	
155.0	1	Ceragon FibeAir IP-20D	Control Cable (1) 5/8" Hybriflex	T-MOBILE
	2	Commscope HELIAX FiberFeed 12 RRU		
		Pendant Connect		
	3	Commscope FFVV-65C-R3-V1		
154.0	3	Nokia AEHC	(1) 0.28" (7mm) RG-6	T-MOBILE
	3	Nokia AHFIG	(2) 1.46" (37.1mm) Hybrid	
	3	Nokia AirScale Dual RRH 4T4R B12/71 240W		
		AHLOA		
150.0	2	Light Sector Frame		T-MOBILE

(If table breaks across pages, please see previous page for data in merged cells)



Standard Conditions

All engineering services performed by ATC Tower Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ATC Tower Services LLC

It is the responsibility of the client to ensure that the information provided to ATC Tower Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and ATC Tower Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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

ASSET: Canon City, 370533
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142

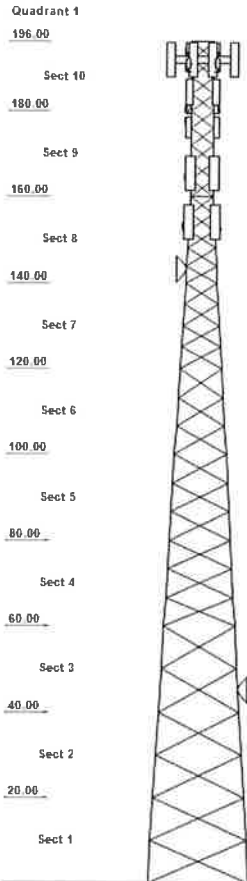
ANALYSIS PARAMETERS

Design Wind: 105 mph Ice Wind: 50 mph w/ 0.25" ice Service Wind: 60 mph
Risk Category: II Exposure: C S_s : 0.262 S_1 : 0.072
Topo Factor: Method 1 Topo Feature: Topo Category: 1
Structure Height: 196 ft Base Elevation: 0 ft Shape: Triangle
Base Width: 21.00 ft Top Width: 4.65 ft

TOWER SECTION PROPERTIES

Section	Leg Members	Diagonal Members	Horizontal Members
1	PSP 50 ksi ROHN 8 EHS	SAE 50 ksi 3.5x3.5x0.25	
2 - 3	PX 50 ksi 6" DIA PIPE	SAE 50 ksi 3.5x3.5x0.25	
4	PX 50 ksi 5" DIA PIPE	SAE 36 ksi 2.5X2.5X0.25	
5 - 6	PX 50 ksi 5" DIA PIPE	SAE 36 ksi 2.5X2.5X0.1875	
7	PX 50 ksi 4" DIA PIPE	SAE 36 ksi 2X2X0.1875	
8	PX 50 ksi 3" DIA PIPE	SAE 36 ksi 1.75X1.75X0.1875	SAE 36 ksi 1.75X1.75X0.125
9	PX 50 ksi 2-1/2" DIA PIPE	SAE 36 ksi 1.75X1.75X0.1875	
10	PST 50 ksi 2-1/2" DIA PIPE	SAE 36 ksi 1.75X1.75X0.1875	SAE 36 ksi 1.75X1.75X0.125

Tower Elevation View



DISCRETE APPURTENANCE

Elev (ft)	Description
197.7	(1) Raycap DC6-48-60-18-8F
194.8	(3) Ericsson AIR 6419 B77D/ C-Band
192.0	(3) Ericsson Radio 4890HP B2/B25 B66
192.0	(3) Flat Light Sector Frame
192.0	(6) Commscope NNH4-65C-R6-V4
192.0	(3) Ericsson RRUS 4478 B14 (18.1" Heig
192.0	(3) Ericsson RRUS 4490
192.0	(1) Raycap DC9-48-60-24-8C-EV (18.5lbs
191.1	(3) Ericsson AIR 6419 B77G
181.7	(1) Andrew VHLP2-11
181.6	(1) DragonWave Horizon Compact Plus
181.4	(2) KMW ET-X-TS-70-15-62-18-IR-RD
181.4	(2) Samsung RRH-B8 w/ Finger Guard
181.3	(2) Samsung RRH-C2A (w/o External Filte
181.2	(2) Samsung RRH-P4
180.0	(3) Round Sector Frame
178.6	(2) KMW ET-X-WM-18-65-8P
165.4	(3) Decibel DB878G105AXY
163.0	(1) Round Sector Frame
155.0	(1) Ceragon FibeAir IP-20D
155.0	(1) Andrew VHLP2-11 (31 lb)
154.0	(3) Nokia AirScale Dual RRH 4T4R B12/7
154.0	(3) Nokia AEHC
154.0	(2) Commscope HELIAX FiberFeed 12 R
154.0	(3) Nokia AHFIG
154.0	(3) Commscope FFFV-65C-R3-V1
150.0	(2) Generic Flat Light Sector Frame
143.0	(2) Alcatel-Lucent 9500 MPR (ODU)
143.0	(1) Andrew VHLPX6-11/A
45.0	(1) Andrew VHLPX6-11/A

LINEAR APPURTENANCE

Elev (ft)	Description
197.7	(2) 0.78" (19.7mm) 8 AWG 6
197.7	(1) 0.39" (10mm) Fiber Trunk
197.7	(1) 0.39" (10mm) Fiber Trunk
196.0	(2) Waveguide
192.0	(1) 1 5/8" Coax
192.0	(3) .957" (24.3mm) 6 AWG 6C
192.0	(10) 1 5/8" Coax
192.0	(1) 3/8" (0.38"- 9.5mm) RET Cont
181.6	(2) 0.24" (6.1mm) Cat 5e
181.3	(2) 1.18" (30mm) Hybrid (Type 3)
180.0	(1) Waveguide
155.0	(1) 5/8" Hybriflex
155.0	(1) 3/8" (0.38"- 9.5mm) RET Cont
154.0	(1) 0.28" (7mm) RG-6
154.0	(2) 1.46" (37.1mm) Hybrid
150.0	(1) Waveguide
143.0	(2) 0.38" (9.7mm) Cat 5e
45.0	(1) EWP90

GLOBAL BASE REACTIONS

	DL+WL	DL+WL+IL
Moment (k-ft):	3,175.10	877.73
Axial (k):	42.66	51.73
Shear (k):	27.65	7.80

INDIVIDUAL BASE REACTIONS

Comp (k):	188.81
Uplift (k):	155.49
Shear (k):	17.91

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

ANALYSIS PARAMETERS

Location:	Fremont County, CO	Height:	196 ft
Type and Shape:	Self Support, Triangle	Base Elevation:	0.00 ft
Manufacturer:	Rohn	Bottom Face Width:	21.00 ft
Kd	0.85	Top Face Width:	4.65 ft
Ke:	0.81	Anchor Bolt Detail Type:	c

ICE & WIND PARAMETERS

Exposure Category:	C	Design Wind Speed Without Ice:	105 mph
Risk Category:	II	Design Wind Speed with Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.25 in
Crest Height:	0 ft	HMSL:	5768 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	1.13
T_L (sec):	6	P:	1.3
S_{ds}:	0.278	S_{d1}:	0.115
S_s:	0.262	S₁:	0.072
F_a:	1.590	F_v:	2.400
		C_s:	0.034
		C_s, Max:	0.034
		C_s, Min:	0.030

LOAD CASES

1.2D + 1.0W Normal	1.2D + 1.0W Normal - 105 mph Wind with No Ice
1.2D + 1.0W 60°	1.2D + 1.0W 60° - 105 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 105 mph Wind with No Ice
1.2D + 1.0W 120°	1.2D + 1.0W 120° - 105 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180° - 105 mph Wind with No Ice
1.2D + 1.0W 210°	1.2D + 1.0W 210° - 105 mph Wind with No Ice
1.2D + 1.0W 240°	1.2D + 1.0W 240° - 105 mph Wind with No Ice
1.2D + 1.0W 300°	1.2D + 1.0W 300° - 105 mph Wind with No Ice
1.2D + 1.0W 330°	1.2D + 1.0W 330° - 105 mph Wind with No Ice
0.9D + 1.0W Normal	0.9D + 1.0W Normal - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 60°	0.9D + 1.0W 60° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 90°	0.9D + 1.0W 90° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 120°	0.9D + 1.0W 120° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 180°	0.9D + 1.0W 180° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 210°	0.9D + 1.0W 210° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 240°	0.9D + 1.0W 240° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 300°	0.9D + 1.0W 300° - 105 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 330°	0.9D + 1.0W 330° - 105 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 60°	1.2D + 1.0Di + 1.0Wi 60° - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 120°	1.2D + 1.0Di + 1.0Wi 120° - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180° - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 210°	1.2D + 1.0Di + 1.0Wi 210° - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 240°	1.2D + 1.0Di + 1.0Wi 240° - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 300°	1.2D + 1.0Di + 1.0Wi 300° - 50 mph Wind with 0.25" Radial Ice
1.2D + 1.0Di + 1.0Wi 330°	1.2D + 1.0Di + 1.0Wi 330° - 50 mph Wind with 0.25" Radial Ice

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

LOAD CASES

1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh Normal - Seismic
1.2D + 1.0Ev + 1.0Eh 60°	1.2D + 1.0Ev + 1.0Eh 60° - Seismic
1.2D + 1.0Ev + 1.0Eh 90°	1.2D + 1.0Ev + 1.0Eh 90° - Seismic
1.2D + 1.0Ev + 1.0Eh 120°	1.2D + 1.0Ev + 1.0Eh 120° - Seismic
1.2D + 1.0Ev + 1.0Eh 180°	1.2D + 1.0Ev + 1.0Eh 180° - Seismic
1.2D + 1.0Ev + 1.0Eh 210°	1.2D + 1.0Ev + 1.0Eh 210° - Seismic
1.2D + 1.0Ev + 1.0Eh 240°	1.2D + 1.0Ev + 1.0Eh 240° - Seismic
1.2D + 1.0Ev + 1.0Eh 300°	1.2D + 1.0Ev + 1.0Eh 300° - Seismic
1.2D + 1.0Ev + 1.0Eh 330°	1.2D + 1.0Ev + 1.0Eh 330° - Seismic
0.9D - 1.0Ev + 1.0Eh Normal	0.9D - 1.0Ev + 1.0Eh Normal - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 60°	0.9D - 1.0Ev + 1.0Eh 60° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 90°	0.9D - 1.0Ev + 1.0Eh 90° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 120°	0.9D - 1.0Ev + 1.0Eh 120° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 180°	0.9D - 1.0Ev + 1.0Eh 180° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 210°	0.9D - 1.0Ev + 1.0Eh 210° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 240°	0.9D - 1.0Ev + 1.0Eh 240° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 300°	0.9D - 1.0Ev + 1.0Eh 300° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 330°	0.9D - 1.0Ev + 1.0Eh 330° - Seismic (Reduced DL)
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal - 60 mph Wind with No Ice
1.0D + 1.0W Service 60°	1.0D + 1.0W Service 60° - 60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90° - 60 mph Wind with No Ice
1.0D + 1.0W Service 120°	1.0D + 1.0W Service 120° - 60 mph Wind with No Ice
1.0D + 1.0W Service 180°	1.0D + 1.0W Service 180° - 60 mph Wind with No Ice
1.0D + 1.0W Service 210°	1.0D + 1.0W Service 210° - 60 mph Wind with No Ice
1.0D + 1.0W Service 240°	1.0D + 1.0W Service 240° - 60 mph Wind with No Ice
1.0D + 1.0W Service 300°	1.0D + 1.0W Service 300° - 60 mph Wind with No Ice
1.0D + 1.0W Service 330°	1.0D + 1.0W Service 330° - 60 mph Wind with No Ice

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

TOWER LOADING - DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: 1.2D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
197.7	Raycap DC6-48-60-18-8F	1	20	1.3	2.0	9.7	9.7	0.80	1.00	0.0	0.00	28.44	24	24
194.8	Ericsson AIR 6419 B77D/ C-Band	3	64	3.8	2.4	16.1	7.3	0.80	0.64	0.0	0.00	28.35	141	230
192.0	Ericsson RRUS 4478 B14 (18.1"	3	59	2.0	1.5	13.4	8.3	0.80	0.67	0.0	0.00	28.27	78	214
192.0	Ericsson Radio 4890HP B2/B25 B	3	68	2.2	1.5	15.2	6.9	0.80	0.67	0.0	0.00	28.27	86	245
192.0	Ericsson RRUS 4490	3	68	2.7	1.7	15.7	7.0	0.80	0.67	0.0	0.00	28.27	104	246
192.0	Raycap DC9-48-60-24-8C-EV (18.	1	19	3.2	2.6	18.2	10.2	0.80	1.00	0.0	0.00	28.27	61	22
192.0	Commscope NNH4-65C-R6-V4	6	94	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.00	28.27	1260	675
192.0	Flat Light Sector Frame	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	28.27	726	1440
191.1	Ericsson AIR 6419 B77G	3	66	3.8	2.4	16.1	7.9	0.80	0.65	0.0	0.00	28.24	142	238
181.7	Andrew VHLP2-11	1	27	4.7	2.2	26.1	13.2	0.80	1.00	1.4	124.69	27.99	89	32
181.6	DragonWave Horizon Compact Plu	1	8	0.7	0.8	8.7	4.0	0.80	0.50	1.6	10.60	27.99	7	9
181.4	Samsung RRH-B8 w/ Finger Guard	2	60	2.6	1.8	15.0	9.5	0.80	0.50	1.4	70.24	27.98	50	143
181.4	KMW ET-X-TS-70-15-62-18-IR-RD	2	42	8.3	6.2	11.8	5.9	0.80	0.75	1.2	283.00	27.97	236	101
181.3	Samsung RRH-C2A (w/o External	2	53	2.5	1.6	15.7	6.7	0.80	0.50	1.3	62.43	27.97	48	127
181.2	Samsung RRH-P4	2	60	2.2	1.5	15.0	7.0	0.80	0.50	1.2	51.34	27.96	43	144
180.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	27.89	576	1080
178.6	KMW ET-X-WM-18-65-8P	2	36	6.7	5.1	12.0	4.3	0.80	0.72	-1.7	309.15	27.79	182	87
165.4	Decibel DB878G105AXY	3	25	10.3	8.0	10.5	4.5	1.00	1.00	0.0	0.00	27.39	720	90
163.0	Round Sector Frame	1	300	14.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.31	334	360
155.0	Ceragon FibeAir IP-20D	1	14	0.7	0.8	9.2	3.9	0.90	1.00	0.0	0.00	27.02	14	17
155.0	Andrew VHLP2-11 (31 lb)	1	31	4.7	2.2	26.1	12.3	0.90	1.00	0.0	0.00	27.02	97	37
154.0	Commscope HELIAX FiberFeed 12	2	20	0.9	1.4	6.7	4.7	0.90	0.50	0.0	0.00	26.99	19	48
154.0	Nokia AirScale Dual RRH 4T4R B	3	84	2.2	1.8	12.1	7.4	0.90	0.67	0.0	0.00	26.99	92	302
154.0	Nokia AHFIG	3	79	3.1	2.3	13.4	6.8	0.90	0.66	0.0	0.00	26.99	126	286
154.0	Nokia AEHC	3	104	6.8	3.2	21.5	8.1	0.90	0.62	0.0	0.00	26.99	263	373
154.0	Commscope FFFV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.90	0.63	0.0	0.00	26.99	824	449
150.0	Generic Flat Light Sector Fram	2	800	17.9	0.0	0.0	0.0	0.90	0.90	0.0	0.00	26.84	661	1920
143.0	Alcatel-Lucent 9500 MPR (ODU)	2	13	1.1	0.9	11.3	4.7	1.00	0.50	0.0	0.00	26.57	24	32
143.0	Andrew VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	1.00	1.00	0.0	0.00	26.57	842	164
45.0	Andrew VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	1.00	1.00	1.4	929.73	20.96	664	164
Totals		67	7,749	562.3									8,533	9,299

