



Via Overnight Delivery

April 4, 2014

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Request to Amend a Previously Approved Tower Share Application
Property Address: 50 Devine Street, North Haven, CT 06473 (the "Property")
Applicant: New Cingular Wireless PCS, LLC d/b/a AT&T ("AT&T")

Dear Ms. Bachman:

On behalf of AT&T, please accept this correspondence as a request to amend a previously approved tower share installation. Enclosed please find an original and fifteen (15) copies of the correspondence package along with a check in the amount of six hundred and twenty five (\$625.00) dollars.

On November 7, 2013 AT&T submitted an application to the Connecticut Siting Council (the "Council") for an order to approve the shared use of an existing tower and compound on the Property (the "Tower" and collectively, the "Facility"), pursuant to Connecticut General Status § 16-50aa, as amended (the "Statute"). During its hearing on December 12, 2013, the Council approved AT&T's shared use application. Subsequently, the Council issued the approval order on December 13, 2013 (see Tab 1 attached herewith).

AT&T requests to revise its previously approved installation as follows:

- Panel Antennas (no change):
 - Previous Design: Twelve (12), eight foot (8') panel antennas
 - Revised Design: Twelve (12), eight foot (8') panel antennas
 - Note that the number and size of the antennas has not changed but their models have (see attached structural analysis)

- Remote Radio Head:
 - Previous Design: 18
 - Revised Design: 27

- Equipment Shelter
 - Previous Design: 11.5' x 16'
 - Revised Design: 11.5' x 16'

- Structural Analysis Conclusion:
 - Previous Design: "the pole and foundation have sufficient capacity..."
 - Revised Design: "the pole and foundation have sufficient capacity..."

- Power Density Calculations:
 - Previous Design:
 - AT&T's MPE: 11.85%
 - Total MPE: 20.73%
 - Revised Design
 - AT&T's MPE: 13.42%
 - Total MPE: 22.3%

AT&T's proposed revisions to its previously approved shared use installation continue to meet all of the requirements set forth in the Statute. AT&T's revised design is technically, legally, economically and environmentally feasible, will meet public safety concerns, will avoid the unnecessary proliferation of towers and is in the public interest. Consequently, AT&T respectfully requests that the Council issue an order approving the proposed sharing use of the Facility.

Sincerely,


Steven J. Quinn

Enclosures

Cc w/enclosurers:

Honorable Michael J. Freda: First Selectman, Town of North Haven, CT
Betsy Henley-Cohn, 424 Chapel Street, LLC: Property Owner

A REQUEST TO THE CONNECTICUT SITING COUNCIL
TO REVISED A PREVIOUSLY APPROVED
APPLICATION FOR A SHARED USE OF AN EXISTING TOWER

APPLICANT

New Cingular Wireless PCS, LLC (AT&T)
500 Enterprise Drive, Suite 3A
Rocky Hill, CT 06067

TOWER/PROPERTY ADDRESS

50 Devine Street
North Haven, Connecticut 06473

PREPARED BY: Steven J. Quinn
Real Estate and Land Use Specialist
Smartlink, LLC
33 Boston Post Road West
Marlborough, Massachusetts 01752
774-219-8022
steven.quinn@smartlinkllc.com

Date Submitted: April 4, 2014

TABLE OF CONTENTS

APPLICANT

New Cingular Wireless PCS, LLC (AT&T)
500 Enterprise Drive, Suite 3A
Rocky Hill, CT 06067

TOWER/PROPERTY ADDRESS

50 Devine Street
North Haven, Connecticut 06473

Tower Share Approval	Tab 1
Certificate of Service	Tab 2
Engineering Drawings	Tab 3
Structural Analysis	Tab 4
Memorandum of Lease	Tab 5
Power Density Calculations	Tab 6

SMARTLINK, LLC
1997 Annapolis Exchange Pkwy Suite 200
Annapolis, MD 21401

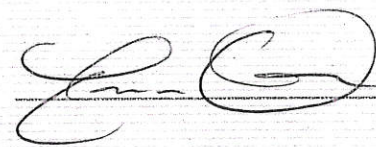
BRANCH BANKING AND TRUST COMPANY
65-330/550

0386

3/26/14

PAY TO THE ORDER OF Connecticut Siting Council \$ 625.00
Six hundred twenty-five ⁰⁰/₁₀₀ MP DOLLARS

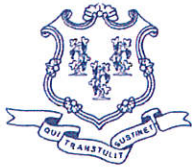
MEMO S3506 DE Siting Council Fee

 MP

⑈000386⑈ ⑆055003308⑆0005158694044⑈

© 2011 INTUIT INC. # 614 1-800-433-8810

TAB 1



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

December 13, 2013

Adam F. Braillard
Regional Land Use Manager
Smartlink, LLC
33 Boston Post Road West
Marlborough, MA 01752

RE: **TS-AT&T-101-131108** - New Cingular Wireless PCS, LLC (AT&T) Request for an Order to Approve the Shared Use of an Existing Telecommunications Facility located at 50 Devine Street, North Haven, Connecticut.

Dear Mr. Braillard:

At a public meeting held December 12, 2013, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the following conditions:

- Any deviation from the proposed installation as specified in the original tower share request and supporting materials with the Council shall render this decision invalid;
- Any material changes to the proposed installation as specified in the original tower share request and supporting materials filed with the Council shall require an explicit request for modification to the Council pursuant to Connecticut General Statutes § 16-50aa, including all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65;
- Not less than 45 days after completion of the proposed installation, the Council shall be notified in writing that the installation has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

This decision is under the exclusive jurisdiction of the Council. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated November 7, 2013, including the placement of all necessary equipment and shelters within the tower compound.

Thank you for your attention and cooperation.

Very truly yours,


Robert Stein
Chairman

RS/CDM/laf

c: The Honorable Michael J. Freda, First Selectman, Town of North Haven
Arthur Hausman, Zoning Enforcement Officer, Town of North Haven
Florida Tower Partners
Betsy Henley-Cohn, Property Owner



TAB 2

CERTIFICATE OF SERVICE

This is to certify that on the 4th day of April, 2014, the foregoing application by AT&T for an Order to Amend an Approved Shared Use of an Existing Tower was sent, via UPS, to the following:

