



Crown Castle
3 Corporate Park Drive, Suite 101
Clifton Park, NY 12065

April 30, 2018

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

RE: Notice of Exempt Modification for Sprint Crown Site BU: 876331
Sprint Site ID: CT03XC083
115 North Mountain Road, New Britain, Hartford County, CT 06053
Latitude: 41° 40' 35.72"/ Longitude: -72° 49' 17.09"

Dear Ms. Bachman:

Sprint currently maintains (3) antennas at the 116-foot level of the existing 116-foot monopole at 115 North Mountain Road, New Britain, Connecticut 06053. The tower and property on which it sits is owned by Crown Castle. Sprint intends to install (3) antennas, (1) hybrid, and (3) RRHs.

The Connecticut Siting Council's Telecommunications Database provides the Council approved the tower February 16, 2000, however a diligent search of the available online records was not fruitful for obtaining a copy of said decision.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.S.C.A. § 16-50j-73, a copy of this letter is being sent to Ms. Erin Stewart, Mayor, City of New Britain, Ms. Marion Fischbein, Member of the City of New Britain's Zoning Board, and Crown Castle as the property and tower owner.

1. The proposed modifications will not result in an increase in the height of the existing tower.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.

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April 30, 2018

Page 2

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,



Anne Marie Zsamba, Esq.

Real Estate Specialist

3 Corporate Park Drive, Suite 101, Clifton Park, NY 12065

(518) 350-3639

annemarie.zsamba.contractor@crowncastle.com

Attachments:

Tab A: Exhibit-1: Compound plan and elevation depicting the planned changes

Tab B: Exhibit-2: Structural Modification Report

Tab C: Exhibit-3: General Power Density Table Report (RF Emissions Analysis Report)

cc: Ms. Erin Stewart, Mayor
City of New Britain
27 West Main Street
New Britain, CT 06051
(860) 826-3300

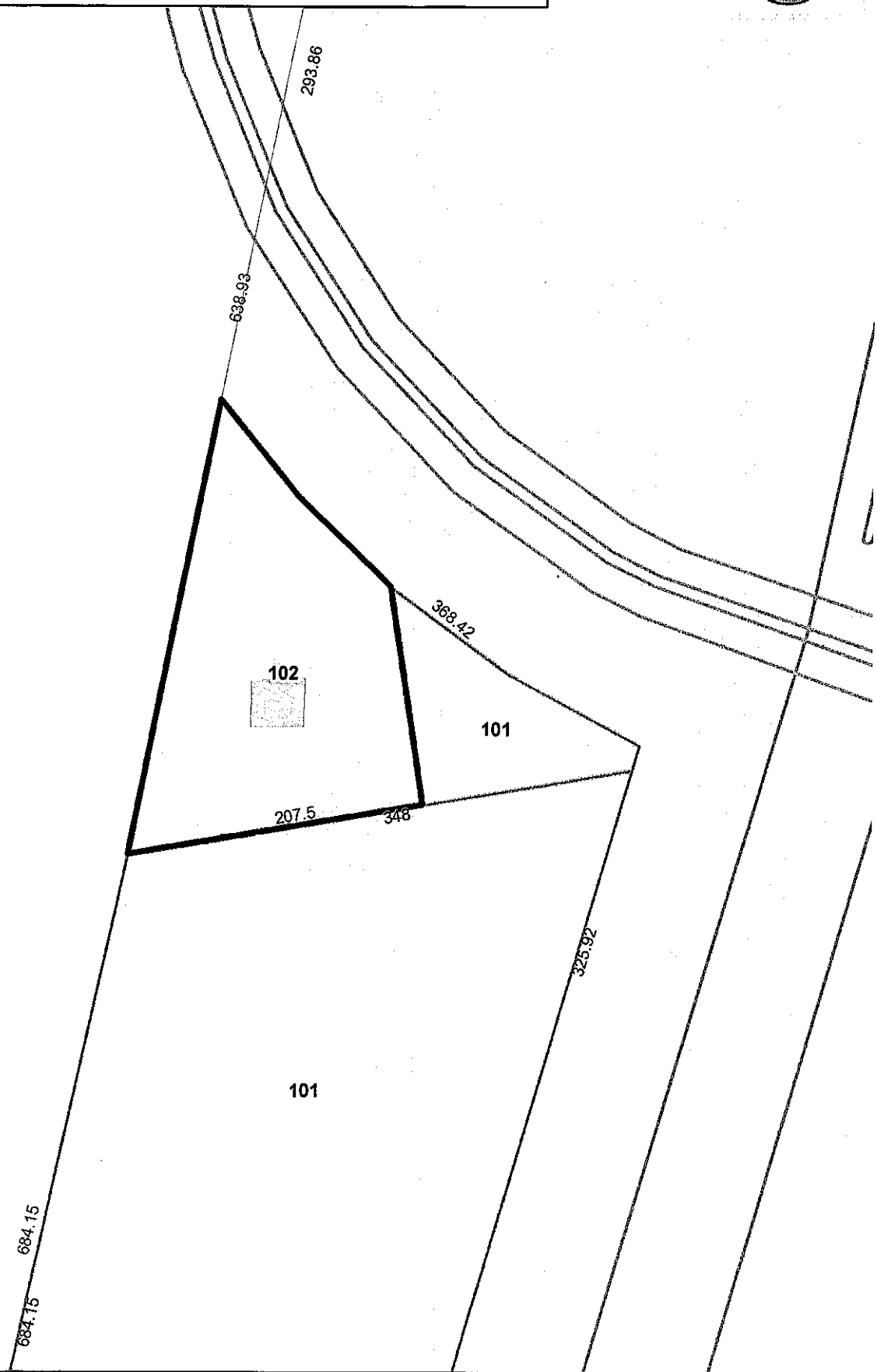
Ms. Marion Fischbein
City of New Britain Zoning Board
27 West Main Street – Room 311
New Britain, CT 06051
(860) 826-3430