Discrete Appurtenance Properties for LC: 0.9D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
197.7	Raycap DC6-48-60-18-8F	1	20	1.3	2.0	9.7	9.7	0.80	1.00	0.0	0.00	28.44	24	18
194.8	Ericsson AIR 6419 B77D/ C-Band	3	64	3.8	2.4	16.1	7.3	0.80	0.64	0.0	0.00	28.35	141	173
192.0	Ericsson RRUS 4478 B14 (18.1"	3	59	2.0	1.5	13.4	8.3	0.80	0.67	0.0	0.00	28.27	78	160
192.0	Ericsson Radio 4890HP B2/B25 B	3	68	2.2	1.5	15.2	6.9	0.80	0.67	0.0	0.00	28.27	86	184
192.0	Ericsson RRUS 4490	3	68	2.7	1.7	15.7	7.0	0.80	0.67	0.0	0.00	28.27	104	185
192.0	Raycap DC9-48-60-24-8C-EV (18.	1	19	3.2	2.6	18.2	10.2	0.80	1.00	0.0	0.00	28.27	61	17
192.0	Commscope NNH4-65C-R6-V4	6	94	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.00	28.27	1260	506
192.0	Flat Light Sector Frame	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	28.27	726	1080
191.1	Ericsson AIR 6419 B77G	3	66	3.8	2.4	16.1	7.9	0.80	0.65	0.0	0.00	28.24	142	178
181.7	Andrew VHLP2-11	1	27	4.7	2.2	26.1	13.2	0.80	1.00	1.4	124.69	27.99	89	24
181.6	DragonWave Horizon Compact Plu	1	8	0.7	0.8	8.7	4.0	0.80	0.50	1.6	10.60	27.99	7	7
181.4	Samsung RRH-B8 w/ Finger Guard	2	60	2.6	1.8	15.0	9.5	0.80	0.50	1.4	70.24	27.98	50	107
181.4	KMW ET-X-TS-70-15-62-18-IR-RD	2	42	8.3	6.2	11.8	5.9	0.80	0.75	1.2	283.00	27.97	236	75
181.3	Samsung RRH-C2A (w/o External	2	53	2.5	1.6	15.7	6.7	0.80	0.50	1.3	62.43	27.97	48	95
181.2	Samsung RRH-P4	2	60	2.2	1.5	15.0	7.0	0.80	0.50	1.2	51.34	27.96	43	108
180.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	27.89	576	810
178.6	KMW ET-X-WM-18-65-8P	2	36	6.7	5.1	12.0	4.3	0.80	0.72	-1.7	309.15	27.79	182	66
165.4	Decibel DB878G105AXY	3	25	10.3	8.0	10.5	4.5	1.00	1.00	0.0	0.00	27.39	720	68
163.0	Round Sector Frame	1	300	14.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.31	334	270
155.0	Ceragon FibeAir IP-20D	1	14	0.7	0.8	9.2	3.9	0.90	1.00	0.0	0.00	27.02	14	13
155.0	Andrew VHLP2-11 (31 lb)	1	31	4.7	2.2	26.1	12.3	0.90	1.00	0.0	0.00	27.02	97	28
154.0	Commscope HELIAX FiberFeed 12	2	20	0.9	1.4	6.7	4.7	0.90	0.50	0.0	0.00	26.99	19	36
154.0	Nokia AirScale Dual RRH 4T4R B	3	84	2.2	1.8	12.1	7.4	0.90	0.67	0.0	0.00	26.99	92	226
154.0	Nokia AHFIG	3	79	3.1	2.3	13.4	6.8	0.90	0.66	0.0	0.00	26.99	126	214
154.0	Nokia AEHC	3	104	6.8	3.2	21.5	8.1	0.90	0.62	0.0	0.00	26.99	263	280
154.0	Commscope FFFV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.90	0.63	0.0	0.00	26.99	824	336
150.0	Generic Flat Light Sector Fram	2	800	17.9	0.0	0.0	0.0	0.90	0.90	0.0	0.00	26.84	661	1440
143.0	Alcatel-Lucent 9500 MPR (ODU)	2	13	1.1	0.9	11.3	4.7	1.00	0.50	0.0	0.00	26.57	24	24
143.0	Andrew VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	1.00	1.00	0.0	0.00	26.57	842	123
45.0	Andrew VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	1.00	1.00	1.4	929.73	20.96	664	123
Totals		67	7,749	562.3									8,533	6,974

Discrete Appurtenance Properties for LC: 1.2D + 1.0Di + 1.0Wi

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
197.7	Raycap DC6-48-60-18-8F	1	29	1.4	2.0	9.7	9.7	0.80	1.00	0.0	0.00	6.45	6	33
194.8	Ericsson AIR 6419 B77D/ C-Band	3	80	4.0	2.4	16.1	7.3	0.80	0.64	0.0	0.00	6.43	34	278
192.0	Ericsson RRUS 4478 B14 (18.1"	3	70	2.2	1.5	13.4	8.3	0.80	0.67	0.0	0.00	6.41	19	245

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

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Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
192.0	Ericsson Radio 4890HP B2/B25 B	3	78	2.4	1.5	15.2	6.9	0.80	0.67	0.0	0.00	6.41	21	276
192.0	Ericsson RRUS 4490	3	80	2.9	1.7	15.7	7.0	0.80	0.67	0.0	0.00	6.41	25	282
192.0	Raycap DC9-48-60-24-8C-EV (18.	1	36	3.3	2.6	18.2	10.2	0.80	1.00	0.0	0.00	6.41	15	39
192.0	Commscope NNH4-65C-R6-V4	6	150	17.7	8.0	19.6	7.8	0.80	0.64	0.0	0.00	6.41	296	1010
192.0	Flat Light Sector Frame	3	451	20.5	0.0	0.0	0.0	0.75	0.75	0.0	0.00	6.41	188	1594
191.1	Ericsson AIR 6419 B77G	3	83	4.0	2.4	16.1	7.9	0.80	0.65	0.0	0.00	6.40	34	288
181.7	Andrew VHLP2-11	1	44	4.9	2.2	26.1	13.2	0.80	1.00	1.4	29.57	6.35	21	49
181.6	DragonWave Horizon Compact Plu	1	11	0.8	0.8	8.7	4.0	0.80	0.50	1.6	2.73	6.35	2	12
181.4	Samsung RRH-B8 w/ Finger Guard	2	73	2.8	1.8	15.0	9.5	0.80	0.50	1.4	17.02	6.34	12	170
181.4	KMW ET-X-TS-70-15-62-18-IR-RD	2	70	8.8	6.2	11.8	5.9	0.80	0.75	1.2	67.93	6.34	57	157
181.3	Samsung RRH-C2A (w/o External	2	64	2.7	1.6	15.7	6.7	0.80	0.50	1.3	15.15	6.34	12	150
181.2	Samsung RRH-P4	2	70	2.4	1.5	15.0	7.0	0.80	0.50	1.2	12.51	6.34	10	165
180.0	Round Sector Frame	3	362	17.2	0.0	0.0	0.0	0.75	0.75	0.0	0.00	6.32	156	1267
178.6	KMW ET-X-WM-18-65-8P	2	58	7.1	5.1	12.0	4.3	0.80	0.72	-1.7	74.27	6.30	44	130
165.4	Decibel DB878G105AXY	3	55	10.6	8.0	10.5	4.5	1.00	1.00	0.0	0.00	6.21	167	179
163.0	Round Sector Frame	1	362	17.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.19	91	422
155.0	Ceragon FibeAir IP-20D	1	18	0.8	0.8	9.2	3.9	0.90	1.00	0.0	0.00	6.13	4	21
155.0	Andrew VHLP2-11 (31 lb)	1	47	4.9	2.2	26.1	12.3	0.90	1.00	0.0	0.00	6.13	23	54
154.0	Commscope HELIAX FiberFeed 12	2	25	1.1	1.4	6.7	4.7	0.90	0.50	0.0	0.00	6.12	5	58
154.0	Nokia AirScale Dual RRH 4T4R B	3	94	2.4	1.8	12.1	7.4	0.90	0.67	0.0	0.00	6.12	22	334
154.0	Nokia AHFIG	3	93	3.3	2.3	13.4	6.8	0.90	0.66	0.0	0.00	6.12	30	325
154.0	Nokia AEHC	3	129	7.1	3.2	21.5	8.1	0.90	0.62	0.0	0.00	6.12	62	450
154.0	Commscope FFFV-65C-R3-V1	3	194	21.7	8.0	25.2	9.3	0.90	0.63	0.0	0.00	6.12	192	656
150.0	Generic Flat Light Sector Fram	2	986	20.4	0.0	0.0	0.0	0.90	0.90	0.0	0.00	6.09	171	2292
143.0	Alcatel-Lucent 9500 MPR (ODU)	2	18	1.2	0.9	11.3	4.7	1.00	0.50	0.0	0.00	6.02	6	42
143.0	Andrew VHLPX6-11/A	1	261	37.9	6.1	73.6	36.5	1.00	1.00	0.0	0.00	6.02	194	288
45.0	Andrew VHLPX6-11/A	1	242	37.8	6.1	73.6	36.5	1.00	1.00	1.4	213.68	4.75	153	270
Totals		67	9,985	602.8									2072	11,535

Discrete Appurtenance Properties for LC: 1.0D + 1.0W Service

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc. (ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
197.7	Raycap DC6-48-60-18-8F	1	20	1.3	2.0	9.7	9.7	0.80	1.00	0.0	0.00	9.29	8	20
194.8	Ericsson AIR 6419 B77D/ C-Band	3	64	3.8	2.4	16.1	7.3	0.80	0.64	0.0	0.00	9.26	46	192
192.0	Ericsson RRUS 4478 B14 (18.1"	3	59	2.0	1.5	13.4	8.3	0.80	0.67	0.0	0.00	9.23	25	178
192.0	Ericsson Radio 4890HP B2/B25 B	3	68	2.2	1.5	15.2	6.9	0.80	0.67	0.0	0.00	9.23	28	204
192.0	Ericsson RRUS 4490	3	68	2.7	1.7	15.7	7.0	0.80	0.67	0.0	0.00	9.23	34	205
192.0	Raycap DC9-48-60-24-8C-EV (18.	1	19	3.2	2.6	18.2	10.2	0.80	1.00	0.0	0.00	9.23	20	18
192.0	Commscope NNH4-65C-R6-V4	6	94	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.00	9.23	412	562
192.0	Flat Light Sector Frame	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	9.23	237	1200
191.1	Ericsson AIR 6419 B77G	3	66	3.8	2.4	16.1	7.9	0.80	0.65	0.0	0.00	9.22	46	198
181.7	Andrew VHLP2-11	1	27	4.7	2.2	26.1	13.2	0.80	1.00	1.4	40.72	9.14	29	27
181.6	DragonWave Horizon Compact Plu	1	8	0.7	0.8	8.7	4.0	0.80	0.50	1.6	3.46	9.14	2	8
181.4	Samsung RRH-B8 w/ Finger Guard	2	60	2.6	1.8	15.0	9.5	0.80	0.50	1.4	22.93	9.14	16	119
181.4	KMW ET-X-TS-70-15-62-18-IR-RD	2	42	8.3	6.2	11.8	5.9	0.80	0.75	1.2	92.41	9.13	77	84
181.3	Samsung RRH-C2A (w/o External	2	53	2.5	1.6	15.7	6.7	0.80	0.50	1.3	20.39	9.13	16	106
181.2	Samsung RRH-P4	2	60	2.2	1.5	15.0	7.0	0.80	0.50	1.2	16.77	9.13	14	120
180.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	9.11	188	900
178.6	KMW ET-X-WM-18-65-8P	2	36	6.7	5.1	12.0	4.3	0.80	0.72	-1.7	100.95	9.07	59	73
165.4	Decibel DB878G105AXY	3	25	10.3	8.0	10.5	4.5	1.00	1.00	0.0	0.00	8.95	235	75
163.0	Round Sector Frame	1	300	14.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.92	109	300
155.0	Ceragon FibeAir IP-20D	1	14	0.7	0.8	9.2	3.9	0.90	1.00	0.0	0.00	8.82	5	14
155.0	Andrew VHLP2-11 (31 lb)	1	31	4.7	2.2	26.1	12.3	0.90	1.00	0.0	0.00	8.82	32	31
154.0	Commscope HELIAX FiberFeed 12	2	20	0.9	1.4	6.7	4.7	0.90	0.50	0.0	0.00	8.81	6	40
154.0	Nokia AirScale Dual RRH 4T4R B	3	84	2.2	1.8	12.1	7.4	0.90	0.67	0.0	0.00	8.81	30	251
154.0	Nokia AHFIG	3	79	3.1	2.3	13.4	6.8	0.90	0.66	0.0	0.00	8.81	41	238
154.0	Nokia AEHC	3	104	6.8	3.2	21.5	8.1	0.90	0.62	0.0	0.00	8.81	86	311
154.0	Commscope FFFV-65C-R3-V1	3	125	21.1	8.0	25.2	9.3	0.90	0.63	0.0	0.00	8.81	269	374
150.0	Generic Flat Light Sector Fram	2	800	17.9	0.0	0.0	0.0	0.90	0.90	0.0	0.00	8.76	216	1600
143.0	Alcatel-Lucent 9500 MPR (ODU)	2	13	1.1	0.9	11.3	4.7	1.00	0.50	0.0	0.00	8.68	8	26
143.0	Andrew VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	1.00	1.00	0.0	0.00	8.68	275	137
45.0	Andrew VHLPX6-11/A	1	137	37.3	6.1	73.6	36.5	1.00	1.00	1.4	303.59	6.84	217	137
Totals		67	7,749	562.3									2,786	7,749

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

TOWER LOADING - LINEAR APPURTENANCE

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient. Factor	K _a Override
0.0	197.7	0.78" (19.7mm) 8 AWG 6	2	0.78	0.59	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	197.7	0.39" (10mm) Fiber Trunk	1	0.39	0.06	100	3	Individual	0.00	N	1.00	1.00	0.01
0.0	197.7	0.39" (10mm) Fiber Trunk	1	0.39	0.06	100	3	Individual	0.00	N	1.00	1.00	0.01
0.0	196.0	Waveguide	2	2.00	6.00	100	1,3	Individual	0.00	N	1.00	1.00	0.00
0.0	192.0	1 5/8" Coax	10	1.98	0.82	100	3	Individual	0.00	N	1.00	1.00	0.01
0.0	192.0	1 5/8" Coax	1	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	192.0	.957" (24.3mm) 6 AWG 6C	3	0.96	0.74	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	192.0	3/8" (0.38"- 9.5mm) RET Contro	1	0.38	0.23	100	3	Individual	0.00	N	1.00	1.00	0.00
0.0	181.6	0.24" (6.1mm) Cat 5e	2	0.24	0.03	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	181.3	1.18" (30mm) Hybrid (Type 3)	2	1.18	0.84	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	180.0	Waveguide	1	2.00	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	155.0	5/8" Hybriflex	1	0.84	0.70	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	155.0	3/8" (0.38"- 9.5mm) RET Contro	1	0.38	0.23	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	154.0	1.46" (37.1mm) Hybrid	2	1.46	1.70	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	154.0	0.28" (7mm) RG-6	1	0.28	0.03	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	150.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	143.0	0.38" (9.7mm) Cat 5e	2	0.38	0.09	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	45.0	ETWP90	1	1.32	0.32	100	2	Individual	0.00	N	1.00	1.00	0.00

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

1.2D + 1.0W Normal

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _t (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	1155	0	745	291	1036
9	170	27.55	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1801	0	873	562	1435
8	150	26.84	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	2225	0	1033	682	1715
7	130	26.04	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.08	54.60	0.00	2765	0	1209	757	1965
6	110	25.14	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	23.79	65.11	0.00	3320	0	1391	731	2122
5	90	24.10	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	25.94	72.63	0.00	3433	0	1488	701	2188
4	70	22.86	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	28.23	80.36	0.00	3893	0	1561	664	2226
3	50	21.30	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	32.11	91.15	0.00	4661	0	1650	626	2276
2	30	19.12	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	34.46	99.04	0.00	4817	0	1610	582	2191
1	10	16.55	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	37.03	105.35	0.00	5294	0	1482	503	1985
Totals														33,363	0			19,141

1.2D + 1.0W 60°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _t (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	1155	0	651	291	942
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1801	0	766	562	1328
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	2225	0	908	682	1590
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	17.71	48.16	0.00	2765	0	1066	757	1823
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	20.94	57.30	0.00	3320	0	1224	731	1955
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	22.66	63.44	0.00	3433	0	1300	701	2000
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	24.51	69.77	0.00	3893	0	1356	664	2020
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	27.87	79.10	0.00	4661	0	1432	626	2058
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	29.81	85.67	0.00	4817	0	1393	582	1974
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	31.98	90.98	0.00	5294	0	1280	503	1783
Totals														33,363	0			17,473

1.2D + 1.0W 90°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _t (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	1155	0	675	291	965
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1801	0	793	562	1355
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	2225	0	939	682	1621
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.30	49.77	0.00	2765	0	1102	757	1858
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	21.65	59.25	0.00	3320	0	1266	731	1997
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	23.48	65.74	0.00	3433	0	1347	701	2047
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	25.44	72.42	0.00	3893	0	1407	664	2071
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	28.93	82.11	0.00	4661	0	1486	626	2113
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	30.97	89.01	0.00	4817	0	1447	582	2028
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	33.24	94.57	0.00	5294	0	1330	503	1834
Totals														33,363	0			17,890

1.2D + 1.0W 120°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _t (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	1155	0	745	291	1036
9	170	27.55	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1801	0	873	562	1435
8	150	26.84	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	2225	0	1033	682	1715
7	130	26.04	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.08	54.60	0.00	2765	0	1209	757	1965
6	110	25.14	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	23.79	65.11	0.00	3320	0	1391	731	2122
5	90	24.10	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	25.94	72.63	0.00	3433	0	1488	701	2188
4	70	22.86	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	28.23	80.36	0.00	3893	0	1561	664	2226
3	50	21.30	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	32.11	91.15	0.00	4661	0	1650	626	2276
2	30	19.12	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	34.46	99.04	0.00	4817	0	1610	582	2191
1	10	16.55	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	37.03	105.35	0.00	5294	0	1482	503	1985
Totals														33,363	0			19,141

1.2D + 1.0W 180°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _t (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	1155	0	651	291	942
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1801	0	766	562	1328
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	2225	0	908	682	1590
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	17.71	48.16	0.00	2765	0	1066	757	1823
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	20.94	57.30	0.00	3320	0	1224	731	1955
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	22.66	63.44	0.00	3433	0	1300	701	2000
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	24.51	69.77	0.00	3893	0	1356	664	2020
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	27.87	79.10	0.00	4661	0	1432	626	2058
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	29.81	85.67	0.00	4817	0	1393	582	1974

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

1.2D + 1.0W 180°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D ₁	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	31.98	90.98	0.00	5294	0	1280	503	1783
Totals															33,363	0		17,473

1.2D + 1.0W 210°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D ₁	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	1155	0	675	291	965
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1801	0	793	562	1355
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	2225	0	939	682	1621
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.30	49.77	0.00	2765	0	1102	757	1858
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	21.65	59.25	0.00	3320	0	1266	731	1997
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	23.48	65.74	0.00	3433	0	1347	701	2047
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	25.44	72.42	0.00	3893	0	1407	664	2071
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	28.93	82.11	0.00	4661	0	1486	626	2113
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	30.97	89.01	0.00	4817	0	1447	582	2028
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	33.24	94.57	0.00	5294	0	1330	503	1834
Totals															33,363	0		17,890