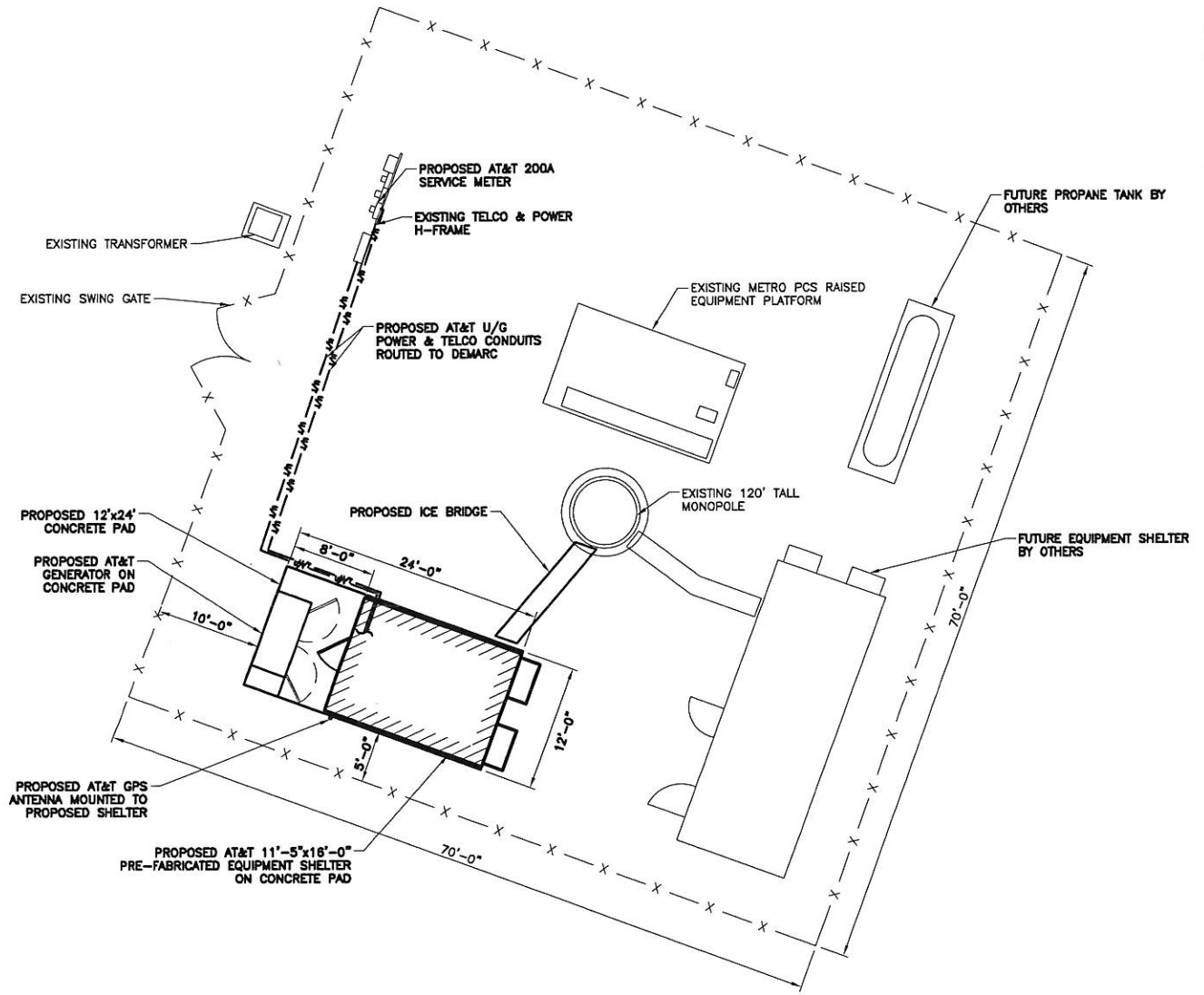
Honorable Michael J. Freda:
First Selectman Town of North Haven, CT
18 Church Street
North Haven, CT 06473
(203) 239-5321

and

Betsy Henley-Cohn
424 Chapel Street, LLC
50 Devine Street
North Haven, CT 06473
(203) 467-1759

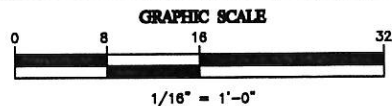
By: 
Steven J. Quinn

TAB 3



NOTE:
 ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE STRUCTURAL AND RF ENGINEERS.

SITE PLAN



APPROX. NORTH

EBC Consulting
environmental engineering | due diligence
 21 B Street
 Burlington, MA 01803
 Tel: 781.273.2500
 Fax: 781.273.3311
 www.ebcconsulting.com
 EBC JOB NO.: 81130836

smartlink
 1197 ANNAPOLIS EXCHANGE PARKWAY, SUITE 299
 ANNAPOLIS, MD 21401

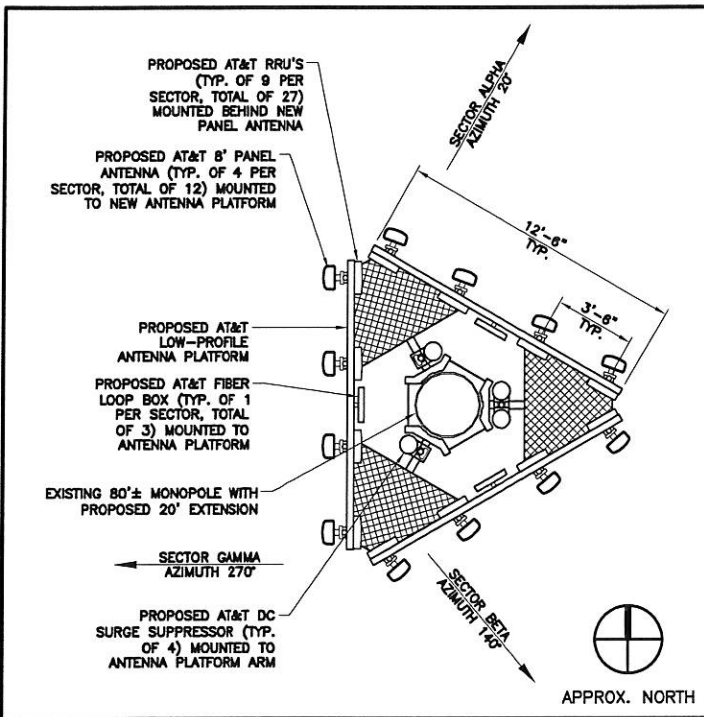
at&t
 Mobility
 550 COCHITUAUET ROAD
 SUITE 13 & 14
 FRAMINGHAM, MA 01701

SITE INFO:
NORTH HAVEN - DEVINE STREET S3506A
 50 DEVINE STREET
 NORTH HAVEN, CT 06473

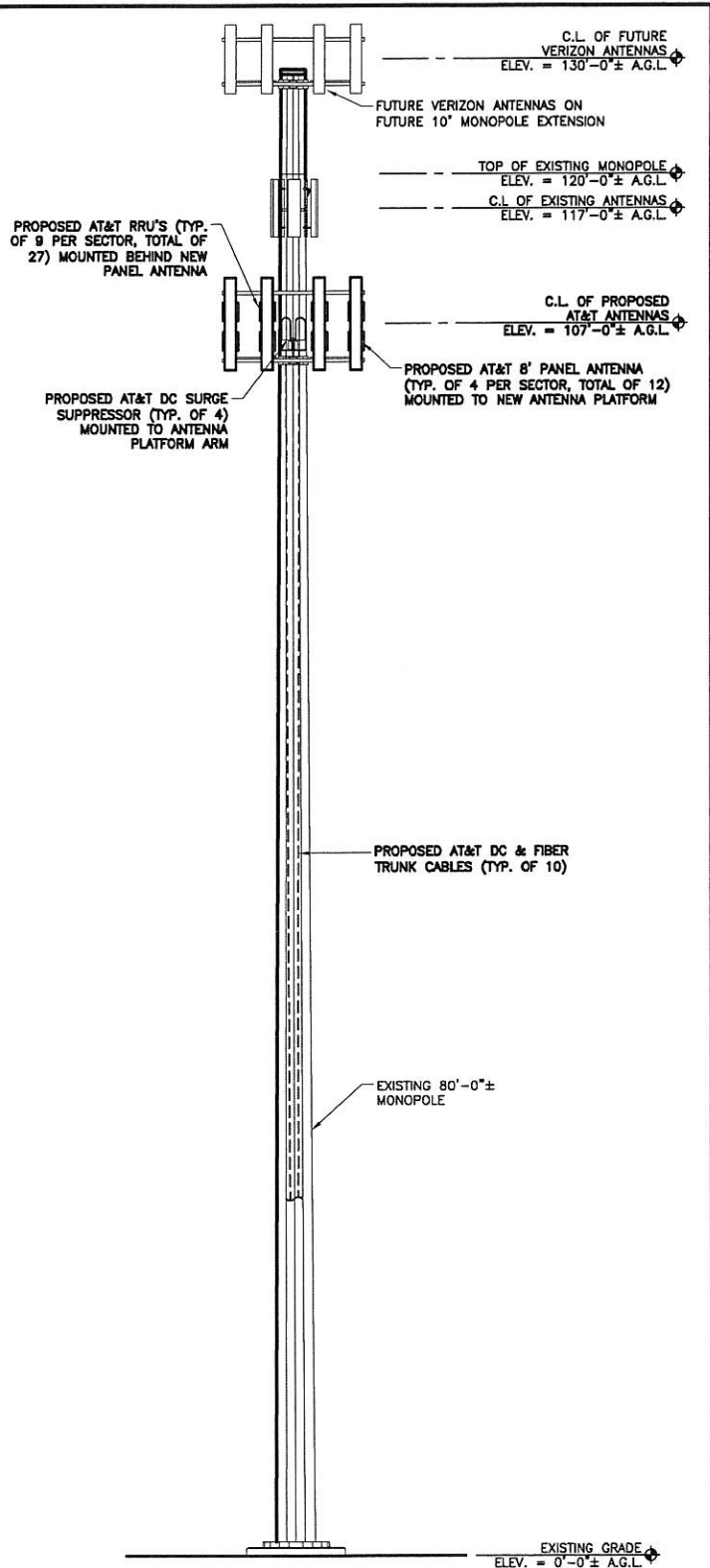
SUBMITTALS			
NO.	DATE	DESCRIPTION	BY
1	10/08/13	FOR REVIEW	CL
2	10/24/13	PER COMMENTS	JT
3	02/07/14	ADDITIONAL RRU'S	KO