Crown Castle

City of New Britain, Connecticut - Assessment Parcel Map

MBL: F2D 102

Address: 115 NORTH MOUNTAIN RD



Approximate Scale:
1 inch = 100 feet

Disclaimer:
This map is for informational purposes only.
All information is subject to verification by any user.
The City of New Britain and its mapping contractors
assume no legal responsibility for the information contained herein.

Map Produced Feb 2017

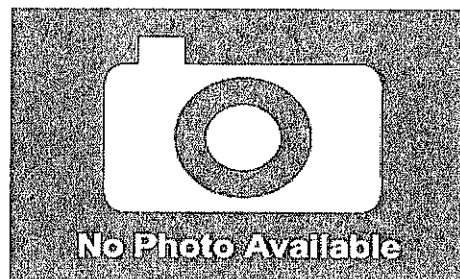


Property Information

Property Location	115 NORTH MOUNTAIN RD
Owner	OCTOBER TWENTY FOUR INC
Co-Owner	
Mailing Address	C/O A AIUDI + SONS LLC PLAINVILLE CT 06062
Land Use	4400 Ind Ld De
Land Class	I
Zoning Code	TP
Census Tract	416500

Neighborhood	101G
Acreage	0.82
Utilities	All Public
Lot Setting/Desc	Ledge
Additional Info	

Photo



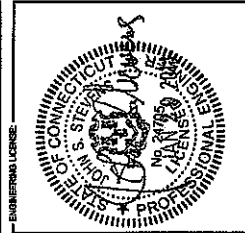
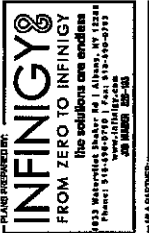
Sketch

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

Exterior Walls	
Interior Walls	
Heating Type	
Heating Fuel	
AC Type	
Gross Bldg Area	
Total Living Area	



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Table with columns: REVISIONS, DATE, BY, DESCRIPTION, SIZE, SHEET NO. OF

NEW BRITAIN GRAVEL PIT

CTV03XC0083

115 NORTH MOUNTAIN ROAD NEW BRITAIN, CT 06053

SPRINT SPECIFICATIONS

SP-1

SECTION 01.100 - SCOPE OF WORK

THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDES CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

PART 1 - GENERAL

- 1.1 THE WORK, THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

1.2 RELATED DOCUMENTS:

- A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.