1.2D + 1.0W 240°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D ₁	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	1155	0	745	291	1036
9	170	27.55	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1801	0	873	562	1435
8	150	26.84	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	2225	0	1033	682	1715
7	130	26.04	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.08	54.60	0.00	2765	0	1209	757	1965
6	110	25.14	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	23.79	65.11	0.00	3320	0	1391	731	2122
5	90	24.10	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	25.94	72.63	0.00	3433	0	1488	701	2188
4	70	22.86	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	28.23	80.36	0.00	3893	0	1561	664	2226
3	50	21.30	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	32.11	91.15	0.00	4661	0	1650	626	2276
2	30	19.12	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	34.46	99.04	0.00	4817	0	1610	582	2191
1	10	16.55	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	37.03	105.35	0.00	5294	0	1482	503	1985
Totals															33,363	0		19,141

1.2D + 1.0W 300°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D ₁	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	1155	0	651	291	942
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1801	0	766	562	1328
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	2225	0	908	682	1590
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	17.71	48.16	0.00	2765	0	1066	757	1823
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	20.94	57.30	0.00	3320	0	1224	731	1955
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	22.66	63.44	0.00	3433	0	1300	701	2000
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	24.51	69.77	0.00	3893	0	1356	664	2020
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	27.87	79.10	0.00	4661	0	1432	626	2058
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	29.81	85.67	0.00	4817	0	1393	582	1974
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	31.98	90.98	0.00	5294	0	1280	503	1783
Totals															33,363	0		17,473

1.2D + 1.0W 330°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D ₁	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	1155	0	675	291	965
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1801	0	793	562	1355
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	2225	0	939	682	1621
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.30	49.77	0.00	2765	0	1102	757	1858
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	21.65	59.25	0.00	3320	0	1266	731	1997
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	23.48	65.74	0.00	3433	0	1347	701	2047
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	25.44	72.42	0.00	3893	0	1407	664	2071
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	28.93	82.11	0.00	4661	0	1486	626	2113
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	30.97	89.01	0.00	4817	0	1447	582	2028
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	33.24	94.57	0.00	5294	0	1330	503	1834
Totals															33,363	0		17,890

0.9D + 1.0W Normal

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D ₁	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	866	0	745	291	1036

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

0.9D + 1.0W Normal

Gust Response Factor (G_h): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (I_w): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _{se} (sf)	EPA _{se} (sf)	EPA _{si} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
9	170	27.55	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1351	0	873	562	1435
8	150	26.84	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	1668	0	1033	682	1715
7	130	26.04	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.08	54.60	0.00	2074	0	1209	757	1965
6	110	25.14	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	23.79	65.11	0.00	2490	0	1391	731	2122
5	90	24.10	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	25.94	72.63	0.00	2575	0	1488	701	2188
4	70	22.86	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	28.23	80.36	0.00	2920	0	1561	664	2226
3	50	21.30	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	32.11	91.15	0.00	3496	0	1650	626	2276
2	30	19.12	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	34.46	99.04	0.00	3612	0	1610	582	2191
1	10	16.55	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	37.03	105.35	0.00	3970	0	1482	503	1985
Totals															25,022	0		19,141

0.9D + 1.0W 60°

Gust Response Factor (G_h): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (I_w): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _{se} (sf)	EPA _{se} (sf)	EPA _{si} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	866	0	651	291	942
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1351	0	766	562	1328
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	1668	0	908	682	1590
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	17.71	48.16	0.00	2074	0	1066	757	1823
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	20.94	57.30	0.00	2490	0	1224	731	1955
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	22.66	63.44	0.00	2575	0	1300	701	2000
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	24.51	69.77	0.00	2920	0	1356	664	2020
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	27.87	79.10	0.00	3496	0	1432	626	2058
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	29.81	85.67	0.00	3612	0	1393	582	1974
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	31.98	90.98	0.00	3970	0	1280	503	1783
Totals															25,022	0		17,473

0.9D + 1.0W 90°

Gust Response Factor (G_h): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (I_w): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _{se} (sf)	EPA _{se} (sf)	EPA _{si} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	866	0	675	291	965
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1351	0	793	562	1355
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	1668	0	939	682	1621
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.30	49.77	0.00	2074	0	1102	757	1858
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	21.65	59.25	0.00	2490	0	1266	731	1997
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	23.48	65.74	0.00	2575	0	1347	701	2047
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	25.44	72.42	0.00	2920	0	1407	664	2071
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	28.93	82.11	0.00	3496	0	1486	626	2113
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	30.97	89.01	0.00	3612	0	1447	582	2028
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	33.24	94.57	0.00	3970	0	1330	503	1834
Totals															25,022	0		17,890

0.9D + 1.0W 120°

Gust Response Factor (G_h): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (I_w): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _{se} (sf)	EPA _{se} (sf)	EPA _{si} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	866	0	745	291	1036
9	170	27.55	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1351	0	873	562	1435
8	150	26.84	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	1668	0	1033	682	1715
7	130	26.04	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.08	54.60	0.00	2074	0	1209	757	1965
6	110	25.14	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	23.79	65.11	0.00	2490	0	1391	731	2122
5	90	24.10	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	25.94	72.63	0.00	2575	0	1488	701	2188
4	70	22.86	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	28.23	80.36	0.00	2920	0	1561	664	2226
3	50	21.30	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	32.11	91.15	0.00	3496	0	1650	626	2276
2	30	19.12	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	34.46	99.04	0.00	3612	0	1610	582	2191
1	10	16.55	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	37.03	105.35	0.00	3970	0	1482	503	1985
Totals															25,022	0		19,141

0.9D + 1.0W 180°

Gust Response Factor (G_h): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (I_w): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _r	D _r	D _r	T _{iz} (in)	A _{se} (sf)	EPA _{se} (sf)	EPA _{si} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	866	0	651	291	942
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1351	0	766	562	1328
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	1668	0	908	682	1590
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	17.71	48.16	0.00	2074	0	1066	757	1823
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	20.94	57.30	0.00	2490	0	1224	731	1955
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	22.66	63.44	0.00	2575	0	1300	701	2000
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	24.51	69.77	0.00	2920	0	1356	664	2020
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	27.87	79.10	0.00	3496	0	1432	626	2058
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	29.81	85.67	0.00	3612	0	1393	582	1974
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	31.98	90.98	0.00	3970	0	1280	503	1783

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

0.9D + 1.0W 180°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A ₀ (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
Totals														25,022	0			17,473

0.9D + 1.0W 210°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A ₀ (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	866	0	675	291	965
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1351	0	793	562	1355
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	1668	0	939	682	1621
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.30	49.77	0.00	2074	0	1102	757	1858
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	21.65	59.25	0.00	2490	0	1266	731	1997
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	23.48	65.74	0.00	2575	0	1347	701	2047
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	25.44	72.42	0.00	2920	0	1407	664	2071
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	28.93	82.11	0.00	3496	0	1486	626	2113
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	30.97	89.01	0.00	3612	0	1447	582	2028
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	33.24	94.57	0.00	3970	0	1330	503	1834
Totals														25,022	0			17,890

0.9D + 1.0W 240°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A ₀ (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	866	0	745	291	1036
9	170	27.55	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1351	0	873	562	1435
8	150	26.84	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	1668	0	1033	682	1715
7	130	26.04	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.08	54.60	0.00	2074	0	1209	757	1965
6	110	25.14	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	23.79	65.11	0.00	2490	0	1391	731	2122
5	90	24.10	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	25.94	72.63	0.00	2575	0	1488	701	2188
4	70	22.86	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	28.23	80.36	0.00	2920	0	1561	664	2226
3	50	21.30	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	32.11	91.15	0.00	3496	0	1650	626	2276
2	30	19.12	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	34.46	99.04	0.00	3612	0	1610	582	2191
1	10	16.55	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	37.03	105.35	0.00	3970	0	1482	503	1985
Totals														25,022	0			19,141

0.9D + 1.0W 300°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A ₀ (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	866	0	651	291	942
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1351	0	766	562	1328
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	1668	0	908	682	1590
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	17.71	48.16	0.00	2074	0	1066	757	1823
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	20.94	57.30	0.00	2490	0	1224	731	1955
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	22.66	63.44	0.00	2575	0	1300	701	2000
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	24.51	69.77	0.00	2920	0	1356	664	2020
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	27.87	79.10	0.00	3496	0	1432	626	2058
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	29.81	85.67	0.00	3612	0	1393	582	1974
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	31.98	90.98	0.00	3970	0	1280	503	1783
Totals														25,022	0			17,473

0.9D + 1.0W 330°

Gust Response Factor (Gh): 0.85

105 mph Wind with No Ice (Reduced DL)

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A ₀ (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	28.14	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	866	0	675	291	965
9	170	27.55	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1351	0	793	562	1355
8	150	26.84	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	1668	0	939	682	1621
7	130	26.04	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.30	49.77	0.00	2074	0	1102	757	1858
6	110	25.14	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	21.65	59.25	0.00	2490	0	1266	731	1997
5	90	24.10	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	23.48	65.74	0.00	2575	0	1347	701	2047
4	70	22.86	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	25.44	72.42	0.00	2920	0	1407	664	2071
3	50	21.30	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	28.93	82.11	0.00	3496	0	1486	626	2113
2	30	19.12	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	30.97	89.01	0.00	3612	0	1447	582	2028
1	10	16.55	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	33.24	94.57	0.00	3970	0	1330	503	1834
Totals														25,022	0			17,890

1.2D + 1.0Di + 1.0Wi Normal

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A ₀ (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	1.00	1.00	0.3	14.47	35.45	4.25	1530	375	192	103	295
9	170	6.25	8.606	14.564	4.98	0.234	2.49	1.00	1.00	0.3	17.07	42.46	4.98	2345	544	225	210	436

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

1.2D + 1.0Di + 1.0Wi Normal

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
8	150	6.09	10.400	17.247	5.56	0.228	2.51	1.00	1.00	0.3	20.40	51.11	5.56	2848	624	264	263	527
7	130	5.90	11.843	20.485	5.46	0.197	2.61	1.00	1.00	0.3	23.60	61.53	5.46	3451	686	309	303	612
6	110	5.70	14.277	23.809	5.23	0.184	2.65	1.00	1.00	0.3	27.89	73.92	5.23	4054	734	358	294	652
5	90	5.46	16.403	24.175	5.60	0.164	2.72	1.00	1.00	0.3	30.16	82.02	5.60	4185	752	381	285	666
4	70	5.18	18.612	24.517	5.94	0.150	2.77	1.00	1.00	0.3	32.53	90.12	5.94	4660	767	397	271	668
3	50	4.83	21.229	27.118	5.00	0.147	2.78	1.00	1.00	0.3	36.61	101.88	5.00	5460	798	418	253	672
2	30	4.34	23.261	27.169	5.04	0.136	2.82	1.00	1.00	0.2	38.65	109.10	5.04	5609	792	402	235	637
1	10	3.75	25.252	33.587	4.79	0.142	2.80	1.00	1.00	0.2	44.29	124.10	4.79	6057	763	396	196	592
Totals															40,198	6,835		5,756

1.2D + 1.0Di + 1.0Wi 60°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	0.80	1.00	0.3	12.97	31.77	4.25	1530	375	172	103	275
9	170	6.25	8.606	14.564	4.98	0.234	2.49	0.80	1.00	0.3	15.35	38.18	4.98	2345	544	203	210	413
8	150	6.09	10.400	17.247	5.56	0.228	2.51	0.80	1.00	0.3	18.32	45.90	5.56	2848	624	237	263	500
7	130	5.90	11.843	20.485	5.46	0.197	2.61	0.80	1.00	0.3	21.23	55.35	5.46	3451	686	278	303	581
6	110	5.70	14.277	23.809	5.23	0.184	2.65	0.80	1.00	0.3	25.04	66.35	5.23	4054	734	322	294	616
5	90	5.46	16.403	24.175	5.60	0.164	2.72	0.80	1.00	0.3	26.88	73.10	5.60	4185	752	340	285	624
4	70	5.18	18.612	24.517	5.94	0.150	2.77	0.80	1.00	0.3	28.80	79.81	5.94	4660	767	352	271	622
3	50	4.83	21.229	27.118	5.00	0.147	2.78	0.80	1.00	0.3	32.37	90.06	5.00	5460	798	370	253	623
2	30	4.34	23.261	27.169	5.04	0.136	2.82	0.80	1.00	0.2	33.99	95.97	5.04	5609	792	354	235	588
1	10	3.75	25.252	33.587	4.79	0.142	2.80	0.80	1.00	0.2	39.24	109.95	4.79	6057	763	351	196	546
Totals															40,198	6,835		5,389

1.2D + 1.0Di + 1.0Wi 90°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	0.85	1.00	0.3	13.35	32.69	4.25	1530	375	177	103	280
9	170	6.25	8.606	14.564	4.98	0.234	2.49	0.85	1.00	0.3	15.78	39.25	4.98	2345	544	208	210	419
8	150	6.09	10.400	17.247	5.56	0.228	2.51	0.85	1.00	0.3	18.84	47.21	5.56	2848	624	244	263	507
7	130	5.90	11.843	20.485	5.46	0.197	2.61	0.85	1.00	0.3	21.82	56.90	5.46	3451	686	286	303	589
6	110	5.70	14.277	23.809	5.23	0.184	2.65	0.85	1.00	0.3	25.75	68.24	5.23	4054	734	331	294	625
5	90	5.46	16.403	24.175	5.60	0.164	2.72	0.85	1.00	0.3	27.70	75.33	5.60	4185	752	350	285	634
4	70	5.18	18.612	24.517	5.94	0.150	2.77	0.85	1.00	0.3	29.74	82.38	5.94	4660	767	363	271	634
3	50	4.83	21.229	27.118	5.00	0.147	2.78	0.85	1.00	0.3	33.43	93.02	5.00	5460	798	382	253	635
2	30	4.34	23.261	27.169	5.04	0.136	2.82	0.85	1.00	0.2	35.16	99.25	5.04	5609	792	366	235	600
1	10	3.75	25.252	33.587	4.79	0.142	2.80	0.85	1.00	0.2	40.50	113.49	4.79	6057	763	362	196	558
Totals															40,198	6,835		5,481

1.2D + 1.0Di + 1.0Wi 120°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	1.00	1.00	0.3	14.47	35.45	4.25	1530	375	192	103	295
9	170	6.25	8.606	14.564	4.98	0.234	2.49	1.00	1.00	0.3	17.07	42.46	4.98	2345	544	225	210	436
8	150	6.09	10.400	17.247	5.56	0.228	2.51	1.00	1.00	0.3	20.40	51.11	5.56	2848	624	264	263	527
7	130	5.90	11.843	20.485	5.46	0.197	2.61	1.00	1.00	0.3	23.60	61.53	5.46	3451	686	309	303	612
6	110	5.70	14.277	23.809	5.23	0.184	2.65	1.00	1.00	0.3	27.89	73.92	5.23	4054	734	358	294	652
5	90	5.46	16.403	24.175	5.60	0.164	2.72	1.00	1.00	0.3	30.16	82.02	5.60	4185	752	381	285	666
4	70	5.18	18.612	24.517	5.94	0.150	2.77	1.00	1.00	0.3	32.53	90.12	5.94	4660	767	397	271	668
3	50	4.83	21.229	27.118	5.00	0.147	2.78	1.00	1.00	0.3	36.61	101.88	5.00	5460	798	418	253	672
2	30	4.34	23.261	27.169	5.04	0.136	2.82	1.00	1.00	0.2	38.65	109.10	5.04	5609	792	402	235	637
1	10	3.75	25.252	33.587	4.79	0.142	2.80	1.00	1.00	0.2	44.29	124.10	4.79	6057	763	396	196	592
Totals															40,198	6,835		5,756

1.2D + 1.0Di + 1.0Wi 180°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	0.80	1.00	0.3	12.97	31.77	4.25	1530	375	172	103	275
9	170	6.25	8.606	14.564	4.98	0.234	2.49	0.80	1.00	0.3	15.35	38.18	4.98	2345	544	203	210	413
8	150	6.09	10.400	17.247	5.56	0.228	2.51	0.80	1.00	0.3	18.32	45.90	5.56	2848	624	237	263	500
7	130	5.90	11.843	20.485	5.46	0.197	2.61	0.80	1.00	0.3	21.23	55.35	5.46	3451	686	278	303	581
6	110	5.70	14.277	23.809	5.23	0.184	2.65	0.80	1.00	0.3	25.04	66.35	5.23	4054	734	322	294	616
5	90	5.46	16.403	24.175	5.60	0.164	2.72	0.80	1.00	0.3	26.88	73.10	5.60	4185	752	340	285	624
4	70	5.18	18.612	24.517	5.94	0.150	2.77	0.80	1.00	0.3	28.80	79.81	5.94	4660	767	352	271	622
3	50	4.83	21.229	27.118	5.00	0.147	2.78	0.80	1.00	0.3	32.37	90.06	5.00	5460	798	370	253	623
2	30	4.34	23.261	27.169	5.04	0.136	2.82	0.80	1.00	0.2	33.99	95.97	5.04	5609	792	354	235	588
1	10	3.75	25.252	33.587	4.79	0.142	2.80	0.80	1.00	0.2	39.24	109.95	4.79	6057	763	351	196	546
Totals															40,198	6,835		5,389

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 210°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _b (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	0.85	1.00	0.3	13.35	32.69	4.25	1530	375	177	103	280
9	170	6.25	8.606	14.564	4.98	0.234	2.49	0.85	1.00	0.3	15.78	39.25	4.98	2345	544	208	210	419
8	150	6.09	10.400	17.247	5.56	0.228	2.51	0.85	1.00	0.3	18.84	47.21	5.56	2848	624	244	263	507
7	130	5.90	11.843	20.485	5.46	0.197	2.61	0.85	1.00	0.3	21.82	56.90	5.46	3451	686	286	303	589
6	110	5.70	14.277	23.809	5.23	0.184	2.65	0.85	1.00	0.3	25.75	68.24	5.23	4054	734	331	294	625
5	90	5.46	16.403	24.175	5.60	0.164	2.72	0.85	1.00	0.3	27.70	75.33	5.60	4185	752	350	285	634
4	70	5.18	18.612	24.517	5.94	0.150	2.77	0.85	1.00	0.3	29.74	82.38	5.94	4660	767	363	271	634
3	50	4.83	21.229	27.118	5.00	0.147	2.78	0.85	1.00	0.3	33.43	93.02	5.00	5460	798	382	253	635
2	30	4.34	23.261	27.169	5.04	0.136	2.82	0.85	1.00	0.2	35.16	99.25	5.04	5609	792	366	235	600
1	10	3.75	25.252	33.587	4.79	0.142	2.80	0.85	1.00	0.2	40.50	113.49	4.79	6057	763	362	196	558
Totals															40,198	6,835		5,481

