

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
 :
 :
 A PETITION OF CELLCO PARTNERSHIP : SUB-PETITION NO. 1133
 D/B/A VERIZON WIRELESS FOR A : 234 SHERMAN AVENUE
 DECLARATORY RULING ON THE NEED TO : MERIDEN, CT
 OBTAIN A SITING COUNCIL CERTIFICATE :
 FOR THE INSTALLATION OF A SMALL :
 CELL TELECOMMUNICATIONS FACILITY :
 ON THE ROOF OF THE BUILDING AT 234 :
 SHERMAN AVENUE, MERIDEN, :
 CONNECTICUT : SEPTEMBER 25, 2015

SUB-PETITION FOR DECLARATORY RULING:
ELIGIBLE FACILITIES REQUEST FOR MODIFICATIONS
THAT WILL NOT SUBSTANTIALLY CHANGE THE
PHYSICAL DIMENSIONS OF AN EXISTING BASE STATION

I. Introduction

Pursuant to Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. § 1455(a) (“Section 6409(a)”) and the October 21, 2014 Report and Order (FCC-14-533) issued by the Federal Communications Commission (“FCC”) (the “FCC Order”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Sub-Petition”) that the installation of a new “small cell” telecommunications facility on the roof of a four-story residential apartment building at 234 Sherman Avenue in Meriden, Connecticut (the “Property”) constitutes an Eligible Facilities Request (“EFR”) under the FCC Order. Cellco has designated this site as its “Meriden 5 Facility”.

II. Factual Background

The Property is a 2.05-acre parcel in Meriden’s R-3 zone and is surrounded by single-

family and multi-family residential uses along Sherman Avenue, Britannia Street and Broad Street (Route 5). The Property is owned by 234 Sherman LLC. See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph). AT&T Wireless currently maintains antennas on a single tower mast in the westerly portion of the roof of the building at the Property. The AT&T tower and antennas are located inside a concealment canister. Equipment associated with AT&T’s antennas is located inside the building. Under the terms of the FCC Order, the building, therefore, constitutes an existing wireless “base station”.¹

Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Meriden and throughout the State of Connecticut. The proposed Meriden 5 Facility described above will provide wireless service in Cellco’s 700 MHz and 2100 MHz frequency ranges and is designed to provide coverage and capacity relief to Cellco’s existing wireless network in Meriden.

III. Proposed Meriden 5 Facility

Cellco’s proposed Meriden 5 Facility would consist of two (2) small towers attached to the roof of the building. The tower on the easterly portion of the roof would support four (4) antennas. The tower on the westerly portion of the roof would support two (2) antennas. Cellco will also install nine (9) remote radio heads (“RRHs”) inside the attic portion of the building. The towers and antennas will be concealed inside faux chimney structures designed to match the existing building materials. The top of both concealment chimneys will extend approximately seven (7) feet above the highest peak of the roof of the building (approximately 79’-7” above ground level (“AGL”)). Equipment associated with the Meriden 5 Facility will be located in the

¹ Pursuant to the FCC Order the definition of “base station” includes any “structure that currently supports or houses an antenna, transceiver, or other associated equipment . . .”. FCC Order para. 172.

basement of the building. A small 15 kW DC generator will be installed on concrete pads on the ground in a courtyard between the buildings. Power and telephone service will extend from existing service inside the building. Project Plans for the Meriden 5 Facility are included in Attachment 2. A Structural Analysis Report and Design Calculation confirming that the building can support Cellco's base station modifications is included in Attachment 3. Specifications for Cellco's antennas, RRHs and generator are included in Attachment 4.

IV. Discussion

A. The Proposed Modification Will Not Cause a Substantial Change to the Physical Dimensions of the Existing Base Station

Section 6409(a) provides, in relevant part, that "a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." Pursuant to the FCC Order, the proposed modification does not substantially change the physical dimensions of the base station if the following criteria are satisfied.

1. *The proposed modified facility will not increase the height of the base station by more than ten (10) percent or ten (10) feet, whichever is greater.* Cellco's proposed towers and concealment structures will extend only seven (7) feet above the highest peak of the roof of the existing building.

2. *The proposed facility modification will not protrude from the edge of the structure more than six (6) feet.* Cellco's proposed tower masts, antennas and concealment structures will be located on the roof of the building and will not protrude from the edge of the structure. Cellco's generator is located in a rear courtyard area, contained within the buildings footprint.

3. *The proposed facility does not involve installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets.* Cellco intends to install RRHs and equipment inside the existing building.

4. *The proposed facility does not entail any excavation or deployment outside the current site of the base station.* With the exception of a small (8.5' x 8.5') generator pad, all of Cellco's site development improvements will be located on the roof or inside the building. No improvements will extend off of the Property.

5. *The proposed facility does not defeat the existing concealment elements of the base station.* Cellco's proposed tower masts and antennas concealment plan is consistent with the approach taken by AT&T for its antennas.

6. *The proposed facility complies with conditions associated with the prior approval of construction or modification of the base station.* The AT&T roof-top facilities at the Property were approved by the City of Meriden in 2002 and 2015. None of the elements of Cellco's proposed facility installation conflict with AT&T's existing wireless base station improvements and appear to be consistent with the City of Meriden's approval of a concealed wireless facility.

B. FCC Compliance

Radio frequency ("RF") emissions from Cellco's proposed installation will be far below the standards adopted by the FCC. Included in Attachment 5 are for field tables for Cellco's 700 MHz and 2100 MHz antennas confirming that the facility will operate well within the FCC safety standards.

C. Notice to the City, Property Owner and Abutting Landowners


On September 25, 2015, a copy of this Sub-Petition was sent to Meriden's Mayor Manuel A. Santos, Meriden's City Planner Dominick Caruso and 234 Sherman LLC, the owner of the Property. See Attachment 6. A copy of this Sub-Petition was also sent to the owners of land that abuts the Property. A sample abutter's cover letter and the list of those abutting landowners who were sent notice of the filing of the Sub-Petition is included in Attachment 7.

V. Conclusion

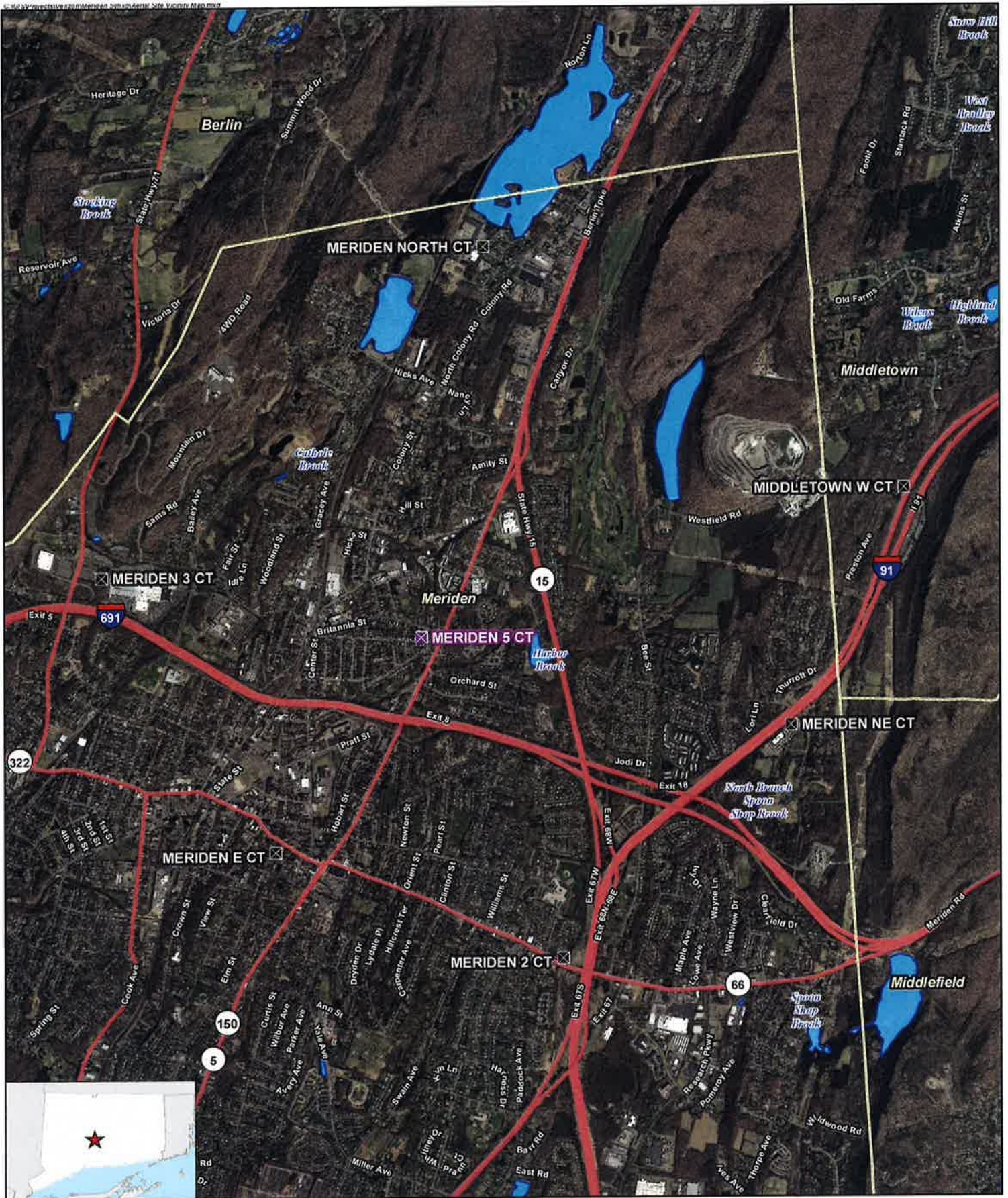
Based on the information provided above, Cellco respectfully submits that the proposed modification of the existing base station at the Property constitutes an "eligible facilities request" under Section 6409(a) and the FCC Order.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By 
Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



- Legend**
- ✕ Proposed Verizon Wireless Facility
 - ✕ Surrounding Verizon Wireless Facilities
 - Municipal Boundary
 - 🌊 Waterbody

Site Vicinity Map

Proposed Wireless
Telecommunications Facility
Meriden 5 CT
234 Sherman Avenue
Meriden, Connecticut





Proposed Antennas Mounted Inside 5' x 5' Fiberglass Chimney

Proposed Generator on Concrete Pad Within Proposed 8' - 6" x 8' - 6" Area with Chain Link Fence




Proposed Antennas Mounted Inside 5' x 5' Fiberglass Chimney

Proposed Antennas Mounted Inside 3' x 10' Concealed Canister

Approximate Location of Existing Storage Room in Basement to be Utilized for Proposed Equipment

Proposed RRH's & OVP Boxes Mounted to Existing Truss in Attic

Legend

-  Approximate Subject Property
-  Proposed Facility Equipment
-  Approximate Parcel Boundary (CTDEEP GIS Parcels Last Updated 2010)

Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Date: September 2015
 Map Scale: 1 inch = 150 feet



Site Schematic

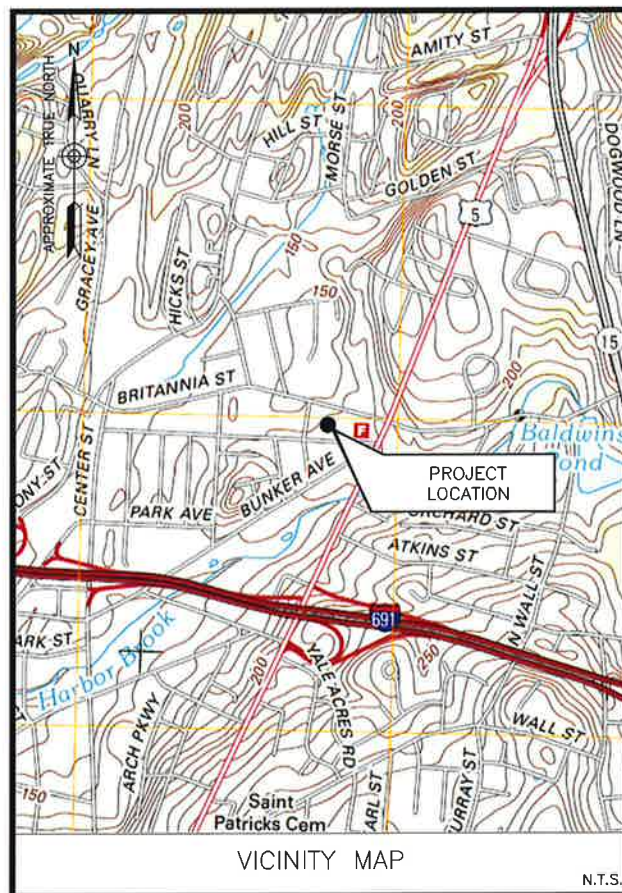
Proposed Wireless Telecommunications Facility
 Meriden 5 CT
 234 Sherman Avenue
 Wallingford, Connecticut



ATTACHMENT 2

CELLCO PARTNERSHIP d/b/a **verizon**wireless

PROPOSED WIRELESS FACILITY SITE NAME: MERIDEN 5 234 SHERMAN AVENUE MERIDEN, CT 06450



DIRECTIONS FROM 99 EAST RIVER DRIVE, EAST HARTFORD, CT:
HEAD SOUTHWEST ON E RIVER DR TOWARD PITKIN ST. CONTINUE ONTO E RIVER DRIVE EXTENSION. TURN RIGHT ONTO THE U.S. 5 S/CONNECTICUT 15 S RAMP TO NEW HAVEN/INSTERSTATE 91 S. MERGE ONTO US-5 S. TAKE EXIT 86 TO MERGE ONTO I-91 TOWARD NEW HAVEN/NEW YORK CITY. TAKE EXIT 18 FOR I-691 TOWARD MERIDEN/WATERBURY. CONTINUE ONTO I-691 W. TAKE EXIT 8 FOR US-5/BROAD ST. TURN RIGHT ONTO US-5 N/BROAD ST. TURN LEFT ONTO SHERMAN AVE. DESTINATION WILL BE ON THE RIGHT.

SITE COORDINATES:
LATITUDE: 41°-32'-52.656" N
LONGITUDE: 72°-47'-04.082" W
(BASED ON FAA 1A)

ELEVATION DATA
GRADE ELEVATION AT BUILDING = 163.9'± A.M.S.L.
(BASED ON FAA 1A)

ELEVATION (TO C.L. OF UPPER ANTENNAS)
ELEVATION = 76'-7"± A.G.L., 240'-6"± A.M.S.L.

ELEVATION (TO C.L. OF LOWER ANTENNAS)
ELEVATION = 69'-7"± A.G.L., 235'-6"± A.M.S.L.

PROJECT INFORMATION

- THE SCOPE OF WORK SHALL INCLUDE:
1. THE INSTALLATION OF A PROPOSED CELLCO PARTNERSHIP EQUIPMENT ROOM LOCATED IN AN EXISTING 5 STORY BUILDING.
 2. A TOTAL OF UP TO SIX (6) PROPOSED CELLCO PARTNERSHIP ANTENNAS AND ASSOCIATED APPURTENANCES ARE TO BE MOUNTED INSIDE TWO (2) CONCEALMENT CHIMNEYS WITH A TOP ELEVATION OF 78'-4"±.
 3. THE INSTALLATION OF A PROPOSED BACKUP GENERATOR IN THE EXISTING PARKING LOT AREA.
 4. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
- SCOPE OF WORK

SITE NAME:
MERIDEN 5

SITE ADDRESS:
234 SHERMAN AVENUE
MERIDEN, CT 06450
NEW HAVEN COUNTY

PROPERTY OWNER:
234 SHERMAN LLC
C/O EAGLE ROCK MANAGEMENT
1670 OLD COUNTRY ROAD
PLAINVIEW, NY 11803

APPLICANT:
CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108

SITE ACQUISITION CONTACT:
CHRISTOPHER BISSON
VITALSITE SERVICES, INC.
(203) 632-1062

LEGAL/REGULATORY COUNSEL:
KENNETH C. BALDWIN, ESQ.
ROBINSON & COLE
(860) 275-8345

PROJECT INFORMATION

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS MAP
C-2	SITE PLAN
C-3	EQUIPMENT PLAN & SOUTH ELEVATION
SHEET INDEX	

CELLCO PARTNERSHIP
d/b/a **verizon**wireless

MERIDEN 5

CSC DRAWINGS		
2	09/23/15	FOR SUBMITTAL
1	09/10/15	FOR SUBMITTAL
0	08/28/15	FOR SUBMITTAL
B	08/14/15	FOR COMMENT
A	06/01/15	FOR COMMENT

Dewberry
Dewberry Engineers Inc.
800 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

JIANG YU, P.E.
CONNECTICUT LICENSE NO. 0023222

DRAWN BY: JC

REVIEWED BY: PD

CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50067831

SITE ADDRESS

234 SHERMAN AVENUE
MERIDEN, CT 06450

SHEET TITLE

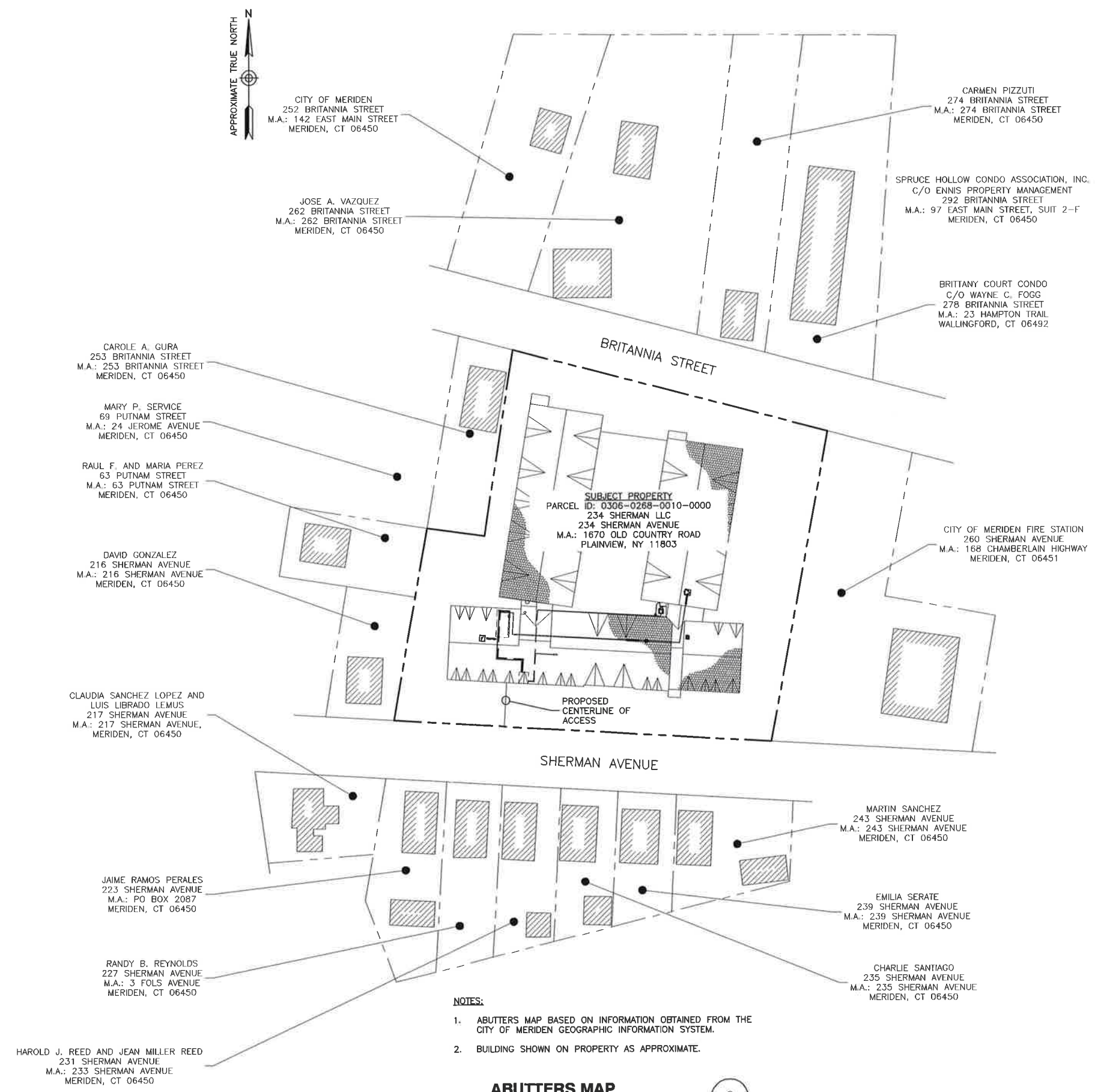
TITLE SHEET

SHEET NUMBER

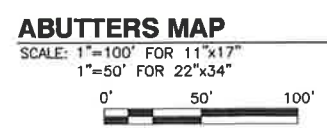


MUNICIPALITY NOTIFICATION LIMIT MAP

1



- NOTES:**
1. ABUTTERS MAP BASED ON INFORMATION OBTAINED FROM THE CITY OF MERIDEN GEOGRAPHIC INFORMATION SYSTEM.
 2. BUILDING SHOWN ON PROPERTY AS APPROXIMATE.



2

MERIDEN 5

CSC DRAWINGS

NO.	DATE	DESCRIPTION
2	09/23/15	FOR SUBMITTAL
1	09/10/15	FOR SUBMITTAL
0	08/28/15	FOR SUBMITTAL
B	08/14/15	FOR COMMENT
A	06/01/15	FOR COMMENT

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JIANG YU, P.E.
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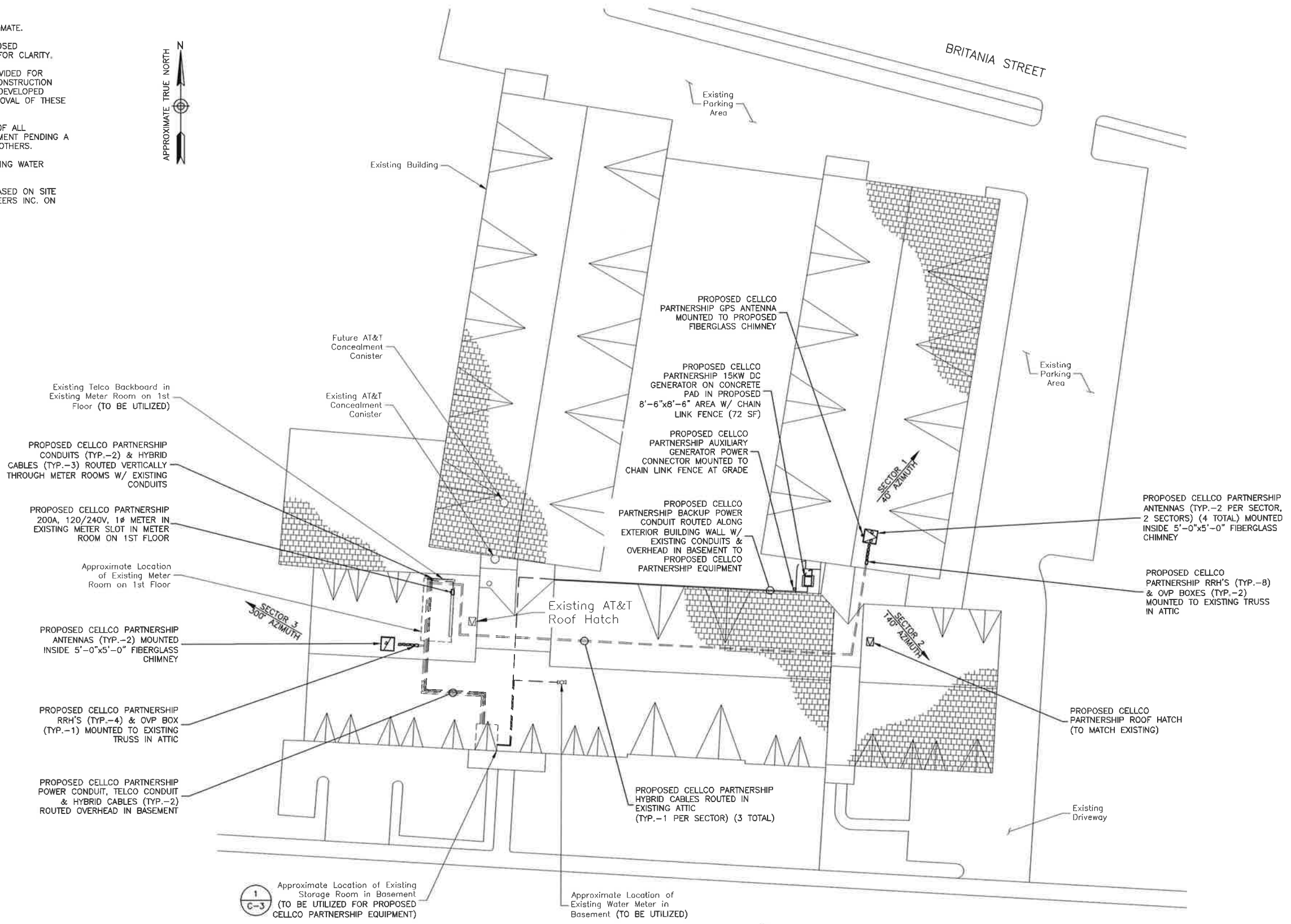
DRAWN BY: JC
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 234 SHERMAN AVENUE
 MERIDEN, CT 06450

SHEET TITLE
 ABUTTERS MAP
 SHEET NUMBER

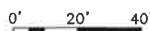
NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. THESE DRAWINGS ARE PROVIDED FOR SITING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
4. LOCATION & ORIENTATION OF ALL ANTENNAS, COAX & EQUIPMENT PENDING A STRUCTURAL ANALYSIS BY OTHERS.
5. GROUND WILL BE TO EXISTING WATER METER IN BASEMENT.
6. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 02/26/15.



SITE PLAN

SCALE: 1"=40' FOR 11"x17"
1"=20' FOR 22"x34"



CELLCO PARTNERSHIP
d/b/a **verizon wireless**

MERIDEN 5

CSC DRAWINGS		
2	09/23/15	FOR SUBMITTAL
1	09/10/15	FOR SUBMITTAL
0	08/28/15	FOR SUBMITTAL
B	08/14/15	FOR COMMENT
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DRAWN BY: JC

REVIEWED BY: PD

CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50067831

SITE ADDRESS

234 SHERMAN AVENUE
MERIDEN, CT 06450

SHEET TITLE

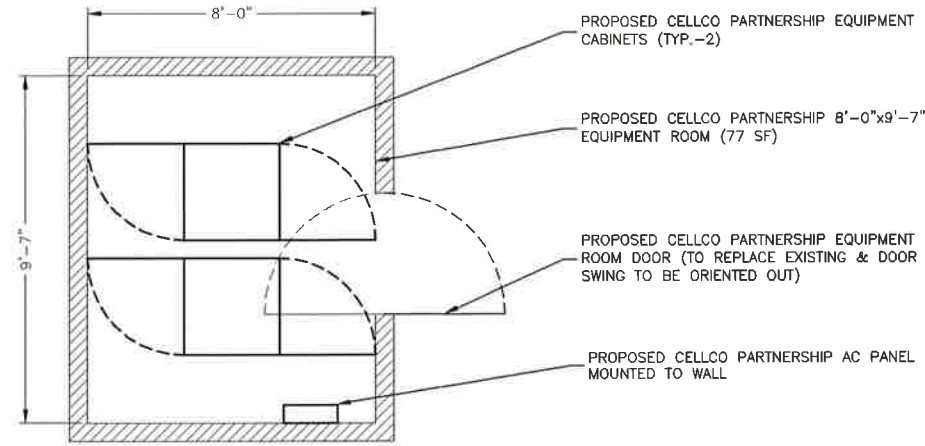
SITE PLAN

SHEET NUMBER

C-2

NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. THESE DRAWINGS ARE PROVIDED FOR STING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
4. LOCATION & ORIENTATION OF ALL ANTENNAS, COAX & EQUIPMENT PENDING A STRUCTURAL ANALYSIS BY OTHERS.
5. GROUND WILL BE TO EXISTING WATER METER IN BASEMENT.
6. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 02/26/15.
7. EXISTING SHELVES & STORAGE ITEMS IN EXISTING STORAGE ROOM ARE TO BE REMOVED.