DRAWN BY: CL
 CHECKED BY: DD
 DATE: 10/08/13

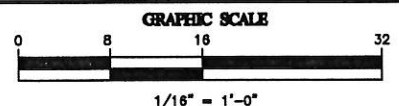
SHEET NO:
LE-1



PROPOSED ANTENNA PLAN



TOWER ELEVATION



NOTE:
ALL EQUIPMENT LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO APPROVAL BY LESSEE/LICENSEE STRUCTURAL AND RF ENGINEERS.

EBC Consulting
environmental | engineering | due diligence
21 B Street
Burlington, MA 01803
Tel: 781.273.2500
Fax: 781.273.3311
www.ebiconsulting.com
EBC JOB NO.: 81130836

smartlink
1197 ANNAPOLIS EXCHANGE PARKWAY, SUITE 299
ANNAPOLIS, MD 21401

at&t
Mobility
550 COCHITUATE ROAD
SUITE 13 & 14
FRAMINGHAM, MA 01701

SITE INFO:
NORTH HAVEN - DEVINE STREET S3506A
50 DEVINE STREET
NORTH HAVEN, CT 06473

SUBMITTALS			
NO.	DATE	DESCRIPTION	BY
1	10/08/13	FOR REVIEW	CL
2	10/24/13	PER COMMENTS	JT
3	02/07/14	ADDITIONAL RRU'S	KO

DRAWN BY: CL	SHEET NO: LE-2
CHECKED BY: DD	
DATE: 10/08/13	

TAB 4

Structural Analysis 130-ft Monopole

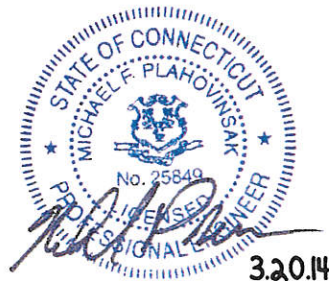
Prepared For:
Florida Tower Partners, LLC
1001 3rd Ave. West, Suite 420
Bradenton, FL 34205

MFP Project #40913-015 r3

Site Location:
CT1003 North Haven
New Haven Co., Connecticut
Lat/Long: 41°22'40.1", -72°52'34.1"

Analysis Type:
ANSI/TIA-222-G

March 20, 2014



Michael F. Plahovinsak, P.E.
18301 State Route 161 W, Plain City, OH 43064
614-398-6250 - mike@mfpeng.com

Project Summary:

We have completed a structural analysis of the existing monopole for the proposed configuration:

AT&T - 107' - (12) CCI HPA-65R-BUU-H8 Panel
 (9) Ericsson RRUS-11 + (6) RRUS-12 + (6) RRUS-32 + (6) RRUS-A2
 (4) Raycap DC6-48-60-18-8F Suppressors
 (8) ¾" + (2) ½" + (3) 3/8" Cable / 12' T-Arm Mounts

The pole has been analyzed in accordance with the requirements of the **2006 - 2012 International Building Code**, and the recommendations of the Telecommunications Industry Association "*Structural Standard for Steel Antenna Supporting Structures*" **ANSI/TIA-222-G**.

This analysis may be considered a "Rigorous Structural Analysis" as defined in ANSI/TIA-222-G 15.5.2.

As indicated in the conclusions of this analysis, we have determined that the existing pole and foundation have *sufficient capacity* to support the existing, reserved and proposed antenna loads as detailed herein. Based on the results of our analysis, structural modifications are not required at this time.

Source of Data:

Resource	Source	Job Number	Date
Pole and Foundation Drawings	Sabre Towers	11-05062	05/12/10
Geotechnical Report	Terracon	J2105136	04/20/10

Analysis Criteria:

International Building Code (All Versions) Section 3108.4
 Structural Standards for Steel Antenna Supporting Structures **ANSI/TIA-222-G 2**

- Basic Wind Speed 115 mph (3-Sec Gust)
- Basic Wind Speed w/ ¾" Ice 50 mph (3-Sec Gust)
- Operational Wind Speed 60 mph (3-Sec Gust)

Structure Class	Exposure Category	Topographic Category
II (I = 1.0)	C	I

Michael F. Plahovinsak, P.E. - 2014

Appurtenance Listing:

Status	Elev.	Antenna / Mounting	Coax	Owner
Existing	130'	(1) Antel BXA-70080/6CF + (1) BXA-80080/6CF (4) Antel BXA-70063/6CF + (6) BXA-171063/12CF (6) Lucent 2x40 RRH's & (1) Distribution Box 12' Low Profile Platform	(12) 1 5/8"	Verizon
Existing	117'	(6) Andrew HBX-6516DS Panel 12' T-Arm Mounts	(12) 1 5/8"	MetroPCS
<i>Proposed</i>	107'	<i>(12) CCI HPA-65R-BUU-H8 Panel</i> <i>(9) RRUS-11 + (6) RRUS-12 + (6) RRUS-32 + (6) RRUS-A2</i> <i>(4) Raycap DC6-48-60-18-8F Suppressor</i> 12' T-Arm Mounts	<i>(8) 3/4" +</i> <i>(2) 1/2" +</i> <i>(3) 3/8"</i>	<i>AT&T</i>

All antenna lines assumed internally mounted, not exposed to the wind.

Foundation Analysis:

The existing monopole foundation design was analyzed in conjunction with site specific geotechnical report. The existing foundation has sufficient capacity to support the pole with the proposed antenna configuration.

Conclusion:

We have completed a structural analysis of the existing monopole and foundation in accordance with the project specifics outlined above. Our analysis indicates that the existing monopole and foundation is stressed to a maximum of 77.0% of its usable capacity when considering the existing plus proposed loading. Please refer to the attached calculations for an itemized listing of all member stress ratios. The existing pole is safe and adequate to support the proposed loads, and no structural reinforcing is required to support the above loading.