1.2D + 1.0Di + 1.0Wi 240°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _b (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	1.00	1.00	0.3	14.47	35.45	4.25	1530	375	192	103	295
9	170	6.25	8.606	14.564	4.98	0.234	2.49	1.00	1.00	0.3	17.07	42.46	4.98	2345	544	225	210	436
8	150	6.09	10.400	17.247	5.56	0.228	2.51	1.00	1.00	0.3	20.40	51.11	5.56	2848	624	264	263	527
7	130	5.90	11.843	20.485	5.46	0.197	2.61	1.00	1.00	0.3	23.60	61.53	5.46	3451	686	309	303	612
6	110	5.70	14.277	23.809	5.23	0.184	2.65	1.00	1.00	0.3	27.89	73.92	5.23	4054	734	358	294	652
5	90	5.46	16.403	24.175	5.60	0.164	2.72	1.00	1.00	0.3	30.16	82.02	5.60	4185	752	381	285	666
4	70	5.18	18.612	24.517	5.94	0.150	2.77	1.00	1.00	0.3	32.53	90.12	5.94	4660	767	397	271	668
3	50	4.83	21.229	27.118	5.00	0.147	2.78	1.00	1.00	0.3	36.61	101.88	5.00	5460	798	418	253	672
2	30	4.34	23.261	27.169	5.04	0.136	2.82	1.00	1.00	0.2	38.65	109.10	5.04	5609	792	402	235	637
1	10	3.75	25.252	33.587	4.79	0.142	2.80	1.00	1.00	0.2	44.29	124.10	4.79	6057	763	396	196	592
Totals															40,198	6,835		5,756

1.2D + 1.0Di + 1.0Wi 300°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _b (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	0.80	1.00	0.3	12.97	31.77	4.25	1530	375	172	103	275
9	170	6.25	8.606	14.564	4.98	0.234	2.49	0.80	1.00	0.3	15.35	38.18	4.98	2345	544	203	210	413
8	150	6.09	10.400	17.247	5.56	0.228	2.51	0.80	1.00	0.3	18.32	45.90	5.56	2848	624	237	263	500
7	130	5.90	11.843	20.485	5.46	0.197	2.61	0.80	1.00	0.3	21.23	55.35	5.46	3451	686	278	303	581
6	110	5.70	14.277	23.809	5.23	0.184	2.65	0.80	1.00	0.3	25.04	66.35	5.23	4054	734	322	294	616
5	90	5.46	16.403	24.175	5.60	0.164	2.72	0.80	1.00	0.3	26.88	73.10	5.60	4185	752	340	285	624
4	70	5.18	18.612	24.517	5.94	0.150	2.77	0.80	1.00	0.3	28.80	79.81	5.94	4660	767	352	271	622
3	50	4.83	21.229	27.118	5.00	0.147	2.78	0.80	1.00	0.3	32.37	90.06	5.00	5460	798	370	253	623
2	30	4.34	23.261	27.169	5.04	0.136	2.82	0.80	1.00	0.2	33.99	95.97	5.04	5609	792	354	235	588
1	10	3.75	25.252	33.587	4.79	0.142	2.80	0.80	1.00	0.2	39.24	109.95	4.79	6057	763	351	196	546
Totals															40,198	6,835		5,389

1.2D + 1.0Di + 1.0Wi 330°

Gust Response Factor (Gh): 0.85

50 mph Wind with 0.25" Radial Ice

Wind Importance Factor (Iw): 1.00

Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _b (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	6.38	7.515	11.916	4.25	0.246	2.45	0.85	1.00	0.3	13.35	32.69	4.25	1530	375	177	103	280
9	170	6.25	8.606	14.564	4.98	0.234	2.49	0.85	1.00	0.3	15.78	39.25	4.98	2345	544	208	210	419
8	150	6.09	10.400	17.247	5.56	0.228	2.51	0.85	1.00	0.3	18.84	47.21	5.56	2848	624	244	263	507
7	130	5.90	11.843	20.485	5.46	0.197	2.61	0.85	1.00	0.3	21.82	56.90	5.46	3451	686	286	303	589
6	110	5.70	14.277	23.809	5.23	0.184	2.65	0.85	1.00	0.3	25.75	68.24	5.23	4054	734	331	294	625
5	90	5.46	16.403	24.175	5.60	0.164	2.72	0.85	1.00	0.3	27.70	75.33	5.60	4185	752	350	285	634
4	70	5.18	18.612	24.517	5.94	0.150	2.77	0.85	1.00	0.3	29.74	82.38	5.94	4660	767	363	271	634
3	50	4.83	21.229	27.118	5.00	0.147	2.78	0.85	1.00	0.3	33.43	93.02	5.00	5460	798	382	253	635
2	30	4.34	23.261	27.169	5.04	0.136	2.82	0.85	1.00	0.2	35.16	99.25	5.04	5609	792	366	235	600
1	10	3.75	25.252	33.587	4.79	0.142	2.80	0.85	1.00	0.2	40.50	113.49	4.79	6057	763	362	196	558
Totals															40,198	6,835		5,481

1.0D + 1.0W Service Normal

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A _f (sf)	A _r (sf)	Ice A _r (sf)	e	C _f	D _f	D _r	T _{iz} (in)	A _b (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	963	0	243	95	338
9	170	9.00	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1501	0	285	183	468
8	150	8.76	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	1854	0	337	223	560
7	130	8.50	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.40	55.46	0.00	2304	0	401	247	648
6	110	8.21	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	24.84	67.98	0.00	2767	0	474	239	713
5	90	7.87	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	26.93	75.41	0.00	2861	0	504	229	733
4	70	7.46	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	29.12	82.90	0.00	3244	0	526	217	743
3	50	6.95	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	33.75	95.79	0.00	3685	0	566	204	771

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

1.0D + 1.0W Service Normal
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
2	30	6.24	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	35.77	102.80	0.00	4014	0	546	190	736
1	10	5.40	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	40.88	116.30	0.00	4411	0	534	164	699
Totals															27,802	0		6,409

1.0D + 1.0W Service 60°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	963	0	213	95	308
9	170	9.00	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1501	0	250	183	434
8	150	8.76	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	1854	0	296	223	519
7	130	8.50	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	18.03	49.02	0.00	2304	0	354	247	601
6	110	8.21	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	21.98	60.16	0.00	2767	0	420	239	658
5	90	7.87	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	23.65	66.23	0.00	2861	0	443	229	672
4	70	7.46	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	25.40	72.30	0.00	3244	0	459	217	676
3	50	6.95	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	29.50	83.74	0.00	3885	0	495	204	699
2	30	6.24	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	31.12	89.43	0.00	4014	0	475	190	665
1	10	5.40	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	35.83	101.93	0.00	4411	0	468	164	633
Totals															27,802	0		5,864

1.0D + 1.0W Service 90°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	963	0	220	95	315
9	170	9.00	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1501	0	259	183	442
8	150	8.76	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	1854	0	307	223	529
7	130	8.50	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.62	50.63	0.00	2304	0	366	247	613
6	110	8.21	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	22.70	62.12	0.00	2767	0	433	239	672
5	90	7.87	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	24.47	68.52	0.00	2861	0	458	229	687
4	70	7.46	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	26.33	74.95	0.00	3244	0	476	217	692
3	50	6.95	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	30.56	86.75	0.00	3885	0	513	204	717
2	30	6.24	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	32.28	92.78	0.00	4014	0	492	190	682
1	10	5.40	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	37.09	105.52	0.00	4411	0	485	164	649
Totals															27,802	0		6,000

1.0D + 1.0W Service 120°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	963	0	243	95	338
9	170	9.00	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1501	0	285	183	468
8	150	8.76	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	1854	0	337	223	560
7	130	8.50	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.40	55.46	0.00	2304	0	401	247	648
6	110	8.21	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	24.84	67.98	0.00	2767	0	474	239	713
5	90	7.87	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	26.93	75.41	0.00	2861	0	504	229	733
4	70	7.46	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	29.12	82.90	0.00	3244	0	526	217	743
3	50	6.95	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	33.75	95.79	0.00	3885	0	566	204	771
2	30	6.24	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	35.77	102.80	0.00	4014	0	546	190	736
1	10	5.40	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	40.88	116.30	0.00	4411	0	534	164	699
Totals															27,802	0		6,409

1.0D + 1.0W Service 180°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	963	0	213	95	308
9	170	9.00	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1501	0	250	183	434
8	150	8.76	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	1854	0	296	223	519
7	130	8.50	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	18.03	49.02	0.00	2304	0	354	247	601
6	110	8.21	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	21.98	60.16	0.00	2767	0	420	239	658
5	90	7.87	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	23.65	66.23	0.00	2861	0	443	229	672
4	70	7.46	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	25.40	72.30	0.00	3244	0	459	217	676
3	50	6.95	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	29.50	83.74	0.00	3885	0	495	204	699
2	30	6.24	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	31.12	89.43	0.00	4014	0	475	190	665
1	10	5.40	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	35.83	101.93	0.00	4411	0	468	164	633
Totals															27,802	0		5,864

1.0D + 1.0W Service 210°
60 mph Wind with No Ice

Gust Response Factor (Gh): 0.85
Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _Z (psf)	A _r (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D _t	D _r	T _{iz} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{st} (lb)	F _a (lb)	Force (lb)
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ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

SECTION FORCES

1.0D + 1.0W Service 210°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D ₁	D ₂	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	963	0	220	95	315
9	170	9.00	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1501	0	259	183	442
8	150	8.76	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	1854	0	307	223	529
7	130	8.50	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.62	50.63	0.00	2304	0	366	247	613
6	110	8.21	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	22.70	62.12	0.00	2767	0	433	239	672
5	90	7.87	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	24.47	68.52	0.00	2861	0	458	229	687
4	70	7.46	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	26.33	74.95	0.00	3244	0	476	217	692
3	50	6.95	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	30.56	86.75	0.00	3885	0	513	204	717
2	30	6.24	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	32.28	92.78	0.00	4014	0	492	190	682
1	10	5.40	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	37.09	105.52	0.00	4411	0	485	164	649
Totals															27,802	0		6,000

1.0D + 1.0W Service 240°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D ₁	D ₂	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	1.00	1.00	0.0	11.91	31.15	0.00	963	0	243	95	338
9	170	9.00	8.606	9.583	0.00	0.185	2.65	1.00	1.00	0.0	14.09	37.27	0.00	1501	0	285	183	468
8	150	8.76	10.400	11.688	0.00	0.184	2.65	1.00	1.00	0.0	17.08	45.30	0.00	1854	0	337	223	560
7	130	8.50	11.843	15.027	0.00	0.164	2.72	1.00	1.00	0.0	20.40	55.46	0.00	2304	0	401	247	648
6	110	8.21	14.277	18.574	0.00	0.160	2.74	1.00	1.00	0.0	24.84	67.98	0.00	2767	0	474	239	713
5	90	7.87	16.403	18.574	0.00	0.142	2.80	1.00	1.00	0.0	26.93	75.41	0.00	2861	0	504	229	733
4	70	7.46	18.612	18.575	0.00	0.130	2.85	1.00	1.00	0.0	29.12	82.90	0.00	3244	0	526	217	743
3	50	6.95	21.229	22.120	0.00	0.132	2.84	1.00	1.00	0.0	33.75	95.79	0.00	3885	0	566	204	771
2	30	6.24	23.261	22.126	0.00	0.123	2.87	1.00	1.00	0.0	35.77	102.80	0.00	4014	0	546	190	736
1	10	5.40	25.252	28.798	0.00	0.130	2.84	1.00	1.00	0.0	40.88	116.30	0.00	4411	0	534	164	699
Totals															27,802	0		6,409

1.0D + 1.0W Service 300°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D ₁	D ₂	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	0.80	1.00	0.0	10.41	27.22	0.00	963	0	213	95	308
9	170	9.00	8.606	9.583	0.00	0.185	2.65	0.80	1.00	0.0	12.37	32.72	0.00	1501	0	250	183	434
8	150	8.76	10.400	11.688	0.00	0.184	2.65	0.80	1.00	0.0	15.00	39.78	0.00	1854	0	296	223	519
7	130	8.50	11.843	15.027	0.00	0.164	2.72	0.80	1.00	0.0	18.03	49.02	0.00	2304	0	354	247	601
6	110	8.21	14.277	18.574	0.00	0.160	2.74	0.80	1.00	0.0	21.98	60.16	0.00	2767	0	420	239	658
5	90	7.87	16.403	18.574	0.00	0.142	2.80	0.80	1.00	0.0	23.65	66.23	0.00	2861	0	443	229	672
4	70	7.46	18.612	18.575	0.00	0.130	2.85	0.80	1.00	0.0	25.40	72.30	0.00	3244	0	459	217	676
3	50	6.95	21.229	22.120	0.00	0.132	2.84	0.80	1.00	0.0	29.50	83.74	0.00	3885	0	495	204	699
2	30	6.24	23.261	22.126	0.00	0.123	2.87	0.80	1.00	0.0	31.12	89.43	0.00	4014	0	475	190	665
1	10	5.40	25.252	28.798	0.00	0.130	2.84	0.80	1.00	0.0	35.83	101.93	0.00	4411	0	468	164	633
Totals															27,802	0		5,864

1.0D + 1.0W Service 330°

Gust Response Factor (Gh): 0.85

60 mph Wind with No Ice

Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q _z (psf)	A ₁ (sf)	A _r (sf)	Ice A _r (sf)	e	C _t	D ₁	D ₂	T _{1z} (in)	A _e (sf)	EPA _a (sf)	EPA _{ai} (sf)	Wt (lb)	Ice Wt (lb)	F _{sl} (lb)	F _a (lb)	Force (lb)
10	188	9.19	7.515	7.667	0.00	0.194	2.62	0.85	1.00	0.0	10.78	28.21	0.00	963	0	220	95	315
9	170	9.00	8.606	9.583	0.00	0.185	2.65	0.85	1.00	0.0	12.80	33.86	0.00	1501	0	259	183	442
8	150	8.76	10.400	11.688	0.00	0.184	2.65	0.85	1.00	0.0	15.52	41.16	0.00	1854	0	307	223	529
7	130	8.50	11.843	15.027	0.00	0.164	2.72	0.85	1.00	0.0	18.62	50.63	0.00	2304	0	366	247	613
6	110	8.21	14.277	18.574	0.00	0.160	2.74	0.85	1.00	0.0	22.70	62.12	0.00	2767	0	433	239	672
5	90	7.87	16.403	18.574	0.00	0.142	2.80	0.85	1.00	0.0	24.47	68.52	0.00	2861	0	458	229	687
4	70	7.46	18.612	18.575	0.00	0.130	2.85	0.85	1.00	0.0	26.33	74.95	0.00	3244	0	476	217	692
3	50	6.95	21.229	22.120	0.00	0.132	2.84	0.85	1.00	0.0	30.56	86.75	0.00	3885	0	513	204	717
2	30	6.24	23.261	22.126	0.00	0.123	2.87	0.85	1.00	0.0	32.28	92.78	0.00	4014	0	492	190	682
1	10	5.40	25.252	28.798	0.00	0.130	2.84	0.85	1.00	0.0	37.09	105.52	0.00	4411	0	485	164	649
Totals															27,802	0		6,000

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

EQUIVALENT LATERAL FORCE METHOD

Spectral Response Acceleration for Short Period (S_S):	0.26
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_a):	1.00
Site Coefficient F_a :	1.59
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.28
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.12
Seismic Response Coefficient (C_S):	0.03
Upper Limit C_S :	0.03
Lower Limit C_S :	0.03
Period based on Rayleigh Method (sec):	1.13
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.32
Total Unfactored Dead Load:	35.55 k
Seismic Base Shear (E):	1.57 k

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_2 (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
10	188.00	963	944,267	0.059	92	813
9	170.00	1,501	1,289,543	0.080	126	1,267
8	150.00	1,854	1,351,098	0.084	132	1,565
7	130.00	2,304	1,391,215	0.087	136	1,946
6	110.00	2,767	1,340,896	0.084	131	2,336
5	90.00	2,861	1,064,766	0.066	104	2,416
4	70.00	3,244	867,577	0.054	85	2,739
3	50.00	3,885	667,305	0.042	65	3,280
2	30.00	4,014	352,134	0.022	34	3,389
1	10.00	4,411	91,216	0.006	9	3,725
Raycap DC6-48-60-18-8F	196.00	20	20,724	0.001	2	17
Ericsson AIR 6419 B77D/ C-Band	194.80	192	197,352	0.012	19	162
Ericsson RRUS 4478 B14 (18.1" Height)	192.00	178	179,711	0.011	18	150
Ericsson Radio 4890HP B2/B25 B66	192.00	204	205,730	0.013	20	172
Ericsson RRUS 4490	192.00	205	206,940	0.013	20	173
Raycap DC9-48-60-24-8C-EV (18.5lbs)	192.00	18	18,657	0.001	2	16
Commscope NNH4-65C-R6-V4	192.00	562	566,968	0.035	55	475
Flat Light Sector Frame	192.00	1,200	1,210,178	0.075	118	1,013
Ericsson AIR 6419 B77G	191.10	198	198,750	0.012	19	167
Andrew VHLP2-11	181.70	27	25,324	0.002	2	23
DragonWave Horizon Compact Plus	181.60	8	7,029	0.000	1	6
Samsung RRH-B8 w/ Finger Guard	181.40	119	111,370	0.007	11	100
KMW ET-X-TS-70-15-62-18-iR-RD	181.40	84	78,427	0.005	8	71
Samsung RRH-C2A (w/o External Filter)	181.30	106	98,945	0.006	10	89
Samsung RRH-P4	181.20	120	112,143	0.007	11	101
Round Sector Frame	180.00	900	833,756	0.052	81	760
KMW ET-X-WM-18-65-8P	178.60	73	66,752	0.004	7	61
Decibel DB878G105AXY	165.40	75	62,163	0.004	6	63
Round Sector Frame	163.00	300	243,916	0.015	24	253
Ceragon FibeAir IP-20D	155.00	14	10,882	0.001	1	12
Andrew VHLP2-11 (31 lb)	155.00	31	23,590	0.002	2	26
Commscope HELIAX FiberFeed 12 RRU Pendant Connect	154.00	40	30,181	0.002	3	34
Nokia AirScale Dual RRH 4T4R B12/71 240W AHLOA	154.00	251	189,686	0.012	19	212
Nokia AHFIG	154.00	238	179,726	0.011	18	201
Nokia AEHC	154.00	311	234,504	0.015	23	262
Commscope FFFV-65C-R3-V1	154.00	374	282,039	0.018	28	316
Generic Flat Light Sector Frame	150.00	1,600	1,166,149	0.073	114	1,351
Alcatel-Lucent 9500 MPR (ODU)	143.00	26	18,069	0.001	2	22
Andrew VHLPX6-11/A	143.00	137	93,767	0.006	9	116
Andrew VHLPX6-11/A	45.00	137	20,489	0.001	2	116
Totals		35,552	16,053,933	1.000	1,569	30,021