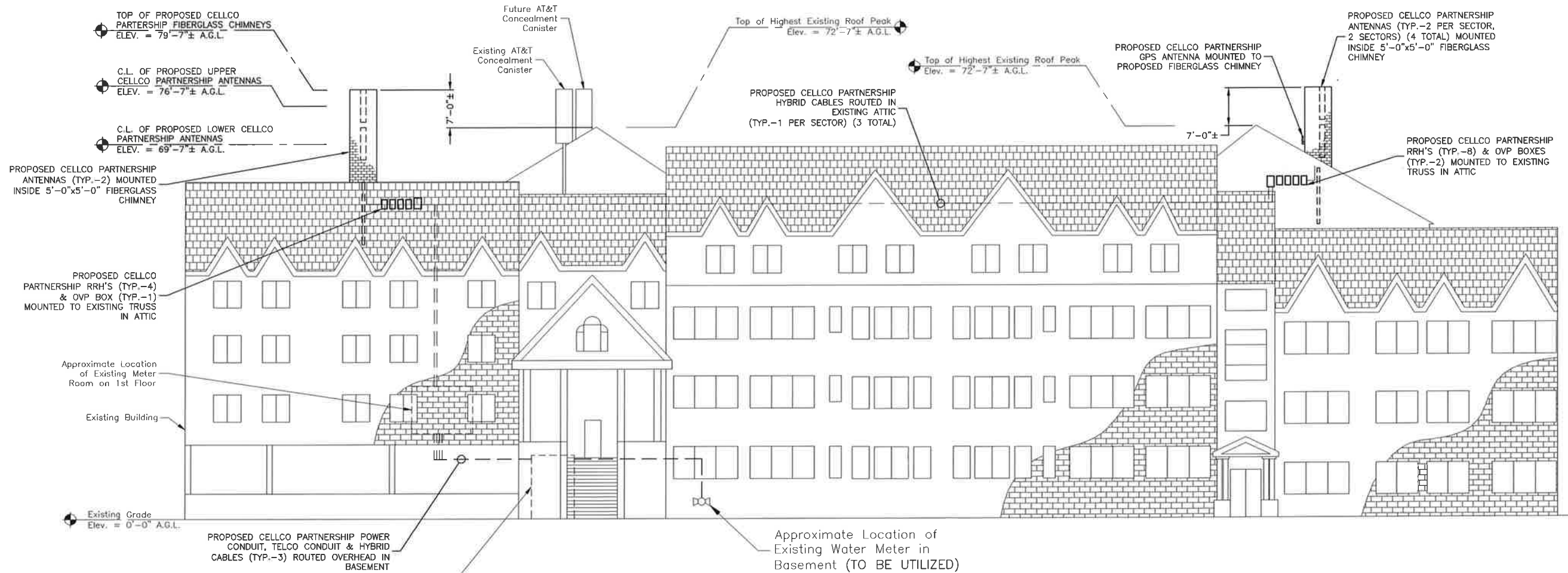


EQUIPMENT PLAN

SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"



1



SOUTH ELEVATION

SCALE: 3/64"=1' FOR 11"x17"
3/32"=1' FOR 22"x34"



2

1
C-3
Approximate Location of Existing Water Meter in Basement (TO BE UTILIZED)

MERIDEN 5

CSC DRAWINGS

NO.	DATE	DESCRIPTION
2	09/23/15	FOR SUBMITTAL
1	09/10/15	FOR SUBMITTAL
0	08/28/15	FOR SUBMITTAL
B	08/14/15	FOR COMMENT
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CONNECTICUT LICENSE NO. 0023222

DRAWN BY:	JC
REVIEWED BY:	PD
CHECKED BY:	GHN
PROJECT NUMBER:	50067815
JOB NUMBER:	50067831

SITE ADDRESS
234 SHERMAN AVENUE
MERIDEN, CT 06450

SHEET TITLE
EQUIPMENT PLAN
& SOUTH ELEVATION
SHEET NUMBER

ATTACHMENT 3

Structural Analysis Report and Design Calculations For a Wireless Telecommunications facility

Site Name: Meriden 5
Site Address: 234 Sherman Avenue
Meriden, CT 06450
New Haven County

Prepared for:
d/b/a **Verizon Wireless**
99 East River Drive
East Hartford, CT 06108

September 4, 2015

Prepared by:
Dewberry Engineers Inc.
600 Parsippany Road
Parsippany, NJ 07054
Dewberry Project Number: 50067831

Reviewed by: Jiang J. Yu


Matthew Sperling
Jiang J. Yu, P.E.
Professional Engineer
License No.: 23222

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2.0 PROPOSED ANTENNAS & EQUIPMENT	1
3.0 CODES, STANDARDS, AND REFERENCES	1
4.0 CALCULATIONS	1
5.0 CONCLUSIONS, COMMENTARY, AND RECOMMENDATIONS	2
APPENDIX A ANALYSIS OF ANTENNA MOUNT	
APPENDIX B EQUIPMENT SPECIFICATIONS	
APPENDIX C PHOTOS FROM DESIGN VISIT	

1.0 INTRODUCTION AND PROJECT SUMMARY

The objective of this report is to assess the structural integrity of the installation of six (6) panel antennas, twelve (12) remote radio heads and three (3) OVP boxes. The proposed panel antennas will be shielded by fiberglass chimneys and located above the existing building's roof. Antennas will be mounted to a pipe mast, and supported by structural elements of the fiberglass chimney. Fiberglass chimney will be anchored to existing timber truss in building attic. Remote radio heads and OVP boxes will be mounted to existing timber truss in building attic.

The installation of all antennas, equipment, cables and accessories are to be performed in accordance with construction drawings prepared by Dewberry Engineers Inc.

2.0 PROPOSED ANTENNAS & EQUIPMENT

The following equipment is proposed at each antenna sector:

- Six (6) canister antenna measuring 72.0"H x 11.9"W x 7.1"D and weighing 40.6lbs.
- Twelve (12) remote radio heads measuring 20.1"H x 11.2"W x 7.2"D and weighing 43lbs.
- Three (3) OVP boxes measuring 8"H x 14" W x 10"D and weighing 15lbs.

3.0 CODES, STANDARDS, AND REFERENCES

The structure was analyzed and the proposed installation designed per the provisions of the following Codes and standards:

- *State Building Code - 2013 Amendment to the 2005 Connecticut Supplement, International Building Code 2006.*
- *American Society of Civil Engineers ASCE 7-05 Minimum Design Loads for Buildings and Other Structure*
- *American Institute of Steel Construction AISC 360-05, Specifications for Structural Steel Buildings*
- *TIA-222-F-1996 Structural Standard for Antenna Supporting Structures and Antennas*

4.0 CALCULATIONS

Calculations for this analysis and the design of the installation are included in Appendices of this report.

5.0 CONCLUSIONS, COMMENTARY, AND RECOMMENDATIONS

After evaluation and analysis, it was determined that the proposed structural members **are adequate** in regards of stresses and deflections with the most unfavorable loading effects.

The global impact of the platform and antenna mounting frames on the existing structure as a whole is negligible, existing structural members other than the primary supporting members explicitly checked need not be investigated. Therefore, the proposed installation may be installed as planned. Please see details for the proposed installation included in the final construction drawings.

Dewberry Engineers Inc. reserves the right to add to or modify this report if more information becomes available. The conclusions reached by Dewberry Engineers Inc. in this report are only applicable to the previously mentioned existing structural elements supporting the proposed wireless telecommunications installation. The results of this report are based on the assumption that existing structural elements have been installed per the original design documents, have been well maintained and are uncompromised. This report does not imply that a thorough inspection of the existing structure has been performed. Any deviation of the support condition, loading, location, placement, equipment configuration, etc., will require Dewberry Engineers Inc. to generate an additional structural analysis.

APPENDIX A – ANALYSIS OF ANTENNA MOUNT



600 Parsippany F 973.576.9600
 Suite 301 973.739.9710 fax
 Parsippany, NJ 0 www.dewberry.com

Designer: Matthew Sperling Date: 8/27/2015 Checker JJY Date:
 Title: Meriden 5 New Haven County, CT 06450 Job No. 50067831
 Subject: Wind Loading Calculations Sheet No. 1 of

Design Criteria:

Structural Loading is per TIA/222-F Standard

International Building Code 2006; State Building Code - 2013 Amendment to the 2005 Connecticut Supplement

Design of all steel per AISC Manual for Steel Construction,

General information from TIA-222-F

Item	Value	Description	Comments
Vmax=	85.00	New Haven County, CT	Section 16
V ice=	73.95	0.87 Of Basic Windspeed	From Annex A, 2.3.16.A
Ice =	0.50		Annex A, 2.3.1.2.A
z=h=	69.67	AGL (ft)	Centerline of Proposed Antenna
Exp. Cat.	b	Exposure Category	
Kz=	1.24	[z/33]^2/7 (Section 2.3.3)	1.00<Kz<2.58
Gh=	1.19		Section 2.3.4
V ser=	50.00	Serviceability wind speed	Section 11.2

Design Wind Force:

Section 2.6.9.2 $F(a)=qz \cdot Gh \cdot (EPA)a$

F= Horizontal wind force on the appurtenance in the direction of the wind

qz= Velocity pressure from Section 2.3.2

(EPA)a= effective projected area of the appurtenance

-Wind load on Equipment:

(EPA)a=(EPA)n (Conservatively)= $\sum(CaAa)n$ (Front of Cabinet)

(EPA)a=(EPA)t (Conservatively)= $\sum(CaAa)t$ (Side of Cabinet)

Section 2.6.9.6 $qz=0.00256(Kz)(V^2)$ (psf)

Summary/Calculated From Above:

Kz=	1.24
V=	85.00
V ice =	73.95

w/o ice	qz= 22.90 (psf)
w ice	qz= 17.33 (psf)
serviceability	qz= 7.92 (psf)



Designer: MLS Date: 9/2/2015 Checker: JJY Date: _____
 Title: Meriden 5 New Haven County, CT 06450 Job No. 50067831
 Subject: Stress Check Sheet No. 1 of

Max Stresses (By Section)					
Beam Definition	Beam Name	Max Compressive Stress (psi)	Beam Number	Max Tensile Stress (psi)	Beam Number
2	FRP ELA 3x0.25	347.783	282	-418.192	283
3	FRP ELA 3x0.375	662.287	265	-771.194	234
4	L3x3x1/4	1262.851	370	-1059.374	366
5	No. 2 2x4 Timber	1668.173	191	-1625.163	191
6	SS 6x6 Timber	1416.677	107	-1093.068	107
7	FRP ELA 6x0.25	3120.952	286	-3009.382	285
8	No. 2 4x4 Timber	209.169	386	-197.435	428
9	No. 2 4x10 Timber	1097.505	157	-1105.624	157

Steel Check:

$$F_y = 36 \text{ ksi}$$

$$F_B = 0.6F_y = 21.6 \text{ ksi}$$

$$\sigma_{MAX,STEEL} = 1262.9 \text{ psi}$$

$$1.263 \text{ ksi}$$

$\sigma_{MAX,STEEL}$	<	$1.33F_B$	Ratio*	OK
1.263	<	21.6	0.0585	

FRP Check:

$$F_b = 10 \text{ ksi}$$

$$\sigma_{MAX,FRP} = 3121.0 \text{ psi}$$

$$3.121 \text{ ksi}$$

$\sigma_{MAX,FRP}$	<	$1.33F_B$	Ratio*	OK
3.121	<	10	0.312	

Timber Check:

No. 2 2"-4" Thick, 2"-4" Wide Timber

$$F_b = 1500 \text{ psi}$$

$$\sigma_{MAX,2x4 \text{ TIMBER}} = 1668.2 \text{ psi}$$

$\sigma_{MAX,TIMBER}$	<	$1.33F_B$	Ratio*	OK
1668.2	<	1500	1.112	

No. 2 2"-4" Thick, 10" Wide Timber

$$F_b = 1050 \text{ psi}$$

$$\sigma_{MAX,4x10 \text{ TIMBER}} = 1105.6 \text{ psi}$$

$\sigma_{MAX,TIMBER}$	<	$1.33F_B$	Ratio*	OK
1105.6	<	1050	1.053	

*As per TIA/222-F Standard, a stress ratio of 1.33 is acceptable (where applicable)



600 Parsippany Road 973.576.9600
Suite 301 973.739.9710 fax
Parsippany, NJ 07054 www.dewberry.com

Designer: MLS Date: 9/2/2015 Checker: JJY Date: _____
Title: Meriden 5 New Haven County, CT 06450 Job No. 50067831
Subject: Stress Check Sheet No. 1 of

Timber Check (Con't):

Select Structural 5"x5" & Larger Timber

$F_b = 1500$ psi

$\sigma_{MAX, 4x10 \text{ TIMBER}} = 1416.7$ psi

$\sigma_{MAX, \text{TIMBER}}$	<	$1.33F_B$	Ratio*	OK
1416.7	<	1500	0.944	

**As per TIA/222-F Standard, a stress ratio of 1.33 is acceptable (where applicable)*



Designer: MLS Date: 9/2/2015 Checker JJY Date:
 Title: Meriden 5_New Haven County, CT 06450 Job No. 50067831
 Subject: Connection Check Sheet No. 1 of

Check FRP ELA 6x0.25 to 6x6 Timber Connection

Max Load Per Anchor

	Number of Anchors	Loading (lbs/bolt)					(IE)*	(IE)*	
		F _X	F _V /F _Z	F _Z /F _V	M _X	M _V /M _Z	See below	Results	
		V	V _⊥	T	V _⊥	V			
Side 1	Screws	6	342	33	46	-	-	0.55	OK
	Bolts	2	342	33	46	351	593	0.93	
Side 2	Screws	6	342	46	33	-	-	0.56	OK
	Bolts	2	342	46	33	351	756	0.96	

Anchor Type: Lag Screw	Allowable (T)=	1134	lbs**
Anchor Diameter: 0.500	Allowable (V _⊥)=	490	lbs**
	Allowable (V)=	780	lbs**
Anchor Type: Thru-Bolt	Allowable (T)=	13800	lbs**
Anchor Diameter: 0.625	Allowable (V _⊥)=	660	lbs**
	Allowable (V)=	1130	lbs**

Interaction Equation (IE):

$$\frac{F_T \text{ Actual (x)}}{F_T \text{ Allow (x)}} + \frac{F_V \text{ Actual (y)}}{F_V \text{ Allow (y)}} + \frac{F_V \text{ Actual (z)}}{F_V \text{ Allow (z)}} < 1.00$$



Designer MLS Date 9/2/15 Checker _____ Date _____
 Title MERIDEN S Job No. _____
 Subject DEFLECTION, CONNECTIONS & REACTION CHECK Sheet No. 1 of _____

DEFLECTION:

$$\Delta_{\text{ALLOW}} = \frac{L}{100} = \frac{26.532(12)}{100} = 3.18''$$

$$\Delta_{\text{MAX}} = 0.467'' < 3.18'' \quad \boxed{\text{OK}}$$

CONNECTIONS:

- 2x4 TIMBER TO 6x6 TIMBER (DIAGONAL)

↳ use 1/2" ϕ Lag Screws

$$F_y(\text{MAX}) = 2.946 \text{ K}$$

side member = 1 1/2" → $V_{\text{ALLOW}} = 380 \text{ lb/bolt}$

$$\frac{2.946(1000)}{380(1.33)^*} = 5.83 \rightarrow \text{use } \underline{6} \text{ Bolts}$$

* AS per TIA-222 F,
Stress ratio of
1.33 allowed

- 2x4 TIMBER TO 6x6 TIMBER (HORIZONTAL)

$$F_y(\text{MAX}) = 1.882 \text{ K}$$

$$\frac{1.882(1000)}{380(1.33)^*} = 3.72 \rightarrow \text{use } \underline{4} \text{ Bolts}$$

- KB Connection To 2x10 TIMBER

$$F_y(\text{MAX}) = 2.508 \text{ K}$$

$$\frac{2.508(1000)}{380} = 2508 \text{ lb} \rightarrow \text{use HGT2 Fastener, allowable upl ft} = \underline{10980 \text{ lbs}}$$

- X-BRACE INTERSECTION

$$F_y(\text{MAX}) = 2.006 \text{ K}$$

$$\frac{2.006(1000)}{380} = 2006 \text{ lb} \rightarrow \text{use MSTA36 (ALLOWABLE LOAD} = \underline{2050 \text{ lb}})$$



Designer MLS Date 9/2/15 Checker _____ Date _____
Title MERIDEN 5 Job No. _____
Subject DEFLECTION, CONNECTION & REACTION CHECK Sheet No. 2 of _____

CONNECTION (CON'T.)

- 6x6 TO 4x10 TIMBER

$$F_{x(\max)} = -3.180 \text{ K}$$

$$3.180 (1000) = 3180 \text{ lb} \rightarrow \text{use clip angle} \rightarrow \text{HGAM10} \\ (\text{allowable uplift} = 850 \text{ lbs})$$

$$\frac{3180}{850} = 3.74 \rightarrow \text{use } \underline{(4)} \text{ HGAM10}$$



Designer MLS Date 9/2/15 Checker _____ Date _____
 Title MERIDEN 5 Job No. _____
 Subject DEFLECTION, CONNECTION & REACTION CHECK Sheet No. 3 of _____

REACTIONS

- Max Horizontal Shear = 0.780 k

- Allowable = 90 psi.

Bearing Area = 1.5(9.5) = 14.25 in²

$\frac{0.780(1000)}{14.25} = 54.74 \text{ psi} < 90 \text{ psi}$ OK

- Max Vertical Reaction = 3.784 k

- Allowable (FOR E ≈ 1800) = 2100 psi

$\frac{3.784(1000)}{14.25} = 265.5 < 2100$ OK

6x10 TIMBER BEARING ON 2x10 (SIDE, PERPENDICULAR TO GRAIN)

- Allowable = 565 psi

- Max Vertical = 5.361 k

Bearing Area = 5.5² = 30.25 in²

$\frac{5.361(1000)}{30.25} = 177.2 < 565$ OK



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Job No
50067831

Sheet No
1

Rev
0

Job Title Meriden 5

Part

Ref

By **MLS** Date **31-Aug-15** Chd

Client Verizon Wireless

File **False Chimney.std**

Date/Time **04-Sep-2015 10:14**

Job Information

	Engineer	Checked	Approved
Name:	MLS		
Date:	31-Aug-15		

Structure Type SPACE FRAME

Number of Nodes	190	Highest Node	280
Number of Elements	198	Highest Beam	441
Number of Plates	16	Highest Plate	339

Number of Basic Load Cases	3
Number of Combination Load Cases	2

Included in this printout are data for:

All	The Whole Structure
-----	---------------------

Included in this printout are results for load cases:

Type	L/C	Name
Primary	1	DEAD
Primary	2	WIND(X)
Primary	3	WIND(Z)
Combination	4	D+W(X)
Combination	5	D+W(Z)



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Job No 50067831	Sheet No 2	Rev 0
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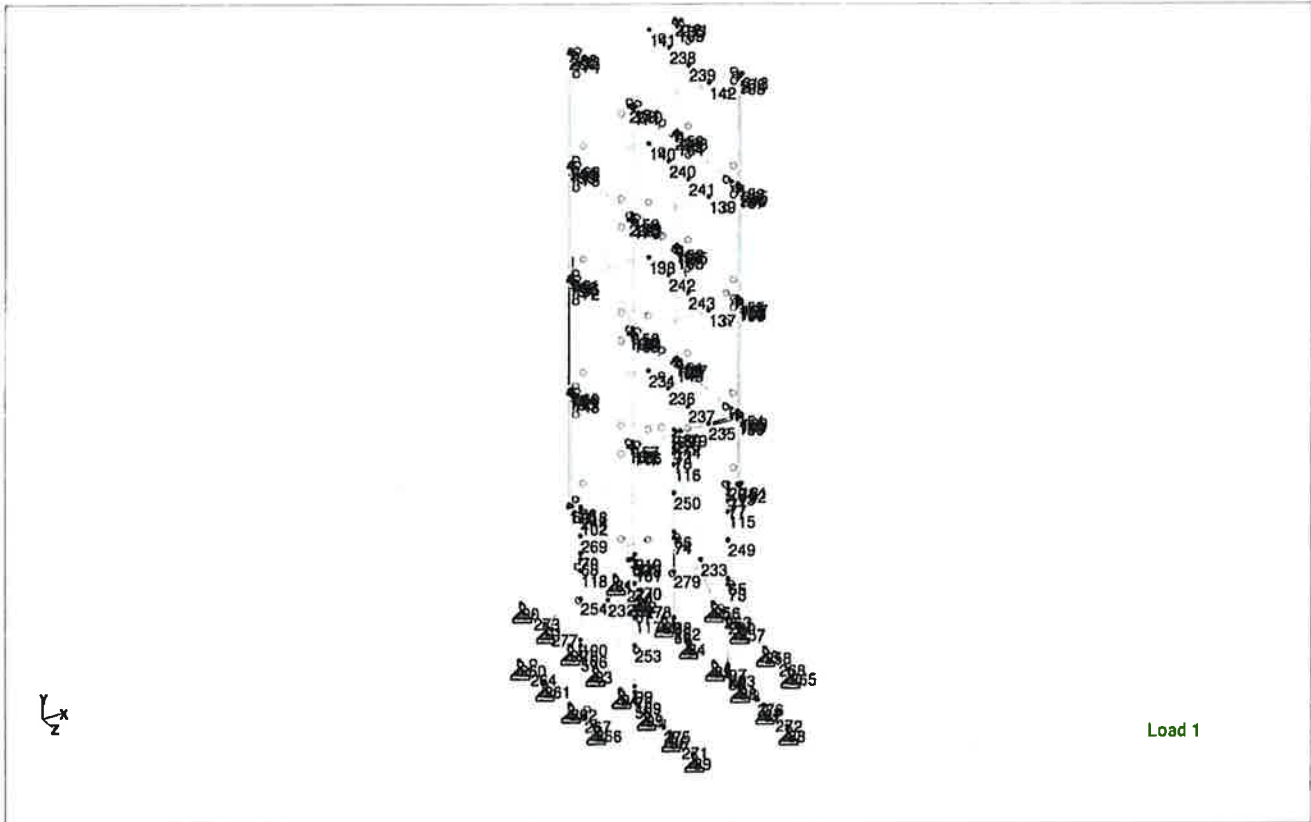
Job Title **Meriden 5**

Part	Ref
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By MLS	Date 31-Aug-15	Chd
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Client **Verizon Wireless**

File False Chimney.std	Date/Time 04-Sep-2015 10:14
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Node Layout

Nodes

Node	X (ft)	Y (ft)	Z (ft)
57	13.917	0.000	4.917
58	13.917	0.000	9.084
59	18.084	0.000	4.917
60	18.084	0.000	9.084
61	13.667	6.533	4.667
62	13.667	6.533	9.334
63	18.334	8.467	4.667
64	18.334	8.467	9.334
65	18.084	4.234	9.084
66	18.084	4.234	4.917
67	13.917	4.234	9.084
68	13.917	4.234	4.917
69	13.917	4.484	9.084
70	13.917	4.484	4.917
71	18.084	7.967	9.084
72	18.084	7.967	4.917
73	18.084	3.983	9.084



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Job No 50067831	Sheet No 3	Rev 0
Part		
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By MLS	Date 31-Aug-15	Chd
File False Chimney.std	Date/Time 04-Sep-2015 10:14	

Job Title **Meriden 5**

Client **Verizon Wireless**

Nodes Cont...

Node	X (ft)	Y (ft)	Z (ft)
74	18.084	3.983	4.917
75	13.917	0.417	9.084
76	13.917	0.417	4.917
77	18.084	7.717	9.084
78	18.084	7.717	4.917
81	18.084	0.000	0.333
82	18.084	0.000	2.167
83	18.084	0.000	4.083
84	18.084	0.000	6.000
85	18.084	0.000	8.000
86	18.084	0.000	9.917
87	18.084	0.000	11.833
88	18.084	0.000	13.667
89	13.917	0.000	13.667
90	13.917	0.000	0.333
91	13.917	0.000	2.167
92	13.917	0.000	4.083
93	13.917	0.000	6.000
94	13.917	0.000	8.000
95	13.917	0.000	9.917
96	13.917	0.000	11.833
97	18.084	0.417	9.084
98	18.084	0.417	4.917
99	13.917	0.667	9.084
100	13.917	0.667	4.917
101	13.917	6.033	9.084
102	13.917	6.033	4.917
106	13.917	0.167	4.917
109	13.917	0.167	9.084
113	18.084	8.217	9.084
114	18.084	8.217	4.917
115	18.084	7.217	9.084
116	18.084	7.217	4.917
117	13.917	3.734	9.084
118	13.917	3.734	4.917
121	13.667	11.533	4.667
122	13.667	11.533	9.334
123	18.334	11.533	4.667
124	18.334	11.533	9.334
125	13.667	16.533	4.667
126	13.667	16.533	9.334
127	18.334	16.533	4.667
128	18.334	16.533	9.334
129	13.667	21.533	4.667
130	13.667	21.533	9.334



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By MLS	Date 31-Aug-15	Chd
Client Verizon Wireless	File False Chimney.std	Date/Time 04-Sep-2015 10:14

Job Title **Meriden 5**

Nodes Cont...

Node	X (ft)	Y (ft)	Z (ft)
131	18.334	21.533	4.667
132	18.334	21.533	9.334
133	13.667	26.533	4.667
134	13.667	26.533	9.334
135	18.334	26.533	4.667
136	18.334	26.533	9.334
137	17.063	16.533	9.334
138	17.063	16.533	4.667
139	17.063	21.533	9.334
140	17.063	21.533	4.667
141	17.063	26.533	4.667
142	17.063	26.533	9.334
147	13.667	11.367	9.334
148	13.667	11.367	4.667
149	18.334	11.367	4.667
150	18.334	11.367	9.334
151	18.334	11.700	4.667
152	18.334	16.700	4.667
153	18.334	21.700	4.667
154	18.334	11.700	9.334
155	18.334	16.700	9.334
156	18.334	21.700	9.334
157	13.667	11.700	9.334
158	13.667	16.700	9.334
159	13.667	21.700	9.334
160	13.667	11.700	4.667
161	13.667	16.700	4.667
162	13.667	21.700	4.667
163	18.334	16.367	4.667
164	18.334	21.367	4.667
165	18.334	26.367	4.667
166	18.334	16.367	9.334
167	18.334	21.367	9.334
168	18.334	26.367	9.334
169	13.667	16.367	9.334
170	13.667	21.367	9.334
171	13.667	26.367	9.334
172	13.667	16.367	4.667
173	13.667	21.367	4.667
174	13.667	26.367	4.667
175	13.500	6.533	4.667
176	13.667	6.533	4.500
177	13.500	6.533	9.334
178	13.667	6.533	9.501
179	18.501	8.467	4.667



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Job No 50067831	Sheet No 5	Rev 0
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Client Verizon Wireless	File False Chimney.std	Date/Time 04-Sep-2015 10:14

Job Title **Meriden 5**

Nodes Cont...