If you have any questions about the contents of this structural report or require any additional information, please feel free to contact my office.

Sincerely,

Michael F. Plahovinsak, P.E.



mike@mfpeng.com - 614.398-6250

Michael F. Plahovinsak, P.E. - 2014

mike@mfpeng.com

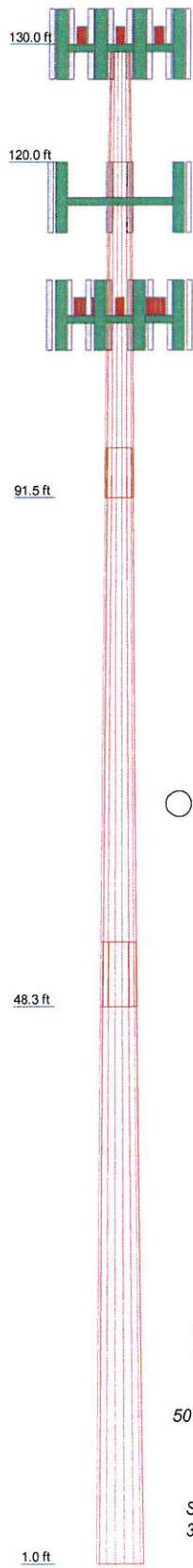
Standard Conditions for Providing Structural Consulting Services on Existing Structures

1. The following standard conditions are a general overview of key issues regarding the work product supplied.
2. If the existing conditions are not as represented in this structural report or attached sketches, we should be contacted to evaluate the significance of the deviation and revise the structural assessment accordingly.
3. The structural analysis has been performed assuming that the structure is in "like new" condition. No allowance was made for excessive corrosion, damaged or missing structural members, loose bolts, etc. If there are any known deficiencies in the structure that potentially compromise structural integrity, we should be made aware of the deficiencies. If we are aware of a deficiency that exists in a structure at the time of our analysis, a general explanation of the structural concern due to the deficiency will be included in the structural report, but the deficiency will not be reflected in capacity calculations.
4. The structural analysis provided is an assessment of the primary load carrying capacity of the structure. We provide a limited scope of service in that we have not verified the capacity of every weld, plate, connection detail, etc. In most cases, structural fabrication details are unknown at the time of our analysis, and the detailed field measurement of this information is beyond the scope of our services. In instances where we have not performed connection capacity calculations, it is assumed that existing manufactured connections develop the full capacity of the primary members being connected.
5. The structural integrity of the existing foundation system can only be verified if exact foundation sizes and soils conditions are known. We will not accept any responsibility for the adequacy of the existing foundations unless this site-specific data is supplied.
6. Miscellaneous items such as antenna mounts, coax supports, etc. have not been designed, detailed, or specified as part of our work. It is assumed that material of adequate size and strength will be purchased from a reputable component manufacturer. The attached report and sketches are schematic in nature and should not be used to fabricate or purchase hardware and accessories to be attached to the structure. We recommend field measurement of the structure before fabricating or purchasing new hardware and accessories. We are not responsible for proper fit and clearance of hardware and accessory items in the field.
7. The structural analysis has been performed considering minimum code requirements or recommendations. If alternate wind, ice, or deflection criteria are to be considered, then We shall be made aware of the alternate criteria.

Michael F. Plahovinsak, P.E. - 2014

mike@mfpeng.com

Section	1	2	3	4	
Length (ft)	10.00	28.50	47.50	52.75	
Number of Sides	18	18	18	18	
Thickness (in)	0.1875	0.2500	0.3750	0.4375	
Socket Length (ft)		4.25	5.50	36.8775	
Top Dia (in)	20.9000	23.1600	28.1396	36.8775	
Bot Dia (in)	23.1600	29.6000	38.8700	48.8000	
Grade			A572-65		
Weight (K)	0.4	2.0	6.4	10.6	19.4



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(2) Antel BXA-70063/6CF w/ mount pipe (Verizon)	130	12' T-Arm Mounts (MetroPCS)	117
(2) Antel BXA-171063/12CF w/ mount pipe (Verizon)	130	(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	107
(2) Lucent 2x40 RRH (Verizon)	130	(3) Ericsson RRUS-11 (ATT)	107
(2) Antel BXA-70063/6CF w/ mount pipe (Verizon)	130	(2) Ericsson RRUS 12 (ATT)	107
(2) Antel BXA-171063/12CF w/ mount pipe (Verizon)	130	(2) Ericsson RRUS-32 (ATT)	107
(2) Lucent 2x40 RRH (Verizon)	130	(2) Ericsson RRUS A2 (ATT)	107
Antel BXA-70080-6CF w/ mount pipe (Verizon)	130	(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	107
Antel BXA-80080/6CF w/ mount pipe (Verizon)	130	(3) Ericsson RRUS-11 (ATT)	107
(2) Antel BXA-171063/12CF w/ mount pipe (Verizon)	130	(2) Ericsson RRUS 12 (ATT)	107
(2) Lucent 2x40 RRH (Verizon)	130	(2) Ericsson RRUS-32 (ATT)	107
RFS DB-T1-6Z-8AB-OZ Box (Verizon)	130	(2) Ericsson RRUS A2 (ATT)	107
12' Low Profile Platform (Verizon)	130	(2) Ericsson RRUS-32 (ATT)	107
(2) Andrew HBX-6516DS w/ mount pipe (MetroPCS)	117	(2) Ericsson RRUS A2 (ATT)	107
(2) Andrew HBX-6516DS w/ mount pipe (MetroPCS)	117	(4) Raycap DC6-48-60-18-8F Suppressor (ATT)	107
(2) Andrew HBX-6516DS w/ mount pipe (MetroPCS)	117	12' T-Arm Mounts (ATT)	107

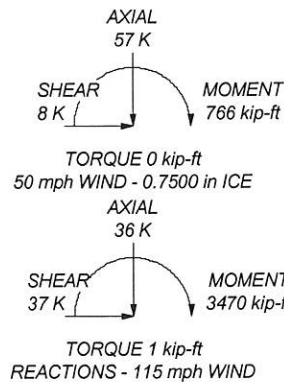
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 115 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 72.7%

ALL REACTIONS ARE FACTORED



Michael F. Plahovinsak, P.E.

18301 State Route 161 W
Plain City, OH 43064
Phone: 614-398-6250
FAX: mike@mpfeng.com

Job: **130-ft Monopole (Prop. 130-ft) - MFP #40913-015 r3**

Project: CT1003, North Haven	Drawn by: Mike	App'd:
Client: Florida Tower Partners	Date: 03/20/14	Scale: NTS
Code: TIA-222-G	Path: J:\Projects\409-Misc\40913-015\40913-015_r3.eit	Dwg No: E-1

tnxTower Michael F. Plahovinsak, P.E. 18301 State Route 161 W Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com	Job 130-ft Monopole (Prop. 130-ft) - MFP #40913-015 r3	Page 1 of 7
	Project CT1003, North Haven	Date 19:59:19 03/20/14
	Client Florida Tower Partners	Designed by Mike

Tower Input Data

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

The following design criteria apply:

Tower is located in New Haven County, Connecticut.

Basic wind speed of 115 mph.

Structure Class II.