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
10	188.00	963	944,267	0.059	92	1,209
9	170.00	1,501	1,289,543	0.080	126	1,884
8	150.00	1,854	1,351,098	0.084	132	2,328
7	130.00	2,304	1,391,215	0.087	136	2,893
6	110.00	2,767	1,340,896	0.084	131	3,474
5	90.00	2,861	1,064,766	0.066	104	3,592
4	70.00	3,244	867,577	0.054	85	4,073
3	50.00	3,885	667,305	0.042	65	4,877
2	30.00	4,014	352,134	0.022	34	5,040
1	10.00	4,411	91,216	0.006	9	5,539
Raycap DC6-48-60-18-8F	196.00	20	20,724	0.001	2	25
Ericsson AIR 6419 B77D/ C-Band	194.80	192	197,352	0.012	19	241
Ericsson RRUS 4478 B14 (18.1" Height)	192.00	178	179,711	0.011	18	224
Ericsson Radio 4890HP B2/B25 B66	192.00	204	205,730	0.013	20	256
Ericsson RRUS 4490	192.00	205	206,940	0.013	20	258
Raycap DC9-48-60-24-8C-EV (18.5lbs)	192.00	18	18,657	0.001	2	23
Commscope NNH4-65C-R6-V4	192.00	562	566,968	0.035	55	706
Flat Light Sector Frame	192.00	1,200	1,210,178	0.075	118	1,507
Ericsson AIR 6419 B77G	191.10	198	198,750	0.012	19	249
Andrew VHLP2-11	181.70	27	25,324	0.002	2	34
DragonWave Horizon Compact Plus	181.60	8	7,029	0.000	1	9
Samsung RRH-B8 w/ Finger Guard	181.40	119	111,370	0.007	11	149
KMW ET-X-TS-70-15-62-18-iR-RD	181.40	84	78,427	0.005	8	105
Samsung RRH-C2A (w/o External Filter)	181.30	106	98,945	0.006	10	133
Samsung RRH-P4	181.20	120	112,143	0.007	11	151
Round Sector Frame	180.00	900	833,756	0.052	81	1,130
KMW ET-X-WM-18-65-8P	178.60	73	66,752	0.004	7	91
Decibel DB878G105AXY	165.40	75	62,163	0.004	6	94
Round Sector Frame	163.00	300	243,916	0.015	24	377
Ceragon FibeAir IP-20D	155.00	14	10,882	0.001	1	18
Andrew VHLP2-11 (31 lb)	155.00	31	23,590	0.002	2	39
Commscope HELIAX FiberFeed 12 RRU Pendant Connect	154.00	40	30,181	0.002	3	50
Nokia AirScale Dual RRH 4T4R B12/71 240W AHLOA	154.00	251	189,686	0.012	19	316
Nokia AHFIG	154.00	238	179,726	0.011	18	299
Nokia AEHC	154.00	311	234,504	0.015	23	390
Commscope FFFV-65C-R3-V1	154.00	374	282,039	0.018	28	469
Generic Flat Light Sector Frame	150.00	1,600	1,166,149	0.073	114	2,009
Alcatel-Lucent 9500 MPR (ODU)	143.00	26	18,069	0.001	2	33
Andrew VHLPX6-11/A	143.00	137	93,767	0.006	9	172
Andrew VHLPX6-11/A	45.00	137	20,489	0.001	2	172
Totals		35,552	16,053,933	1.000	1,569	44,637

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

FORCE/STRESS SUMMARY

Section 1 - 0.0' to 20.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
L PSP - ROHN 8 EHS		-184.68	1.2D + 1.0W N	10.017	100	100	100	41.16	50.00	386.43	0.00	0.00	0	0	47.8	Member X
D SAE - 3.5x3.5x0.25		-4.42	1.2D + 1.0W 120°	22.811	50	50	50	198.93	50.00	12.22	19.88	23.40	1	1	36.1	Member Z
Member Tension		Pu (kip)	Load Case		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)		# Bolt	# Hole	Use %	Controls	
L PSP - ROHN 8 EHS		152.81	0.9D + 1.0W 180°		50.0	65	437.40	0.00	0.00			0	0	34.9	Member	
D SAE - 3.5x3.5x0.25		4.26	1.2D + 1.0W 210°		50.0	65	54.36	19.88	14.14	17.98		1	1	30.2	Bolt Bear	
Max Splice Forces		Pu (kip)	Load Case		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type								
Bot Tension		156.54	0.9D + 1.0W 180°		454.31	12	8	1" A354-BC								
Bot Compression		188.92	1.2D + 1.0W N		528.21	0.4	0									

Section 2 - 20.0' to 40.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls			
L PX - 6" DIA PIPE		-169.91	1.2D + 1.0W N	10.019	X	Y	Z	100	100	100	54.77	50.00	303.54	0.00	0.00	0	0	56	Member X
D SAE - 3.5x3.5x0.25		-4.06	0.9D + 1.0W 210°	21	50	50	50	183.14	50.00	14.42	19.88	23.40	1	1	28.1			Member Z	
Member Tension		Pu (kip)	Load Case		F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)		# Bolt	# Hole	Use %	Controls				
L PX - 6" DIA PIPE		141.03	0.9D + 1.0W 180°		50.0	65	378.00	0.00	0.00			0	0	37.3	Member				
D SAE - 3.5x3.5x0.25		3.95	0.9D + 1.0W 330°		50.0	65	54.36	19.88	14.14	17.98		1	1	27.9	Bolt Bear				
Max Splice Forces		Pu (kip)	Load Case		ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type											
Bot Tension		143.45	0.9D + 1.0W 180°		436.14	32.9	8	1 A325											

Section 3 - 40.0' to 60.00'

		Pu (kip)	Load Case	Len (ft)	Bracing %				F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
Member Compression					X	Y	Z	KL/R								
L PX - 6" DIA PIPE		-153.79	1.2D + 1.0W N	10.017	100	100	100	54.76	50.00	303.58	0.00	0.00	0	0	50.7	Member X
D SAE - 3.5x3.5x0.25		-4.00	1.2D + 1.0W 330°	19.171	50	50	50	167.19	50.00	17.30	19.88	23.40	1	1	23.1	Member Z
		Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
Member Tension																
L PX - 6" DIA PIPE		128.87	0.9D + 1.0W 180°	50.0	65	378.00	0.00	0.00		0	0	34.1	Member			
D SAE - 3.5x3.5x0.25		3.90	0.9D + 1.0W 210°	50.0	65	54.36	19.88	14.14	17.98	1	1	27.6	Bolt Bear			
Max Splice Forces		Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension		131.50	0.9D + 1.0W 180°	327.10	40.2	6	1 A325									

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

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FORCE/STRESS SUMMARY

Section 4 - 60.0' to 80.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls	
	X			Y	Z										
L PX - 5" DIA PIPE	-138.60	1.2D + 1.0W N	6.678	100	100	100	43.55	50.00	238.95	0.00	0	0	58	Member X	
D SAE - 2.5X2.5X0.25	-3.28	1.2D + 1.0W 210°	15.976	50	50	50	195.22	36.00	8.94	13.81	17.40	1	1	36.7	Member Z
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Blk Shear Φt Pn (kip)	# Bolt	# Hole	Use %	Controls			
L PX - 5" DIA PIPE	117.30	0.9D + 1.0W 180°	50.0	65	274.50	0.00	0.00		0	0	42.7	Member			
D SAE - 2.5X2.5X0.25	3.20	0.9D + 1.0W 330°	36.0	58	33.22	13.81	10.44	11.83	1	1	30.7	Bolt Bear			
Max Splice Forces	Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension	118.72	0.9D + 1.0W 180°	327.10	36.3	6	1 A325									

Section 5 - 80.0' to 100.00'

										Shear	Bear				
Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	ΦRnv (kip)	ΦRn (kip)	# Bolt	# Hole	Use %	Controls	
	X			Y	Z	KL/R									
L PX - 5" DIA PIPE	-121.95	1.2D + 1.0W N	6.678	100	100	100	43.55	50.00	238.95	0.00	0	0	51	Member X	
D SAE - 2.5X2.5X0.1875	-3.15	1.2D + 1.0W 330°	14.168	50	50	50	171.73	36.00	8.75	13.81	13.05	1	1	35.9	Member Z
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Blk Shear Φt Pn (kip)	# Bolt	# Hole	Use %	Controls			
L PX - 5" DIA PIPE	103.88	0.9D + 1.0W 180°	50.0	65	274.50	0.00	0.00		0	0	37.8	Member			
D SAE - 2.5X2.5X0.1875	3.07	0.9D + 1.0W 210°	36.0	58	25.22	13.81	7.83	8.87	1	1	39.2	Bolt Bear			
Max Splice Forces		Pu (kip)	Load Case	ΦRnt (kip)	Use %	Num Bolts	Bolt Type								
Bot Tension		105.82	0.9D + 1.0W 180°	218.07	48.5	4	1 A325								

Section 6 - 100.0' to 120.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Φc Pn (kip)	Shear ΦRnv (kip)	Bear ΦRn (kip)	# Bolt	# Hole	Use %	Controls
	X			Y	Z	KL/R								
L PX - 5" DIA PIPE	-104.29	1.2D + 1.0W N	6.678	100	100	100	43.55	50.00	238.95	0.00	0	0	43.6	Member X
D SAE - 2.5X2.5X0.1875	-3.03	1.2D + 1.0W 210°	12.439	50	50	50	150.77	36.00	11.36	13.81	1	1	26.7	Member Z
Member Tension	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	ΦcPn (kip)	ΦRnv (kip)	ΦRn (kip)	Blk Shear Φt Pn (kip)	# Bolt	# Hole	Use %	Controls		
L PX - 5" DIA PIPE	89.11	0.9D + 1.0W 180°	50.0	65	274.50	0.00	0.00		0	0	32.5	Member		
D SAE - 2.5X2.5X0.1875	2.97	1.2D + 1.0W 210°	36.0	58	25.22	13.81	7.83	8.87	1	1	37.9	Bolt Bear		
Max Splice Forces	Pu (kip)	Load Case	ΦRnl (kip)	Use %	Num Bolts	Bolt Type								
Bot Tension	91.37	0.9D + 1.0W 180°	218.07	41.9	4	1 A325								

Section 7 - 120.0' to 140.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
L PX - 4" DIA PIPE	-85.81	1.2D + 1.0W N	5.009	100	100	100	40.61	50.00	175.90	0.00	0	0	48.8	Member X
D SAE - 2X2X0.1875	-2.63	1.2D + 1.0W 210°	9.926	50	50	50	151.16	36.00	8.96	13.81	1	1	29.3	Member Z
Member Tension	Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls		
L PX - 4" DIA PIPE	73.32	0.9D + 1.0W 180°	50.0	65	198.45	0.00	0.00		0	0	37	Member		
D SAE - 2X2X0.1875	2.75	1.2D + 1.0W 330°	36.0	58	19.12	13.81	7.83	6.83	1	1	40.2	Blk Shear		
Max Splice Forces	Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type								
Bot Tension	75.05	0.9D + 1.0W 180°	218.07	34.4	4	1 A325								

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
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FORCE/STRESS SUMMARY

Section 8 - 140.0' to 160.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			KL/R	F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls
L PX - 3" DIA PIPE		-64.16	1.2D + 1.0W N	4.007	100	100	100	42.18	50.00	119.32	0.00	0.00	0	0	53.8	Member X
H SAE - 1.75X1.75X0.125		-0.22	1.2D + 1.0W 120°	4.688	100	100	100	162.10	36.00	4.57	13.81	8.70	1	1	4.8	Member Z
D SAE - 1.75X1.75X0.1875		-2.65	1.2D + 1.0W 330°	7.678	50	50	50	134.31	36.00	9.85	13.81	13.05	1	1	26.9	Member Z
Member Tension		Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PX - 3" DIA PIPE		54.00	0.9D + 1.0W 180°	50.0	65	135.90	0.00	0.00		0	0	39.7	Member			
H SAE - 1.75X1.75X0.125		0.18	0.9D + 1.0W 60°	36.0	58	10.90	13.81	5.22	3.87	1	1	4.7	Blk Shear			
D SAE - 1.75X1.75X0.1875		2.61	1.2D + 1.0W 210°	36.0	58	16.05	13.81	7.83	5.81	1	1	44.9	Blk Shear			
Max Splice Forces		Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension		56.01	0.9D + 1.0W 180°	166.22	33.7	4	0.875" A325									

Section 9 - 160.0' to 180.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	# Bolt	# Hole	Use %	Controls	
L PX - 2-1/2" DIA PIPE		-39.22	1.2D + 1.0W N	4	100	100	100	51.95	50.00	83.12	0.00	0.00	0	0	47.2	Member X
D SAE - 1.75X1.75X0.1875		-3.27	1.2D + 1.0W 330°	6.159	50	50	50	110.80	36.00	13.73	13.81	13.05	1	1	25	Bolt Bear
Member Tension		Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear ΦR _{nv} (kip)	Bear ΦR _n (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PX - 2-1/2" DIA PIPE		33.36	0.9D + 1.0W 180°	50.0	65	101.25	0.00	0.00		0	0	33	Member			
D SAE - 1.75X1.75X0.1875		3.14	1.2D + 1.0W 210°	36.0	58	16.05	13.81	7.83	5.81	1	1	54.1	Blk Shear			
Max Splice Forces		Pu (kip)	Load Case	ΦR _{nt} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension		37.10	0.9D + 1.0W 180°	120.41	30.8	4	0.75" A325									

Section 10 - 180.0' to 196.00'

Member Compression		Pu (kip)	Load Case	Len (ft)	Bracing %			F _y (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	# Bolt	# Hole	Use %	Controls	
L PST - 2-1/2" DIA PIPE		-10.25	1.2D + 1.0W N	4	100	100	100	50.69	50.00	63.55	0.00	0.00	0	0	16.1	Member X
H SAE - 1.75X1.75X0.125		-0.20	1.2D + 1.0W 120°	4.646	100	100	100	160.65	36.00	4.66	13.81	8.70	1	1	4.4	Member Z
D SAE - 1.75X1.75X0.1875		-1.64	1.2D + 1.0W 330°	6.13	50	50	50	110.43	36.00	13.78	13.81	13.05	1	1	12.6	Bolt Bear
Member Tension		Pu (kip)	Load Case	F _y (ksi)	F _u (ksi)	Φ _c P _n (kip)	Shear Φ _{R_{nv}} (kip)	Bear Φ _{R_n} (kip)	Blk Shear Φ _t P _n (kip)	# Bolt	# Hole	Use %	Controls			
L PST - 2-1/2" DIA PIPE		7.41	0.9D + 1.0W 180°	50.0	65	76.68	0.00	0.00		0	0	9.7	Member			
H SAE - 1.75X1.75X0.125		0.19	0.9D + 1.0W 60°	36.0	58	10.90	13.81	5.22	3.87	1	1	5	Blk Shear			
D SAE - 1.75X1.75X0.1875		1.64	1.2D + 1.0W 210°	36.0	58	16.05	13.81	7.83	5.81	1	1	28.2	Blk Shear			
Max Splice Forces		Pu (kip)	Load Case	Φ _{R_{nt}} (kip)	Use %	Num Bolts	Bolt Type									
Bot Tension		8.87	0.9D + 1.0W 180°	81.36	10.9	4	5/8 A325									