Node	X (ft)	Y (ft)	Z (ft)
180	18.334	8.467	4.500
181	18.501	8.467	9.334
182	18.334	8.467	9.501
183	13.500	11.533	4.667
184	13.667	11.533	4.500
185	13.500	11.533	9.334
186	13.667	11.533	9.501
187	18.501	11.533	4.667
188	18.334	11.533	4.500
189	18.501	11.533	9.334
190	18.334	11.533	9.501
191	13.500	16.533	4.667
192	13.667	16.533	4.500
193	13.500	16.533	9.334
194	13.667	16.533	9.501
195	18.501	16.533	4.667
196	18.334	16.533	4.500
197	18.501	16.533	9.334
198	18.334	16.533	9.501
199	13.500	21.533	4.667
200	13.667	21.533	4.500
201	13.500	21.533	9.334
202	13.667	21.533	9.501
203	18.501	21.533	4.667
204	18.334	21.533	4.500
205	18.501	21.533	9.334
206	18.334	21.533	9.501
207	13.500	26.533	4.667
208	13.667	26.533	4.500
209	13.500	26.533	9.334
210	13.667	26.533	9.501
211	18.501	26.533	4.667
212	18.334	26.533	4.500
213	18.501	26.533	9.334
214	18.334	26.533	9.501
218	13.917	6.533	4.917
219	13.917	6.533	9.084
220	18.084	8.467	4.917
221	18.084	8.467	9.084
222	18.084	0.167	4.917
223	18.084	0.167	9.084
232	13.917	3.475	7.001
233	18.084	4.067	7.001
234	17.063	11.533	4.667
235	17.063	11.533	9.334



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Job No 50067831	Sheet No 6	Rev 0
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By MLS	Date 31-Aug-15	Chd
Client Verizon Wireless	File False Chimney.std	Date/Time 04-Sep-2015 10:14

Job Title **Meriden 5**

Nodes Cont...

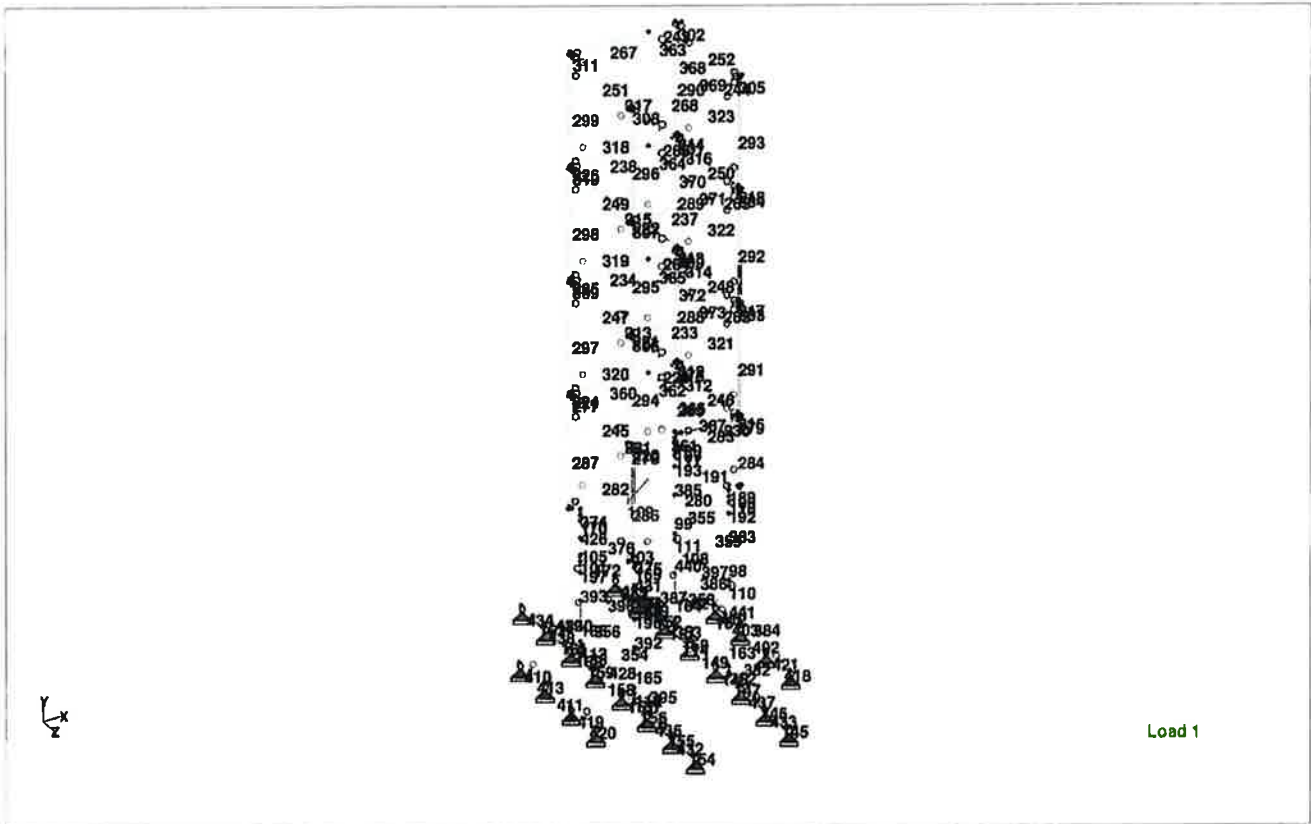
Node	X (ft)	Y (ft)	Z (ft)
236	17.063	11.533	6.223
237	17.063	11.533	7.778
238	17.063	26.533	6.223
239	17.063	26.533	7.778
240	17.063	21.533	6.223
241	17.063	21.533	7.778
242	17.063	16.533	6.223
243	17.063	16.533	7.778
244	13.917	6.283	4.917
245	13.917	6.283	9.084
249	18.084	5.967	9.084
250	18.084	5.967	4.917
253	13.917	2.497	9.084
254	13.917	2.497	4.917
256	20.333	0.000	4.083
257	20.333	0.000	6.000
258	20.333	0.000	8.000
260	11.667	0.000	4.083
261	11.667	0.000	6.000
262	11.667	0.000	8.000
263	20.333	0.000	4.917
264	11.667	0.000	4.917
265	20.333	0.000	9.917
266	11.667	0.000	9.917
267	11.667	0.000	9.084
268	20.333	0.000	9.084
269	13.917	5.259	4.917
270	13.917	5.259	9.084
271	13.917	0.000	12.750
272	18.084	0.000	12.750
273	13.917	0.000	1.250
274	18.084	0.000	1.250
275	13.917	0.000	11.333
276	18.084	0.000	11.333
277	13.917	0.000	2.667
278	18.084	0.000	2.667
279	18.084	2.484	4.917
280	18.084	2.497	9.084



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Job Title Meriden 5



Beam Layout

Beams

Beam	Node A	Node B	Length (ft)	Property	β (degrees)
98	65	249	1.733	6	0
99	66	250	1.733	6	0
100	67	69	0.250	6	0
101	68	70	0.250	6	0
102	67	65	4.167	5	0
103	68	66	4.167	5	0
104	69	270	0.774	6	0
105	70	269	0.774	6	0
106	71	113	0.250	6	0
107	72	114	0.250	6	0
108	69	71	5.431	5	0
109	70	72	5.431	5	0
110	73	65	0.251	6	0
111	74	66	0.251	6	0
112	75	99	0.250	6	0
113	76	100	0.250	6	0
114	75	73	5.485	5	0



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By MLS	Date 31-Aug-15	Chd
Client Verizon Wireless	File False Chimney.std	Date/Time 04-Sep-2015 10:14

Job Title **Meriden 5**

Beams Cont...

Beam	Node A	Node B	Length (ft)	Property	β (degrees)
115	76	74	5.485	5	0
116	77	71	0.250	6	0
117	78	72	0.250	6	0
145	88	272	0.917	9	90
146	87	276	0.500	9	90
147	86	60	0.833	9	90
148	60	85	1.084	9	90
149	85	84	2.000	9	90
150	84	59	1.083	9	90
151	59	83	0.834	9	90
152	83	278	1.417	9	90
153	82	274	0.917	9	90
154	89	271	0.917	9	90
155	96	275	0.500	9	90
156	95	58	0.833	9	90
157	58	94	1.084	9	90
158	94	93	2.000	9	90
159	93	57	1.083	9	90
160	57	92	0.834	9	90
161	92	277	1.417	9	90
162	91	273	0.917	9	90
163	97	280	2.080	6	0
164	98	279	2.067	6	0
165	99	253	1.830	6	0
166	100	254	1.830	6	0
167	97	233	4.203	5	0
169	101	245	0.250	6	0
170	102	244	0.250	6	0
172	102	232	3.299	5	0
187	109	75	0.250	6	0
188	106	76	0.250	6	0
189	113	221	0.250	6	0
190	114	220	0.250	6	0
191	114	113	4.167	5	0
192	115	77	0.500	6	0
193	116	78	0.500	6	0
196	117	67	0.500	6	0
197	118	68	0.500	6	0
212	123	151	0.167	7	0
213	127	152	0.167	7	0
214	131	153	0.167	7	0
216	124	154	0.167	7	0
217	128	155	0.167	7	0
218	132	156	0.167	7	0
220	122	157	0.167	7	0



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Job No 50067831	Sheet No 9	Rev 0
Part		
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By MLS	Date 31-Aug-15	Chd
Client Verizon Wireless	File False Chimney.std	Date/Time 04-Sep-2015 10:14

Beams Cont...

Beam	Node A	Node B	Length (ft)	Property	β (degrees)
221	126	158	0.167	7	0
222	130	159	0.167	7	0
224	121	160	0.167	7	0
225	125	161	0.167	7	0
226	129	162	0.167	7	0
229	123	234	1.271	3	0
230	124	235	1.271	3	0
233	126	137	3.396	3	0
234	125	138	3.396	3	0
237	130	139	3.396	3	0
238	129	140	3.396	3	0
243	135	141	1.271	3	0
244	136	142	1.271	3	0
245	122	121	4.667	3	0
246	124	123	4.667	3	0
247	126	125	4.667	3	0
248	128	127	4.667	3	0
249	130	129	4.667	3	0
250	132	131	4.667	3	0
251	134	133	4.667	3	0
252	136	135	4.667	3	0
263	137	128	1.271	3	0
264	138	127	1.271	3	0
265	139	132	1.271	3	0
266	140	131	1.271	3	0
267	141	133	3.396	3	0
268	142	134	3.396	3	0
276	147	122	0.166	7	0
277	148	121	0.166	7	0
278	149	123	0.166	7	0
279	150	124	0.166	7	0
280	62	150	6.719	2	0
281	61	149	6.719	2	0
282	62	148	6.719	2	0
283	63	150	5.495	2	0
284	64	150	2.900	7	0
285	63	149	2.900	7	0
286	62	147	4.834	7	0
287	61	148	4.834	7	0
288	151	163	4.667	7	0
289	152	164	4.667	7	0
290	153	165	4.667	7	0
291	154	166	4.667	7	0
292	155	167	4.667	7	0
293	156	168	4.667	7	0



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Job No
50067831Sheet No
10Rev
0Job Title **Meriden 5**

Part

Ref

By **MLS** Date **31-Aug-15** ChdClient **Verizon Wireless**File **False Chimney.std**Date/Time **04-Sep-2015 10:14****Beams Cont...**

Beam	Node A	Node B	Length (ft)	Property	β (degrees)
294	157	169	4.667	7	0
295	158	170	4.667	7	0
296	159	171	4.667	7	0
297	160	172	4.667	7	0
298	161	173	4.667	7	0
299	162	174	4.667	7	0
300	163	127	0.166	7	0
301	164	131	0.166	7	0
302	165	135	0.166	7	0
303	166	128	0.166	7	0
304	167	132	0.166	7	0
305	168	136	0.166	7	0
306	169	126	0.166	7	0
307	170	130	0.166	7	0
308	171	134	0.166	7	0
309	172	125	0.166	7	0
310	173	129	0.166	7	0
311	174	133	0.166	7	0
312	154	169	6.600	2	0
313	160	163	6.600	2	0
314	158	167	6.600	2	0
315	152	173	6.600	2	0
316	156	171	6.600	2	0
317	162	165	6.600	2	0
318	171	162	6.600	2	0
319	173	158	6.600	2	0
320	169	160	6.600	2	0
321	154	163	6.600	2	0
322	152	167	6.600	2	0
323	156	165	6.600	2	0
352	223	97	0.250	6	0
353	222	98	0.250	6	0
354	232	99	3.497	5	0
355	233	78	4.203	5	0
356	100	232	3.497	5	0
357	232	101	3.299	5	0
358	98	233	4.203	5	0
359	233	77	4.203	5	0
360	234	121	3.396	3	0
361	235	122	3.396	3	0
362	234	236	1.556	4	0
363	141	238	1.556	4	0
364	140	240	1.556	4	0
365	138	242	1.556	4	0
366	236	237	1.556	4	0



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Job Title **Meriden 5****Beams Cont...**

Beam	Node A	Node B	Length (ft)	Property	β (degrees)
367	237	235	1.556	4	0
368	238	239	1.556	4	0
369	239	142	1.556	4	0
370	240	241	1.556	4	0
371	241	139	1.556	4	0
372	242	243	1.556	4	0
373	243	137	1.556	4	0
374	244	218	0.250	6	0
375	245	219	0.250	6	0
376	244	245	4.167	5	0
382	280	276	3.361	8	0
383	249	115	1.250	6	0
384	65	268	4.794	8	0
385	250	116	1.250	6	0
386	66	263	4.794	8	0
387	279	278	3.352	8	0
392	253	117	1.237	6	0
393	254	118	1.237	6	0
395	253	275	3.361	8	0
396	118	117	4.167	5	0
397	74	73	4.167	5	0
402	258	257	2.000	9	90
403	257	263	1.083	9	90
410	260	264	0.834	9	90
411	261	262	2.000	9	90
412	263	256	0.834	9	90
413	264	261	1.083	9	90
418	265	268	0.833	9	90
419	262	267	1.084	9	90
420	267	266	0.833	9	90
421	268	258	1.084	9	90
426	269	102	0.774	6	0
428	67	267	4.795	8	0
429	68	264	4.795	8	0
430	254	277	3.361	8	0
431	270	101	0.774	6	0
432	271	96	0.917	9	90
433	272	87	0.917	9	90
434	273	90	0.917	9	90
435	274	81	0.917	9	90
436	275	95	1.417	9	90
437	276	86	1.417	9	90
438	277	91	0.500	9	90
439	278	82	0.500	9	90
440	279	74	1.499	6	0



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Client **Verizon Wireless**

Beams Cont...

Beam	Node A	Node B	Length (ft)	Property	β (degrees)
441	280	73	1.486	6	0



3D Render



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Plates

Plate	Node A	Node B	Node C	Node D	Property
324	178	182	190	186	1
325	175	177	185	183	1
326	176	184	188	180	1
327	181	179	187	189	1
328	189	187	195	197	1
329	188	184	192	196	1
330	197	195	203	205	1
331	196	192	200	204	1
332	205	203	211	213	1
333	204	200	208	212	1
334	190	186	194	198	1
335	185	193	191	183	1
336	198	206	202	194	1
337	193	201	199	191	1
338	202	206	214	210	1
339	201	209	207	199	1

Section Properties

Prop	Section	Area (in ²)	I _{yy} (in ⁴)	I _{zz} (in ⁴)	J (in ⁴)	Material
2	L30304	1.438	1.984	0.505	0.031	FIBERGLASS
3	L30306	2.109	2.794	0.726	0.102	FIBERGLASS
4	L30304	1.438	1.984	0.505	0.031	STEEL
5	SOPN_N2_2X4	5.250	0.984	5.359	0.000	SOPN_N2_2X
6	SOPN_SS_6X6_WET	30.250	76.255	76.255	0.000	SOPN_SS_6X
7	6X0.25	2.937	16.903	4.243	0.062	FIBERGLASS
8	SOPN_N2_4X4	12.250	12.505	12.505	0.000	SOPN_N2_4X
9	SOPN_SS_4X10	33.250	33.943	250.068	0.000	SOPN_SS_4X

Plate Thickness

Prop	Node A (in)	Node B (in)	Node C (in)	Node D (in)	Material
1	2.004	2.004	2.004	2.004	FIBERGLASS



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Materials

Mat	Name	E (kip/in ²)	v	Density (kip/in ³)	α (/°F)
1	SOPN_N2_2X4	1.6E+3	0.150	0.000	5.5E-6
2	SOPN_SS_6X6_WET	1.5E+3	0.150	0.000	5.5E-6
3	SOPN_N2_4X4	1.6E+3	0.150	0.000	5.5E-6
4	SOPN_N2_2X10	1.6E+3	0.150	0.000	5.5E-6
5	STEEL	29E+3	0.300	0.000	6E-6
6	SOPN_SS_4X10	1.8E+3	0.150	0.000	5.5E-6
7	STAINLESSSTEEL	28E+3	0.300	0.000	10E-6
8	SOPN_N2_6X6_WET	1.2E+3	0.150	0.000	5.5E-6
9	ALUMINUM	10E+3	0.330	0.000	13E-6
10	FIBERGLASS	2.8E+3	0.350	0.000	4.400
11	CONCRETE	3.15E+3	0.170	0.000	5E-6

Supports

Node	X (kip/in)	Y (kip/in)	Z (kip/in)	rX (kip ft/deg)	rY (kip ft/deg)	rZ (kip ft/deg)
81	Fixed	Fixed	Fixed	-	-	-
82	Fixed	Fixed	Fixed	-	-	-
83	Fixed	Fixed	Fixed	-	-	-
84	Fixed	Fixed	Fixed	-	-	-
85	Fixed	Fixed	Fixed	-	-	-
86	Fixed	Fixed	Fixed	-	-	-
87	Fixed	Fixed	Fixed	-	-	-
88	Fixed	Fixed	Fixed	-	-	-
89	Fixed	Fixed	Fixed	-	-	-
90	Fixed	Fixed	Fixed	-	-	-
91	Fixed	Fixed	Fixed	-	-	-
92	Fixed	Fixed	Fixed	-	-	-
93	Fixed	Fixed	Fixed	-	-	-
94	Fixed	Fixed	Fixed	-	-	-
95	Fixed	Fixed	Fixed	-	-	-
96	Fixed	Fixed	Fixed	-	-	-
256	Fixed	Fixed	Fixed	-	-	-
257	Fixed	Fixed	Fixed	-	-	-
258	Fixed	Fixed	Fixed	-	-	-
260	Fixed	Fixed	Fixed	-	-	-
261	Fixed	Fixed	Fixed	-	-	-
262	Fixed	Fixed	Fixed	-	-	-
265	Fixed	Fixed	Fixed	-	-	-
266	Fixed	Fixed	Fixed	-	-	-



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Releases

Beam ends not shown in this table are fixed in all directions.

Beam	Node	x	y	z	rx	ry	rz
229	123	Fixed	Fixed	Fixed	Fixed	Pin	Pin
230	124	Fixed	Fixed	Fixed	Fixed	Pin	Pin
233	126	Fixed	Fixed	Fixed	Fixed	Pin	Pin
234	125	Fixed	Fixed	Fixed	Fixed	Pin	Pin
237	130	Fixed	Fixed	Fixed	Fixed	Pin	Pin
238	129	Fixed	Fixed	Fixed	Fixed	Pin	Pin
243	135	Fixed	Fixed	Fixed	Fixed	Pin	Pin
244	136	Fixed	Fixed	Fixed	Fixed	Pin	Pin
245	122	Fixed	Fixed	Fixed	Fixed	Pin	Pin
245	121	Fixed	Fixed	Fixed	Fixed	Pin	Pin
246	124	Fixed	Fixed	Fixed	Fixed	Pin	Pin
246	123	Fixed	Fixed	Fixed	Fixed	Pin	Pin
247	126	Fixed	Fixed	Fixed	Fixed	Pin	Pin
247	125	Fixed	Fixed	Fixed	Fixed	Pin	Pin
248	128	Fixed	Fixed	Fixed	Fixed	Pin	Pin
248	127	Fixed	Fixed	Fixed	Fixed	Pin	Pin
249	130	Fixed	Fixed	Fixed	Fixed	Pin	Pin
249	129	Fixed	Fixed	Fixed	Fixed	Pin	Pin
250	132	Fixed	Fixed	Fixed	Fixed	Pin	Pin
250	131	Fixed	Fixed	Fixed	Fixed	Pin	Pin
251	134	Fixed	Fixed	Fixed	Fixed	Pin	Pin
251	133	Fixed	Fixed	Fixed	Fixed	Pin	Pin
252	136	Fixed	Fixed	Fixed	Fixed	Pin	Pin
252	135	Fixed	Fixed	Fixed	Fixed	Pin	Pin
263	128	Fixed	Fixed	Fixed	Fixed	Pin	Pin
264	127	Fixed	Fixed	Fixed	Fixed	Pin	Pin
265	132	Fixed	Fixed	Fixed	Fixed	Pin	Pin
266	131	Fixed	Fixed	Fixed	Fixed	Pin	Pin
267	133	Fixed	Fixed	Fixed	Fixed	Pin	Pin
268	134	Fixed	Fixed	Fixed	Fixed	Pin	Pin
360	121	Fixed	Fixed	Fixed	Fixed	Pin	Pin
361	122	Fixed	Fixed	Fixed	Fixed	Pin	Pin
382	280	Fixed	Fixed	Fixed	Fixed	Pin	Pin
382	276	Fixed	Fixed	Fixed	Fixed	Pin	Pin
384	65	Fixed	Fixed	Fixed	Fixed	Pin	Pin
384	268	Fixed	Fixed	Fixed	Fixed	Pin	Pin
386	66	Fixed	Fixed	Fixed	Fixed	Pin	Pin
386	263	Fixed	Fixed	Fixed	Fixed	Pin	Pin
387	279	Fixed	Fixed	Fixed	Fixed	Pin	Pin
387	278	Fixed	Fixed	Fixed	Fixed	Pin	Pin
395	253	Fixed	Fixed	Fixed	Fixed	Pin	Pin
395	275	Fixed	Fixed	Fixed	Fixed	Pin	Pin
428	67	Fixed	Fixed	Fixed	Fixed	Pin	Pin
428	267	Fixed	Fixed	Fixed	Fixed	Pin	Pin



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Releases Cont...

Beam	Node	x	y	z	rx	ry	rz
429	68	Fixed	Fixed	Fixed	Fixed	Pin	Pin
429	264	Fixed	Fixed	Fixed	Fixed	Pin	Pin
430	254	Fixed	Fixed	Fixed	Fixed	Pin	Pin
430	277	Fixed	Fixed	Fixed	Fixed	Pin	Pin

Basic Load Cases

Number	Name
1	DEAD
2	WIND(X)
3	WIND(Z)

Combination Load Cases

Comb.	Combination L/C Name	Primary	Primary L/C Name	Factor
4	D+W(X)	1	DEAD	1.00
		2	WIND(X)	1.00
5	D+W(Z)	1	DEAD	1.00
		3	WIND(Z)	1.00



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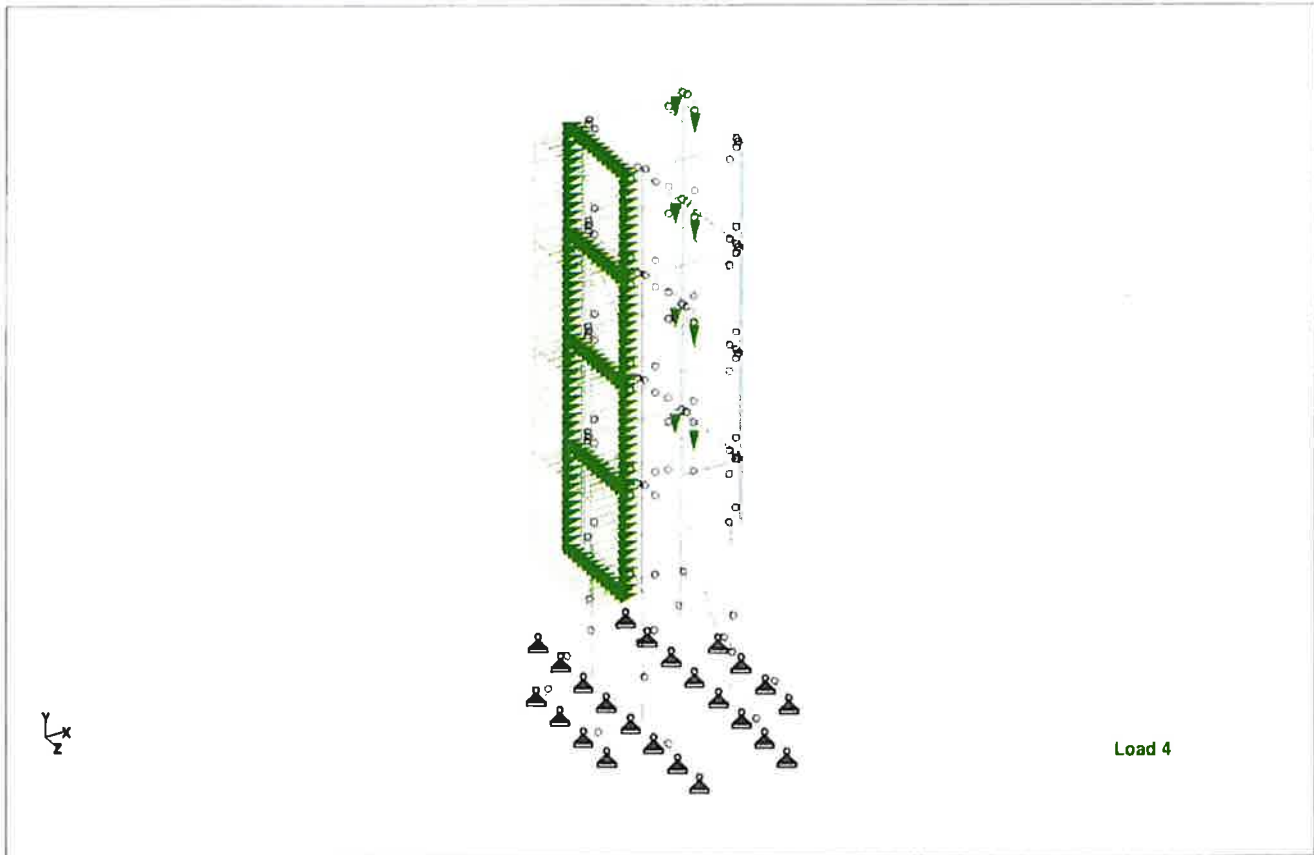
Part