Exposure Category C.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

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

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	130.00-120.00	10.00	0.00	18	20.9000	23.1600	0.1875	0.7500	A572-65 (65 ksi)
L2	120.00-91.50	28.50	4.25	18	23.1600	29.6000	0.2500	1.0000	A572-65 (65 ksi)
L3	91.50-48.25	47.50	5.50	18	28.1396	38.8700	0.3750	1.5000	A572-65 (65 ksi)
L4	48.25-1.00	52.75		18	36.8775	48.8000	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ³	w in	w/t
L1	21.2224	12.3265	668.1027	7.3529	10.6172	62.9264	1337.0845	6.1644	3.3484	17.858
	23.5173	13.6715	911.5289	8.1552	11.7653	77.4762	1824.2571	6.8371	3.7462	19.98
L2	23.5173	18.1791	1205.4790	8.1331	11.7653	102.4607	2412.5442	9.0913	3.6362	14.545
	30.0566	23.2892	2534.5957	10.4193	15.0368	168.5595	5072.5265	11.6468	4.7696	19.078
L3	29.5486	33.0469	3218.4903	9.8565	14.2949	225.1489	6441.2155	16.5266	4.2926	11.447
	39.4696	45.8187	8578.0508	13.6657	19.7460	434.4205	17167.3888	22.9137	6.1811	16.483
L4	38.7087	50.6015	8489.0461	12.9362	18.7338	453.1409	16989.2624	25.3056	5.7204	13.075
	49.5528	67.1574	19844.8883	17.1687	24.7904	800.5070	39715.8890	33.5851	7.8188	17.872

inxTower Michael F. Plahovinsak, P.E. 18301 State Route 161 W Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com	Job 130-ft Monopole (Prop. 130-ft) - MFP #40913-015 r3	Page 2 of 7
	Project CT1003, North Haven	Date 19:59:19 03/20/14
	Client Florida Tower Partners	Designed by Mike

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number	C _{AA}		Weight
						ft ² /ft	plf	
1 5/8" (Verizon)	C	No	Inside Pole	130.00 - 1.00	12	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.92 0.92 0.92

1 5/8" (MetroPCS)	C	No	Inside Pole	117.00 - 1.00	12	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.92 0.92 0.92
**								
3/4" (ATT)	C	No	Inside Pole	107.00 - 1.00	8	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.33 0.33 0.33
1/2" (ATT)	C	No	Inside Pole	107.00 - 1.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.15 0.15 0.15
3/8" (ATT)	C	No	Inside Pole	107.00 - 1.00	3	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.08 0.08 0.08

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment °	Placement ft	C _{AA}		Weight K
			Horz Lateral ft	Vert ft			Front ft ²	Side ft ²	
(2) Antel BXA-70063/6CF w/ mount pipe (Verizon)	A	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	7.75 8.29 8.85	5.18 6.11 6.92	0.04 0.09 0.16
(2) Antel BXA-171063/12CF w/ mount pipe (Verizon)	A	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	4.98 5.43 5.89	5.93 6.87 7.69	0.04 0.08 0.14
(2) Lucent 2x40 RRH (Verizon)	A	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.20 1.35 1.51	2.25 2.45 2.66	0.01 0.03 0.05
(2) Antel BXA-70063/6CF w/ mount pipe (Verizon)	B	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	7.75 8.29 8.85	5.18 6.11 6.92	0.04 0.09 0.16
(2) Antel BXA-171063/12CF w/ mount pipe (Verizon)	B	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	4.98 5.43 5.89	5.93 6.87 7.69	0.04 0.08 0.14
(2) Lucent 2x40 RRH (Verizon)	B	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	1.20 1.35 1.51	2.25 2.45 2.66	0.01 0.03 0.05
Antel BXA-70080-6CF w/ mount pipe (Verizon)	C	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	5.79 6.25 6.71	5.99 6.93 7.74	0.04 0.09 0.15
Antel BXA-80080/6CF w/ mount pipe (Verizon)	C	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	5.79 6.25 6.71	5.99 6.93 7.74	0.08 0.13 0.19
(2) Antel BXA-171063/12CF w/ mount pipe (Verizon)	C	From Face	3.00 0.00 0.00	0.0000	130.00	No Ice 1/2" Ice 1" Ice	4.98 5.43 5.89	5.93 6.87 7.69	0.04 0.08 0.14
(2) Lucent 2x40 RRH (Verizon)	C	From Face	3.00 0.00	0.0000	130.00	No Ice 1/2" Ice	1.20 1.35	2.25 2.45	0.01 0.03

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A ₁ Front ft ²	C _A A ₁ Side ft ²	Weight K
RFS DB-T1-6Z-8AB-OZ Box (Verizon)	C	None	0.00	0.0000	130.00	1" Ice 1.51 No Ice 5.60 1/2" Ice 5.92 1" Ice 6.24	2.66 2.33 2.56 2.79	0.05 0.04 0.08 0.12
12' Low Profile Platform (Verizon)	C	None		0.0000	130.00	No Ice 14.00 1/2" Ice 16.00 1" Ice 18.00	14.00 16.00 18.00	1.10 1.70 2.30

(2) Andrew HBX-6516DS w/ mount pipe (MetroPCS)	A	From Face	3.00 0.00 0.00	0.0000	117.00	No Ice 3.49 1/2" Ice 3.87 1" Ice 4.28	3.17 3.80 4.43	0.12 0.15 0.19
(2) Andrew HBX-6516DS w/ mount pipe (MetroPCS)	B	From Face	3.00 0.00 0.00	0.0000	117.00	No Ice 3.49 1/2" Ice 3.87 1" Ice 4.28	3.17 3.80 4.43	0.12 0.15 0.19
(2) Andrew HBX-6516DS w/ mount pipe (MetroPCS)	C	From Face	3.00 0.00 0.00	0.0000	117.00	No Ice 3.49 1/2" Ice 3.87 1" Ice 4.28	3.17 3.80 4.43	0.12 0.15 0.19
12' T-Arm Mounts (MetroPCS)	C	None		0.0000	117.00	No Ice 12.00 1/2" Ice 18.00 1" Ice 24.00	12.00 18.00 24.00	1.14 1.27 0.47

(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	A	From Face	3.00 0.00 0.00	0.0000	107.00	No Ice 13.62 1/2" Ice 14.35 1" Ice 15.09	9.18 10.58 11.83	0.10 0.19 0.29
(3) Ericsson RRUS-11 (ATT)	A	From Face	3.00 0.00 0.00	0.0000	107.00	No Ice 2.55 1/2" Ice 2.77 1" Ice 2.99	0.92 1.07 1.23	0.05 0.06 0.08
(2) Ericsson RRUS 12 (ATT)	A	From Face	2.50 0.00 0.00	0.0000	107.00	No Ice 3.67 1/2" Ice 3.92 1" Ice 4.19	1.46 1.64 1.84	0.06 0.08 0.11
(2) Ericsson RRUS-32 (ATT)	A	From Face	2.00 0.00 0.00	0.0000	107.00	No Ice 3.87 1/2" Ice 4.15 1" Ice 4.44	2.76 3.02 3.29	0.08 0.10 0.14
(2) Ericsson RRUS A2 (ATT)	A	From Face	1.50 0.00 0.00	0.0000	107.00	No Ice 1.87 1/2" Ice 2.05 1" Ice 2.24	0.50 0.62 0.75	0.03 0.04 0.05
(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	B	From Face	3.00 0.00 0.00	0.0000	107.00	No Ice 13.62 1/2" Ice 14.35 1" Ice 15.09	9.18 10.58 11.83	0.10 0.19 0.29
(3) Ericsson RRUS-11 (ATT)	B	From Face	3.00 0.00 0.00	0.0000	107.00	No Ice 2.55 1/2" Ice 2.77 1" Ice 2.99	0.92 1.07 1.23	0.05 0.06 0.08
(2) Ericsson RRUS 12 (ATT)	B	From Face	2.50 0.00 0.00	0.0000	107.00	No Ice 3.67 1/2" Ice 3.92 1" Ice 4.19	1.46 1.64 1.84	0.06 0.08 0.11
(2) Ericsson RRUS-32 (ATT)	B	From Face	2.00 0.00 0.00	0.0000	107.00	No Ice 3.87 1/2" Ice 4.15 1" Ice 4.44	2.76 3.02 3.29	0.08 0.10 0.14
(2) Ericsson RRUS A2 (ATT)	B	From Face	1.50 0.00 0.00	0.0000	107.00	No Ice 1.87 1/2" Ice 2.05 1" Ice 2.24	0.50 0.62 0.75	0.03 0.04 0.05
(4) CCI HPA-65R-BUU-H8 w/ mount pipe (ATT)	C	From Face	3.00 0.00 0.00	0.0000	107.00	No Ice 13.62 1/2" Ice 14.35 1" Ice 15.09	9.18 10.58 11.83	0.10 0.19 0.29
(3) Ericsson RRUS-11 (ATT)	C	From Face	3.00 0.00 0.00	0.0000	107.00	No Ice 2.55 1/2" Ice 2.77 1" Ice 2.99	0.92 1.07 1.23	0.05 0.06 0.08