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
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DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	40.00	0.0161	0.0020	0.0439	0.0439
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	144.00	0.2349	-0.0116	0.2208	0.2209
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	148.00	0.2508	-0.0123	0.2332	0.2335
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	152.00	0.2674	-0.0127	0.2441	0.2442
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	156.00	0.2849	0.0070	0.2549	0.255
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	164.00	0.3227	-0.0140	0.2873	0.2874
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	180.00	0.4081	-0.0133	0.3220	0.3223
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	192.00	0.4761	-0.0128	0.3274	0.3276
1.0D + 1.0W Service 330° 60 mph Wind with No Ice	196.00	0.4988	-0.0127	0.3249	0.3249
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	40.00	0.0158	0.0034	0.0420	0.0421
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	144.00	0.2324	0.0110	0.2189	0.2189
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	148.00	0.2481	0.0115	0.2304	0.2307
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	152.00	0.2647	0.0117	0.2418	0.2418
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	156.00	0.2819	0.0122	0.2531	0.2534
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	164.00	0.3194	-0.0127	0.2843	0.2843
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	180.00	0.4041	-0.0121	0.3159	0.3161
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	192.00	0.4716	-0.0116	0.3239	0.324
1.0D + 1.0W Service 300° 60 mph Wind with No Ice	196.00	0.494	-0.0116	0.3229	0.3229
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	40.00	0.0168	0.0036	0.0442	0.0443
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	144.00	0.2417	0.0119	0.2263	0.2264
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	148.00	0.258	0.0124	0.2387	0.2391
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	152.00	0.275	0.0127	0.2504	0.2504
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	156.00	0.2927	0.0133	0.2619	0.2622
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	164.00	0.3317	0.0137	0.2945	0.2945
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	180.00	0.4188	0.0131	0.3255	0.3258
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	192.00	0.4884	0.0125	0.3344	0.3347
1.0D + 1.0W Service 240° 60 mph Wind with No Ice	196.00	0.5115	0.0125	0.3326	0.3326
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	40.00	0.0161	0.0020	0.0439	0.0439
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	144.00	0.2348	-0.0110	0.2206	0.2207
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	148.00	0.2506	-0.0116	0.2329	0.2332
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	152.00	0.2672	-0.0120	0.2437	0.2438
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	156.00	0.2846	0.0077	0.2552	0.2553
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	164.00	0.3224	-0.0130	0.2867	0.2868
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	180.00	0.4077	-0.0115	0.3214	0.3216
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	192.00	0.4756	-0.0111	0.3267	0.3269
1.0D + 1.0W Service 210° 60 mph Wind with No Ice	196.00	0.4982	-0.0110	0.3241	0.3241
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	40.00	0.0158	0.0008	0.0437	0.0437
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	144.00	0.2324	0.0091	0.2188	0.2188
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	148.00	0.2481	0.0097	0.2304	0.2306
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	152.00	0.2646	0.0101	0.2417	0.2417
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	156.00	0.2819	0.0000	0.2530	0.253
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	164.00	0.3193	0.0111	0.2844	0.2844
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	180.00	0.4039	0.0102	0.3205	0.3207
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	192.00	0.4714	0.0097	0.3237	0.3237
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	196.00	0.4938	0.0097	0.3226	0.3226
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	40.00	0.0168	-0.0036	0.0442	0.0443
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	144.00	0.2417	-0.0119	0.2263	0.2264
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	148.00	0.258	-0.0124	0.2387	0.2391
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	152.00	0.275	-0.0127	0.2504	0.2504
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	156.00	0.2927	-0.0133	0.2619	0.2622
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	164.00	0.3317	-0.0137	0.2945	0.2945
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	180.00	0.4188	-0.0131	0.3255	0.3258
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	192.00	0.4884	-0.0125	0.3344	0.3347
1.0D + 1.0W Service 120° 60 mph Wind with No Ice	196.00	0.5115	-0.0125	0.3326	0.3326
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	40.00	0.016	-0.0040	0.0421	0.0423
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	144.00	0.2346	-0.0131	0.2205	0.2207
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	148.00	0.2504	-0.0137	0.2329	0.2333
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	152.00	0.2671	-0.0140	0.2436	0.2437
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	156.00	0.2844	-0.0146	0.2555	0.2559

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
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DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	164.00	0.3223	-0.0149	0.2866	0.2867
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	180.00	0.4076	-0.0138	0.3166	0.3169
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	192.00	0.4757	-0.0132	0.3268	0.327
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	196.00	0.4982	-0.0131	0.3238	0.3239
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	40.00	0.0158	-0.0034	0.0420	0.0421
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	144.00	0.2324	-0.0110	0.2189	0.2189
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	148.00	0.2481	-0.0115	0.2304	0.2307
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	152.00	0.2647	-0.0117	0.2418	0.2418
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	156.00	0.2819	-0.0122	0.2531	0.2534
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	164.00	0.3194	0.0127	0.2843	0.2843
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	180.00	0.4041	0.0121	0.3159	0.3161
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	192.00	0.4716	0.0116	0.3239	0.324
1.0D + 1.0W Service 60° 60 mph Wind with No Ice	196.00	0.494	0.0116	0.3229	0.3229
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	40.00	0.0168	0.0009	0.0459	0.046
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	144.00	0.242	0.0094	0.2267	0.2267
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	148.00	0.2583	0.0100	0.2393	0.2395
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	152.00	0.2753	0.0104	0.2509	0.2509
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	156.00	0.2933	0.0000	0.2611	0.2611
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	164.00	0.3321	0.0114	0.2953	0.2953
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	180.00	0.4195	0.0105	0.3312	0.3313
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	192.00	0.4892	0.0101	0.3353	0.3354
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	196.00	0.5123	0.0100	0.3335	0.3335
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	40.00	0.0035	-0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	144.00	0.0572	-0.0031	0.0566	0.0567
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	148.00	0.0613	-0.0032	0.0602	0.0603
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	152.00	0.0656	-0.0034	0.0636	0.0636
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	156.00	0.0702	0.0018	0.0664	0.0665
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	164.00	0.0802	-0.0036	0.0762	0.0762
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	180.00	0.1028	-0.0032	0.0858	0.0858
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	192.00	0.121	-0.0029	0.0872	0.0873
0.9D - 1.0Ev + 1.0Eh 330° Seismic (Reduced DL)	196.00	0.127	-0.0029	0.0873	0.0873
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	40.00	0.0034	0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	144.00	0.0572	0.0027	0.0567	0.0567
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	148.00	0.0613	0.0028	0.0602	0.0602
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	152.00	0.0656	0.0029	0.0634	0.0634
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	156.00	0.0701	0.0031	0.0669	0.067
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	164.00	0.08	0.0032	0.0757	0.0758
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	180.00	0.1028	0.0027	0.0856	0.0856
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	192.00	0.121	0.0025	0.0872	0.0872
0.9D - 1.0Ev + 1.0Eh 300° Seismic (Reduced DL)	196.00	0.127	0.0025	0.0874	0.0874
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	40.00	0.0035	0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	144.00	0.0572	0.0027	0.0566	0.0567
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	148.00	0.0613	0.0028	0.0602	0.0603
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	152.00	0.0656	0.0029	0.0638	0.0638
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	156.00	0.07	0.0031	0.0674	0.0674
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	164.00	0.0802	0.0032	0.0765	0.0765
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	180.00	0.1029	0.0027	0.0859	0.0859
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	192.00	0.121	0.0025	0.0872	0.0873
0.9D - 1.0Ev + 1.0Eh 240° Seismic (Reduced DL)	196.00	0.127	0.0025	0.0871	0.0872
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	40.00	0.0035	-0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	144.00	0.0572	-0.0031	0.0566	0.0567
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	148.00	0.0613	-0.0032	0.0602	0.0603
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	152.00	0.0656	-0.0034	0.0636	0.0636
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	156.00	0.0701	0.0018	0.0672	0.0672
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	164.00	0.0802	-0.0036	0.0762	0.0762
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	180.00	0.1028	-0.0031	0.0858	0.0858
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	192.00	0.121	-0.0029	0.0872	0.0873
0.9D - 1.0Ev + 1.0Eh 210° Seismic (Reduced DL)	196.00	0.127	-0.0029	0.0873	0.0873
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	40.00	0.0034	0.0005	0.0099	0.0099

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	144.00	0.0572	0.0027	0.0567	0.0567
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	148.00	0.0613	0.0028	0.0602	0.0602
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	152.00	0.0656	0.0029	0.0634	0.0634
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	156.00	0.0701	0.0000	0.0671	0.0671
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	164.00	0.08	0.0032	0.0757	0.0758
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	180.00	0.1028	0.0027	0.0856	0.0856
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	192.00	0.121	0.0025	0.0872	0.0872
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	196.00	0.127	0.0025	0.0874	0.0874
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	40.00	0.0035	0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	144.00	0.0572	0.0027	0.0566	0.0567
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	148.00	0.0613	0.0028	0.0602	0.0603
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	152.00	0.0656	0.0029	0.0638	0.0638
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	156.00	0.07	-0.0031	0.0674	0.0674
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	164.00	0.0802	-0.0032	0.0765	0.0765
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	180.00	0.1029	0.0027	0.0859	0.0859
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	192.00	0.121	0.0025	0.0872	0.0873
0.9D - 1.0Ev + 1.0Eh 120° Seismic (Reduced DL)	196.00	0.127	0.0025	0.0871	0.0872
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	40.00	0.0035	-0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	144.00	0.0572	-0.0031	0.0566	0.0567
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	148.00	0.0613	-0.0032	0.0602	0.0603
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	152.00	0.0656	-0.0034	0.0636	0.0636
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	156.00	0.0701	-0.0036	0.0673	0.0674
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	164.00	0.0802	-0.0036	0.0762	0.0762
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	180.00	0.1028	-0.0032	0.0858	0.0858
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	192.00	0.121	-0.0029	0.0872	0.0873
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	196.00	0.127	-0.0029	0.0873	0.0873
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	40.00	0.0034	0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	144.00	0.0572	0.0027	0.0567	0.0567
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	148.00	0.0613	0.0028	0.0602	0.0602
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	152.00	0.0656	0.0029	0.0634	0.0634
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	156.00	0.0701	-0.0031	0.0669	0.067
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	164.00	0.08	0.0032	0.0757	0.0758
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	180.00	0.1028	0.0027	0.0856	0.0856
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	192.00	0.121	0.0025	0.0872	0.0872
0.9D - 1.0Ev + 1.0Eh 60° Seismic (Reduced DL)	196.00	0.127	0.0025	0.0874	0.0874
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	40.00	0.0035	0.0005	0.0099	0.0099
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	144.00	0.0572	0.0027	0.0566	0.0567
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	148.00	0.0613	0.0028	0.0602	0.0603
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	152.00	0.0656	0.0029	0.0638	0.0638
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	156.00	0.0702	0.0000	0.0662	0.0662
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	164.00	0.0802	0.0032	0.0765	0.0765
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	180.00	0.1029	0.0027	0.0859	0.0859
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	192.00	0.121	0.0025	0.0873	0.0873
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	196.00	0.127	0.0025	0.0871	0.0872
1.2D + 1.0Ev + 1.0Eh 330° Seismic	40.00	0.0035	-0.0005	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 330° Seismic	144.00	0.0574	-0.0031	0.0569	0.0569
1.2D + 1.0Ev + 1.0Eh 330° Seismic	148.00	0.0616	-0.0033	0.0606	0.0607
1.2D + 1.0Ev + 1.0Eh 330° Seismic	152.00	0.0659	-0.0034	0.0640	0.064
1.2D + 1.0Ev + 1.0Eh 330° Seismic	156.00	0.0705	0.0018	0.0666	0.0666
1.2D + 1.0Ev + 1.0Eh 330° Seismic	164.00	0.0805	-0.0037	0.0768	0.0768
1.2D + 1.0Ev + 1.0Eh 330° Seismic	180.00	0.1033	-0.0032	0.0864	0.0864
1.2D + 1.0Ev + 1.0Eh 330° Seismic	192.00	0.1215	-0.0029	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 330° Seismic	196.00	0.1275	-0.0029	0.0879	0.0879
1.2D + 1.0Ev + 1.0Eh 300° Seismic	40.00	0.0034	0.0005	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 300° Seismic	144.00	0.0574	0.0027	0.0569	0.0569
1.2D + 1.0Ev + 1.0Eh 300° Seismic	148.00	0.0615	0.0028	0.0606	0.0606
1.2D + 1.0Ev + 1.0Eh 300° Seismic	152.00	0.0658	0.0030	0.0636	0.0637
1.2D + 1.0Ev + 1.0Eh 300° Seismic	156.00	0.0704	0.0032	0.0671	0.0672
1.2D + 1.0Ev + 1.0Eh 300° Seismic	164.00	0.0804	0.0032	0.0762	0.0762

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 300° Seismic	180.00	0.1032	0.0027	0.0861	0.0861
1.2D + 1.0Ev + 1.0Eh 300° Seismic	192.00	0.1215	0.0026	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 300° Seismic	196.00	0.1275	0.0025	0.0880	0.088
1.2D + 1.0Ev + 1.0Eh 240° Seismic	40.00	0.0036	0.0005	0.0099	0.01
1.2D + 1.0Ev + 1.0Eh 240° Seismic	144.00	0.0575	0.0027	0.0568	0.0569
1.2D + 1.0Ev + 1.0Eh 240° Seismic	148.00	0.0616	0.0028	0.0606	0.0606
1.2D + 1.0Ev + 1.0Eh 240° Seismic	152.00	0.0659	0.0029	0.0642	0.0642
1.2D + 1.0Ev + 1.0Eh 240° Seismic	156.00	0.0703	0.0031	0.0678	0.0678
1.2D + 1.0Ev + 1.0Eh 240° Seismic	164.00	0.0806	0.0032	0.0770	0.077
1.2D + 1.0Ev + 1.0Eh 240° Seismic	180.00	0.1033	0.0027	0.0865	0.0865
1.2D + 1.0Ev + 1.0Eh 240° Seismic	192.00	0.1215	0.0025	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 240° Seismic	196.00	0.1275	0.0025	0.0876	0.0877
1.2D + 1.0Ev + 1.0Eh 210° Seismic	40.00	0.0035	-0.0005	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 210° Seismic	144.00	0.0574	-0.0031	0.0569	0.0569
1.2D + 1.0Ev + 1.0Eh 210° Seismic	148.00	0.0616	-0.0033	0.0606	0.0607
1.2D + 1.0Ev + 1.0Eh 210° Seismic	152.00	0.0659	-0.0034	0.0640	0.064
1.2D + 1.0Ev + 1.0Eh 210° Seismic	156.00	0.0703	0.0018	0.0677	0.0677
1.2D + 1.0Ev + 1.0Eh 210° Seismic	164.00	0.0805	-0.0037	0.0768	0.0768
1.2D + 1.0Ev + 1.0Eh 210° Seismic	180.00	0.1033	-0.0032	0.0864	0.0864
1.2D + 1.0Ev + 1.0Eh 210° Seismic	192.00	0.1215	-0.0029	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 210° Seismic	196.00	0.1275	-0.0029	0.0879	0.0879
1.2D + 1.0Ev + 1.0Eh 180° Seismic	40.00	0.0034	0.0005	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 180° Seismic	144.00	0.0574	0.0027	0.0569	0.0569
1.2D + 1.0Ev + 1.0Eh 180° Seismic	148.00	0.0615	0.0028	0.0606	0.0606
1.2D + 1.0Ev + 1.0Eh 180° Seismic	152.00	0.0658	0.0030	0.0636	0.0637
1.2D + 1.0Ev + 1.0Eh 180° Seismic	156.00	0.0703	0.0000	0.0676	0.0676
1.2D + 1.0Ev + 1.0Eh 180° Seismic	164.00	0.0804	0.0032	0.0762	0.0762
1.2D + 1.0Ev + 1.0Eh 180° Seismic	180.00	0.1032	0.0027	0.0861	0.0861
1.2D + 1.0Ev + 1.0Eh 180° Seismic	192.00	0.1215	0.0025	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 180° Seismic	196.00	0.1275	0.0025	0.0880	0.088
1.2D + 1.0Ev + 1.0Eh 120° Seismic	40.00	0.0036	0.0005	0.0099	0.01
1.2D + 1.0Ev + 1.0Eh 120° Seismic	144.00	0.0575	0.0027	0.0568	0.0569
1.2D + 1.0Ev + 1.0Eh 120° Seismic	148.00	0.0616	0.0028	0.0606	0.0606
1.2D + 1.0Ev + 1.0Eh 120° Seismic	152.00	0.0659	0.0029	0.0642	0.0642
1.2D + 1.0Ev + 1.0Eh 120° Seismic	156.00	0.0703	-0.0031	0.0678	0.0678
1.2D + 1.0Ev + 1.0Eh 120° Seismic	164.00	0.0806	0.0032	0.0770	0.077
1.2D + 1.0Ev + 1.0Eh 120° Seismic	180.00	0.1033	0.0027	0.0865	0.0865
1.2D + 1.0Ev + 1.0Eh 120° Seismic	192.00	0.1215	0.0025	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 120° Seismic	196.00	0.1275	0.0025	0.0876	0.0877
1.2D + 1.0Ev + 1.0Eh 90° Seismic	40.00	0.0035	-0.0005	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 90° Seismic	144.00	0.0574	-0.0031	0.0569	0.0569
1.2D + 1.0Ev + 1.0Eh 90° Seismic	148.00	0.0616	-0.0033	0.0606	0.0607
1.2D + 1.0Ev + 1.0Eh 90° Seismic	152.00	0.0659	-0.0034	0.0640	0.064
1.2D + 1.0Ev + 1.0Eh 90° Seismic	156.00	0.0703	-0.0036	0.0676	0.0677
1.2D + 1.0Ev + 1.0Eh 90° Seismic	164.00	0.0805	-0.0037	0.0768	0.0768
1.2D + 1.0Ev + 1.0Eh 90° Seismic	180.00	0.1033	-0.0032	0.0864	0.0864
1.2D + 1.0Ev + 1.0Eh 90° Seismic	192.00	0.1215	-0.0029	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 90° Seismic	196.00	0.1275	-0.0029	0.0879	0.0879
1.2D + 1.0Ev + 1.0Eh 60° Seismic	40.00	0.0034	0.0005	0.0100	0.01
1.2D + 1.0Ev + 1.0Eh 60° Seismic	144.00	0.0574	0.0027	0.0569	0.0569
1.2D + 1.0Ev + 1.0Eh 60° Seismic	148.00	0.0615	0.0028	0.0606	0.0606
1.2D + 1.0Ev + 1.0Eh 60° Seismic	152.00	0.0658	0.0030	0.0636	0.0637
1.2D + 1.0Ev + 1.0Eh 60° Seismic	156.00	0.0704	-0.0032	0.0671	0.0672
1.2D + 1.0Ev + 1.0Eh 60° Seismic	164.00	0.0804	0.0032	0.0762	0.0762
1.2D + 1.0Ev + 1.0Eh 60° Seismic	180.00	0.1032	0.0027	0.0861	0.0861
1.2D + 1.0Ev + 1.0Eh 60° Seismic	192.00	0.1215	0.0026	0.0877	0.0877
1.2D + 1.0Ev + 1.0Eh 60° Seismic	196.00	0.1275	0.0025	0.0880	0.088
1.2D + 1.0Ev + 1.0Eh Normal Seismic	40.00	0.0036	0.0005	0.0099	0.01
1.2D + 1.0Ev + 1.0Eh Normal Seismic	144.00	0.0575	0.0027	0.0568	0.0569