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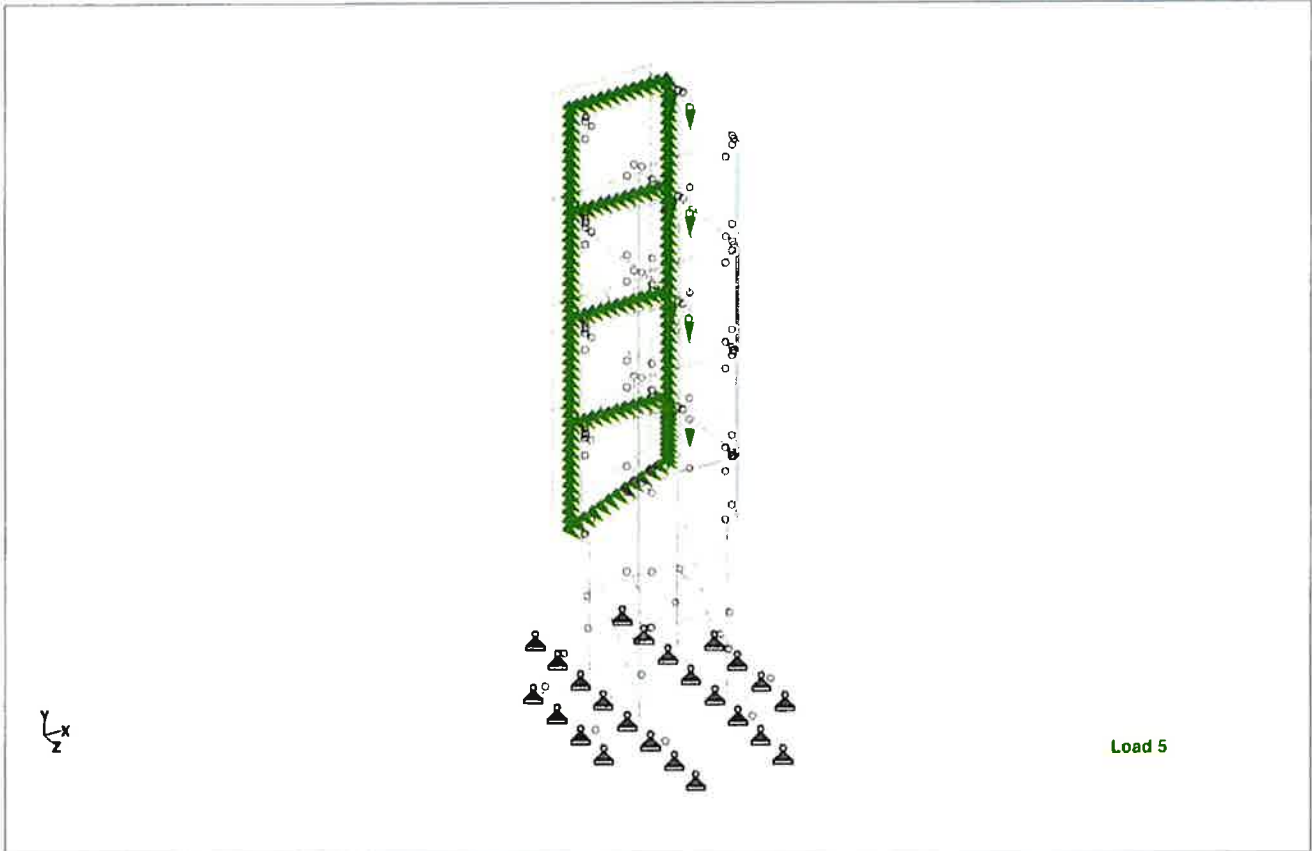
D+W(X)



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D+W(Z)

Node Displacement Summary

	Node	L/C	X (in)	Y (in)	Z (in)	Resultant (in)	rX (rad)	rY (rad)	rZ (rad)
Max X	136	4:D+W(X)	0.366	-0.055	-0.001	0.370	0.000	-0.001	-0.002
Min X	219	5:D+W(Z)	-0.028	-0.021	0.074	0.081	0.004	0.004	0.003
Max Y	208	3:WIND(Z)	0.007	0.048	0.446	0.449	0.002	0.001	0.000
Min Y	142	5:D+W(Z)	-0.004	-0.106	0.460	0.472	0.001	-0.000	0.002
Max Z	135	3:WIND(Z)	0.010	0.045	0.467	0.469	0.002	0.002	-0.000
Min Z	280	5:D+W(Z)	0.002	-0.014	-0.014	0.020	-0.000	-0.001	0.000
Max rX	64	5:D+W(Z)	0.005	-0.043	0.133	0.140	0.004	-0.004	-0.003
Min rX	63	4:D+W(X)	0.103	-0.039	-0.005	0.111	-0.002	-0.002	-0.005
Max rY	62	5:D+W(Z)	-0.017	-0.041	0.085	0.096	0.004	0.004	0.003
Min rY	64	5:D+W(Z)	0.005	-0.043	0.133	0.140	0.004	-0.004	-0.003
Max rZ	62	5:D+W(Z)	-0.017	-0.041	0.085	0.096	0.004	0.004	0.003
Min rZ	64	4:D+W(X)	0.104	-0.039	0.004	0.111	0.002	0.002	-0.005
Max Rst	142	5:D+W(Z)	-0.004	-0.106	0.460	0.472	0.001	-0.000	0.002



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Beam Combined Axial and Bending Stresses Summary

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
98	1:DEAD	1.733	113.422	0.000	1	-14.852	0.000	3
	2:WIND(X)	1.733	515.398	1.733	3	-213.182	1.733	1
	3:WIND(Z)	1.733	525.286	1.733	3	-191.069	1.733	1
	4:D+W(X)	1.733	626.448	1.733	3	-226.264	1.733	1
	5:D+W(Z)	1.733	636.337	1.733	3	-204.151	1.733	1
99	1:DEAD	1.733	117.464	0.000	1	-18.317	0.000	4
	2:WIND(X)	1.733	518.015	1.733	4	-215.742	1.733	2
	3:WIND(Z)	1.733	192.394	1.733	2	-527.712	1.733	4
	4:D+W(X)	1.733	629.093	1.733	4	-228.275	1.733	2
	5:D+W(Z)	1.733	191.949	0.000	2	-428.120	0.000	1
100	1:DEAD	0.250	69.072	0.000	1			
	2:WIND(X)	0.250	240.197	0.000	3	-551.733	0.000	1
	3:WIND(Z)	0.250	635.582	0.250	2	-294.979	0.250	4
	4:D+W(X)	0.250	276.423	0.000	3	-482.661	0.000	1
	5:D+W(Z)	0.250	698.904	0.250	2	-253.091	0.250	4
101	1:DEAD	0.250	74.768	0.000	1			
	2:WIND(X)	0.250	235.708	0.000	3	-547.219	0.000	1
	3:WIND(Z)	0.250	302.102	0.250	3	-642.296	0.250	1
	4:D+W(X)	0.250	266.073	0.000	3	-472.451	0.000	1
	5:D+W(Z)	0.250	345.605	0.000	2	-580.665	0.000	1
102	1:DEAD	4.167	69.305	0.000	1			
	2:WIND(X)	4.167	570.807	0.000	1	-124.763	0.000	4
	3:WIND(Z)	4.167	363.077	4.167	2			
	4:D+W(X)	4.167	631.440	0.000	1	-76.511	0.000	4
	5:D+W(Z)	4.167	422.697	4.167	2			
103	1:DEAD	4.167	74.427	0.000	1			
	2:WIND(X)	4.167	566.862	0.000	1	-125.401	0.000	3
	3:WIND(Z)	4.167				-363.295	0.000	1
	4:D+W(X)	4.167	626.696	0.000	1	-74.114	0.000	3
	5:D+W(Z)	4.167	37.029	4.167	3	-291.861	4.167	1
104	1:DEAD	0.774	177.525	0.774	2	-78.995	0.774	4
	2:WIND(X)	0.774	252.724	0.774	4	-436.963	0.774	2
	3:WIND(Z)	0.774	758.706	0.774	2	-424.053	0.774	4
	4:D+W(X)	0.774	173.729	0.774	4	-259.438	0.774	2
	5:D+W(Z)	0.774	936.230	0.774	2	-503.048	0.774	4
105	1:DEAD	0.774	179.431	0.774	1	-80.905	0.774	3
	2:WIND(X)	0.774	259.061	0.774	3	-443.854	0.774	1
	3:WIND(Z)	0.774	428.487	0.774	3	-762.742	0.774	1
	4:D+W(X)	0.774	178.157	0.774	3	-264.423	0.774	1
	5:D+W(Z)	0.774	355.723	0.000	2	-591.183	0.000	1
106	1:DEAD	0.250	341.237	0.250	3	-224.443	0.250	1
	2:WIND(X)	0.250	1.12E+3	0.000	3	-909.536	0.000	1
	3:WIND(Z)	0.250	671.479	0.000	3	-432.469	0.000	1
	4:D+W(X)	0.250	1.41E+3	0.000	3	-1.09E+3	0.000	1



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
107	5:D+W(Z)	0.250	968.008	0.000	3	-612.117	0.000	1
	1:DEAD	0.250	345.982	0.250	4	-228.369	0.250	2
	2:WIND(X)	0.250	1.12E+3	0.000	3	-910.043	0.000	1
	3:WIND(Z)	0.250	433.262	0.000	1	-672.478	0.000	3
	4:D+W(X)	0.250	1.42E+3	0.000	3	-1.09E+3	0.000	1
108	5:D+W(Z)	0.250	250.237	0.000	1	-371.753	0.000	3
	1:DEAD	5.431	115.298	5.431	3	-57.526	5.431	1
	2:WIND(X)	5.431	101.129	5.431	4	-1.22E+3	5.431	2
	3:WIND(Z)	5.431	422.122	5.431	3	-364.269	5.431	1
	4:D+W(X)	5.431	191.378	5.431	4	-1.26E+3	5.431	2
109	5:D+W(Z)	5.431	537.419	5.431	3	-421.795	5.431	1
	1:DEAD	5.431	119.777	5.431	4	-63.323	5.431	2
	2:WIND(X)	5.431	93.483	5.431	3	-1.21E+3	5.431	1
	3:WIND(Z)	5.431	349.676	5.431	2	-407.006	5.431	4
	4:D+W(X)	5.431	187.819	5.431	3	-1.25E+3	5.431	1
110	5:D+W(Z)	5.431	286.353	5.431	2	-287.230	5.431	4
	1:DEAD	0.251	110.826	0.000	1	-40.562	0.000	3
	2:WIND(X)	0.251	234.488	0.000	1	-47.747	0.000	2
	3:WIND(Z)	0.251	407.529	0.000	2	-185.073	0.000	1
	4:D+W(X)	0.251	344.452	0.000	1	-87.447	0.000	2
111	5:D+W(Z)	0.251	410.118	0.000	1	-117.399	0.000	4
	1:DEAD	0.251	114.472	0.000	1	-43.486	0.000	4
	2:WIND(X)	0.251	235.926	0.000	2	-49.544	0.000	1
	3:WIND(Z)	0.251	181.060	0.000	2	-404.323	0.000	1
	4:D+W(X)	0.251	344.986	0.000	2	-87.619	0.000	1
112	5:D+W(Z)	0.251	247.878	0.000	2	-400.155	0.000	1
	1:DEAD	0.250	50.839	0.250	4			
	2:WIND(X)	0.250	4.979	0.250	3	-153.612	0.250	1
	3:WIND(Z)	0.250	308.051	0.250	4	-39.262	0.250	2
	4:D+W(X)	0.250	30.663	0.250	3	-109.491	0.250	1
113	5:D+W(Z)	0.250	358.890	0.250	4	-20.297	0.250	2
	1:DEAD	0.250	50.499	0.250	3			
	2:WIND(X)	0.250	5.856	0.250	4	-155.243	0.250	2
	3:WIND(Z)	0.250	39.623	0.250	1	-308.042	0.250	3
	4:D+W(X)	0.250	32.615	0.250	4	-112.763	0.250	2
114	5:D+W(Z)	0.250	58.363	0.250	1	-257.543	0.250	3
	1:DEAD	5.485	24.107	0.000	3	-4.891	0.000	1
	2:WIND(X)	5.485	148.539	0.000	3	-89.158	0.000	1
	3:WIND(Z)	5.485	214.194	5.485	2	-96.288	5.485	4
	4:D+W(X)	5.485	172.647	0.000	3	-94.049	0.000	1
115	5:D+W(Z)	5.485	231.160	5.485	2	-95.276	5.485	4
	1:DEAD	5.485	24.883	0.000	3	-4.343	0.000	1
	2:WIND(X)	5.485	149.197	0.000	3	-87.907	0.000	1
	3:WIND(Z)	5.485	90.861	5.485	3	-211.072	5.485	1



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Client Verizon Wireless

Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	4:D+W(X)	5.485	174.079	0.000	3	-92.250	0.000	1
	5:D+W(Z)	5.485	90.765	5.485	3	-191.674	5.485	1
116	1:DEAD	0.250	284.344	0.250	3	-173.547	0.250	1
	2:WIND(X)	0.250	1.11E+3	0.250	3	-775.742	0.250	1
	3:WIND(Z)	0.250	717.368	0.000	2	-484.308	0.000	1
	4:D+W(X)	0.250	1.39E+3	0.250	3	-949.289	0.250	1
	5:D+W(Z)	0.250	970.092	0.000	2	-626.149	0.000	1
117	1:DEAD	0.250	288.337	0.250	4	-176.561	0.250	2
	2:WIND(X)	0.250	1.11E+3	0.250	4	-777.065	0.250	2
	3:WIND(Z)	0.250	486.792	0.000	2	-720.069	0.000	1
	4:D+W(X)	0.250	1.4E+3	0.250	4	-953.627	0.250	2
	5:D+W(Z)	0.250	342.755	0.000	2	-464.169	0.000	1
145	1:DEAD	0.917	0.971	0.764	4	-0.971	0.764	2
	2:WIND(X)	0.917	0.737	0.917	4	-0.737	0.917	2
	3:WIND(Z)	0.917	27.132	0.917	1	-27.132	0.917	2
	4:D+W(X)	0.917	1.658	0.917	4	-1.658	0.917	2
	5:D+W(Z)	0.917	28.003	0.917	1	-28.003	0.917	2
146	1:DEAD	0.500	39.642	0.500	1	-28.547	0.500	2
	2:WIND(X)	0.500	100.597	0.500	1	-72.380	0.500	2
	3:WIND(Z)	0.500	63.364	0.000	1	-45.169	0.000	2
	4:D+W(X)	0.500	139.985	0.500	1	-100.673	0.500	2
	5:D+W(Z)	0.500	88.284	0.500	1	-58.993	0.500	3
147	1:DEAD	0.833	193.678	0.833	1	-192.148	0.833	2
	2:WIND(X)	0.833	488.642	0.833	1	-486.353	0.833	2
	3:WIND(Z)	0.833	786.592	0.833	1	-771.858	0.833	2
	4:D+W(X)	0.833	682.320	0.833	1	-678.501	0.833	2
	5:D+W(Z)	0.833	979.012	0.833	1	-962.748	0.833	2
148	1:DEAD	1.084	204.645	0.000	1	-205.820	0.000	2
	2:WIND(X)	1.084	525.639	0.000	1	-527.398	0.000	2
	3:WIND(Z)	1.084	850.278	0.000	1	-861.596	0.000	2
	4:D+W(X)	1.084	727.900	0.000	1	-730.834	0.000	2
	5:D+W(Z)	1.084	1.05E+3	0.000	1	-1.07E+3	0.000	2
149	1:DEAD	2.000	60.612	2.000	2	-60.612	2.000	4
	2:WIND(X)	2.000	150.698	2.000	3	-150.698	2.000	1
	3:WIND(Z)	2.000	442.182	2.000	4	-442.182	2.000	2
	4:D+W(X)	2.000	210.577	2.000	3	-210.577	2.000	1
	5:D+W(Z)	2.000	502.518	0.000	2	-502.518	0.000	1
150	1:DEAD	1.083	205.255	1.083	1	-206.296	1.083	2
	2:WIND(X)	1.083	528.641	1.083	1	-530.542	1.083	2
	3:WIND(Z)	1.083	861.956	1.083	2	-850.822	1.083	1
	4:D+W(X)	1.083	730.776	1.083	1	-733.719	1.083	2
	5:D+W(Z)	1.083	655.660	1.083	2	-645.568	1.083	1
151	1:DEAD	0.834	192.614	0.000	1	-191.261	0.000	2
	2:WIND(X)	0.834	491.601	0.000	1	-489.130	0.000	2



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	3:WIND(Z)	0.834	771.007	0.000	2	-785.471	0.000	1
	4:D+W(X)	0.834	684.215	0.000	1	-680.392	0.000	2
	5:D+W(Z)	0.834	580.775	0.000	2	-593.885	0.000	1
152	1:DEAD	1.417	117.068	0.000	2	-121.074	0.000	1
	2:WIND(X)	1.417	289.881	0.000	2	-299.742	0.000	1
	3:WIND(Z)	1.417	412.160	0.000	1	-405.756	0.000	2
	4:D+W(X)	1.417	405.921	0.000	2	-419.787	0.000	1
	5:D+W(Z)	1.417	291.086	0.000	1	-288.688	0.000	2
153	1:DEAD	0.917	0.603	0.000	2	-0.603	0.000	1
	2:WIND(X)	0.917	2.673	0.000	1	-2.673	0.000	2
	3:WIND(Z)	0.917	54.533	0.000	2	-54.533	0.000	1
	4:D+W(X)	0.917	2.388	0.382	4	-2.388	0.382	2
	5:D+W(Z)	0.917	55.136	0.000	2	-55.136	0.000	1
154	1:DEAD	0.917	0.313	0.917	2	-0.313	0.917	4
	2:WIND(X)	0.917	3.011	0.917	1	-3.011	0.917	3
	3:WIND(Z)	0.917	20.795	0.917	1	-20.795	0.917	2
	4:D+W(X)	0.917	2.888	0.917	1	-2.888	0.917	3
	5:D+W(Z)	0.917	20.671	0.917	1	-20.671	0.917	2
155	1:DEAD	0.500	48.418	0.500	1	-35.090	0.500	2
	2:WIND(X)	0.500	72.722	0.500	2	-99.776	0.500	1
	3:WIND(Z)	0.500	79.159	0.500	4	-53.679	0.500	2
	4:D+W(X)	0.500	38.151	0.500	3	-51.876	0.500	1
	5:D+W(Z)	0.500	127.577	0.500	1	-88.768	0.500	2
156	1:DEAD	0.833	216.461	0.833	1	-215.485	0.833	2
	2:WIND(X)	0.833	435.558	0.833	2	-437.802	0.833	1
	3:WIND(Z)	0.833	804.759	0.833	1	-795.165	0.833	2
	4:D+W(X)	0.833	222.641	0.833	2	-223.908	0.833	4
	5:D+W(Z)	0.833	1.02E+3	0.833	1	-1.01E+3	0.833	2
157	1:DEAD	1.084	223.956	0.000	1	-224.705	0.000	2
	2:WIND(X)	1.084	457.697	0.000	2	-455.974	0.000	1
	3:WIND(Z)	1.084	873.549	0.000	1	-880.918	0.000	2
	4:D+W(X)	1.084	240.927	0.000	2	-239.953	0.000	1
	5:D+W(Z)	1.084	1.1E+3	0.000	1	-1.11E+3	0.000	2
158	1:DEAD	2.000	66.552	0.000	2	-66.552	0.000	1
	2:WIND(X)	2.000	133.892	2.000	4	-133.892	2.000	2
	3:WIND(Z)	2.000	453.125	2.000	1	-453.125	2.000	3
	4:D+W(X)	2.000	70.718	1.333	4	-70.718	1.333	2
	5:D+W(Z)	2.000	519.516	0.000	2	-519.516	0.000	1
159	1:DEAD	1.083	223.163	1.083	1	-223.814	1.083	2
	2:WIND(X)	1.083	459.786	1.083	2	-457.959	1.083	4
	3:WIND(Z)	1.083	881.567	1.083	2	-874.143	1.083	1
	4:D+W(X)	1.083	244.421	1.083	2	-243.245	1.083	4
	5:D+W(Z)	1.083	657.753	1.083	2	-650.980	1.083	1
160	1:DEAD	0.834	214.533	0.000	1	-213.688	0.000	2



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	2:WIND(X)	0.834	437.726	0.000	2	-440.098	0.000	1
	3:WIND(Z)	0.834	795.735	0.000	2	-805.379	0.000	1
	4:D+W(X)	0.834	226.265	0.000	2	-227.792	0.000	1
	5:D+W(Z)	0.834	584.275	0.000	2	-593.073	0.000	1
161	1:DEAD	1.417	130.591	0.000	2	-135.346	0.000	1
	2:WIND(X)	1.417	273.769	0.000	1	-264.294	0.000	2
	3:WIND(Z)	1.417	437.814	0.000	1	-428.810	0.000	2
	4:D+W(X)	1.417	141.012	0.000	1	-136.292	0.000	2
	5:D+W(Z)	1.417	302.467	0.000	1	-298.219	0.000	2
162	1:DEAD	0.917	2.981	0.000	2	-2.981	0.000	1
	2:WIND(X)	0.917	5.393	0.000	1	-5.393	0.000	2
	3:WIND(Z)	0.917	41.468	0.000	2	-41.468	0.000	1
	4:D+W(X)	0.917	2.900	0.229	1	-2.900	0.229	3
	5:D+W(Z)	0.917	44.069	0.000	2	-44.069	0.000	1
163	1:DEAD	2.080	91.824	2.080	2	-41.503	2.080	4
	2:WIND(X)	2.080	206.302	2.080	2	-73.214	2.080	1
	3:WIND(Z)	2.080	330.451	2.080	2	-150.583	2.080	4
	4:D+W(X)	2.080	292.958	2.080	2	-109.548	2.080	1
	5:D+W(Z)	2.080	422.275	2.080	2	-192.086	2.080	4
164	1:DEAD	2.067	94.721	2.067	1	-44.125	2.067	3
	2:WIND(X)	2.067	206.045	2.067	1	-72.841	2.067	2
	3:WIND(Z)	2.067	146.759	2.067	3	-327.438	2.067	1
	4:D+W(X)	2.067	293.723	2.067	1	-109.924	2.067	2
	5:D+W(Z)	2.067	102.634	2.067	3	-232.716	2.067	1
165	1:DEAD	1.830	88.954	1.830	2	-30.380	1.830	1
	2:WIND(X)	1.830	239.272	1.830	4	-366.585	1.830	2
	3:WIND(Z)	1.830	432.197	1.830	2	-234.301	1.830	4
	4:D+W(X)	1.830	211.861	1.830	4	-280.601	1.830	2
	5:D+W(Z)	1.830	518.181	1.830	2	-261.712	1.830	4
166	1:DEAD	1.830	88.007	1.830	1	-29.617	1.830	2
	2:WIND(X)	1.830	238.141	1.830	3	-365.817	1.830	1
	3:WIND(Z)	1.830	238.258	1.830	3	-435.592	1.830	1
	4:D+W(X)	1.830	209.305	1.830	3	-278.592	1.830	1
	5:D+W(Z)	1.830	209.422	1.830	3	-348.366	1.830	1
167	1:DEAD	4.203	73.942	0.000	1			
	2:WIND(X)	4.203	195.138	0.000	1			
	3:WIND(Z)	4.203	606.113	0.000	1			
	4:D+W(X)	4.203	269.080	0.000	1			
	5:D+W(Z)	4.203	680.055	0.000	1			
169	1:DEAD	0.250	366.304	0.250	2	-258.081	0.250	4
	2:WIND(X)	0.250	503.176	0.250	4	-709.162	0.250	2
	3:WIND(Z)	0.250	907.000	0.000	1	-646.558	0.000	4
	4:D+W(X)	0.250	245.095	0.250	4	-342.858	0.250	2
	5:D+W(Z)	0.250	1.22E+3	0.000	1	-851.153	0.000	4



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
170	1:DEAD	0.250	369.552	0.250	1	-261.173	0.250	3
	2:WIND(X)	0.250	513.466	0.250	3	-719.541	0.250	1
	3:WIND(Z)	0.250	648.011	0.000	3	-908.247	0.000	1
	4:D+W(X)	0.250	252.293	0.250	3	-349.989	0.250	1
	5:D+W(Z)	0.250	441.111	0.000	3	-592.881	0.000	1
172	1:DEAD	3.299	108.941	0.000	3	-30.856	0.000	1
	2:WIND(X)	3.299	134.203	0.000	1	-297.598	0.000	2
	3:WIND(Z)	3.299	1.02E+3	0.000	1	-491.256	0.000	3
	4:D+W(X)	3.299	103.348	0.000	1	-188.656	0.000	2
	5:D+W(Z)	3.299	1.02E+3	0.000	1	-408.757	0.000	4
187	1:DEAD	0.250	50.325	0.250	4			
	2:WIND(X)	0.250				-138.041	0.250	1
	3:WIND(Z)	0.250	300.576	0.250	4	-18.394	0.250	2
	4:D+W(X)	0.250	28.529	0.250	3	-97.878	0.250	1
	5:D+W(Z)	0.250	350.901	0.250	4			
188	1:DEAD	0.250	50.763	0.250	3			
	2:WIND(X)	0.250				-139.174	0.250	2
	3:WIND(Z)	0.250	18.611	0.250	1	-300.673	0.250	3
	4:D+W(X)	0.250	30.098	0.250	4	-100.402	0.250	2
	5:D+W(Z)	0.250	39.635	0.250	1	-249.910	0.250	3
189	1:DEAD	0.250	389.404	0.250	3	-272.881	0.250	1
	2:WIND(X)	0.250	986.490	0.000	2	-780.228	0.000	1
	3:WIND(Z)	0.250	747.622	0.000	3	-516.344	0.000	1
	4:D+W(X)	0.250	1.33E+3	0.000	2	-1.01E+3	0.000	1
	5:D+W(Z)	0.250	1.1E+3	0.250	3	-750.142	0.250	1
190	1:DEAD	0.250	393.793	0.250	4	-276.333	0.250	2
	2:WIND(X)	0.250	988.808	0.000	1	-783.008	0.000	2
	3:WIND(Z)	0.250	517.096	0.000	1	-748.579	0.000	3
	4:D+W(X)	0.250	1.34E+3	0.000	1	-1.02E+3	0.000	2
	5:D+W(Z)	0.250	286.063	0.250	1	-400.087	0.250	3
191	1:DEAD	4.167	51.400	4.167	3	-58.928	4.167	1
	2:WIND(X)	4.167				-634.513	0.000	1
	3:WIND(Z)	4.167	1.62E+3	0.000	1	-1.57E+3	0.000	3
	4:D+W(X)	4.167				-671.201	0.000	1
	5:D+W(Z)	4.167	1.67E+3	4.167	3	-1.63E+3	4.167	1
192	1:DEAD	0.500	238.188	0.500	3	-140.827	0.500	1
	2:WIND(X)	0.500	973.958	0.500	3	-671.742	0.500	1
	3:WIND(Z)	0.500	716.092	0.500	3	-381.874	0.500	1
	4:D+W(X)	0.500	1.21E+3	0.500	3	-812.569	0.500	1
	5:D+W(Z)	0.500	954.280	0.500	3	-522.702	0.500	1
193	1:DEAD	0.500	241.742	0.500	4	-143.804	0.500	2
	2:WIND(X)	0.500	974.781	0.500	4	-672.509	0.500	2
	3:WIND(Z)	0.500	383.253	0.500	2	-718.570	0.500	4
	4:D+W(X)	0.500	1.22E+3	0.500	4	-816.313	0.500	2