<p style="text-align: center;">tnxTower</p> <p>Michael F. Plahovinsak, P.E. 18301 State Route 161 W Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com</p>	Job 130-ft Monopole (Prop. 130-ft) - MFP #40913-015 r3	Page 4 of 7
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	Client Florida Tower Partners	Designed by Mike

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
(2) Ericsson RRUS 12 (ATT)	C	From Face	2.50	0.0000	107.00	No Ice	3.67	1.46	0.06
			0.00			1/2" Ice	3.92	1.64	0.08
			0.00			1" Ice	4.19	1.84	0.11
(2) Ericsson RRUS-32 (ATT)	C	From Face	2.00	0.0000	107.00	No Ice	3.87	2.76	0.08
			0.00			1/2" Ice	4.15	3.02	0.10
			0.00			1" Ice	4.44	3.29	0.14
(2) Ericsson RRUS A2 (ATT)	C	From Face	1.50	0.0000	107.00	No Ice	1.87	0.50	0.03
			0.00			1/2" Ice	2.05	0.62	0.04
			0.00			1" Ice	2.24	0.75	0.05
(4) Raycap DC6-48-60-18-8F Suppressor (ATT)	C	None	0.0000	107.00	No Ice	1.47	1.47	0.03	
					1/2" Ice	1.67	1.67	0.05	
					1" Ice	1.88	1.88	0.07	
12' T-Arm Mounts (ATT)	C	None	0.0000	107.00	No Ice	12.00	12.00	1.14	
					1/2" Ice	18.00	18.00	1.27	
					1" Ice	24.00	24.00	0.47	

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 90 deg - No Ice
5	0.9 Dead+1.6 Wind 90 deg - No Ice
6	1.2 Dead+1.6 Wind 180 deg - No Ice
7	0.9 Dead+1.6 Wind 180 deg - No Ice
8	1.2 Dead+1.0 Ice+1.0 Temp
9	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
10	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
11	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
12	Dead+Wind 0 deg - Service
13	Dead+Wind 90 deg - Service
14	Dead+Wind 180 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	130 - 120	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-8.42	0.00	-0.08
			Max. Mx	4	-1.93	-73.77	-0.09
			Max. My	6	-1.98	0.00	-70.52
			Max. Vy	4	7.87	-73.77	-0.09
			Max. Vx	6	7.53	0.00	-70.52
			Max. Torque	4			-1.09
			Max Tension	1	0.00	0.00	0.00
L2	120 - 91.5	Pole	Max. Compression	8	-25.69	0.00	-0.08
			Max. Mx	4	-10.13	-490.99	-0.13
			Max. My	6	-10.20	0.00	-479.22
			Max. Vy	4	25.81	-490.99	-0.13
			Max. Vx	6	25.45	0.00	-479.22

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L3	91.5 - 48.25	Pole	Max. Torque	4			-1.09
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-37.22	0.00	-0.08
			Max. Mx	4	-19.18	-1681.42	-0.18
			Max. My	6	-19.22	0.00	-1654.67
			Max. Vy	4	30.88	-1681.42	-0.18
			Max. Vx	6	30.53	0.00	-1654.67
L4	48.25 - 1	Pole	Max. Torque	4			-1.09
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-57.16	0.00	-0.08
			Max. Mx	4	-35.90	-3470.39	-0.19
			Max. My	6	-35.90	0.00	-3425.12
			Max. Vy	4	36.65	-3470.39	-0.19
			Max. Vx	6	36.31	0.00	-3425.12
			Max. Torque	4			-1.09

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	130 - 120	13.677	13	0.9085	0.0024
L2	120 - 91.5	11.788	13	0.8895	0.0016
L3	95.75 - 48.25	7.544	13	0.7545	0.0007
L4	53.75 - 1	2.310	13	0.4071	0.0002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
130.00	(2) Antel BXA-70063/6CF w/ mount pipe	13	13.677	0.9085	0.0024	34042
117.00	(2) Andrew HBX-6516DS w/ mount pipe	13	11.232	0.8796	0.0014	15115
107.00	(4) CCI HPA-65R-BUU-H8 w/ mount pipe	13	9.434	0.8306	0.0010	10913

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	130 - 120	90.092	4	5.9891	0.0156
L2	120 - 91.5	77.661	4	5.8643	0.0105
L3	95.75 - 48.25	49.721	4	4.9750	0.0047
L4	53.75 - 1	15.227	4	2.6845	0.0015

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Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
130.00	(2) Antel BXA-70063/6CF w/ mount pipe	4	90.092	5.9891	0.0156	5287
117.00	(2) Andrew HBX-6516DS w/ mount pipe	4	74.000	5.7991	0.0093	2344
107.00	(4) CCI HPA-65R-BUU-H8 w/ mount pipe	4	62.164	5.4763	0.0065	1687

Pole Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	A	P _u	φP _n	Ratio P _u / φP _n
	ft		ft	ft		in ²	K	K	
L1	130 - 120 (1)	TP23.16x20.9x0.1875	10.00	0.00	0.0	13.6715	-1.93	958.52	0.002
L2	120 - 91.5 (2)	TP29.6x23.16x0.25	28.50	0.00	0.0	22.5272	-10.13	1617.01	0.006
L3	91.5 - 48.25 (3)	TP38.87x28.1396x0.375	47.50	0.00	0.0	44.3398	-19.18	3294.23	0.006
L4	48.25 - 1 (4)	TP48.8x36.8775x0.4375	52.75	0.00	0.0	67.1574	-35.90	4858.33	0.007

Pole Bending Design Data

Section No.	Elevation	Size	M _{ux}	φM _{ux}	Ratio M _{ux} / φM _{ux}	M _{uy}	φM _{uy}	Ratio M _{uy} / φM _{uy}
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	130 - 120 (1)	TP23.16x20.9x0.1875	73.77	452.66	0.163	0.00	452.66	0.000
L2	120 - 91.5 (2)	TP29.6x23.16x0.25	490.99	943.10	0.521	0.00	943.10	0.000
L3	91.5 - 48.25 (3)	TP38.87x28.1396x0.375	1681.43	2517.97	0.668	0.00	2517.97	0.000
L4	48.25 - 1 (4)	TP48.8x36.8775x0.4375	3470.39	4825.88	0.719	0.00	4825.88	0.000