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh Normal Seismic	148.00	0.0616	0.0028	0.0606	0.0606
1.2D + 1.0Ev + 1.0Eh Normal Seismic	152.00	0.0659	0.0030	0.0642	0.0642
1.2D + 1.0Ev + 1.0Eh Normal Seismic	156.00	0.0705	0.0000	0.0663	0.0663
1.2D + 1.0Ev + 1.0Eh Normal Seismic	164.00	0.0806	0.0032	0.0770	0.077
1.2D + 1.0Ev + 1.0Eh Normal Seismic	180.00	0.1033	0.0027	0.0865	0.0865
1.2D + 1.0Ev + 1.0Eh Normal Seismic	192.00	0.1215	0.0025	0.0877	0.0878
1.2D + 1.0Ev + 1.0Eh Normal Seismic	196.00	0.1275	0.0025	0.0876	0.0877
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	40.00	0.0148	0.0016	0.0395	0.0395
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	144.00	0.1978	-0.0096	0.1834	0.1834
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	148.00	0.2109	-0.0102	0.1935	0.1937
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	152.00	0.2248	-0.0105	0.2025	0.2026
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	156.00	0.2384	0.0058	0.2108	0.2109
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	164.00	0.2702	-0.0115	0.2375	0.2375
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	180.00	0.3407	-0.0109	0.2646	0.2648
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	192.00	0.3966	-0.0104	0.2691	0.2691
1.2D + 1.0Di + 1.0Wi 330° 50 mph Wind with 0.25" Radial Ice	196.00	0.4153	-0.0104	0.2670	0.267
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	40.00	0.0149	0.0027	0.0375	0.0376
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	144.00	0.1963	0.0091	0.1820	0.1821
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	148.00	0.2093	0.0094	0.1918	0.1918
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	152.00	0.223	0.0097	0.2005	0.2005
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	156.00	0.2364	0.0101	0.2098	0.21
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	164.00	0.2681	-0.0104	0.2346	0.2346
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	180.00	0.3379	-0.0098	0.2602	0.2604
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	192.00	0.3934	-0.0094	0.2668	0.2668
1.2D + 1.0Di + 1.0Wi 300° 50 mph Wind with 0.25" Radial Ice	196.00	0.4119	-0.0094	0.2656	0.2656
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	40.00	0.0146	0.0028	0.0400	0.04
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	144.00	0.2019	0.0096	0.1868	0.1868
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	148.00	0.2153	0.0100	0.1970	0.1973
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	152.00	0.2294	0.0103	0.2064	0.2064
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	156.00	0.2439	0.0108	0.2157	0.216
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	164.00	0.2756	0.0110	0.2419	0.2419
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	180.00	0.3473	0.0104	0.2660	0.2662
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	192.00	0.4041	0.0100	0.2731	0.2733
1.2D + 1.0Di + 1.0Wi 240° 50 mph Wind with 0.25" Radial Ice	196.00	0.423	0.0099	0.2714	0.2714
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	40.00	0.0148	0.0016	0.0395	0.0395
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	144.00	0.1975	-0.0093	0.1829	0.183
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	148.00	0.2106	-0.0098	0.1929	0.1932
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	152.00	0.2244	-0.0101	0.2018	0.2019
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	156.00	0.2387	0.0062	0.2112	0.2113
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	164.00	0.2697	-0.0109	0.2365	0.2365
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	180.00	0.3399	-0.0097	0.2635	0.2637
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	192.00	0.3956	-0.0093	0.2678	0.2679
1.2D + 1.0Di + 1.0Wi 210° 50 mph Wind with 0.25" Radial Ice	196.00	0.4142	-0.0093	0.2656	0.2656
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	40.00	0.0149	0.0009	0.0387	0.0387
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	144.00	0.1961	0.0077	0.1818	0.1818
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	148.00	0.2091	0.0082	0.1914	0.1914
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	152.00	0.2228	0.0085	0.2002	0.2002
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	156.00	0.237	0.0000	0.2097	0.2097
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	164.00	0.2678	0.0093	0.2342	0.2342
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	180.00	0.3375	0.0085	0.2630	0.2632
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	192.00	0.3928	0.0081	0.2661	0.2661
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 0.25" Radial Ice	196.00	0.4113	0.0081	0.2647	0.2647
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	40.00	0.0146	-0.0028	0.0400	0.04
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	144.00	0.2019	-0.0096	0.1868	0.1868
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	148.00	0.2153	-0.0100	0.1970	0.1973
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	152.00	0.2294	-0.0103	0.2064	0.2064
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	156.00	0.2439	-0.0108	0.2157	0.216
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	164.00	0.2756	-0.0110	0.2419	0.2419
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	180.00	0.3473	-0.0104	0.2660	0.2662

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	192.00	0.4041	-0.0100	0.2731	0.2733
1.2D + 1.0Di + 1.0Wi 120° 50 mph Wind with 0.25" Radial Ice	196.00	0.423	-0.0099	0.2714	0.2714
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	40.00	0.0148	-0.0032	0.0383	0.0383
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	144.00	0.1975	-0.0107	0.1830	0.1832
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	148.00	0.2106	-0.0112	0.1930	0.1933
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	152.00	0.2244	-0.0115	0.2019	0.202
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	156.00	0.2383	-0.0120	0.2115	0.2118
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	164.00	0.2698	-0.0122	0.2367	0.2367
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	180.00	0.34	-0.0112	0.2603	0.2605
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	192.00	0.3957	-0.0108	0.2681	0.2682
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 0.25" Radial Ice	196.00	0.4143	-0.0107	0.2659	0.2659
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	40.00	0.0149	-0.0027	0.0375	0.0376
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	144.00	0.1963	-0.0091	0.1820	0.1821
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	148.00	0.2093	-0.0094	0.1918	0.1918
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	152.00	0.223	-0.0097	0.2005	0.2005
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	156.00	0.2364	-0.0101	0.2098	0.21
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	164.00	0.2681	0.0104	0.2346	0.2346
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	180.00	0.3379	0.0098	0.2602	0.2604
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	192.00	0.3934	0.0094	0.2668	0.2668
1.2D + 1.0Di + 1.0Wi 60° 50 mph Wind with 0.25" Radial Ice	196.00	0.4119	0.0094	0.2656	0.2656
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	40.00	0.0146	0.0009	0.0411	0.0411
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	144.00	0.2022	0.0079	0.1873	0.1873
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	148.00	0.2155	0.0084	0.1977	0.1979
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	152.00	0.2297	0.0087	0.2071	0.2071
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	156.00	0.2439	0.0000	0.2149	0.2149
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	164.00	0.2761	0.0095	0.2429	0.2429
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	180.00	0.3481	0.0087	0.2708	0.2709
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	192.00	0.4052	0.0084	0.2745	0.2746
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 0.25" Radial Ice	196.00	0.4241	0.0083	0.2728	0.2728
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0487	0.0058	0.1337	0.1338
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7183	-0.0396	0.6768	0.6771
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7669	-0.0422	0.7143	0.7156
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8181	-0.0442	0.7478	0.7481
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8712	0.0201	0.7822	0.7824
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	164.00	0.9873	-0.0503	0.8799	0.8801
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	180.00	1.2494	-0.0521	0.9874	0.9887
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	192.00	1.458	-0.0510	1.0038	1.0051
0.9D + 1.0W 330° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5276	-0.0509	0.9960	0.996
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0483	0.0103	0.1282	0.1285
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7112	-0.0366	0.6709	0.6711
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7594	-0.0389	0.7071	0.708
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8099	-0.0407	0.7419	0.742
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8622	0.0373	0.7768	0.7777
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	164.00	0.9779	-0.0462	0.8733	0.8734
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	180.00	1.2374	-0.0482	0.9689	0.9699
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	192.00	1.4443	-0.0472	0.9943	0.995
0.9D + 1.0W 300° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5132	-0.0472	0.9905	0.9906
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0509	0.0114	0.1345	0.1348
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7391	0.0404	0.6939	0.6941
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7889	0.0425	0.7314	0.7324
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8414	0.0441	0.7673	0.7673
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8958	0.0465	0.8026	0.804
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	164.00	1.0147	0.0492	0.9024	0.9024
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	180.00	1.2829	0.0513	0.9991	1.0004
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	192.00	1.4965	0.0503	1.0256	1.0268
0.9D + 1.0W 240° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5673	0.0500	1.0210	1.021
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0487	0.0066	0.1337	0.1338
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7182	-0.0336	0.6764	0.6769
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7668	-0.0354	0.7145	0.7154

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8179	-0.0365	0.7471	0.7474
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8714	0.0279	0.7823	0.7828
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	164.00	0.9871	-0.0390	0.8790	0.8794
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	180.00	1.249	-0.0332	0.9869	0.9874
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	192.00	1.4576	-0.0324	1.0032	1.0037
0.9D + 1.0W 210° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5271	-0.0323	0.9953	0.9957
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0484	0.0025	0.1335	0.1335
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7114	0.0297	0.6713	0.6713
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7597	0.0316	0.7077	0.7084
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8102	0.0331	0.7425	0.7425
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8635	0.0000	0.7756	0.7756
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	164.00	0.9783	0.0370	0.8743	0.8743
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	180.00	1.238	0.0352	0.9843	0.9849
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	192.00	1.4449	0.0343	0.9947	0.9953
0.9D + 1.0W 180° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5141	0.0344	0.9910	0.991
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0509	-0.0114	0.1345	0.1348
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7391	-0.0404	0.6939	0.6941
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7889	-0.0425	0.7314	0.7324
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8414	-0.0441	0.7673	0.7673
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8958	-0.0465	0.8026	0.804
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	164.00	1.0147	-0.0492	0.9024	0.9024
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	180.00	1.2829	-0.0513	0.9991	1.0004
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	192.00	1.4965	-0.0503	1.0256	1.0268
0.9D + 1.0W 120° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5673	-0.0500	1.0210	1.021
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0486	-0.0124	0.1283	0.1289
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7176	-0.0424	0.6758	0.6766
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7661	-0.0443	0.7138	0.7152
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8173	-0.0457	0.7465	0.7469
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8702	-0.0478	0.7835	0.785
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	164.00	0.9863	-0.0494	0.8781	0.8785
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	180.00	1.2483	-0.0474	0.9715	0.9727
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	192.00	1.457	-0.0463	1.0027	1.0038
0.9D + 1.0W 90° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5261	-0.0462	0.9937	0.9939
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	40.00	0.0483	-0.0103	0.1282	0.1285
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	144.00	0.7112	0.0366	0.6709	0.6711
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	148.00	0.7594	0.0389	0.7071	0.708
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	152.00	0.8099	0.0407	0.7419	0.742
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	156.00	0.8622	-0.0373	0.7768	0.7777
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	164.00	0.9779	0.0462	0.8733	0.8734
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	180.00	1.2374	0.0482	0.9689	0.9699
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	192.00	1.4443	0.0472	0.9943	0.995
0.9D + 1.0W 60° 105 mph Wind with No Ice (Reduced DL)	196.00	1.5132	0.0472	0.9905	0.9906
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	40.00	0.0509	0.0028	0.1398	0.1398
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	144.00	0.7396	0.0303	0.6947	0.6947
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	148.00	0.7894	0.0323	0.7325	0.7332
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	152.00	0.8417	0.0336	0.7684	0.7684
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	156.00	0.8968	0.0000	0.8012	0.8012
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	164.00	1.0155	0.0374	0.9041	0.9041
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	180.00	1.2838	0.0357	1.0154	1.016
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	192.00	1.4976	0.0349	1.0270	1.0276
0.9D + 1.0W Normal 105 mph Wind with No Ice (Reduced DL)	196.00	1.5687	0.0347	1.0225	1.0225
1.2D + 1.0W 330° 105 mph Wind with No Ice	40.00	0.0488	0.0058	0.1340	0.1341
1.2D + 1.0W 330° 105 mph Wind with No Ice	144.00	0.7202	-0.0397	0.6790	0.6793
1.2D + 1.0W 330° 105 mph Wind with No Ice	148.00	0.7689	-0.0424	0.7168	0.718
1.2D + 1.0W 330° 105 mph Wind with No Ice	152.00	0.8202	-0.0444	0.7505	0.7507
1.2D + 1.0W 330° 105 mph Wind with No Ice	156.00	0.8736	0.0202	0.7848	0.7851
1.2D + 1.0W 330° 105 mph Wind with No Ice	164.00	0.9901	-0.0505	0.8833	0.8835
1.2D + 1.0W 330° 105 mph Wind with No Ice	180.00	1.2532	-0.0523	0.9912	0.9926
1.2D + 1.0W 330° 105 mph Wind with No Ice	192.00	1.4626	-0.0513	1.0078	1.0091

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 330° 105 mph Wind with No Ice	196.00	1.5326	-0.0511	0.9999	1
1.2D + 1.0W 300° 105 mph Wind with No Ice	40.00	0.0484	0.0103	0.1285	0.1287
1.2D + 1.0W 300° 105 mph Wind with No Ice	144.00	0.713	-0.0367	0.6731	0.6733
1.2D + 1.0W 300° 105 mph Wind with No Ice	148.00	0.7614	-0.0390	0.7094	0.7103
1.2D + 1.0W 300° 105 mph Wind with No Ice	152.00	0.8121	-0.0409	0.7444	0.7444
1.2D + 1.0W 300° 105 mph Wind with No Ice	156.00	0.8646	0.0374	0.7795	0.7804
1.2D + 1.0W 300° 105 mph Wind with No Ice	164.00	0.9807	-0.0465	0.8764	0.8764
1.2D + 1.0W 300° 105 mph Wind with No Ice	180.00	1.2411	-0.0484	0.9728	0.9737
1.2D + 1.0W 300° 105 mph Wind with No Ice	192.00	1.4489	-0.0474	0.9981	0.9988
1.2D + 1.0W 300° 105 mph Wind with No Ice	196.00	1.518	-0.0474	0.9944	0.9945
1.2D + 1.0W 240° 105 mph Wind with No Ice	40.00	0.051	0.0114	0.1348	0.135
1.2D + 1.0W 240° 105 mph Wind with No Ice	144.00	0.741	0.0405	0.6961	0.6963
1.2D + 1.0W 240° 105 mph Wind with No Ice	148.00	0.791	0.0427	0.7339	0.7349
1.2D + 1.0W 240° 105 mph Wind with No Ice	152.00	0.8436	0.0443	0.7700	0.77
1.2D + 1.0W 240° 105 mph Wind with No Ice	156.00	0.8982	0.0466	0.8054	0.8068
1.2D + 1.0W 240° 105 mph Wind with No Ice	164.00	1.0176	0.0494	0.9058	0.9058
1.2D + 1.0W 240° 105 mph Wind with No Ice	180.00	1.2867	0.0515	1.0029	1.0042
1.2D + 1.0W 240° 105 mph Wind with No Ice	192.00	1.5011	0.0505	1.0296	1.0308
1.2D + 1.0W 240° 105 mph Wind with No Ice	196.00	1.5722	0.0502	1.0249	1.0249
1.2D + 1.0W 210° 105 mph Wind with No Ice	40.00	0.0488	0.0066	0.1340	0.1341
1.2D + 1.0W 210° 105 mph Wind with No Ice	144.00	0.72	-0.0337	0.6786	0.679
1.2D + 1.0W 210° 105 mph Wind with No Ice	148.00	0.7687	-0.0355	0.7168	0.7177
1.2D + 1.0W 210° 105 mph Wind with No Ice	152.00	0.82	-0.0367	0.7497	0.75
1.2D + 1.0W 210° 105 mph Wind with No Ice	156.00	0.8736	0.0280	0.7850	0.7855
1.2D + 1.0W 210° 105 mph Wind with No Ice	164.00	0.9898	-0.0392	0.8823	0.8827
1.2D + 1.0W 210° 105 mph Wind with No Ice	180.00	1.2527	-0.0334	0.9906	0.9911
1.2D + 1.0W 210° 105 mph Wind with No Ice	192.00	1.462	-0.0325	1.0070	1.0075
1.2D + 1.0W 210° 105 mph Wind with No Ice	196.00	1.5318	-0.0325	0.9990	0.9994
1.2D + 1.0W 180° 105 mph Wind with No Ice	40.00	0.0484	0.0025	0.1337	0.1337
1.2D + 1.0W 180° 105 mph Wind with No Ice	144.00	0.7132	0.0298	0.6734	0.6734
1.2D + 1.0W 180° 105 mph Wind with No Ice	148.00	0.7616	0.0318	0.7099	0.7106
1.2D + 1.0W 180° 105 mph Wind with No Ice	152.00	0.8123	0.0332	0.7448	0.7448
1.2D + 1.0W 180° 105 mph Wind with No Ice	156.00	0.8657	0.0000	0.7784	0.7784
1.2D + 1.0W 180° 105 mph Wind with No Ice	164.00	0.981	0.0371	0.8772	0.8772
1.2D + 1.0W 180° 105 mph Wind with No Ice	180.00	1.2416	0.0353	0.9880	0.9886
1.2D + 1.0W 180° 105 mph Wind with No Ice	192.00	1.4493	0.0345	0.9983	0.9989
1.2D + 1.0W 180° 105 mph Wind with No Ice	196.00	1.5188	0.0346	0.9947	0.9947
1.2D + 1.0W 120° 105 mph Wind with No Ice	40.00	0.051	-0.0114	0.1348	0.135
1.2D + 1.0W 120° 105 mph Wind with No Ice	144.00	0.741	-0.0405	0.6961	0.6963
1.2D + 1.0W 120° 105 mph Wind with No Ice	148.00	0.791	-0.0427	0.7339	0.7349
1.2D + 1.0W 120° 105 mph Wind with No Ice	152.00	0.8436	-0.0443	0.7700	0.77
1.2D + 1.0W 120° 105 mph Wind with No Ice	156.00	0.8982	-0.0466	0.8054	0.8068
1.2D + 1.0W 120° 105 mph Wind with No Ice	164.00	1.0176	-0.0494	0.9058	0.9058
1.2D + 1.0W 120° 105 mph Wind with No Ice	180.00	1.2867	-0.0515	1.0029	1.0042
1.2D + 1.0W 120° 105 mph Wind with No Ice	192.00	1.5011	-0.0505	1.0296	1.0308
1.2D + 1.0W 120° 105 mph Wind with No Ice	196.00	1.5722	-0.0502	1.0249	1.0249
1.2D + 1.0W 90° 105 mph Wind with No Ice	40.00	0.0487	-0.0124	0.1285	0.1291
1.2D + 1.0W 90° 105 mph Wind with No Ice	144.00	0.7194	-0.0425	0.6780	0.6787
1.2D + 1.0W 90° 105 mph Wind with No Ice	148.00	0.7681	-0.0445	0.7162	0.7176
1.2D + 1.0W 90° 105 mph Wind with No Ice	152.00	0.8194	-0.0459	0.7491	0.7495
1.2D + 1.0W 90° 105 mph Wind with No Ice	156.00	0.8725	-0.0480	0.7862	0.7877
1.2D + 1.0W 90° 105 mph Wind with No Ice	164.00	0.989	-0.0496	0.8815	0.8819
1.2D + 1.0W 90° 105 mph Wind with No Ice	180.00	1.2521	-0.0476	0.9753	0.9764
1.2D + 1.0W 90° 105 mph Wind with No Ice	192.00	1.4616	-0.0465	1.0066	1.0077
1.2D + 1.0W 90° 105 mph Wind with No Ice	196.00	1.5309	-0.0464	0.9975	0.9978
1.2D + 1.0W 60° 105 mph Wind with No Ice	40.00	0.0484	-0.0103	0.1285	0.1287
1.2D + 1.0W 60° 105 mph Wind with No Ice	144.00	0.713	0.0367	0.6731	0.6733
1.2D + 1.0W 60° 105 mph Wind with No Ice	148.00	0.7614	0.0390	0.7094	0.7103
1.2D + 1.0W 60° 105 mph Wind with No Ice	152.00	0.8121	0.0409	0.7444	0.7444