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
196	5:D+W(Z)	0.500	239.449	0.500	2	-476.828	0.500	4
	1:DEAD	0.500	92.248	0.000	1	-12.461	0.000	2
	2:WIND(X)	0.500	319.801	0.000	3	-491.774	0.000	1
	3:WIND(Z)	0.500	537.242	0.500	2	-298.645	0.500	4
	4:D+W(X)	0.500	308.500	0.000	3	-400.685	0.000	1
197	5:D+W(Z)	0.500	560.726	0.500	2	-242.516	0.500	4
	1:DEAD	0.500	95.228	0.000	2	-15.398	0.000	1
	2:WIND(X)	0.500	316.669	0.000	3	-488.650	0.000	1
	3:WIND(Z)	0.500	305.882	0.500	3	-543.949	0.500	1
	4:D+W(X)	0.500	301.271	0.000	3	-393.422	0.000	1
212	5:D+W(Z)	0.500	378.131	0.000	2	-536.368	0.000	1
	1:DEAD	0.167	292.953	0.000	1			
	2:WIND(X)	0.167	232.244	0.000	1	-197.791	0.000	3
	3:WIND(Z)	0.167				-157.607	0.000	1
	4:D+W(X)	0.167	258.105	0.000	1			
213	5:D+W(Z)	0.167	253.311	0.000	3	-74.395	0.000	1
	1:DEAD	0.167	137.797	0.000	1			
	2:WIND(X)	0.167	193.651	0.000	1	-108.887	0.000	3
	3:WIND(Z)	0.167	11.125	0.167	1	-141.571	0.167	3
	4:D+W(X)	0.167	301.717	0.000	1			
214	5:D+W(Z)	0.167	118.522	0.167	1	-7.082	0.167	3
	1:DEAD	0.167	115.931	0.000	1			
	2:WIND(X)	0.167	18.145	0.000	3	-41.218	0.000	1
	3:WIND(Z)	0.167				-134.542	0.000	1
	4:D+W(X)	0.167	134.075	0.000	1			
216	5:D+W(Z)	0.167	110.937	0.000	3	-48.629	0.000	1
	1:DEAD	0.167	324.837	0.000	1			
	2:WIND(X)	0.167	347.664	0.000	1	-245.621	0.000	3
	3:WIND(Z)	0.167	136.813	0.000	1			
	4:D+W(X)	0.167	363.257	0.000	1			
217	5:D+W(Z)	0.167	336.482	0.167	3			
	1:DEAD	0.167	165.254	0.000	1			
	2:WIND(X)	0.167	215.741	0.000	1	-138.368	0.000	3
	3:WIND(Z)	0.167	74.120	0.000	1	-37.904	0.000	2
	4:D+W(X)	0.167	291.313	0.000	1			
218	5:D+W(Z)	0.167	239.374	0.000	1			
	1:DEAD	0.167	126.023	0.000	1			
	2:WIND(X)	0.167	22.856	0.000	3	-43.365	0.000	1
	3:WIND(Z)	0.167	113.489	0.000	1	-43.452	0.000	3
	4:D+W(X)	0.167	148.879	0.000	1			
220	5:D+W(Z)	0.167	186.410	0.000	1			
	1:DEAD	0.167	206.123	0.000	1			
	2:WIND(X)	0.167	30.390	0.000	2	-216.695	0.000	1
	3:WIND(Z)	0.167	343.717	0.000	1	-98.522	0.000	2



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	4:D+W(X)	0.167	186.991	0.000	1	-80.288	0.000	3
	5:D+W(Z)	0.167	549.840	0.000	1			
221	1:DEAD	0.167	208.833	0.000	1			
	2:WIND(X)	0.167	54.879	0.000	1	-193.553	0.000	2
	3:WIND(Z)	0.167	214.150	0.167	1	-86.088	0.167	3
	4:D+W(X)	0.167	263.712	0.000	1	-134.974	0.000	3
	5:D+W(Z)	0.167	410.816	0.167	1	-12.867	0.167	3
222	1:DEAD	0.167	167.291	0.000	1			
	2:WIND(X)	0.167	45.959	0.000	3	-140.798	0.000	1
	3:WIND(Z)	0.167	19.131	0.000	1			
	4:D+W(X)	0.167	65.765	0.000	1			
	5:D+W(Z)	0.167	178.836	0.000	1			
224	1:DEAD	0.167	168.289	0.000	1			
	2:WIND(X)	0.167	34.129	0.000	1	-301.412	0.000	3
	3:WIND(Z)	0.167	78.815	0.000	1	-402.377	0.167	2
	4:D+W(X)	0.167	202.418	0.000	1	-142.035	0.000	3
	5:D+W(Z)	0.167	247.104	0.000	1	-243.049	0.167	2
225	1:DEAD	0.167	176.728	0.000	1			
	2:WIND(X)	0.167	10.706	0.000	2	-131.462	0.000	1
	3:WIND(Z)	0.167	55.364	0.000	3	-212.337	0.000	1
	4:D+W(X)	0.167	187.434	0.000	1	-42.252	0.000	3
	5:D+W(Z)	0.167	144.574	0.000	1	-35.609	0.000	2
226	1:DEAD	0.167	166.323	0.000	1			
	2:WIND(X)	0.167	33.142	0.000	3	-124.332	0.000	1
	3:WIND(Z)	0.167				-79.599	0.167	2
	4:D+W(X)	0.167	43.584	0.000	1			
	5:D+W(Z)	0.167	108.733	0.000	1	-47.808	0.000	3
229	1:DEAD	1.271	498.536	1.271	3	-725.044	1.271	2
	2:WIND(X)	1.271	148.413	1.271	2			
	3:WIND(Z)	1.271				-148.607	1.271	1
	4:D+W(X)	1.271	627.374	1.271	3	-576.631	1.271	2
	5:D+W(Z)	1.271	420.010	1.271	3	-733.467	1.271	1
230	1:DEAD	1.271	493.030	1.271	3	-731.497	1.271	1
	2:WIND(X)	1.271	178.358	1.271	1			
	3:WIND(Z)	1.271	74.852	1.271	1	-29.381	1.271	2
	4:D+W(X)	1.271	645.676	1.271	3	-553.139	1.271	1
	5:D+W(Z)	1.271	515.776	1.271	3	-656.644	1.271	1
233	1:DEAD	3.396	516.148	3.396	3	-653.117	3.396	2
	2:WIND(X)	3.396	81.788	3.396	1			
	3:WIND(Z)	3.396	87.198	3.396	2			
	4:D+W(X)	3.396	594.763	3.396	3	-577.814	3.396	2
	5:D+W(Z)	3.396	569.733	3.396	3	-581.477	3.396	1
234	1:DEAD	3.396	516.090	3.396	3	-657.094	3.396	1
	2:WIND(X)	3.396	127.262	3.396	1			



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	3:WIND(Z)	3.396				-114.099	3.396	1
	4:D+W(X)	3.396	640.366	3.396	3	-529.833	3.396	1
	5:D+W(Z)	3.396	410.408	3.396	3	-771.194	3.396	1
237	1:DEAD	3.396	550.177	3.396	3	-612.588	3.396	2
	2:WIND(X)	3.396	117.930	3.396	1			
	3:WIND(Z)	3.396	81.007	3.396	2			
	4:D+W(X)	3.396	662.281	3.396	3	-506.427	3.396	2
	5:D+W(Z)	3.396	598.261	3.396	3	-558.723	3.396	1
238	1:DEAD	3.396	551.090	3.396	3	-615.947	3.396	1
	2:WIND(X)	3.396	71.350	3.396	1			
	3:WIND(Z)	3.396				-111.497	3.396	1
	4:D+W(X)	3.396	621.211	3.396	3	-544.597	3.396	1
	5:D+W(Z)	3.396	446.566	3.396	3	-727.443	3.396	1
243	1:DEAD	1.271	574.786	1.271	3	-613.163	1.271	2
	2:WIND(X)	1.271	87.033	1.271	2			
	3:WIND(Z)	1.271				-82.410	1.271	1
	4:D+W(X)	1.271	638.095	1.271	3	-526.130	1.271	2
	5:D+W(Z)	1.271	518.716	1.271	3	-641.768	1.271	1
244	1:DEAD	1.271	573.133	1.271	3	-616.885	1.271	1
	2:WIND(X)	1.271	80.108	1.271	1			
	3:WIND(Z)	1.271	60.438	1.271	1			
	4:D+W(X)	1.271	630.227	1.271	3	-536.777	1.271	1
	5:D+W(Z)	1.271	622.480	1.271	3	-556.447	1.271	1
245	1:DEAD	4.667				-252.326	2.333	1
	2:WIND(X)	4.667				-42.336	0.000	1
	3:WIND(Z)	4.667				-6.600	0.000	1
	4:D+W(X)	4.667				-294.661	2.333	1
	5:D+W(Z)	4.667				-258.926	2.333	1
246	1:DEAD	4.667				-240.262	2.333	1
	2:WIND(X)	4.667	58.457	0.000	1			
	3:WIND(Z)	4.667	149.203	0.000	1			
	4:D+W(X)	4.667				-181.805	2.333	1
	5:D+W(Z)	4.667	54.389	2.333	3	-91.059	2.333	1
247	1:DEAD	4.667				-221.006	2.333	1
	2:WIND(X)	4.667				-81.628	0.000	1
	3:WIND(Z)	4.667	93.787	0.000	1			
	4:D+W(X)	4.667				-302.634	2.333	1
	5:D+W(Z)	4.667	18.229	2.333	3	-127.219	2.333	1
248	1:DEAD	4.667				-214.616	2.333	1
	2:WIND(X)	4.667	80.843	0.000	1			
	3:WIND(Z)	4.667	49.526	0.000	1			
	4:D+W(X)	4.667	11.675	2.333	3	-133.774	2.333	1
	5:D+W(Z)	4.667				-165.090	2.333	1
249	1:DEAD	4.667				-183.216	2.333	1



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Client **Verizon Wireless**

Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	2:WIND(X)	4.667				-85.962	0.000	1
	3:WIND(Z)	4.667	55.167	0.000	1			
	4:D+W(X)	4.667				-269.177	2.333	1
	5:D+W(Z)	4.667	17.399	2.333	3	-128.049	2.333	1
250	1:DEAD	4.667				-180.339	2.333	1
	2:WIND(X)	4.667	60.058	0.000	1			
	3:WIND(Z)	4.667	92.992	0.000	1			
	4:D+W(X)	4.667	25.167	2.333	3	-120.281	2.333	1
	5:D+W(Z)	4.667	58.101	2.333	3	-87.347	2.333	1
251	1:DEAD	4.667				-160.534	2.333	1
	2:WIND(X)	4.667				-45.063	0.000	1
	3:WIND(Z)	4.667	51.077	0.000	1			
	4:D+W(X)	4.667				-205.597	2.333	1
	5:D+W(Z)	4.667	35.991	2.333	3	-109.457	2.333	1
252	1:DEAD	4.667				-162.215	2.333	1
	2:WIND(X)	4.667	60.438	0.000	1			
	3:WIND(Z)	4.667	42.854	0.000	1			
	4:D+W(X)	4.667	43.672	2.333	3	-101.777	2.333	1
	5:D+W(Z)	4.667	26.087	2.333	3	-119.361	2.333	1
263	1:DEAD	1.271	516.089	0.000	3	-697.099	0.000	1
	2:WIND(X)	1.271	110.376	0.000	1			
	3:WIND(Z)	1.271	68.478	0.000	1			
	4:D+W(X)	1.271	594.768	0.000	3	-586.724	0.000	1
	5:D+W(Z)	1.271	568.981	0.000	3	-628.622	0.000	1
264	1:DEAD	1.271	516.149	0.000	3	-695.646	0.000	1
	2:WIND(X)	1.271	153.640	0.000	1			
	3:WIND(Z)	1.271				-136.329	0.000	1
	4:D+W(X)	1.271	640.361	0.000	3	-542.006	0.000	1
	5:D+W(Z)	1.271	411.160	0.000	3	-769.395	0.000	1
265	1:DEAD	1.271	550.106	0.000	3	-647.841	0.000	1
	2:WIND(X)	1.271	135.374	0.000	1			
	3:WIND(Z)	1.271	80.033	0.000	1			
	4:D+W(X)	1.271	662.287	0.000	3	-512.467	0.000	1
	5:D+W(Z)	1.271	597.573	0.000	3	-567.808	0.000	1
266	1:DEAD	1.271	551.162	0.000	3	-645.236	0.000	1
	2:WIND(X)	1.271	90.609	0.000	1			
	3:WIND(Z)	1.271				-151.402	0.000	1
	4:D+W(X)	1.271	621.205	0.000	3	-554.627	0.000	1
	5:D+W(Z)	1.271	447.255	0.000	3	-701.674	0.000	1
267	1:DEAD	3.396	574.704	0.000	3	-589.328	0.000	1
	2:WIND(X)	3.396	63.626	0.000	1			
	3:WIND(Z)	3.396				-68.263	0.000	1
	4:D+W(X)	3.396	637.964	0.000	3	-525.702	0.000	1
	5:D+W(Z)	3.396	518.015	0.000	3	-657.590	0.000	1



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
268	1:DEAD	3.396	573.215	0.000	3	-585.389	0.000	1
	2:WIND(X)	3.396	59.351	0.000	1			
	3:WIND(Z)	3.396	78.029	0.000	1			
	4:D+W(X)	3.396	630.358	0.000	3	-526.038	0.000	1
	5:D+W(Z)	3.396	623.182	0.000	3	-534.262	0.000	1
276	1:DEAD	0.166	367.463	0.166	3			
	2:WIND(X)	0.166	211.801	0.166	2	-620.935	0.166	3
	3:WIND(Z)	0.166	891.288	0.166	3	-484.833	0.166	2
	4:D+W(X)	0.166	275.184	0.166	2	-253.472	0.166	3
	5:D+W(Z)	0.166	1.26E+3	0.166	3	-421.450	0.166	2
277	1:DEAD	0.166	395.150	0.166	3			
	2:WIND(X)	0.166	205.071	0.166	1	-681.889	0.166	3
	3:WIND(Z)	0.166	476.205	0.000	1	-817.085	0.166	3
	4:D+W(X)	0.166	276.629	0.166	1	-286.738	0.166	3
	5:D+W(Z)	0.166	584.222	0.000	1	-421.935	0.166	3
278	1:DEAD	0.166	857.008	0.166	2			
	2:WIND(X)	0.166	786.552	0.166	2	-234.407	0.166	3
	3:WIND(Z)	0.166	189.157	0.166	3	-1.24E+3	0.166	2
	4:D+W(X)	0.166	1.64E+3	0.166	2	-144.550	0.166	3
	5:D+W(Z)	0.166	279.013	0.166	3	-379.609	0.166	2
279	1:DEAD	0.166	830.349	0.166	1			
	2:WIND(X)	0.166	765.945	0.166	1	-133.732	0.000	3
	3:WIND(Z)	0.166	926.301	0.000	1	-263.733	0.166	3
	4:D+W(X)	0.166	1.6E+3	0.166	1	-68.605	0.166	3
	5:D+W(Z)	0.166	1.68E+3	0.000	1	-227.684	0.166	3
280	1:DEAD	6.719	22.321	0.000	1			
	2:WIND(X)	6.719				-131.745	0.000	1
	3:WIND(Z)	6.719				-70.391	0.000	1
	4:D+W(X)	6.719				-112.915	6.719	1
	5:D+W(Z)	6.719				-51.561	6.719	1
281	1:DEAD	6.719	8.814	0.000	1			
	2:WIND(X)	6.719				-81.620	0.000	1
	3:WIND(Z)	6.719	23.794	0.000	1			
	4:D+W(X)	6.719				-76.298	6.719	1
	5:D+W(Z)	6.719	32.608	0.000	1			
282	1:DEAD	6.719	29.563	0.000	1			
	2:WIND(X)	6.719				-68.662	0.000	1
	3:WIND(Z)	6.719	318.219	0.000	1			
	4:D+W(X)	6.719				-42.590	6.719	1
	5:D+W(Z)	6.719	347.783	0.000	1			
283	1:DEAD	5.495				-11.785	5.495	1
	2:WIND(X)	5.495				-9.586	0.000	1
	3:WIND(Z)	5.495				-406.407	0.000	1
	4:D+W(X)	5.495				-21.371	5.495	1



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	5:D+W(Z)	5.495				-418.192	5.495	1
284	1:DEAD	2.900	829.784	0.000	2	-403.293	0.000	1
	2:WIND(X)	2.900	1.84E+3	0.000	2	-2.6E+3	0.000	1
	3:WIND(Z)	2.900	1.72E+3	0.000	2	-2.47E+3	0.000	1
	4:D+W(X)	2.900	2.67E+3	0.000	2	-3E+3	0.000	1
	5:D+W(Z)	2.900	2.55E+3	0.000	2	-2.88E+3	0.000	1
285	1:DEAD	2.900	875.607	0.000	1	-352.592	0.000	2
	2:WIND(X)	2.900	1.83E+3	0.000	1	-2.66E+3	0.000	2
	3:WIND(Z)	2.900	2.37E+3	0.000	2	-1.81E+3	0.000	1
	4:D+W(X)	2.900	2.7E+3	0.000	1	-3.01E+3	0.000	2
	5:D+W(Z)	2.900	2.02E+3	0.000	2	-933.569	0.000	1
286	1:DEAD	4.834	749.552	0.000	1			
	2:WIND(X)	4.834	430.563	0.000	3	-1.73E+3	0.000	1
	3:WIND(Z)	4.834	2.37E+3	0.000	1	-786.521	0.000	3
	4:D+W(X)	4.834	467.851	0.000	3	-975.953	0.000	1
	5:D+W(Z)	4.834	3.12E+3	0.000	1	-749.233	0.000	3
287	1:DEAD	4.834	756.606	0.000	1			
	2:WIND(X)	4.834	469.295	0.000	3	-1.72E+3	0.000	1
	3:WIND(Z)	4.834	742.014	0.000	3	-2.46E+3	0.000	1
	4:D+W(X)	4.834	499.577	0.000	3	-962.768	0.000	1
	5:D+W(Z)	4.834	772.296	0.000	2	-1.71E+3	0.000	1
288	1:DEAD	4.667	286.356	0.000	1			
	2:WIND(X)	4.667	220.604	0.000	1	-186.186	0.000	3
	3:WIND(Z)	4.667				-154.193	0.000	1
	4:D+W(X)	4.667	253.161	0.000	1			
	5:D+W(Z)	4.667	245.753	0.000	3	-66.477	0.000	1
289	1:DEAD	4.667	135.602	0.000	1			
	2:WIND(X)	4.667	150.780	0.000	1	-92.764	0.000	3
	3:WIND(Z)	4.667	30.081	0.000	1	-124.082	4.667	1
	4:D+W(X)	4.667	259.290	0.000	1			
	5:D+W(Z)	4.667	138.591	0.000	1			
290	1:DEAD	4.667	205.926	4.667	2			
	2:WIND(X)	4.667	138.841	4.667	1	-108.748	4.667	3
	3:WIND(Z)	4.667	128.171	4.667	1	-127.533	4.667	3
	4:D+W(X)	4.667	224.291	4.667	1	-87.820	4.667	3
	5:D+W(Z)	4.667	196.650	4.667	1	-106.605	4.667	3
291	1:DEAD	4.667	307.967	0.000	1			
	2:WIND(X)	4.667	228.186	0.000	1	-210.179	0.000	3
	3:WIND(Z)	4.667	82.680	0.000	1	-1.998	0.000	3
	4:D+W(X)	4.667	260.088	0.000	1			
	5:D+W(Z)	4.667	308.578	4.667	2			
292	1:DEAD	4.667	163.144	0.000	1			
	2:WIND(X)	4.667	204.099	0.000	1	-130.722	0.000	3
	3:WIND(Z)	4.667	71.673	0.000	1	-34.772	0.000	2



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	4:D+W(X)	4.667	282.449	0.000	1			
	5:D+W(Z)	4.667	234.817	0.000	1			
293	1:DEAD	4.667	211.759	4.667	1			
	2:WIND(X)	4.667	129.557	4.667	2	-101.713	4.667	3
	3:WIND(Z)	4.667	111.160	4.667	3	-135.339	4.667	2
	4:D+W(X)	4.667	227.907	4.667	1	-85.482	4.667	3
	5:D+W(Z)	4.667	211.921	4.667	1	-63.790	4.667	2
294	1:DEAD	4.667	203.721	4.667	3			
	2:WIND(X)	4.667	24.301	0.000	2	-209.988	0.000	1
	3:WIND(Z)	4.667	325.314	0.000	1	-188.984	4.667	1
	4:D+W(X)	4.667	181.162	4.667	3	-100.957	4.667	1
	5:D+W(Z)	4.667	527.691	0.000	1	-91.299	4.667	1
295	1:DEAD	4.667	199.245	0.000	1			
	2:WIND(X)	4.667	68.251	0.000	1	-160.215	4.667	1
	3:WIND(Z)	4.667	192.600	0.000	1	-107.638	0.000	3
	4:D+W(X)	4.667	267.496	0.000	1	-93.835	4.667	1
	5:D+W(Z)	4.667	391.845	0.000	1	-31.838	0.000	3
296	1:DEAD	4.667	190.036	4.667	3	-66.552	4.667	2
	2:WIND(X)	4.667	134.544	4.667	1	-218.154	4.667	3
	3:WIND(Z)	4.667	127.953	4.667	1	-52.300	4.667	3
	4:D+W(X)	4.667	185.537	4.667	1	-28.118	4.667	3
	5:D+W(Z)	4.667	178.945	4.667	1	-45.541	4.667	2
297	1:DEAD	4.667	183.498	4.667	3			
	2:WIND(X)	4.667	5.801	0.000	2	-265.749	4.667	2
	3:WIND(Z)	4.667	179.753	4.667	2	-373.474	0.000	2
	4:D+W(X)	4.667	184.909	4.667	3	-122.875	4.667	2
	5:D+W(Z)	4.667	322.627	4.667	2	-211.245	0.000	2
298	1:DEAD	4.667	173.510	0.000	1			
	2:WIND(X)	4.667	6.989	0.000	2	-129.210	0.000	1
	3:WIND(Z)	4.667	48.544	0.000	3	-204.780	0.000	1
	4:D+W(X)	4.667	180.499	0.000	1	-37.232	0.000	3
	5:D+W(Z)	4.667	140.522	0.000	1	-31.270	0.000	2
299	1:DEAD	4.667	185.243	4.667	3	-68.001	4.667	1
	2:WIND(X)	4.667	95.993	4.667	1	-198.412	4.667	3
	3:WIND(Z)	4.667	15.397	4.667	1	-127.039	4.667	2
	4:D+W(X)	4.667	147.733	4.667	2	-13.169	4.667	3
	5:D+W(Z)	4.667	148.708	4.667	3	-75.299	4.667	2
300	1:DEAD	0.166	218.548	0.166	2			
	2:WIND(X)	0.166	194.344	0.166	3	-244.505	0.166	1
	3:WIND(Z)	0.166				-132.140	0.166	1
	4:D+W(X)	0.166	289.722	0.166	3	-33.291	0.166	1
	5:D+W(Z)	0.166	157.409	0.000	1			
301	1:DEAD	0.166	129.426	0.166	1			
	2:WIND(X)	0.166	59.477	0.166	3	-88.595	0.166	1



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Job Title Meriden 5

Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	3:WIND(Z)	0.166				-129.565	0.166	1
	4:D+W(X)	0.166	178.306	0.166	3			
	5:D+W(Z)	0.166	100.434	0.166	3	-0.139	0.166	1
302	1:DEAD	0.166	198.905	0.000	1			
	2:WIND(X)	0.166	156.912	0.166	1	-113.665	0.166	3
	3:WIND(Z)	0.166	118.792	0.000	1	-136.912	0.000	2
	4:D+W(X)	0.166	250.592	0.166	2	-94.361	0.166	3
	5:D+W(Z)	0.166	180.250	0.000	1	-123.005	0.000	3
303	1:DEAD	0.166	259.721	0.166	2			
	2:WIND(X)	0.166	175.293	0.166	3	-219.129	0.166	2
	3:WIND(Z)	0.166	56.777	0.000	1			
	4:D+W(X)	0.166	235.131	0.166	3			
	5:D+W(Z)	0.166	315.576	0.166	2			
304	1:DEAD	0.166	147.608	0.000	1			
	2:WIND(X)	0.166	115.237	0.166	3	-161.069	0.166	2
	3:WIND(Z)	0.166	108.001	0.166	2	-34.096	0.166	3
	4:D+W(X)	0.166	219.688	0.166	3	-16.419	0.166	2
	5:D+W(Z)	0.166	252.651	0.166	2			
305	1:DEAD	0.166	217.877	0.166	1			
	2:WIND(X)	0.166	135.183	0.166	2	-105.606	0.166	3
	3:WIND(Z)	0.166	115.952	0.166	3	-142.965	0.166	2
	4:D+W(X)	0.166	235.274	0.166	1	-93.052	0.166	3
	5:D+W(Z)	0.166	217.201	0.166	1	-71.491	0.166	2
306	1:DEAD	0.166	194.438	0.000	1			
	2:WIND(X)	0.166	42.785	0.166	3	-272.676	0.166	1
	3:WIND(Z)	0.166	204.050	0.166	3	-248.412	0.166	1
	4:D+W(X)	0.166	230.348	0.166	3	-185.743	0.166	1
	5:D+W(Z)	0.166	391.612	0.166	3	-161.479	0.166	1
307	1:DEAD	0.166	186.436	0.166	3			
	2:WIND(X)	0.166				-168.342	0.166	1
	3:WIND(Z)	0.166	121.649	0.166	3	-73.772	0.166	1
	4:D+W(X)	0.166	152.643	0.166	3	-106.687	0.166	1
	5:D+W(Z)	0.166	308.085	0.166	3	-12.118	0.166	1
308	1:DEAD	0.166	187.407	0.166	3	-74.076	0.166	2
	2:WIND(X)	0.166	126.207	0.166	1	-240.956	0.166	3
	3:WIND(Z)	0.166	138.933	0.000	1	-41.320	0.000	3
	4:D+W(X)	0.166	170.550	0.000	1	-53.549	0.166	3
	5:D+W(Z)	0.166	184.460	0.000	1	-66.965	0.166	2
309	1:DEAD	0.166	184.094	0.166	3			
	2:WIND(X)	0.166	9.366	0.166	3	-275.408	0.166	2
	3:WIND(Z)	0.166	199.431	0.166	2	-228.838	0.166	3
	4:D+W(X)	0.166	193.460	0.166	3	-133.222	0.166	2
	5:D+W(Z)	0.166	341.616	0.166	2	-44.744	0.166	3
310	1:DEAD	0.166	164.710	0.166	3			