Pole Shear Design Data

Section No.	Elevation	Size	Actual V _u	φV _n	Ratio V _u / φV _n	Actual T _u	φT _n	Ratio T _u / φT _n
	ft		K	K		kip-ft	kip-ft	
L1	130 - 120 (1)	TP23.16x20.9x0.1875	7.87	479.26	0.016	1.09	906.43	0.001
L2	120 - 91.5 (2)	TP29.6x23.16x0.25	25.81	808.51	0.032	1.09	1888.51	0.001
L3	91.5 - 48.25 (3)	TP38.87x28.1396x0.375	30.88	1647.11	0.019	1.09	5042.12	0.000
L4	48.25 - 1 (4)	TP48.8x36.8775x0.4375	36.65	2429.16	0.015	1.08	9663.58	0.000

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Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_n ϕP_n	Ratio M_{ux} ϕM_{ux}	Ratio M_{uy} ϕM_{uy}	Ratio V_u ϕV_u	Ratio T_u ϕT_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	130 - 120 (1)	0.002	0.163	0.000	0.016	0.001	0.165	1.000	4.8.2 ✓
L2	120 - 91.5 (2)	0.006	0.521	0.000	0.032	0.001	0.528	1.000	4.8.2 ✓
L3	91.5 - 48.25 (3)	0.006	0.668	0.000	0.019	0.000	0.674	1.000	4.8.2 ✓
L4	48.25 - 1 (4)	0.007	0.719	0.000	0.015	0.000	0.727	1.000	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	130 - 120	Pole	TP23.16x20.9x0.1875	1	-1.93	958.52	16.5	Pass
L2	120 - 91.5	Pole	TP29.6x23.16x0.25	2	-10.13	1617.01	52.8	Pass
L3	91.5 - 48.25	Pole	TP38.87x28.1396x0.375	3	-19.18	3294.23	67.4	Pass
L4	48.25 - 1	Pole	TP48.8x36.8775x0.4375	4	-35.90	4858.33	72.7	Pass
Summary								
Pole (L4)							72.7	Pass
RATING =							72.7	Pass

Michael F. Plahovinsak, P.E. 18301 State Route 161 W Plain City, OH 43064 Phone: 614-398-6250 email: mike@mfpeng.com	Job 130-ft monopole - MFP #40913-015	Page BP-G
	Project CT1003, North Haven	Date 3/20/2014
	Client FLORIDA TOWER PARTNERS	Designed by Mike

Anchor Rod and Base Plate Calculation

ANSI/TIA-222-G-2

Factored Base Reactions:	Pole Shape:	Anchor Rods:	Base Plate:
Moment: 3470 ft-kips	18-Sided	(20) 2.25 in. A615 GR. 75	2.75 in. x 58 in. Round
Shear: 37 kips	Pole Dia. (D_f):	Anchor Rods Evenly Spaced	fy = 50 ksi
Axial: 36 kips	48.80 in	On a 55.25 in Bolt Circle	

Anchor Rod Calculation According to TIA-222-G section 4.9.9

- $\phi = 0.80$ TIA 4.9.9
- $I_{bolts} = 7631.41 \text{ in}^2$ Momet of Inertia
- $P_u = 151 \text{ kips}$ Tension Force
- $V_u = 2 \text{ kips}$ Shear Force
- $R_{nt} = 325.00 \text{ kips}$ Nominal Tensile Strength
- $\eta = 0.50$ for detail type (d)

The following Iteration Equation Shall Be Satisfied:

$$\left(\frac{P_u + \frac{V_u}{\eta}}{\phi R_{nt}} \right) \leq 1.0$$

$$0.594 \leq 1$$

Base Plate Calculation According to TIA-222-G

- $\phi = 0.90$ TIA 4.7
- $M_{PL} = 320.3 \text{ in-kip}$ Plate Moment
- $L = 7.7 \text{ in}$ Section Length
- $Z = 14.5$ Plastic Section Modulus
- $M_p = 724.6 \text{ in-kip}$ Plastic Moment
- $\phi M_n = 652.2 \text{ in-kip}$ Factored Resistance

Calculated Moment vs Factored Resistance

$$320.32 \text{ in-kip} \leq 652 \text{ in-kip}$$

Anchor Rods Are Adequate	59.4%	<input checked="" type="checkbox"/>
Base Plate is Adequate	49.1%	<input checked="" type="checkbox"/>

Monopole Spread Footing Calculation

ANSI/TIA-222-G-2

Factored Base Reactions:	Footing Dimensions:		Concrete:
Moment: 3470 ft-kips	24 ft x 24 ft	7 ft Square Pier	f _c = 4000 psi
Shear: 37 kips	x 2 ft thick	w/6 in Reveal	Steel f _y = 60 ksi
Axial: 36 kips	Bearing 8 ft B.G.	54.5 Yd3 Concrete	f = 0.75
Soil Backfill 120 pcf	Ultimate Bearing:	6000 psf	Water Table 5.5

Foundation Weight

Weight of Pole	36.0 kips
Weight of Concrete	220.575 kips
Weight of Soil	379.44 kips
Bouyancy of Water	-89.9 kips
Total	546.2 kips

Overturning Resistance:

Overturning Moment (M _u)	3784.5 ft-kips	ft-kips + (1.05 kips x 0 ft)
Resisting Moment (R _s)	6553.908 ft-kips	546.159 kips x 24 ft / 2
$\phi \times R_s > M_u$	$M_{\text{overturning}} / f M_{\text{resist}}$	77.0% OK

Soil Bearing Pressure:

Eccentricity (e)	6.93 ft	3784.5 ft-kips / 546.159 kips
6(e)	41.6 ft >	24.0 ft 6e > 24
Maximum Soil Bearing	3325.2015 psf	Calculated across corners
Soil Overburden	-804 psf	Overburden - Bouyancy
Net Soil Bearing	2521.2015 psf	
Resisting Soil Bearing (R _s)	6000 psf	
Net Soil Bearing < $\phi \times R_s$	Net Bearing / f R _s	56.0% OK

Bending Moment in Pier:

Bending Moment	3710.5 ft-kips	3470 ft-kips + (37 kips x 6.5 ft)
----------------	----------------	-----------------------------------

Bending Moment in Footing:

Max Bending Moment	2110.8435 ft-kips	Σ Moments about pier face
Min. Footing Steel	0.52 in ² /ft	0.18%

TAB 5

MEMORANDUM OF LEASE

Prepared by:

Elizabeth Jamieson
Smartlink, LLC
33 Boston Post Road, W
Marlborough, MA 01752

Return to:

33 Boston Post Road, W
Marlborough, MA 01752

Re: Cell Site #: S3506A; Cell Site Name: North Haven Devine Street, (S3506A)
Fixed Asset Number: 10578263
State: Connecticut
County: New Haven

MEMORANDUM
OF
LEASE

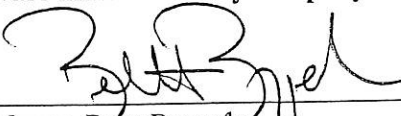
This Memorandum of Lease is entered into on this 31 day of October, 2013, by and between Florida Tower Partners, LLC, a Delaware limited liability company, having a mailing address of 1001 Third Avenue West, Suite 420, Bradenton, FL 34205 (hereinafter referred to as "**Landlord**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of Suite 13-F West Tower, 575 Morosgo Drive, Atlanta, GA 30324 (hereinafter referred to as "**Tenant**").