ASSET: 370533, Canon City

CODE: ANSI/TIA-222-H

CUSTOMER: AT&T MOBILITY

PROJECT: OAA794142_C3_01

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 60° 105 mph Wind with No Ice	156.00	0.8646	-0.0374	0.7795	0.7804
1.2D + 1.0W 60° 105 mph Wind with No Ice	164.00	0.9807	0.0465	0.8764	0.8764
1.2D + 1.0W 60° 105 mph Wind with No Ice	180.00	1.2411	0.0484	0.9728	0.9737
1.2D + 1.0W 60° 105 mph Wind with No Ice	192.00	1.4489	0.0474	0.9981	0.9988
1.2D + 1.0W 60° 105 mph Wind with No Ice	196.00	1.518	0.0474	0.9944	0.9945
1.2D + 1.0W Normal 105 mph Wind with No Ice	40.00	0.051	0.0028	0.1400	0.1401
1.2D + 1.0W Normal 105 mph Wind with No Ice	144.00	0.7415	0.0304	0.6969	0.6969
1.2D + 1.0W Normal 105 mph Wind with No Ice	148.00	0.7916	0.0324	0.7351	0.7358
1.2D + 1.0W Normal 105 mph Wind with No Ice	152.00	0.8439	0.0337	0.7711	0.7711
1.2D + 1.0W Normal 105 mph Wind with No Ice	156.00	0.8993	0.0000	0.8039	0.8039
1.2D + 1.0W Normal 105 mph Wind with No Ice	164.00	1.0184	0.0376	0.9076	0.9076
1.2D + 1.0W Normal 105 mph Wind with No Ice	180.00	1.2877	0.0359	1.0193	1.0199
1.2D + 1.0W Normal 105 mph Wind with No Ice	192.00	1.5024	0.0351	1.0312	1.0318
1.2D + 1.0W Normal 105 mph Wind with No Ice	196.00	1.5737	0.0349	1.0266	1.0266

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0W Normal	12.12	0.00	0	1	0.00	188.81	-17.91
	12.12	0.00	120	1a	5.91	-73.07	-4.87
	12.12	0.00	240	1b	-5.91	-73.07	-4.87
1.2D + 1.0W 60°	12.12	0.00	0	1	-1.14	97.46	-8.95
	12.12	0.00	120	1a	-8.31	97.34	3.51
	12.12	0.00	240	1b	-13.05	-152.13	-7.55
1.2D + 1.0W 90°	12.12	0.00	0	1	-1.36	14.23	-0.95
	12.12	0.00	120	1a	-13.32	160.00	6.94
	12.12	0.00	240	1b	-11.72	-131.58	-5.99
1.2D + 1.0W 120°	12.12	0.00	0	1	-1.28	-73.05	7.55
	12.12	0.00	120	1a	-15.50	188.69	8.96
	12.12	0.00	240	1b	-7.17	-72.97	-2.69
1.2D + 1.0W 180°	12.12	0.00	0	1	0.00	-152.22	15.08
	12.12	0.00	120	1a	-7.18	97.44	5.45
	12.12	0.00	240	1b	7.18	97.44	5.45
1.2D + 1.0W 210°	12.12	0.00	0	1	0.69	-131.68	13.14
	12.12	0.00	120	1a	-0.15	14.27	1.63
	12.12	0.00	240	1b	12.66	160.06	8.09
1.2D + 1.0W 240°	12.12	0.00	0	1	1.28	-73.05	7.55
	12.12	0.00	120	1a	7.17	-72.97	-2.69
	12.12	0.00	240	1b	15.50	188.69	8.96
1.2D + 1.0W 300°	12.12	0.00	0	1	1.14	97.46	-8.95
	12.12	0.00	120	1a	13.05	-152.13	-7.55
	12.12	0.00	240	1b	8.31	97.34	3.51
1.2D + 1.0W 330°	12.12	0.00	0	1	0.67	160.14	-15.01
	12.12	0.00	120	1a	11.04	-131.64	-7.17
	12.12	0.00	240	1b	1.49	14.16	-0.69
0.9D + 1.0W Normal	12.12	0.00	0	1	0.00	184.95	-17.66
	12.12	0.00	120	1a	6.11	-76.48	-5.00
	12.12	0.00	240	1b	-6.11	-76.48	-5.00
0.9D + 1.0W 60°	12.12	0.00	0	1	-1.14	93.76	-8.70
	12.12	0.00	120	1a	-8.10	93.64	3.38
	12.12	0.00	240	1b	-13.26	-155.40	-7.67
0.9D + 1.0W 90°	12.12	0.00	0	1	-1.37	10.68	-0.70
	12.12	0.00	120	1a	-13.11	156.20	6.81
	12.12	0.00	240	1b	-11.92	-134.88	-6.11
0.9D + 1.0W 120°	12.12	0.00	0	1	-1.28	-76.46	7.79
	12.12	0.00	120	1a	-15.29	184.84	8.84
	12.12	0.00	240	1b	-7.38	-76.38	-2.81
0.9D + 1.0W 180°	12.12	0.00	0	1	0.00	-155.49	15.32
	12.12	0.00	120	1a	-6.97	93.74	5.33
	12.12	0.00	240	1b	6.97	93.74	5.33
0.9D + 1.0W 210°	12.12	0.00	0	1	0.69	-134.99	13.38
	12.12	0.00	120	1a	0.07	10.72	1.52
	12.12	0.00	240	1b	12.44	156.26	7.96
0.9D + 1.0W 240°	12.12	0.00	0	1	1.28	-76.46	7.79
	12.12	0.00	120	1a	7.38	-76.38	-2.81
	12.12	0.00	240	1b	15.29	184.84	8.84
0.9D + 1.0W 300°	12.12	0.00	0	1	1.14	93.76	-8.70
	12.12	0.00	120	1a	13.26	-155.40	-7.67
	12.12	0.00	240	1b	8.10	93.64	3.38
0.9D + 1.0W 330°	12.12	0.00	0	1	0.67	156.33	-14.76
	12.12	0.00	120	1a	11.24	-134.94	-7.29
	12.12	0.00	240	1b	1.28	10.60	-0.81
1.2D + 1.0Di + 1.0Wi Normal	12.12	0.00	0	1	0.00	65.51	-3.47
	12.12	0.00	120	1a	3.01	-6.89	-2.16
	12.12	0.00	240	1b	-3.01	-6.89	-2.16
1.2D + 1.0Di + 1.0Wi 60°	12.12	0.00	0	1	-0.34	40.50	-0.98
	12.12	0.00	120	1a	-1.02	40.45	0.20

ASSET: 370533, Canon City

CODE: ANSI/TIA-222-H

CUSTOMER: AT&T MOBILITY

PROJECT: OAA794142_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
1.2D + 1.0Di + 1.0Wi 90°	12.12	0.00	240	1b	-5.08	-29.22	-2.94
	12.12	0.00	0	1	-0.40	17.26	1.30
	12.12	0.00	120	1a	-2.43	57.84	1.18
	12.12	0.00	240	1b	-4.69	-23.37	-2.48
1.2D + 1.0Di + 1.0Wi 120°	12.12	0.00	0	1	-0.37	-6.86	3.69
	12.12	0.00	120	1a	-3.01	65.46	1.74
	12.12	0.00	240	1b	-3.38	-6.86	-1.53
	12.12	0.00	0	1	0.00	-29.22	5.87
1.2D + 1.0Di + 1.0Wi 180°	12.12	0.00	120	1a	-0.68	40.48	0.78
	12.12	0.00	240	1b	0.68	40.48	0.78
	12.12	0.00	0	1	0.20	-23.37	5.30
	12.12	0.00	120	1a	1.33	17.25	-0.31
1.2D + 1.0Di + 1.0Wi 210°	12.12	0.00	240	1b	2.23	57.86	1.52
	12.12	0.00	0	1	0.37	-6.86	3.69
	12.12	0.00	120	1a	3.38	-6.86	-1.53
	12.12	0.00	240	1b	3.01	65.46	1.74
1.2D + 1.0Di + 1.0Wi 240°	12.12	0.00	0	1	0.34	40.50	-0.98
	12.12	0.00	120	1a	5.08	-29.22	-2.94
	12.12	0.00	240	1b	1.02	40.45	0.20
	12.12	0.00	0	1	0.20	57.90	-2.70
1.2D + 1.0Di + 1.0Wi 300°	12.12	0.00	120	1a	4.49	-23.39	-2.83
	12.12	0.00	240	1b	-0.93	17.22	-1.00
	12.12	0.00	0	1	0.00	26.57	-2.01
	12.12	0.00	120	1a	-0.45	8.11	0.24
1.2D + 1.0Ev + 1.0Eh Normal	12.12	0.00	240	1b	0.45	8.11	0.24
	12.12	0.00	0	1	-0.02	20.42	-1.51
	12.12	0.00	120	1a	-1.32	20.42	0.74
	12.12	0.00	240	1b	0.01	1.96	0.01
1.2D + 1.0Ev + 1.0Eh 60°	12.12	0.00	0	1	-0.02	14.26	-1.01
	12.12	0.00	120	1a	-1.63	24.92	0.93
	12.12	0.00	240	1b	0.12	3.61	0.08
	12.12	0.00	0	1	-0.02	8.11	-0.51
1.2D + 1.0Ev + 1.0Eh 90°	12.12	0.00	120	1a	-1.74	26.57	1.01
	12.12	0.00	240	1b	0.43	8.11	0.27
	12.12	0.00	0	1	0.00	1.96	-0.01
	12.12	0.00	120	1a	-1.30	20.42	0.77
1.2D + 1.0Ev + 1.0Eh 120°	12.12	0.00	240	1b	1.30	20.42	0.77
	12.12	0.00	0	1	0.01	3.61	-0.15
	12.12	0.00	120	1a	-0.87	14.26	0.53
	12.12	0.00	240	1b	1.62	24.92	0.95
1.2D + 1.0Ev + 1.0Eh 180°	12.12	0.00	0	1	0.02	8.11	-0.51
	12.12	0.00	120	1a	-0.43	8.11	0.27
	12.12	0.00	240	1b	1.74	26.57	1.01
	12.12	0.00	0	1	0.02	20.42	-1.51
1.2D + 1.0Ev + 1.0Eh 210°	12.12	0.00	120	1a	-0.01	1.96	0.01
	12.12	0.00	240	1b	1.32	20.42	0.74
	12.12	0.00	0	1	0.01	24.92	-1.88
	12.12	0.00	120	1a	-0.13	3.61	0.06
1.2D + 1.0Ev + 1.0Eh 240°	12.12	0.00	240	1b	0.89	14.26	0.49
	12.12	0.00	0	1	0.00	21.87	-1.68
	12.12	0.00	120	1a	-0.17	3.45	0.07
	12.12	0.00	240	1b	0.17	3.45	0.07
0.9D - 1.0Ev + 1.0Eh Normal	12.12	0.00	0	1	-0.02	15.73	-1.18
	12.12	0.00	120	1a	-1.03	15.73	0.57
	12.12	0.00	240	1b	-0.28	-2.68	-0.16
	12.12	0.00	0	1	-0.02	9.59	-0.68
0.9D - 1.0Ev + 1.0Eh 60°	12.12	0.00	120	1a	-1.35	20.23	0.76
	12.12	0.00	240	1b	-0.17	-1.04	-0.08
	12.12	0.00	0	1	-0.02	3.45	-0.18
	12.12	0.00	120	1a			

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down		
					FX* (kip)	FY* (kip)	FZ* (kip)
0.9D - 1.0Ev + 1.0Eh 180°	12.12	0.00	120	1a	-1.46	21.87	0.84
	12.12	0.00	240	1b	0.15	3.45	0.11
	12.12	0.00	0	1	0.00	-2.68	0.32
	12.12	0.00	120	1a	-1.01	15.73	0.61
	12.12	0.00	240	1b	1.01	15.73	0.61
0.9D - 1.0Ev + 1.0Eh 210°	12.12	0.00	0	1	0.01	-1.04	0.19
	12.12	0.00	120	1a	-0.58	9.59	0.36
	12.12	0.00	240	1b	1.33	20.23	0.78
0.9D - 1.0Ev + 1.0Eh 240°	12.12	0.00	0	1	0.02	3.45	-0.18
	12.12	0.00	120	1a	-0.15	3.45	0.11
	12.12	0.00	240	1b	1.46	21.87	0.84
0.9D - 1.0Ev + 1.0Eh 300°	12.12	0.00	0	1	0.02	15.73	-1.18
	12.12	0.00	120	1a	0.28	-2.68	-0.16
	12.12	0.00	240	1b	1.03	15.73	0.57
0.9D - 1.0Ev + 1.0Eh 330°	12.12	0.00	0	1	0.01	20.23	-1.55
	12.12	0.00	120	1a	0.15	-1.04	-0.10
	12.12	0.00	240	1b	0.60	9.59	0.32
1.0D + 1.0W Service Normal	12.12	0.00	0	1	0.00	69.06	-6.41
	12.12	0.00	120	1a	1.52	-16.75	-1.37
	12.12	0.00	240	1b	-1.52	-16.75	-1.37
1.0D + 1.0W Service 60°	12.12	0.00	0	1	-0.39	39.14	-3.45
	12.12	0.00	120	1a	-3.18	39.09	1.39
	12.12	0.00	240	1b	-3.89	-42.68	-2.25
1.0D + 1.0W Service 90°	12.12	0.00	0	1	-0.47	11.86	-0.80
	12.12	0.00	120	1a	-4.84	59.63	2.53
	12.12	0.00	240	1b	-3.45	-35.94	-1.73
1.0D + 1.0W Service 120°	12.12	0.00	0	1	-0.43	-16.74	2.00
	12.12	0.00	120	1a	-5.55	69.01	3.21
	12.12	0.00	240	1b	-1.95	-16.72	-0.63
1.0D + 1.0W Service 180°	12.12	0.00	0	1	0.00	-42.70	4.49
	12.12	0.00	120	1a	-2.79	39.12	2.06
	12.12	0.00	240	1b	2.79	39.12	2.06
1.0D + 1.0W Service 210°	12.12	0.00	0	1	0.23	-35.96	3.85
	12.12	0.00	120	1a	-0.47	11.86	0.80
	12.12	0.00	240	1b	4.61	59.65	2.93
1.0D + 1.0W Service 240°	12.12	0.00	0	1	0.43	-16.74	2.00
	12.12	0.00	120	1a	1.95	-16.72	-0.63
	12.12	0.00	240	1b	5.55	69.01	3.21
1.0D + 1.0W Service 300°	12.12	0.00	0	1	0.39	39.14	-3.45
	12.12	0.00	120	1a	3.89	-42.68	-2.25
	12.12	0.00	240	1b	3.18	39.09	1.39
1.0D + 1.0W Service 330°	12.12	0.00	0	1	0.23	59.68	-5.46
	12.12	0.00	120	1a	3.22	-35.96	-2.13
	12.12	0.00	240	1b	0.93	11.83	0.00

ASSET: 370533, Canon City
CUSTOMER: AT&T MOBILITY

CODE: ANSI/TIA-222-H
PROJECT: OAA794142_C3_01

MAXIMUM REACTIONS SUMMARY

<u>Individual</u>		<u>Global (DL+WL+IL)</u>		<u>Global (DL+WL)</u>	
Max Uplift:	155.49 (kip)	Moment Ice:	877.73 (kip-ft)	Moment:	3175.10 (kip-ft)
Max Down:	188.81 (kip)	Total Down Ice:	51.73 (kip)	Total Down:	42.66 (kip)
Max Shear:	17.91 (kip)	Total Shear Ice:	7.8 (kip)	Total Shear:	27.65 (kip)
1.2D + 1.0W Normal					