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	2:WIND(X)	0.166				-151.360	0.166	2
	3:WIND(Z)	0.166	54.844	0.166	2	-186.772	0.166	3
	4:D+W(X)	0.166	131.650	0.166	3	-75.372	0.166	2
	5:D+W(Z)	0.166	130.832	0.166	2	-22.062	0.166	3
311	1:DEAD	0.166	191.038	0.166	3	-75.766	0.166	1
	2:WIND(X)	0.166	102.609	0.166	2	-206.047	0.166	3
	3:WIND(Z)	0.166	18.411	0.166	1	-128.926	0.166	2
	4:D+W(X)	0.166	151.427	0.166	2	-15.009	0.166	3
	5:D+W(Z)	0.166	153.864	0.166	3	-80.108	0.166	2
312	1:DEAD	6.600				-10.228	6.600	1
	2:WIND(X)	6.600	51.825	0.000	1			
	3:WIND(Z)	6.600	21.491	0.000	1			
	4:D+W(X)	6.600	44.967	0.000	1			
	5:D+W(Z)	6.600	14.633	0.000	1			
313	1:DEAD	6.600				-5.278	6.600	1
	2:WIND(X)	6.600				-39.305	0.000	1
	3:WIND(Z)	6.600				-50.531	0.000	1
	4:D+W(X)	6.600				-44.584	6.600	1
	5:D+W(Z)	6.600				-55.810	6.600	1
314	1:DEAD	6.600				-11.686	6.600	1
	2:WIND(X)	6.600				-17.499	0.000	1
	3:WIND(Z)	6.600	37.472	0.000	1			
	4:D+W(X)	6.600				-29.185	6.600	1
	5:D+W(Z)	6.600	29.157	0.000	1			
315	1:DEAD	6.600				-4.208	6.600	1
	2:WIND(X)	6.600	30.945	0.000	1			
	3:WIND(Z)	6.600				-32.721	0.000	1
	4:D+W(X)	6.600	30.108	0.000	1			
	5:D+W(Z)	6.600				-36.928	6.600	1
316	1:DEAD	6.600				-4.795	6.600	1
	2:WIND(X)	6.600				-3.915	0.000	1
	3:WIND(Z)	6.600	20.574	0.000	1			
	4:D+W(X)	6.600				-8.711	6.600	1
	5:D+W(Z)	6.600	19.150	0.000	1			
317	1:DEAD	6.600				-9.737	6.600	1
	2:WIND(X)	6.600	12.182	0.000	1			
	3:WIND(Z)	6.600				-27.308	0.000	1
	4:D+W(X)	6.600	5.816	0.000	1			
	5:D+W(Z)	6.600				-37.045	6.600	1
318	1:DEAD	6.600				-7.621	0.000	1
	2:WIND(X)	6.600				-23.585	0.000	1
	3:WIND(Z)	6.600	11.140	0.000	1			
	4:D+W(X)	6.600				-31.206	0.000	1
	5:D+W(Z)	6.600	6.890	6.600	1			



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
319	1:DEAD	6.600				-5.876	0.000	1
	2:WIND(X)	6.600				-37.556	0.000	1
	3:WIND(Z)	6.600	24.774	0.000	1			
	4:D+W(X)	6.600				-43.432	0.000	1
	5:D+W(Z)	6.600	22.269	6.600	1			
320	1:DEAD	6.600				-13.213	0.000	1
	2:WIND(X)	6.600				-43.329	0.000	1
	3:WIND(Z)	6.600				-32.955	0.000	1
	4:D+W(X)	6.600				-56.542	0.000	1
	5:D+W(Z)	6.600				-46.167	0.000	1
321	1:DEAD	6.600	0.753	0.000	1	-2.618	6.600	1
	2:WIND(X)	6.600	46.240	0.000	1			
	3:WIND(Z)	6.600	69.379	0.000	1			
	4:D+W(X)	6.600	46.993	0.000	1			
	5:D+W(Z)	6.600	70.132	0.000	1			
322	1:DEAD	6.600				-9.119	6.600	1
	2:WIND(X)	6.600	34.390	0.000	1			
	3:WIND(Z)	6.600				-22.033	0.000	1
	4:D+W(X)	6.600	28.641	0.000	1			
	5:D+W(Z)	6.600				-31.152	6.600	1
323	1:DEAD	6.600				-7.174	6.600	1
	2:WIND(X)	6.600	24.046	0.000	1			
	3:WIND(Z)	6.600	0.217	0.000	1			
	4:D+W(X)	6.600	20.243	0.000	1			
	5:D+W(Z)	6.600				-6.957	6.600	1
352	1:DEAD	0.250	51.172	0.250	1			
	2:WIND(X)	0.250	121.736	0.250	1			
	3:WIND(Z)	0.250	271.877	0.250	4			
	4:D+W(X)	0.250	172.908	0.250	1			
	5:D+W(Z)	0.250	318.811	0.250	4			
353	1:DEAD	0.250	50.518	0.250	2			
	2:WIND(X)	0.250	123.625	0.250	2			
	3:WIND(Z)	0.250				-271.667	0.250	3
	4:D+W(X)	0.250	174.142	0.250	2			
	5:D+W(Z)	0.250	15.959	0.250	1	-224.537	0.250	3
354	1:DEAD	3.497	71.994	3.497	1			
	2:WIND(X)	3.497				-149.834	0.000	1
	3:WIND(Z)	3.497	600.349	3.497	1	-82.008	3.497	3
	4:D+W(X)	3.497	6.822	3.497	4	-84.658	3.497	2
	5:D+W(Z)	3.497	672.343	3.497	1	-77.450	3.497	3
355	1:DEAD	4.203	115.443	4.203	3	-21.844	4.203	1
	2:WIND(X)	4.203	416.414	4.203	3	-211.614	4.203	1
	3:WIND(Z)	4.203	918.718	4.203	2	-249.569	4.203	4
	4:D+W(X)	4.203	531.857	4.203	3	-233.457	4.203	1



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
356	5:D+W(Z)	4.203	932.134	4.203	2	-169.386	4.203	4
	1:DEAD	3.497	69.822	0.000	1			
	2:WIND(X)	3.497				-153.653	3.497	3
	3:WIND(Z)	3.497	80.092	0.000	3	-599.788	0.000	1
	4:D+W(X)	3.497	7.374	0.000	4	-90.900	0.000	1
357	5:D+W(Z)	3.497	84.022	0.000	3	-529.966	0.000	1
	1:DEAD	3.299	114.065	3.299	3	-38.989	3.299	1
	2:WIND(X)	3.299	125.326	3.299	1	-291.933	3.299	3
	3:WIND(Z)	3.299	489.570	3.299	4	-1.02E+3	3.299	2
	4:D+W(X)	3.299	86.336	3.299	1	-177.868	3.299	3
358	5:D+W(Z)	3.299	575.060	3.299	4	-1.03E+3	3.299	2
	1:DEAD	4.203	72.489	0.000	1			
	2:WIND(X)	4.203	199.363	0.000	1			
	3:WIND(Z)	4.203				-602.289	0.000	1
	4:D+W(X)	4.203	271.852	0.000	1			
359	5:D+W(Z)	4.203				-529.800	0.000	1
	1:DEAD	4.203	120.009	4.203	4	-28.973	4.203	2
	2:WIND(X)	4.203	410.258	4.203	4	-199.817	4.203	2
	3:WIND(Z)	4.203	242.889	4.203	3	-906.333	4.203	1
	4:D+W(X)	4.203	530.267	4.203	4	-228.790	4.203	2
360	5:D+W(Z)	4.203	328.436	4.203	3	-900.845	4.203	1
	1:DEAD	3.396	498.482	0.000	3	-679.334	0.000	1
	2:WIND(X)	3.396	138.747	0.000	1			
	3:WIND(Z)	3.396				-90.861	0.000	1
	4:D+W(X)	3.396	627.538	0.000	3	-540.587	0.000	1
361	5:D+W(Z)	3.396	419.242	0.000	3	-770.195	0.000	1
	1:DEAD	3.396	493.084	0.000	3	-681.551	0.000	1
	2:WIND(X)	3.396	159.246	0.000	1			
	3:WIND(Z)	3.396	59.920	0.000	1	-12.948	0.000	2
	4:D+W(X)	3.396	645.511	0.000	3	-536.103	0.000	1
362	5:D+W(Z)	3.396	516.544	0.000	3	-631.923	0.000	1
	1:DEAD	1.556	1.22E+3	1.556	3	-1.03E+3	1.556	2
	2:WIND(X)	1.556	25.226	1.556	2	-24.083	1.556	1
	3:WIND(Z)	1.556	118.946	0.000	2	-111.130	0.000	1
	4:D+W(X)	1.556	1.22E+3	1.556	3	-1E+3	1.556	2
363	5:D+W(Z)	1.556	1.22E+3	1.556	3	-973.078	1.556	1
	1:DEAD	1.556	1.22E+3	1.556	3	-993.334	1.556	2
	2:WIND(X)	1.556	33.783	0.000	2	-32.100	0.000	1
	3:WIND(Z)	1.556	55.263	0.000	2	-54.667	0.000	1
	4:D+W(X)	1.556	1.22E+3	1.556	3	-960.773	1.556	1
364	5:D+W(Z)	1.556	1.22E+3	1.556	3	-963.762	1.556	1
	1:DEAD	1.556	1.22E+3	1.556	3	-1E+3	1.556	2
	2:WIND(X)	1.556	33.256	1.556	2	-30.456	1.556	1
	3:WIND(Z)	1.556	79.437	0.000	2	-73.926	0.000	1



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Client **Verizon Wireless**File **False Chimney.std**Date/Time **04-Sep-2015 10:14****Beam Combined Axial and Bending Stresses Summary Cont...**

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	4:D+W(X)	1.556	1.22E+3	1.556	3	-968.535	1.556	1
	5:D+W(Z)	1.556	1.22E+3	1.556	3	-961.844	1.556	1
365	1:DEAD	1.556	1.22E+3	1.556	3	-1.02E+3	1.556	2
	2:WIND(X)	1.556	43.596	1.556	2	-38.972	1.556	1
	3:WIND(Z)	1.556	57.703	0.000	2	-54.223	0.000	1
	4:D+W(X)	1.556	1.22E+3	1.556	3	-972.081	1.556	1
	5:D+W(Z)	1.556	1.22E+3	1.556	3	-985.157	1.556	1
366	1:DEAD	1.556	1.26E+3	0.778	3	-1.06E+3	0.778	2
	2:WIND(X)	1.556	35.915	1.556	2	-34.694	1.556	1
	3:WIND(Z)	1.556	87.961	0.000	2	-80.146	0.000	1
	4:D+W(X)	1.556	1.26E+3	0.778	3	-1.03E+3	0.778	2
	5:D+W(Z)	1.556	1.26E+3	0.778	3	-991.163	0.519	1
367	1:DEAD	1.556	1.22E+3	0.000	3	-1.03E+3	0.000	1
	2:WIND(X)	1.556	46.605	1.556	2	-45.306	1.556	1
	3:WIND(Z)	1.556	56.977	0.000	2	-49.162	0.000	1
	4:D+W(X)	1.556	1.22E+3	0.000	3	-991.820	0.000	1
	5:D+W(Z)	1.556	1.22E+3	0.000	3	-970.758	0.000	1
368	1:DEAD	1.556	1.26E+3	0.778	3	-1.03E+3	0.778	2
	2:WIND(X)	1.556	32.561	0.000	2	-30.863	0.000	1
	3:WIND(Z)	1.556	29.572	0.000	2	-27.788	0.000	1
	4:D+W(X)	1.556	1.26E+3	0.778	3	-995.796	0.778	2
	5:D+W(Z)	1.556	1.26E+3	0.778	3	-1.01E+3	0.907	2
369	1:DEAD	1.556	1.22E+3	0.000	3	-996.836	0.000	1
	2:WIND(X)	1.556	31.339	0.000	2	-29.625	0.000	1
	3:WIND(Z)	1.556	25.970	1.556	1	-21.810	1.556	2
	4:D+W(X)	1.556	1.22E+3	0.000	3	-965.497	0.000	1
	5:D+W(Z)	1.556	1.22E+3	0.000	3	-992.955	0.000	1
370	1:DEAD	1.556	1.26E+3	0.778	3	-1.04E+3	0.778	2
	2:WIND(X)	1.556	37.829	1.556	2	-34.985	1.556	1
	3:WIND(Z)	1.556	53.693	0.000	2	-48.205	0.000	1
	4:D+W(X)	1.556	1.26E+3	0.778	3	-1E+3	0.778	2
	5:D+W(Z)	1.556	1.26E+3	0.778	3	-996.479	0.907	2
371	1:DEAD	1.556	1.22E+3	0.000	3	-1E+3	0.000	1
	2:WIND(X)	1.556	42.401	1.556	2	-39.514	1.556	1
	3:WIND(Z)	1.556	27.949	0.000	2	-22.483	0.000	1
	4:D+W(X)	1.556	1.22E+3	0.000	3	-966.724	0.000	1
	5:D+W(Z)	1.556	1.22E+3	0.000	3	-976.604	0.000	1
372	1:DEAD	1.556	1.26E+3	0.778	3	-1.05E+3	0.778	2
	2:WIND(X)	1.556	47.603	1.556	2	-42.910	1.556	1
	3:WIND(Z)	1.556	30.519	0.000	2	-27.097	0.000	1
	4:D+W(X)	1.556	1.26E+3	0.778	3	-1E+3	0.778	2
	5:D+W(Z)	1.556	1.26E+3	0.778	3	-1.03E+3	0.907	2
373	1:DEAD	1.556	1.22E+3	0.000	3	-1.02E+3	0.000	1
	2:WIND(X)	1.556	51.610	1.556	2	-46.848	1.556	1



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Job Title Meriden 5

Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	3:WIND(Z)	1.556	27.154	1.556	1	-23.848	1.556	2
	4:D+W(X)	1.556	1.22E+3	0.000	3	-970.596	0.000	1
	5:D+W(Z)	1.556	1.22E+3	0.000	3	-1.01E+3	0.000	1
374	1:DEAD	0.250	412.567	0.250	1	-304.362	0.250	3
	2:WIND(X)	0.250	567.828	0.250	3	-773.852	0.250	1
	3:WIND(Z)	0.250	724.143	0.000	3	-977.347	0.000	1
	4:D+W(X)	0.250	263.466	0.250	3	-361.285	0.250	1
	5:D+W(Z)	0.250	458.627	0.000	3	-603.540	0.000	1
375	1:DEAD	0.250	408.851	0.250	2	-300.878	0.250	4
	2:WIND(X)	0.250	555.790	0.250	4	-761.828	0.250	2
	3:WIND(Z)	0.250	976.935	0.000	1	-723.524	0.000	3
	4:D+W(X)	0.250	254.912	0.250	4	-352.977	0.250	2
	5:D+W(Z)	0.250	1.35E+3	0.000	1	-986.302	0.000	4
376	1:DEAD	4.167	23.955	4.167	4	-78.204	4.167	2
	2:WIND(X)	4.167	180.354	0.000	1	-46.260	0.000	3
	3:WIND(Z)	4.167	1.46E+3	0.000	1	-1.46E+3	0.000	3
	4:D+W(X)	4.167	130.715	0.000	1	-50.870	0.000	3
	5:D+W(Z)	4.167	1.48E+3	4.167	4	-1.54E+3	4.167	2
382	1:DEAD	3.361	33.815	1.680	1			
	2:WIND(X)	3.361	77.410	0.000	1			
	3:WIND(Z)	3.361	49.917	0.000	1			
	4:D+W(X)	3.361	111.225	1.680	1			
	5:D+W(Z)	3.361	83.732	1.680	1			
383	1:DEAD	1.250	201.863	1.250	3	-104.329	1.250	1
	2:WIND(X)	1.250	842.941	1.250	3	-540.725	1.250	1
	3:WIND(Z)	1.250	661.576	1.250	3	-327.359	1.250	1
	4:D+W(X)	1.250	1.04E+3	1.250	3	-645.054	1.250	1
	5:D+W(Z)	1.250	863.439	1.250	3	-431.687	1.250	1
384	1:DEAD	4.794	45.082	2.397	1			
	2:WIND(X)	4.794	163.738	0.000	1			
	3:WIND(Z)	4.794	155.279	0.000	1			
	4:D+W(X)	4.794	208.820	2.397	1			
	5:D+W(Z)	4.794	200.360	2.397	1			
385	1:DEAD	1.250	204.409	1.250	4	-106.298	1.250	2
	2:WIND(X)	1.250	844.277	1.250	4	-542.004	1.250	2
	3:WIND(Z)	1.250	328.722	1.250	2	-664.039	1.250	4
	4:D+W(X)	1.250	1.05E+3	1.250	4	-648.302	1.250	2
	5:D+W(Z)	1.250	222.424	1.250	2	-459.630	1.250	4
386	1:DEAD	4.794	44.846	2.397	1			
	2:WIND(X)	4.794	164.324	0.000	1			
	3:WIND(Z)	4.794				-155.647	0.000	1
	4:D+W(X)	4.794	209.169	2.397	1			
	5:D+W(Z)	4.794				-120.428	2.397	3
387	1:DEAD	3.352	34.406	1.676	1			



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	2:WIND(X)	3.352	76.415	0.000	1			
	3:WIND(Z)	3.352				-49.625	0.000	1
	4:D+W(X)	3.352	110.821	1.676	1			
	5:D+W(Z)	3.352				-21.954	1.676	3
392	1:DEAD	1.237	100.286	0.000	2	-19.946	0.000	1
	2:WIND(X)	1.237	320.275	1.237	3	-492.251	1.237	1
	3:WIND(Z)	1.237	498.782	1.237	2	-258.821	1.237	4
	4:D+W(X)	1.237	308.040	1.237	3	-400.105	1.237	1
	5:D+W(Z)	1.237	543.266	0.000	2	-222.965	0.000	1
393	1:DEAD	1.237	99.500	0.000	1	-19.114	0.000	2
	2:WIND(X)	1.237	317.084	1.237	4	-489.060	1.237	2
	3:WIND(Z)	1.237	265.013	1.237	3	-504.444	1.237	1
	4:D+W(X)	1.237	300.784	1.237	4	-392.803	1.237	2
	5:D+W(Z)	1.237	358.023	1.237	3	-517.496	1.237	1
395	1:DEAD	3.361	39.939	1.680	1			
	2:WIND(X)	3.361				-74.220	0.000	1
	3:WIND(Z)	3.361	69.903	0.000	1			
	4:D+W(X)	3.361				-41.030	1.680	3
	5:D+W(Z)	3.361	109.842	1.680	1			
396	1:DEAD	4.167	85.670	0.000	1			
	2:WIND(X)	4.167				-169.395	4.167	3
	3:WIND(Z)	4.167	376.526	0.000	2	-376.620	0.000	1
	4:D+W(X)	4.167				-105.398	0.000	1
	5:D+W(Z)	4.167	457.938	4.167	4	-316.673	4.167	2
397	1:DEAD	4.167	61.241	0.000	1			
	2:WIND(X)	4.167	187.190	4.167	4			
	3:WIND(Z)	4.167	327.285	4.167	3	-328.830	4.167	1
	4:D+W(X)	4.167	242.868	4.167	4			
	5:D+W(Z)	4.167	384.199	4.167	3	-286.820	4.167	1
402	1:DEAD	2.000	43.807	0.000	2	-43.807	0.000	1
	2:WIND(X)	2.000	171.979	2.000	2	-171.979	2.000	4
	3:WIND(Z)	2.000	263.036	2.000	4	-263.036	2.000	2
	4:D+W(X)	2.000	215.422	2.000	2	-215.422	2.000	4
	5:D+W(Z)	2.000	306.344	0.000	2	-306.344	0.000	1
403	1:DEAD	1.083	135.038	1.083	4	-135.038	1.083	2
	2:WIND(X)	1.083	545.523	1.083	4	-545.523	1.083	2
	3:WIND(Z)	1.083	470.561	1.083	2	-470.561	1.083	4
	4:D+W(X)	1.083	680.561	1.083	4	-680.561	1.083	2
	5:D+W(Z)	1.083	335.523	1.083	2	-335.523	1.083	4
410	1:DEAD	0.834	123.047	0.834	4	-123.047	0.834	2
	2:WIND(X)	0.834	654.316	0.834	2	-654.316	0.834	4
	3:WIND(Z)	0.834	438.242	0.834	2	-438.242	0.834	4
	4:D+W(X)	0.834	531.269	0.834	2	-531.269	0.834	4
	5:D+W(Z)	0.834	315.194	0.834	2	-315.194	0.834	4



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
411	1:DEAD	2.000	40.001	2.000	2	-40.001	2.000	4
	2:WIND(X)	2.000	206.128	0.000	1	-206.128	0.000	2
	3:WIND(Z)	2.000	242.803	0.000	1	-242.803	0.000	2
	4:D+W(X)	2.000	167.995	1.000	4	-167.995	1.000	2
	5:D+W(Z)	2.000	282.500	2.000	2	-282.500	2.000	4
412	1:DEAD	0.834	135.111	0.000	1	-135.111	0.000	2
	2:WIND(X)	0.834	544.048	0.000	1	-544.048	0.000	2
	3:WIND(Z)	0.834	473.767	0.000	2	-473.767	0.000	1
	4:D+W(X)	0.834	679.159	0.000	1	-679.159	0.000	2
	5:D+W(Z)	0.834	338.656	0.000	2	-338.656	0.000	1
413	1:DEAD	1.083	122.861	0.000	1	-122.861	0.000	2
	2:WIND(X)	1.083	654.703	0.000	2	-654.703	0.000	1
	3:WIND(Z)	1.083	434.288	0.000	2	-434.288	0.000	1
	4:D+W(X)	1.083	531.842	0.000	2	-531.842	0.000	1
	5:D+W(Z)	1.083	311.427	0.000	2	-311.427	0.000	1
418	1:DEAD	0.833	135.811	0.833	4	-135.811	0.833	2
	2:WIND(X)	0.833	542.275	0.833	4	-542.275	0.833	2
	3:WIND(Z)	0.833	472.594	0.833	4	-472.594	0.833	2
	4:D+W(X)	0.833	678.086	0.833	4	-678.086	0.833	2
	5:D+W(Z)	0.833	608.405	0.833	4	-608.405	0.833	2
419	1:DEAD	1.084	123.644	1.084	4	-123.644	1.084	2
	2:WIND(X)	1.084	654.830	1.084	2	-654.830	1.084	4
	3:WIND(Z)	1.084	433.650	1.084	4	-433.650	1.084	2
	4:D+W(X)	1.084	531.186	1.084	2	-531.186	1.084	4
	5:D+W(Z)	1.084	557.294	1.084	4	-557.294	1.084	2
420	1:DEAD	0.833	123.812	0.000	1	-123.812	0.000	2
	2:WIND(X)	0.833	654.437	0.000	2	-654.437	0.000	1
	3:WIND(Z)	0.833	437.522	0.000	1	-437.522	0.000	2
	4:D+W(X)	0.833	530.626	0.000	2	-530.626	0.000	1
	5:D+W(Z)	0.833	561.334	0.000	1	-561.334	0.000	2
421	1:DEAD	1.084	135.766	0.000	1	-135.766	0.000	2
	2:WIND(X)	1.084	543.736	0.000	1	-543.736	0.000	2
	3:WIND(Z)	1.084	469.329	0.000	1	-469.329	0.000	2
	4:D+W(X)	1.084	679.502	0.000	1	-679.502	0.000	2
	5:D+W(Z)	1.084	605.094	0.000	1	-605.094	0.000	2
426	1:DEAD	0.774	301.784	0.774	1	-203.527	0.774	3
	2:WIND(X)	0.774	418.105	0.774	3	-602.898	0.774	1
	3:WIND(Z)	0.774	542.969	0.774	3	-877.224	0.774	1
	4:D+W(X)	0.774	214.578	0.774	3	-301.113	0.774	1
	5:D+W(Z)	0.774	347.583	0.000	3	-583.311	0.000	1
428	1:DEAD	4.795	41.449	2.397	1			
	2:WIND(X)	4.795				-197.435	0.000	1
	3:WIND(Z)	4.795	143.597	0.000	1			
	4:D+W(X)	4.795				-165.619	2.397	3



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
429	5:D+W(Z)	4.795	185.046	2.397	1			
	1:DEAD	4.795	41.193	2.397	1			
	2:WIND(X)	4.795				-197.392	0.000	1
	3:WIND(Z)	4.795				-143.807	0.000	1
	4:D+W(X)	4.795				-165.832	2.397	3
430	5:D+W(Z)	4.795				-112.246	2.397	3
	1:DEAD	3.361	40.330	1.681	1			
	2:WIND(X)	3.361				-73.632	0.000	1
	3:WIND(Z)	3.361				-69.969	0.000	1
	4:D+W(X)	3.361				-40.055	1.681	3
431	5:D+W(Z)	3.361				-36.393	1.681	3
	1:DEAD	0.774	299.060	0.774	2	-200.531	0.774	4
	2:WIND(X)	0.774	409.202	0.774	4	-593.441	0.774	2
	3:WIND(Z)	0.774	876.454	0.774	2	-541.802	0.774	4
	4:D+W(X)	0.774	208.671	0.774	4	-294.381	0.774	2
432	5:D+W(Z)	0.774	1.18E+3	0.774	2	-742.332	0.774	4
	1:DEAD	0.917	2.088	0.917	2	-2.088	0.917	4
	2:WIND(X)	0.917	6.023	0.917	1	-6.023	0.917	3
	3:WIND(Z)	0.917	41.592	0.917	1	-41.592	0.917	2
	4:D+W(X)	0.917	4.315	0.917	1	-4.315	0.917	3
433	5:D+W(Z)	0.917	39.884	0.917	1	-39.884	0.917	2
	1:DEAD	0.917	0.921	0.000	1	-0.921	0.000	2
	2:WIND(X)	0.917	1.474	0.917	4	-1.474	0.917	2
	3:WIND(Z)	0.917	54.267	0.917	1	-54.267	0.917	2
	4:D+W(X)	0.917	1.856	0.917	4	-1.856	0.917	2
434	5:D+W(Z)	0.917	54.548	0.917	1	-54.548	0.917	2
	1:DEAD	0.917	0.760	0.000	2	-0.760	0.000	1
	2:WIND(X)	0.917	2.697	0.000	1	-2.697	0.000	2
	3:WIND(Z)	0.917	20.734	0.000	2	-20.734	0.000	1
	4:D+W(X)	0.917	2.127	0.000	1	-2.127	0.000	2
435	5:D+W(Z)	0.917	21.304	0.000	2	-21.304	0.000	1
	1:DEAD	0.917	0.486	0.000	1	-0.486	0.000	2
	2:WIND(X)	0.917	1.336	0.000	1	-1.336	0.000	2
	3:WIND(Z)	0.917	27.267	0.000	2	-27.267	0.000	1
	4:D+W(X)	0.917	1.823	0.000	1	-1.823	0.000	2
436	5:D+W(Z)	0.917	26.837	0.000	2	-26.837	0.000	1
	1:DEAD	1.417	130.528	1.417	2	-135.232	1.417	1
	2:WIND(X)	1.417	273.320	1.417	1	-263.771	1.417	2
	3:WIND(Z)	1.417	429.073	1.417	2	-438.067	1.417	1
	4:D+W(X)	1.417	140.625	1.417	4	-135.780	1.417	2
437	5:D+W(Z)	1.417	559.601	1.417	2	-573.298	1.417	1
	1:DEAD	1.417	116.416	1.417	2	-120.332	1.417	1
	2:WIND(X)	1.417	289.301	1.417	2	-299.260	1.417	1
	3:WIND(Z)	1.417	406.312	1.417	2	-412.734	1.417	1



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Beam Combined Axial and Bending Stresses Summary Cont...