1. Landlord and Tenant entered into a certain Lease Agreement ("**Agreement**") on the 31 day of October, 2013, for the purpose of installing, operating and maintaining a communications facility and other improvements. All of the foregoing is set forth in the Agreement.
2. The initial lease term will be five (5) years commencing on the Rent Commencement Date of the Agreement, with four (4) successive five (5) year options to renew.
3. The portion of the land being leased to Tenant and associated easements (the "Premises") are described in **Exhibit 1** annexed hereto.
4. This Memorandum of Lease is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement, all of which are hereby ratified and affirmed. In the event of a conflict between the provisions of this Memorandum of Lease and the provisions of the Agreement, the provisions of the Agreement shall control. The Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.

IN WITNESS WHEREOF, the parties have executed this Memorandum of Lease as of the day and year first above written.

"LANDLORD"

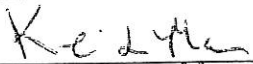
FLORIDA TOWER PARTNERS, LLC
a Delaware limited liability company

By: 
Print Name: Brett Buggeln
Its: Manager/President
Date: 10/31/13

"TENANT"

New Cingular Wireless PCS, LLC,
a Delaware limited liability company

By: AT&T Mobility Corporation
Its: Manager

By: 
Print Name: Kevin L. Mason
Its: Area Manager
Date: 10-30-2013

[ACKNOWLEDGMENTS APPEAR ON THE NEXT PAGE]

TENANT ACKNOWLEDGMENT

State of Massachusetts

County of Middlesex

On this the 30th day of October, 2013, before me, _____, the undersigned officer, personally appeared Kevin L. Mason who acknowledged himself to be the Area Manager of AT&T Mobility Corporation, manager of New Cingular Wireless PCS, LLC, a (member managed or manager managed) limited liability company, and that he, as such _____, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the limited liability company by himself as Area Manager.

In witness whereof I hereunto set my hand.

Notary Public

Print Name: _____

My Commission Expires: _____

LANDLORD ACKNOWLEDGMENT

State of Florida

County of Manatee

On this the 7 day of Oct, 2013, before me, Todd J. Bowman, the undersigned officer, personally appeared Brett Buggeln who acknowledged himself to be the Manager/President of Florida Tower Partners, LLC, a (member managed or manager managed) limited liability company, and that he, as such Manager/President, being authorized so to do, executed the foregoing instrument for the purposes therein contained, by signing the name of the limited liability company by himself as Manager/President.

In witness whereof I hereunto set my hand.

Todd J. Bowman

Notary Public

Print Name: _____

My Commission Expires: _____



TODD J. BOWMAN
NY COMMISSION # EE 016243
EXPIRES: August 10, 2014
Bonded Thru Budget Notary Services

EXHIBIT 1

DESCRIPTION OF PREMISES

Page ____ of ____

to the Memorandum of Lease dated _____, 2013, by and between Florida Tower Partners, LLC, a Delaware limited liability company, as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

The Premises is a portion of the Property, which is legally described as follows:

Schedule A

50 Devine Street:

All that certain piece or parcel of land with the buildings and all other improvements thereon, situated in the Town of North Haven, in the County of New Haven and State of Connecticut, bounded and described as follows:

WEST by land formerly of The New York, New Haven and Hartford Railroad Company, more lately of Consolidated Rail Corporation 584 feet;

NORTHEAST by land now or formerly of The Humphrey Chemical Company, 645 feet;

EAST by land now or formerly of The Humphrey Chemical Company, 242.98 feet;

NORTHEAST again by land now or formerly of The Humphrey Chemical Company, 50 feet;

SOUTHEAST by land now or formerly of The Humphrey Chemical Company, 100 feet;

SOUTHWEST by land now or formerly of The Humphrey Chemical Company, 710 feet;

Being the premises shown on a map entitled, "MAP OF PROPERTY OF ROBERT E. WRIGHT TO BE CONVEYED TO ANTHONY S. PAPA OFF DEVINE STREET, North Haven, Connecticut, Aug. 11, 1980 Scale 1" = 40' ", by Joseph B. Burns, Land Surveyor

Together with a right of way in common with others in, through, over and across land now or formerly of The I.L. Stiles & Son Brick Company, known as Devine Street to State Street.

Together with and subject to rights of way and pole line easement heretofore granted and reserved as set forth in a deed from The Alfred B. King Company to Humphrey-Wilkinson, Incorporated, dated January 6, 1949 and recorded in Volume 108 on Page 306 of the North Haven Land Records, to which deed reference is hereby made; except as modified in a deed from The Alfred B. King Company to The Humphrey Chemical Company, dated August 20, 1969 and recorded in Volume 248 on Page 27 of said Land Records.

Together with and subject to a Mutual Easement and Sewer Tie-in Agreement by and between The Humphrey Chemical Company, Inc. and Anthony S. Papa dated July 20, 1990 and recorded July 24, 1990 in Volume 410 at Page 80 of the North Haven Land Records.

Excepting therefrom the property conveyed to Humphrey Chemical Company in a deed recorded in Volume 410, Page 102 of the North Haven Land Records.

TAB 6

Power Density Calculations

Applicant: New Cingular Wireless PCS, LLC d/b/a AT&T

Site ID: S3506

Site Type: Existing 120' Monopole Tower

Address: 50 Devine Street, North Haven, CT 06473

Date: April 4, 2014

1. Existing Power Density ¹

Carrier	#Channels	ERP/Ch	Ant Ht	Power Density (mW/cm2)	Frequency MHz	Limit	%MPE
Metro PCS CDMA	3	727	117'	0.0573	2135 Band	1.0000	5.73%
Metro PCS LTE	1	1200	117'	0.0315	2130 Band	1.0000	3.15%
TOTAL							8.88%

2. Proposed AT&T Power Density ²

Carrier	#Channels	ERP/Ch	Ant Ht	Power Density (mW/cm2)	Frequency MHz	Limit	%MPE
AT&T UMTS	2	500	107'	0.0314	800 Band	0.5867	5.35
AT&T UMTS	1	500	107'	0.0157	1900 Band	1.0000	1.57
AT&T LTE	1	500	107'	0.0157	700 Band	0.4667	3.36
AT&T LTE	1	500	107'	0.0157	1900 Band	1.0000	1.57
AT&T LTE	1	500	107'	0.0157	2300 Band	1.0000	1.57
TOTAL							13.42%

3. Cumulative Power Density Calculation Results

Carrier	#Channels	ERP/Ch	Ant Ht	Power Density (mW/cm2)	Frequency MHz	Limit	%MPE
Metro PCS CDMA	3	727	117'	0.0573	2135 Band	1.0000	5.73%
Metro PCS LTE	1	1200	117'	0.0315	2130 Band	1.0000	3.15%
AT&T UMTS	2	500	107'	0.0314	800 Band	0.5867	5.35
AT&T UMTS	1	500	107'	0.0157	1900 Band	1.0000	1.57
AT&T LTE	1	500	107'	0.0157	700 Band	0.4667	3.36
AT&T LTE	1	500	107'	0.0157	1900 Band	1.0000	1.57
AT&T LTE	1	500	107'	0.0157	2300 Band	1.0000	1.57
TOTAL							22.3%

¹ This Power Density information was taken from the Connecticut Siting Council database dated October 1, 2013.

² This Power Density information is based on worse case assumptions from AT&T's radio frequency engineers.

4. Conclusion:

The addition of AT&T's antennas on the existing tower will result in the cumulative maximum permissible exposure (MPE) level of 22.3%. The proposal complies with the National Council on Radiation Protection and Measurements standard for MPE adopted by the Federal Communications Commission ("FCC"). Moreover, the maximum level of radio-frequency energy emitted from AT&T's installation will be well below the FCC's mandated radio frequency exposure limits.