Beam	L/C	Length (ft)	Max Comp			Max Tens		
			Stress (psi)	d (ft)	Corner	Stress (psi)	d (ft)	Corner
	4:D+W(X)	1.417	404.819	1.417	2	-418.695	1.417	1
	5:D+W(Z)	1.417	522.728	1.417	2	-533.066	1.417	1
438	1:DEAD	0.500	49.209	0.000	1	-35.735	0.000	2
	2:WIND(X)	0.500	71.953	0.000	2	-98.800	0.000	1
	3:WIND(Z)	0.500	53.794	0.000	2	-79.305	0.000	1
	4:D+W(X)	0.500	36.763	0.000	2	-50.136	0.000	1
	5:D+W(Z)	0.500	38.050	0.500	2	-50.088	0.500	1
439	1:DEAD	0.500	40.641	0.000	1	-29.291	0.000	2
	2:WIND(X)	0.500	98.751	0.000	1	-70.808	0.000	2
	3:WIND(Z)	0.500	45.460	0.500	2	-63.606	0.500	1
	4:D+W(X)	0.500	139.098	0.000	1	-99.805	0.000	2
	5:D+W(Z)	0.500	51.737	0.500	2	-58.534	0.500	1
440	1:DEAD	1.499	113.863	1.499	2	-44.872	1.499	4
	2:WIND(X)	1.499	240.207	1.499	3	-61.137	1.499	1
	3:WIND(Z)	1.499	166.926	1.499	3	-377.391	1.499	1
	4:D+W(X)	1.499	335.790	1.499	2	-87.730	1.499	4
	5:D+W(Z)	1.499	234.969	1.499	3	-376.443	1.499	1
441	1:DEAD	1.486	110.245	1.486	1	-41.843	1.486	3
	2:WIND(X)	1.486	239.516	1.486	4	-59.844	1.486	2
	3:WIND(Z)	1.486	380.409	1.486	2	-170.502	1.486	4
	4:D+W(X)	1.486	335.639	1.486	1	-87.565	1.486	3
	5:D+W(Z)	1.486	452.163	0.000	2	-173.854	0.000	1

Beam Force Detail Summary

Sign convention as diagrams:- positive above line, negative below line except Fx where positive is compression. Distance d is given from beam end A.

	Beam	L/C	d (ft)	Axial	Shear		Torsion	Bending	
				Fx (kip)	Fy (kip)	Fz (kip)	Mx (kip in)	My (kip in)	Mz (kip in)
Max Fx	100	5:D+W(Z)	0.000	6.744	0.332	0.143	-3.916	7.938	-3.835
Min Fx	101	3:WIND(Z)	0.000	-5.145	-0.245	-0.020	-3.807	8.377	4.042
Max Fy	100	4:D+W(X)	0.000	-3.119	2.208	-0.206	-0.832	0.606	9.919
Min Fy	418	4:D+W(X)	0.000	-0.000	-0.593	-1.100	0.000	0.000	0.000
Max Fz	157	5:D+W(Z)	1.084	-0.135	-0.197	2.348	1.481	9.917	0.433
Min Fz	156	5:D+W(Z)	0.000	0.176	-0.052	-3.024	0.189	10.859	0.346
Max Mx	189	5:D+W(Z)	0.000	5.262	-0.537	-0.505	5.463	9.549	15.976
Min Mx	375	5:D+W(Z)	0.000	5.467	0.531	-0.729	-5.616	14.221	-18.140
Max My	159	3:WIND(Z)	1.083	0.123	-0.180	1.920	1.493	16.306	1.955
Min My	157	5:D+W(Z)	0.000	-0.135	-0.197	2.342	1.481	-20.583	-2.125
Max Mz	106	4:D+W(X)	0.000	4.886	1.682	0.758	-2.419	13.343	21.338
Min Mz	375	5:D+W(Z)	0.250	5.466	0.531	-0.729	-5.616	12.033	-19.734



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Job No
50067831

Sheet No
42

Rev
0

Job Title **Meriden 5**

Part

Ref

By **MLS** Date **31-Aug-15** Chd

Client **Verizon Wireless**

File **False Chimney.std**

Date/Time **04-Sep-2015 10:14**

Reaction Summary

	Node	L/C	Horizontal	Vertical	Horizontal	Moment		
			FX (kip)	FY (kip)	FZ (kip)	MX (kip'in)	MY (kip'in)	MZ (kip'in)
Max FX	262	5:D+W(Z)	0.726	1.386	0.000	0.000	0.000	0.000
Min FX	258	5:D+W(Z)	-0.780	1.505	0.000	0.000	0.000	0.000
Max FY	95	5:D+W(Z)	-0.027	3.784	-0.403	0.000	0.000	0.000
Min FY	92	3:WIND(Z)	0.047	-2.908	-0.310	0.000	0.000	0.000
Max FZ	82	4:D+W(X)	-0.004	0.379	0.653	0.000	0.000	0.000
Min FZ	87	4:D+W(X)	-0.004	0.382	-0.654	0.000	0.000	0.000
Max MX	81	1:DEAD	-0.000	0.001	0.000	0.000	0.000	0.000
Min MX	81	1:DEAD	-0.000	0.001	0.000	0.000	0.000	0.000
Max MY	81	1:DEAD	-0.000	0.001	0.000	0.000	0.000	0.000
Min MY	81	1:DEAD	-0.000	0.001	0.000	0.000	0.000	0.000
Max MZ	81	1:DEAD	-0.000	0.001	0.000	0.000	0.000	0.000
Min MZ	81	1:DEAD	-0.000	0.001	0.000	0.000	0.000	0.000



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50067831

Sheet No
43

Rev
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Job Title **Meriden 5**

Part

Ref

By **MLS**

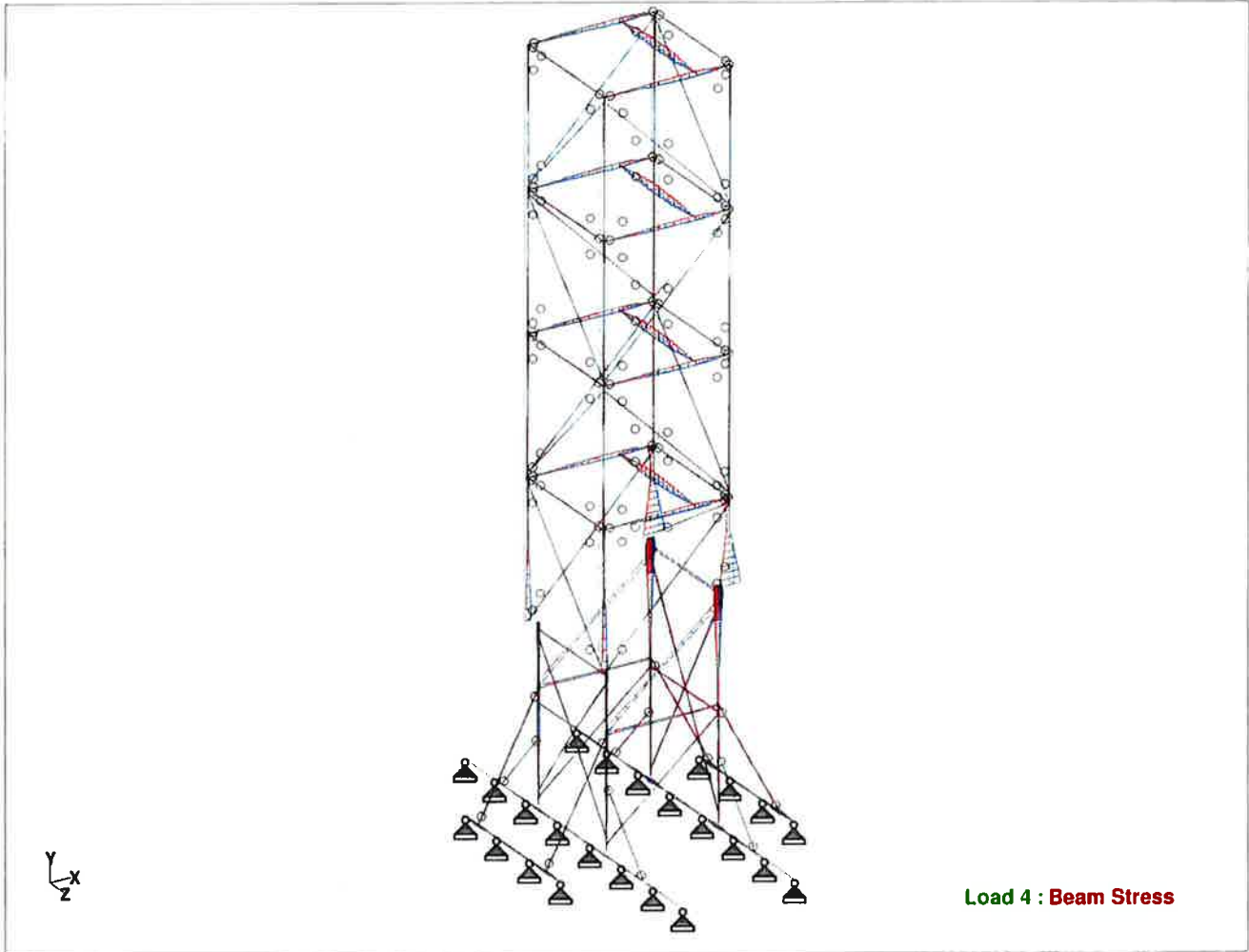
Date **31-Aug-15**

Chd

Client **Verizon Wireless**

File **False Chimney.std**

Date/Time **04-Sep-2015 10:14**



Stresses



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Job No
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Sheet No
44

Rev
0

Part

Job Title **Meriden 5**

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By **MLS**

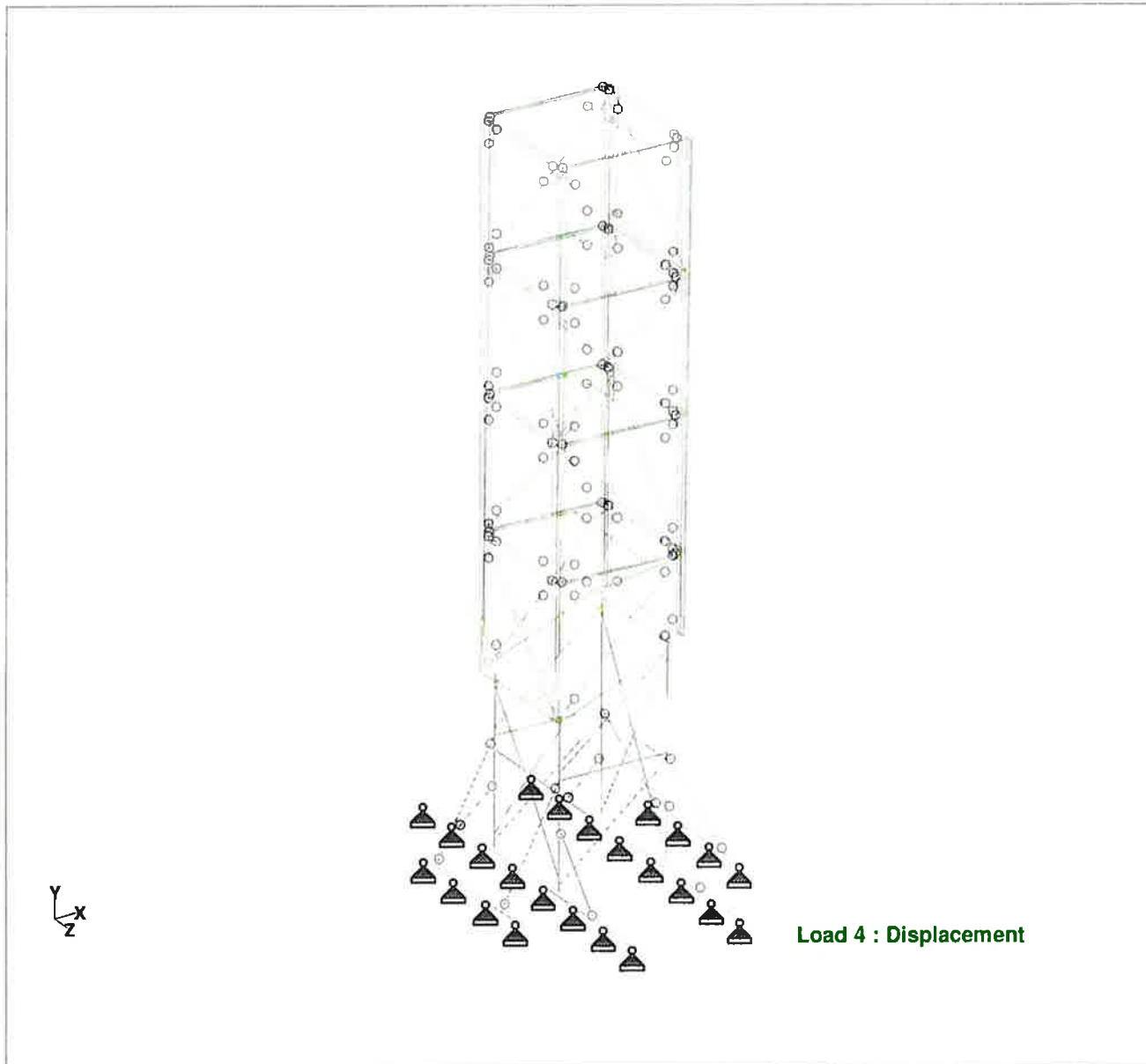
Date **31-Aug-15**

Chd

Client **Verizon Wireless**

File **False Chlmney.std**

Date/Time **04-Sep-2015 10:14**



Displacement

APPENDIX B – EQUIPMENT SPECIFICATIONS

ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2X60-1900 (BAND 2)

The Alcatel-Lucent RRH2x60-1900 is a high power, small form factor Remote Radio Head operating in the 1900MHz frequency band (3GPP Band 2) for WCDMA and LTE technologies. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart. The Alcatel-Lucent RRH2x60-1900 is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with

operations, administration and maintenance (OA&M) information.

SUPERIOR RF PERFORMANCES

The Alcatel-Lucent RRH2x60-1900 integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation for LTE.

For non-MIMO transmission the two RF chains can operate independently to provide access to two blocks of 20MHz each, anywhere in the band, which makes its perfect for RAN sharing.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

OPTIMIZED TCO

The Alcatel-Lucent RRH2x60-1900 is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures

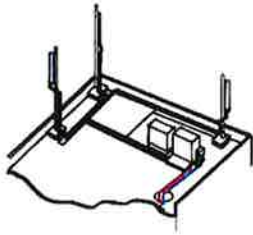
(CAPEX) and low operating expenditures (OPEX).

The Alcatel-Lucent RRH2x60-1900 is a very cost-effective solution to deploy LTE MIMO.

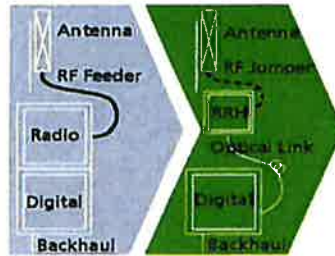
EASY INSTALLATION

The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-1900 installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

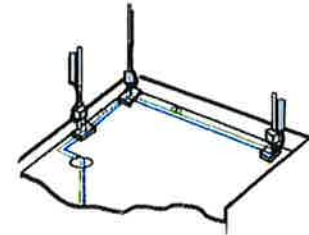
The Alcatel-Lucent RRH2x60-1900 is a zero-footprint solution and is convection cooled for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts. Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-1900 is compact and weighs less than 20 kg, eliminating the need for a crane to host the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- RRH2x60-1900 integrates two power amplifiers of 60W each at antenna connector
- RRH2x60-1900 can operate WCDMA, LTE or a mix of WCDMA and LTE
- RRH2x60-1900 offers the possibility for WCDMA (non MIMO) to operate the two radio chains independently (2 blocks of 20MHz anywhere in the band)
- RRH2x60-1900 is a very compact and lightweight product
- Advanced power management techniques are embedded to provide

TECHNICAL SPECIFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x183mm (26.6l)
- Weight : 19.5kg (43lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 110W for @1x20W; 250W @2x60W

RF Characteristics

- Frequency band: 1900 (3GPP band 2)
- Output power: 2x60W at antenna connectors
- Technologies supported: W-CDMA and

power savings, such as PA bias control or second PA path switch-off

BENEFITS

- MIMO deployment and/or WCDMA and LTE simultaneous operation with only one single unit per sector
- possibility to operate the radio-chains independently (2x20MHz anywhere in the band) addresses nearly all operators' spectrum configurations, which is especially useful in case of disaggregated spectrum or RAN sharing

LTE

- Instantaneous bandwidth: 20MHz (MIMO) or 2x20MHz (non MIMO)
- Rx diversity: 2-way uplink reception
- Typical sensitivity without Rx diversity (3GPP 25.104): -125.7 dBm for W-CDMA and -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisy-chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- 6 external alarms
- Surge protection for all external ports (DC and RF)

- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and silent solutions, with minimum impact on the neighborhood, which ease the deployment
- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-T

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089
- Safety : IEC60950-1, EN 60825-1
- Regulatory : CE Mark - European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

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Product Specifications



SBNHH-1D65B

Andrew® Tri-band Antenna, 1 x 698–896 MHz and 2 x 1710–2360 MHz, 65° horizontal beamwidth, Internal RET. Both high bands share the same electrical tilt.

Interleaved dipole technology providing for attractive, low wind load mechanical package

The values presented on this datasheet have been calculated based on N-P-BASTA White Paper version 9.6 by the NGMN Alliance

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1710–1880	1850–1990	1920–2180	2300–2360
Gain by all Beam Tilts, average, dBi	14.5	14.3	17.4	17.9	18.2	18.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.8	±0.4	±0.3	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 14.6	0° 14.5	0° 17.4	0° 17.8	0° 18.1	0° 18.2
	7° 14.6	7° 14.4	3° 17.5	3° 17.9	3° 18.3	3° 18.4
	14° 14.2	14° 13.6	7° 17.4	7° 17.9	7° 18.2	7° 18.4
Beamwidth, Horizontal, degrees	68	66	69	66	63	58
Beamwidth, Horizontal Tolerance, degrees	±2.2	±3.4	±2	±4.6	±5.7	±4.3
Beamwidth, Vertical, degrees	12.1	10.7	5.6	5.2	5.0	4.5
Beamwidth, Vertical Tolerance, degrees	±0.8	±1	±0.3	±0.2	±0.3	±0.2
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7
USLS, dB	16	14	16	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	26	26	26
CPR at Boresight, dB	22	23	21	20	20	22
CPR at Sector, dB	13	11	16	12	11	4
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® tri-band
Band	Multiband
Brand	DualPol® Teletilt®
Operating Frequency Band	1710 – 2360 MHz 698 – 896 MHz

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Interface	7-16 DIN Female

RF Connector Location	Bottom
RF Connector Quantity, total	6
Wind Loading, maximum	617.7 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Speed, maximum	241.4 km/h 150.0 mph

Dimensions

Depth	181.0 mm 7.1 in
Length	1828.0 mm 72.0 in
Width	301.0 mm 11.9 in
Net Weight	18.4 kg 40.6 lb

Remote Electrical Tilt (RET) Information

Annual Failure Rate, maximum	0.01%
Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	11.0 W
Protocol	3GPP/AISG 2.0 Multi-RET
RET Interface	RS-485 Female (daisy chain port .1) RS-485 Male (input port, 1)
RET Interface, quantity	1 female 1 male
RET System	Teletilt®

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



INCLUDED PRODUCTS



BSAMNT-1

Wide Profile Antenna Downtilt Mounting Kit for 2.5 - 4.5 in (64 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

APPENDIX C – PHOTOS FROM DESIGN VISIT

Meriden 5 Site Photos

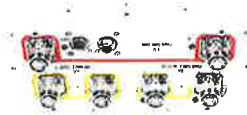
Existing Timber Truss in Attic



ATTACHMENT 4

SBNHH-1D65B

Andrew® Tri-band Antenna, 698–896 and 2x 1695–2360 MHz, 65° horizontal beamwidth, internal RET. Both high bands share the same electrical tilt.



- Interleaved dipole technology providing for attractive, low wind load mechanical package

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.9	14.7	17.7	18.2	18.6	18.6
Beamwidth, Horizontal, degrees	68	66	69	66	63	58
Beamwidth, Vertical, degrees	12.1	10.7	5.6	5.2	5.0	4.5
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7
USLS, dB	14	13	15	15	15	13
Front-to-Back Ratio at 180°, dB	27	29	28	28	28	27
CPR at Boresight, dB	20	23	20	20	17	21
CPR at Sector, dB	14	10	12	10	9	1
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.5	14.3	17.4	17.9	18.2	18.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.8	±0.4	±0.3	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 14.6	0° 14.5	0° 17.4	0° 17.8	0° 18.1	0° 18.2
	7° 14.6	7° 14.4	3° 17.5	3° 17.9	3° 18.3	3° 18.4
	14° 14.2	14° 13.6	7° 17.4	7° 17.9	7° 18.2	7° 18.4
Beamwidth, Horizontal Tolerance, degrees	±2.2	±3.4	±2	±4.6	±5.7	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±1	±0.3	±0.2	±0.3	±0.2
USLS, dB	16	14	16	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	26	26	26
CPR at Boresight, dB	22	23	21	20	20	22
CPR at Sector, dB	13	11	16	12	11	4

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® multiband with internal RET
Band	Multiband
Brand	DualPol® Teletilt®
Operating Frequency Band	1695 – 2360 MHz 698 – 896 MHz
Performance Note	Outdoor usage

Product Specifications

COMMSCOPE®

SBNHH-1D65B

POWERED BY



Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	6
Wind Loading, maximum	617.7 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Speed, maximum	241.4 km/h 150.0 mph

Dimensions

Depth	181.0 mm 7.1 in
Length	1851.0 mm 72.9 in
Width	301.0 mm 11.9 in
Net Weight	18.4 kg 40.6 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	13.0 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
RET System	Teletilt®

Packed Dimensions

Depth	299.0 mm 11.8 in
Length	1970.0 mm 77.6 in
Width	409.0 mm 16.1 in
Shipping Weight	31.0 kg 68.3 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



Included Products

Product Specifications

COMMSCOPE®

SBNHH-1D65B



BSAMNT-1 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

ALCATEL-LUCENT B13 RRH4X30-4R

Alcatel-Lucent B13 Remote Radio Head 4x30-4R is the newest addition of Remote Radio Head to the extended product line of Alcatel-Lucent's distributed Base Station solutions, aimed at facilitating smooth RF site acquisition and related civil engineering.

Supporting 2Tx/4Tx MIMO and 4-way Rx diversity, Alcatel-Lucent B13 RRH4x30-4R allows operators to have a compact radio solution to deploy LTE in the 700U band (700 MHz, 3GPP band 13), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.



The Alcatel-Lucent B13 RRH4x30-4R product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x60 W or 4x30 W RF output power. It supports also 4-way Rx diversity and up to 10MHz instantaneous bandwidth.

The Alcatel-Lucent B13 RRH4x30-4R is a near zero-footprint solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

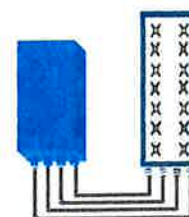
Its compactness and slim design makes the Alcatel-Lucent B13 RRH4x30-4R easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

FEATURES

- Supporting LTE in 700 MHz band (700U, 3GPP band 13)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- 10MHz LTE carrier with 4Rx Diversity
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

BENEFITS

- Compact to reduce additional footprint when adding LTE in 700U band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



4x30W with 4T4R
or
2x60W with 2T4R
Can be switched between
modes via SW w/o site
visit

TECHNICAL SPECIFICATIONS

Features & performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R by SW)
Frequency band	U700 (C) (3GPP bands 13): DL: 746 - 756 MHz / UL: 777 - 787 MHz
Instantaneous bandwidth - #carriers	10MHz – 1 LTE carrier (in 10MHz occupied bandwidth)
LTE carrier bandwidth	10 MHz
RF output power	2x60W or 4x30W (by SW)
Noise figure – RX Diversity scheme	2 dB typ. (<2.5 dB max) – 2 or 4 way Rx diversity
Sizes (HxWxD) in mm (in.)	550 x 305 x 230 (21.6" x 12.0" x 9") (with solar shield)
Volume in L	38 (with solar shield)
Weight in kg (lb) (w/o mounting HW)	26 (57.2) (with solar shield)
DC voltage range	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	550W typical @100% RF load (in 2Tx or 4TX mode)
Environmental conditions	-40°C (-40°F) / +55°C (+131°F)
Wind load (@150km/h or 93mph)	IP65 Frontal: <200N / Lateral : <150N
Antenna ports	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate7, 9.8 Gbps) SFP single mode dual fiber
AISG interfaces	1 AISG2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) – 4 RF Tx & 4 RF Rx monitor ports - 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27

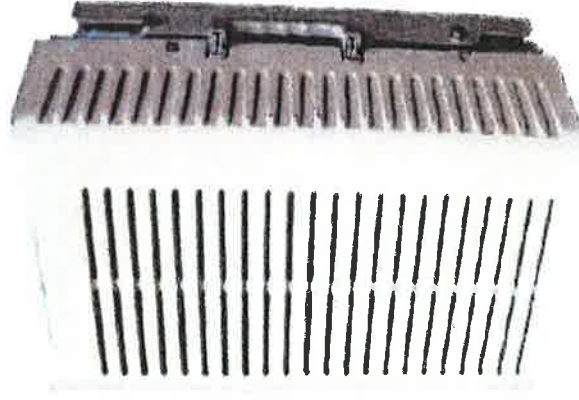
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PCS RF MODULES

RRH1900 2X60 - HW CHARACTERISTICS

LA6.0.1/13.3

	RRH2x60
RF Output Power	2x60W
Instantaneous Bandwidth	20MHz
Transmitter	2 TX
Receiver	1900 HW version 1900A HW version
Features	2 Branch RX – LA6.0.1 4 Branch RX – LR13.3 AISG 2.0 for RET/TMA Internal Smart Bias-T
Power	-48VDC
CPRI Ports	2 CPRI Rate 3 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (top mounted)

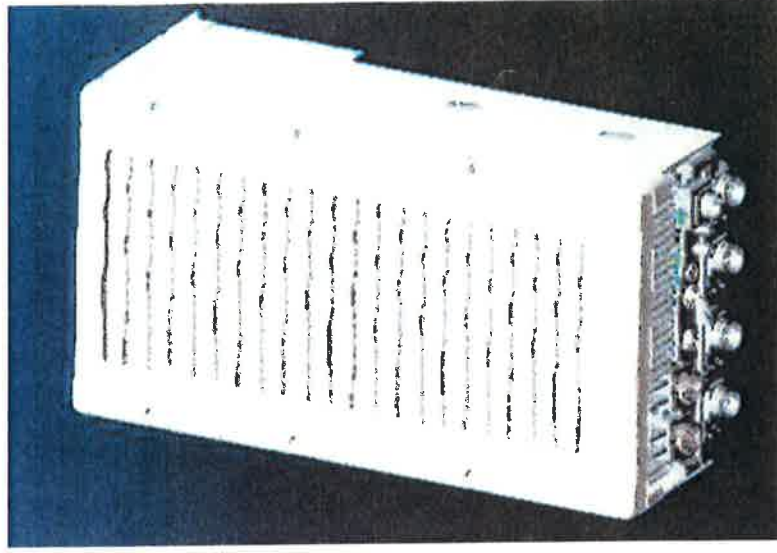


** Not a Verizon Wireless deployed product

NEW PCS RF MODULES FOR VZW RRH2X60 - HW CHARACTERISTICS

LR14.3

RRH2X60	
RF Output Power	2x60W (4x30W HW Ready)
Instantaneous Bandwidth	60MHz
Target Reliability (Annual Return Rate)	<2%
Receiver	4 Branch Rx
Features	AISG 2.0 for RET/TMA
Power	-48VDC Internal Smart Bias-T
CPRI Ports	2 CPRI Rate 5 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX, RX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (downward facing)
Dimensions	22"(h) x 12"(w) x 9.4" (d)**
Weight	55lb**



** - Includes solar shield but not mounting brackets (8 lbs.)

ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2X60-AWS FOR BAND 4 APPLICATIONS

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals

along with operations, administration and maintenance (OA&M) information.

SUPERIOR RF PERFORMANCE

The Alcatel-Lucent RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

OPTIMIZED TCO

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

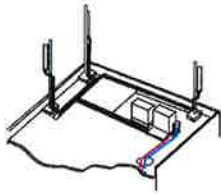
EASY INSTALLATION

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

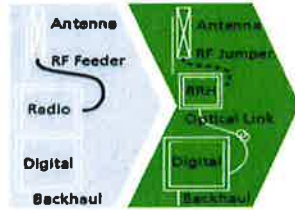
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

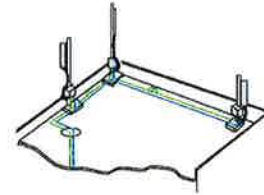
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

BENEFITS

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and

silent solutions, with minimum impact on the neighborhood, which ease the deployment

- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

TECHNICAL SPECIFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisy chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

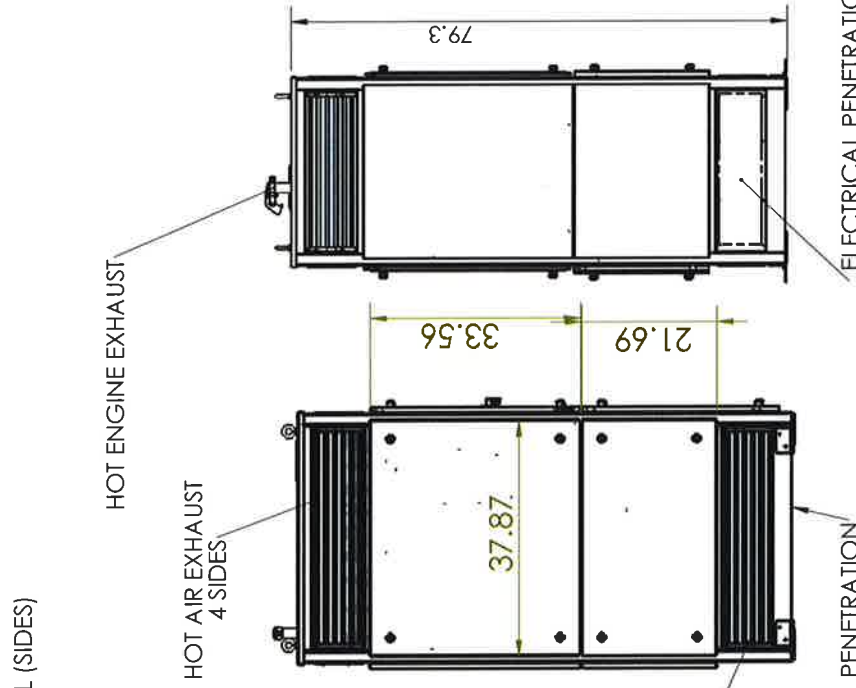
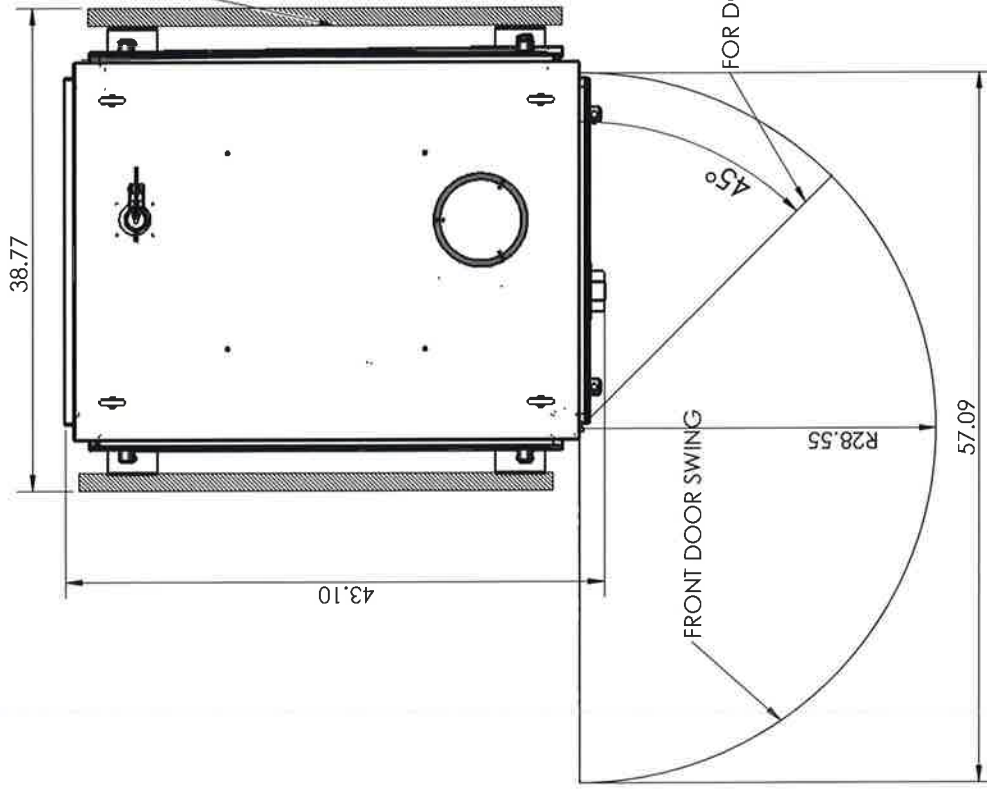
- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

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SERVICE AND OPERATION

88-25-0601 Aluminum Vertical Enclosure



AIR INTAKE
2 SIDES

FOR DOOR REMOVAL

RECOMMENDED ELECTRICAL PENETRATION:

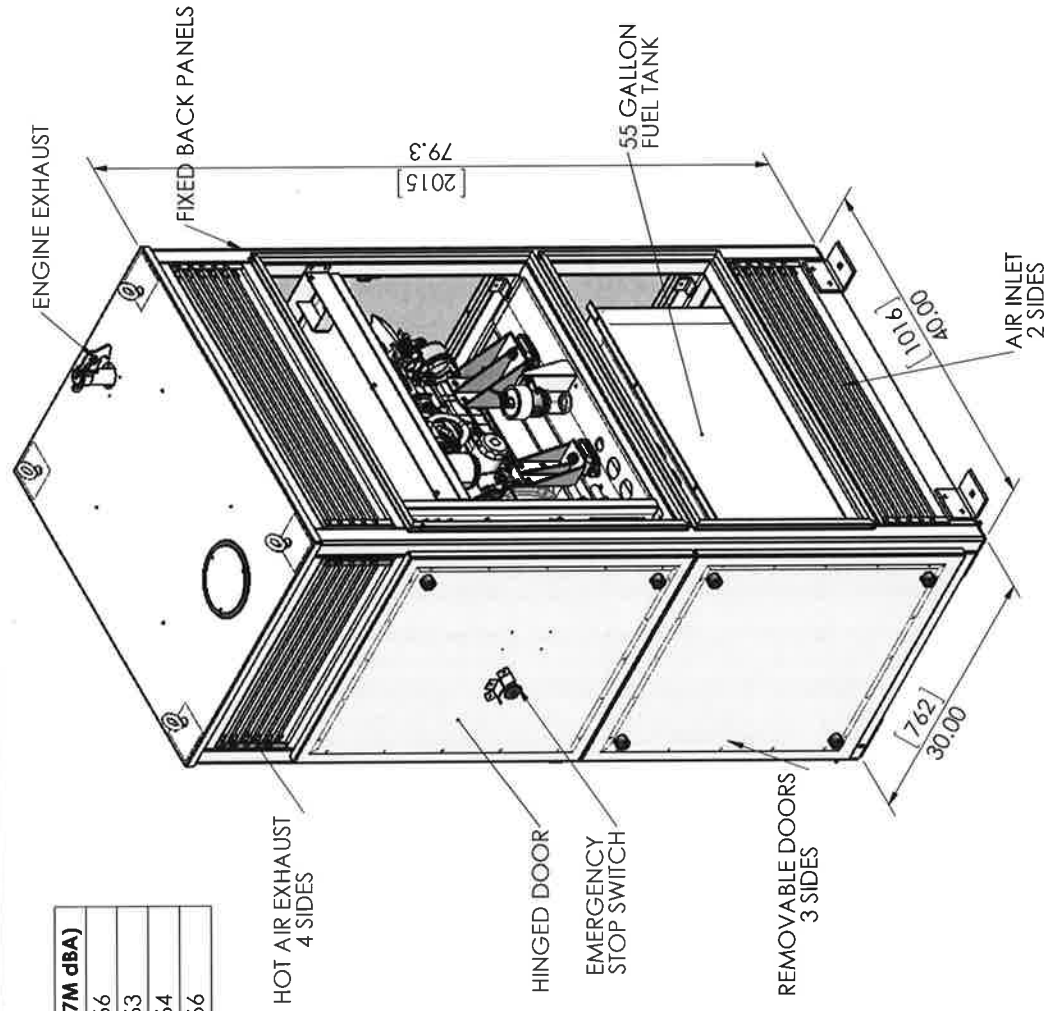
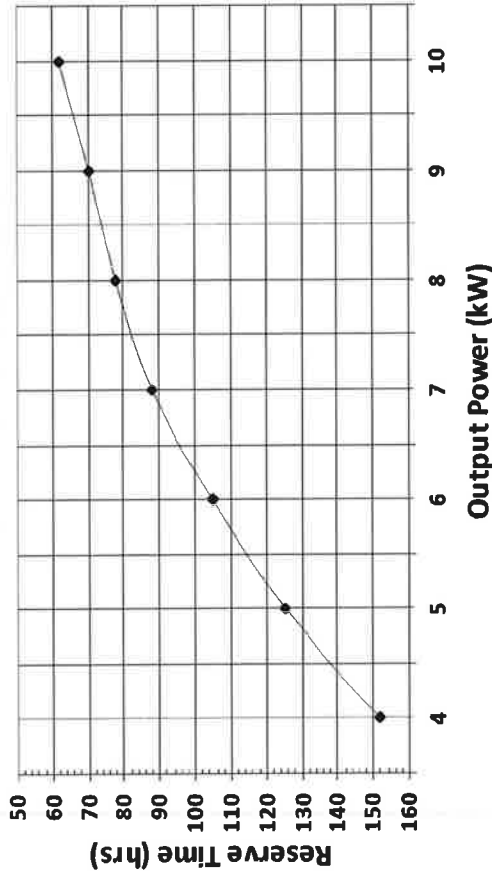
1. LOWER REAR REMOVABLE PANEL.
2. THROUGH FLOOR PANEL AS SHOWN

REV	DESCRIPTION	ECOM	BY	DATE	COMMENTS
INITIAL RELEASE		-			
					<p>DO NOT INSTALL INDOORS USE OPEN FRAME ASSY FOR INDOOR INSTALLATION</p> <p><small>PROPRIETARY AND CONFIDENTIAL</small> THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF POLAR POWER INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF POLAR POWER INC. IS PROHIBITED.</p>
					<p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 3/16" .0031" 1/16" 1/16" 1/16"</p>
					<p>CAD GENERATED DRAWING DO NOT MANUALLY UPDATE</p>
					<p>APPROVALS DRAWN: [] DATE: 02/19/13 CHECKED: [] ENG. APPR. [] MFG. APPR. []</p>
					<p>DO NOT SCALE DRAWING D.A.</p>
					<p>NOT ASST USED ON APPLICATION</p>
					<p>FINISH</p>
					<p>MATERIAL XXXXX0.010"</p>
					<p>SIZE DWG. NO. REV B 8340P-40415-001 A</p>
					<p>SCALE: 1:1 WEIGHT: SHEET 1 OF 3</p>
					<p>TITLE: 88-25-0601 AL Vertical Enclosure - Tall (VT)</p>
					<p>POLAR POWER INC. 22520 AVALON BLVD, CARSON, CA 90745</p>

SERVICE AND OPERATION

DIESEL GEN PART #	POWER (kW)	MAX ENGINE HP	MAX RPM	NOISE (7M dBA)
82201-3CA1	8-10	18.5	2600	66
82201-3CA1	5-6	11.5	1800	63
8080P-40205	4-5	11.0	2800	64
8340P-40415	14-17	28	2600	66

Reserve Time 55 Gallon Diesel



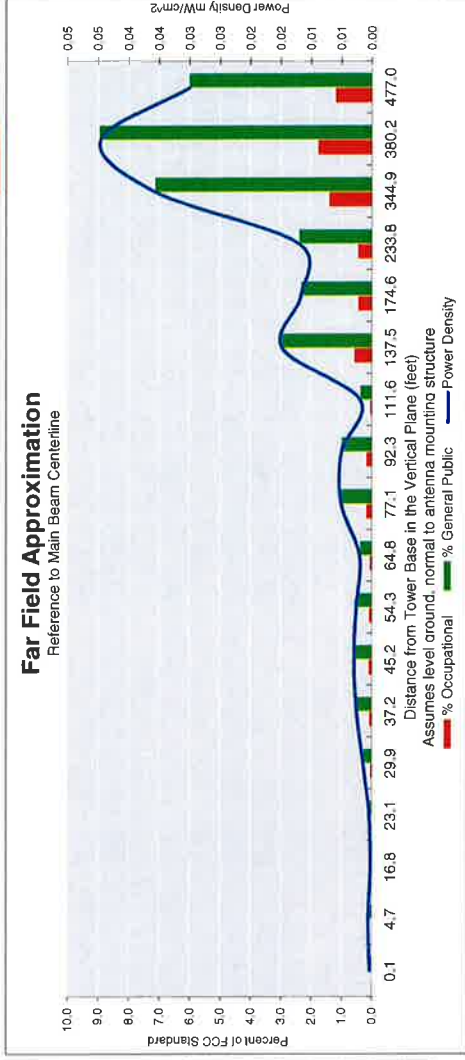
POLAR POWER INC. 2250 AVALON BLVD, CARSON, CA 90745		TITLE: AL Vertical Enclosure - Tall (VT)		REV A	
SIZE B		DWG. NO. 8340P-40415-001		SCALE: 1:1	
WEIGHT:		DATE: 02/19/13		SHEET 3 OF 3	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CAD GENERATED DRAWING: DO NOT MANUALLY UPDATE		APPROVALS:	
FRACTIONS: DECIMALS 1/16" 3/32" 1/8" 3/16" 1/4" 3/8" 1/2"		DRAWN: _____ CHECKED: _____ BIG APPR: _____ MFG APPR: _____		DATE: 02/19/13	
MATERIAL: ALUMINUM		NEW ASST: _____		USED ON: _____	
DO NOT SCALE DRAWING		APPLICATION: _____		Q.A.: _____	
COMMENTS: DO NOT INSTALL INDOORS USE OPEN FRAME ASSY FOR INDOOR INSTALLATION					
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF POLAR POWER INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF POLAR POWER INC. IS PROHIBITED.					
INITIAL RELEASE	DESCRIPTION	ECO#	BY	DATE	8

ATTACHMENT 5

**Estimated Radiated Emission
Single Emitter Far Field Model
Dipole/Wire/Yagi Antenna Types**



Location:	MERIDEN 5 CT
Site #:	2-0392
Date:	09/13/15
Name:	Jaime Laredo
File Name:	MERIDEN 5 CT - FF POWER (LTE-700).xlsx
Operating Freq. (MHz):	746.0
Antenna Height (ft):	70.0
Antenna Gain (dBi):	14.8
Antenna Size (in.):	72.0
Downtilt (degrees):	6.0
Feedline Loss (dB):	0.0
ERP (W):	1050.0
No. of Channels:	1



Calc Angle	90.0	86.0	76.0	71.0	66.0	61.0	56.0	51.0	46.0	41.0	36.0	31.0	26.0	21.0	16.0	11.0	10.0	8.0
Solve for r, dx to antenna	67.0	67.2	69.1	70.9	73.4	76.6	80.8	86.2	93.2	102.2	114.0	130.1	152.9	187.0	243.2	351.3	386.0	481.7
Distance from Antenna Structure Base in Horizontal plane	0.1	4.7	16.8	23.1	29.9	37.2	45.2	54.3	64.8	77.1	92.3	111.6	137.5	174.6	233.8	344.9	380.2	477.0
Angle from Main Beam (referenced to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
dB down from centerline (referenced to centerline)	36.76	34.35	38.52	35.34	29.54	26.8	25.59	25.63	25.99	21.21	20.29	23.24	13.03	12.3	9.92	2	0.2	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm²)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.03
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.6	0.5	0.5	1.4	1.8	1.2
Percent of General Population Standard	0.1	0.1	0.0	0.1	0.3	0.5	0.6	0.5	0.4	1.0	1.0	0.4	3.0	2.4	2.4	7.2	9.0	6.0

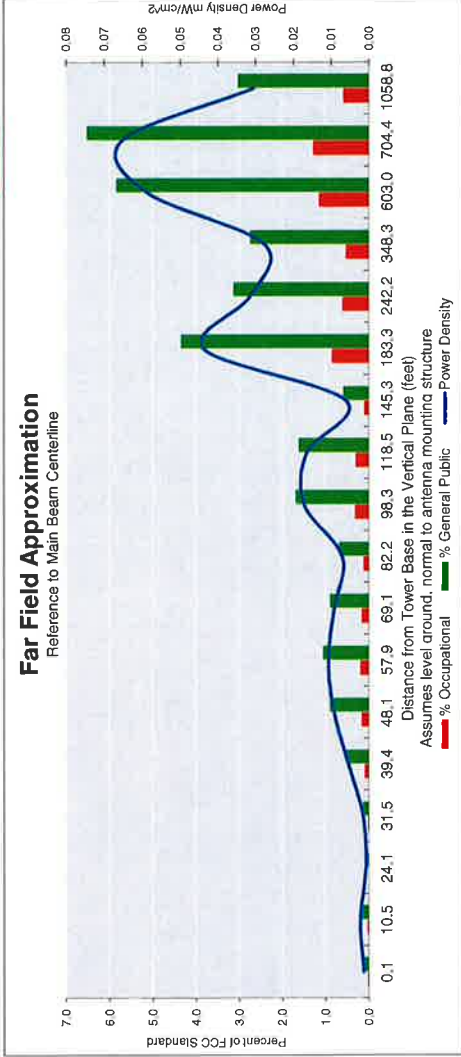
Antenna Type: 5BNHH-1D65B
Max%: 8.96%

Far Field Approximation
with downtilt variation

**Estimated Radiated Emission
Single Emitter Far Field Model
Dipole/Wire/Yagi Antenna Types**



Location:	MERIDEN 5 CT
Site #:	2-0992
Date:	09/13/15
Name:	Jaime Laredo
File Name:	MERIDEN 5 CT - FF POWER (LTE-AWS).xlsx
Operating Freq. (MHz):	2145.0
Antenna Height (ft):	77.0
Antenna Gain (dBi):	18.3
Antenna Size (in.):	72.0
Downtilt (degrees):	2.0
Feedline Loss (dB):	0.0
ERP (W):	2306.5
No. of channels	1



Calc Angle	90.0	82.0	72.0	67.0	62.0	57.0	52.0	47.0	42.0	37.0	32.0	27.0	22.0	17.0	12.0	7.0	6.0	4.0
Solve for r, dx to antenna	74.0	74.7	77.6	80.4	83.8	88.3	93.9	101.2	110.6	123.0	139.7	163.1	197.6	253.2	356.1	607.5	708.3	1061.4
Distance from Antenna Structure Base in Horizontal plane	0.1	10.5	24.1	31.5	39.4	48.1	57.9	69.1	82.2	98.3	118.5	145.3	183.3	242.2	348.3	603.0	704.4	1058.8
Angle from Main Beam (referenced to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	2
dB down from centerline (referenced to centerline)	36.76	34.35	38.52	35.34	29.54	26.8	25.59	25.63	25.99	21.21	20.29	23.24	13.03	12.3	9.92	2	0.2	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.04	0.03	0.03	0.06	0.07	0.03
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.3	0.3	0.1	0.9	0.6	0.6	1.2	1.3	0.6
Percent of General Population Standard	0.1	0.2	0.1	0.2	0.5	0.9	1.1	0.9	0.7	1.7	1.6	0.6	4.4	3.1	2.8	5.9	6.5	3.0

Antenna Type: 58NHH-1D65B
Max%: 6.53%

ATTACHMENT 6

September 25, 2015

Via Certificate of Mailing

Manuel A. Santos, Mayor
City Hall
142 East Main Street
Meriden, CT 06450

Re: **Proposed Modifications to Telecommunications Facility at 234 Sherman Avenue,
Meriden, Connecticut**

Dear Mayor Santos:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a wireless telecommunications small cell facility at 234 Sherman Avenue in Meriden (the “Property”). Cellco plans to install two (2) towers on the roof of the building, supporting a total of six (6) antennas. Each tower and related antennas will be concealed inside a faux chimney designed to match the existing structure. Equipment associated with Cellco’s antennas will be located inside the building. A back-up generator will be installed on the ground in a rear courtyard at the site.

As presented in the Sub-Petition, the proposed “small cell” facility improvements at the Property constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of this Sub-Petition.

14070763-v1


Robinson + Cole

Manuel A. Santos
September 25, 2015
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

September 25, 2015

Via Certificate of Mailing

Dominick Caruso, City Planner
City Hall
142 East Main Street
Meriden, CT 06450

**Re: Proposed Modifications to Telecommunications Facility at 234 Sherman Avenue,
Meriden, Connecticut**

Dear Mr. Caruso:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a wireless telecommunications small cell facility at 234 Sherman Avenue in Meriden (the “Property”). Cellco plans to install two (2) towers on the roof of the building, supporting a total of six (6) antennas. Each tower and related antennas will be concealed inside a faux chimney designed to match the existing structure. Equipment associated with Cellco’s antennas will be located inside the building. A back-up generator will be installed on the ground in a rear courtyard at the site.

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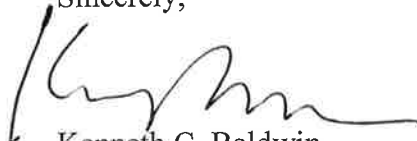
Robinson + Cole

Dominick Caruso
September 25, 2015
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenneth C. Baldwin', written over a light blue horizontal line.

Kenneth C. Baldwin

Attachment

September 25, 2015

Via Certificate of Mailing

234 Sherman LLC
c/o Eagle Rock Management
1670 Old Country Road, Suite 227
Plainview, NY 11803

Re: **Proposed Modifications to Telecommunications Facility at 234 Sherman Avenue,
Meriden, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a wireless telecommunications small cell facility at 234 Sherman Avenue in Meriden (the “Property”). Cellco plans to install two (2) towers on the roof of the building, supporting a total of six (6) antennas. Each tower and related antennas will be concealed inside a faux chimney designed to match the existing structure. Equipment associated with Cellco’s antennas will be located inside the building. A back-up generator will be installed on the ground in a rear courtyard at the site.

As presented in the Sub-Petition, the proposed “small cell” facility improvements at the Property constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of this Sub-Petition.

Robinson + Cole

234 Sherman LLC
September 25, 2015
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

ATTACHMENT 7

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

September 25, 2015

Via Certificate of Mailing

«Name_and_Address»

Re: **Sub-Petition for Declaratory Ruling Filed with the Connecticut Siting Council for Modifications to a Telecommunications Facility at 234 Sherman Avenue, Meriden, Connecticut**

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a wireless telecommunications small cell facility at 234 Sherman Avenue in Meriden (the “Property”). Cellco plans to install two (2) towers on the roof of the building, supporting a total of six (6) antennas. Each tower and related antennas will be concealed inside a faux chimney designed to match the existing structure. Equipment associated with Cellco’s antennas will be located inside the building. A back-up generator will be installed on the ground in a rear courtyard at the site.

The facility improvements constitute a eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review.

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the Sub-Petition.

September 25, 2015
Page 2

This notice is being sent to you because you are listed as an owner of land that abuts the Property. If you have any questions regarding the Sub-Petition, the Council's process for reviewing the Sub-Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

234 SHERMAN AVENUE, MERIDEN, CONNECTICUT

	Property Address	Owner's and Mailing Address
1.	260 Sherman Avenue	City of Meriden Fire Station 168 Chamberlain Highway Meriden, CT 06451
2.	243 Sherman Avenue	Martin Sanchez 243 Sherman Avenue Meriden, CT 06450
3.	239 Sherman Avenue	Emilia Serate 239 Sherman Avenue Meriden, CT 06450
4.	235 Sherman Avenue	Charlie Santiago 235 Sherman Avenue Meriden, CT 06450
5.	231 Sherman Avenue	Harold J. Reed and Jean Miller Reed 233 Sherman Avenue Meriden, CT 06450
6.	227 Sherman Avenue	Randy B. Reynolds 3 Fols Avenue Meriden, CT 06450
7.	223 Sherman Avenue	Jaime Ramos Perales P.O. Box 2087 Meriden, CT 06450
8.	217 Sherman Avenue	Claudia Sanchez Lopez and Luis Librado Lemus 217 Sherman Avenue Meriden, CT 06450
9.	216 Sherman Avenue	David Gonzalez 216 Sherman Avenue Meriden, CT 06450

	Property Address	Owner's and Mailing Address
10.	63 Putnam Street	Raul F. and Maria Perez 63 Putnam Street Meriden, CT 06450
11.	69 Putnam Street	Mary P. Service 24 Jerome Avenue Meriden, CT 06450
12.	253 Britannia Street	Carole A. Gura 253 Britannia Street Meriden, CT 06450
13.	252 Britannia Street	City of Meriden 142 East Main Street Meriden, CT 06450
14.	262 Britannia Street	Jose A. Vazquez 262 Britannia Street Meriden, CT 06450
15.	274 Britannia Street	Carmen Pizzuti 274 Britannia Street Meriden, CT 06450
16.	278 Britannia Street	Brittany Court Condo c/o Wayne C. Fogg 23 Hampton Trail Wallingford, CT 06492
17.	292 Britannia Street	Spruce Hollow Condo Association, Inc. c/o Ennis Property Management 97 East Main Street, Suite 2-F Meriden, CT 06450