1.3 PREFERENCE SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS, THE DRAWINGS SHALL TAKE PRECEDENCE.

1.4 THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL AND LOCAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:

- 1. CR-76-CORE GENERAL REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
- 2. CR-100 CODE, ELECTROMAGNETIC COMPATIBILITY AND ELECTRICAL SAFETY - SCIENCE CRITERIA FOR NETWORK TELECOMMUNICATIONS EQUIPMENT.
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SECTION 01.200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT

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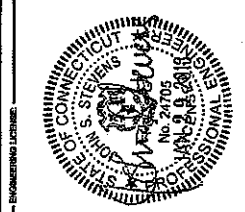
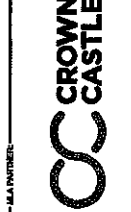
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PLANS PREPARED FOR:



DESIGNED BY: INFINIGY FROM ZERO TO INFINITY the solutions are endless. 0133 Redbank Hill, Albany, NY 12209 Project: 15-00-0000 | Date: 01-14-2015



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Table with columns: REVISION, DESCRIPTION, DATE, BY. Includes a row for 'ISSUED FOR CONSTRUCTION' dated 01/29/10 by D.

NEW BRITAIN GRAVEL PIT

CT03XC083

115 NORTH MOUNTAIN ROAD NEW BRITAIN, CT 06653

SPRINT SPECIFICATIONS SHEET NUMBER: SP-2

3. ELECTRIC AS-BUILT DRAWINGS IN AUTOCAD AND PDF FORMATS. ANY FIELD CHANGES MUST BE REFLECTED BY AMENDING THE PLANS, ELEVATIONS, AND SECTIONS. ALL CHANGES MUST BE APPROVED BY THE ARCHITECT. MODIFICATIONS WILL NOT BE ACCEPTED. CHANGES SHALL BE RECORDED AS "FIELD" IDENTIFIED AS THE "AS-BUILT" CONDITION.

4. LER WINNERS

5. FINISH FLOOR FINISHES

6. CONSTRUCTION AND COMMISSIONING CHECKLIST COMPLETE WITH NO DEFECTS

7. ALL POST UP ITEMS INCLUDING DOCUMENT UPDATES COMPLETED IN SITERA (GENERAL REQUIREMENT FOR CONSTRUCTION)

8. COMMISSIONING: PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOPS

9. INTEGRATION: PERFORM ALL INTEGRATION ACTIVITIES AS REQUIRED BY APPLICABLE MOPS

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 REQUIREMENTS FOR TESTING

A. THIRD PARTY TESTING AGENCY:

1. WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE TESTING AGENCY SHALL BE LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND HAVE A THOROUGH UNDERSTANDING OF LOCAL AVAILABLE MATERIALS, INCLUDING THE SOIL, ROCK, AND GROUNDWATER CONDITIONS.

2. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE TESTING METHODS AND TO BE FAMILIAR WITH THE APPLICABLE ASSOCIATED HEALTH AND SAFETY ISSUES.

3. EXPERIENCE IN SOILS, CONCRETE, MASONRY, AGGREGATE, AND ASPHALT TESTING USING ASTM, AASHTO, AND OTHER METHODS IS NEEDED.

4. EXPERIENCE IN SOILS, CONCRETE, MASONRY, AGGREGATE, AND ASPHALT TESTING USING ASTM, AASHTO, AND OTHER METHODS IS NEEDED.

3.2 REQUIRED TESTS

A. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. CONCRETE CYLINDER BREAK TESTS FOR THE TOWER AND ANCHOR FOUNDATIONS AS SPECIFIED IN SECTION PORTLAND CEMENT CONCRETE FINISHES.

2. ASPHALT ROADWAY COMPACTED THICKNESS, SURFACE SMOOTHNESS, AND COMPACTION DENSITY TESTING AS SPECIFIED IN SECTION HOT MIX ASPHALT CONCRETE FINISHES.

3. FIELD QUALITY CONTROL TESTING AS SPECIFIED IN SECTION PORTLAND CEMENT CONCRETE FINISHES.

4. TESTING REQUIRED UNDER SECTION AGGREGATE BASE FOR ACCESS ROADS, PADS AND ANCHOR FOUNDATIONS.

5. STRUCTURAL SHELTER COMPACTON TESTS FOR THE TOWER FOUNDATION.

6. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.

7. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.

8. GROUNDING AT ANTENNA MASTS FOR GPS AND ANTENNAS

9. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

3.3 REQUIRED INSPECTIONS

A. SCHEDULE INSPECTIONS WITH COMPANY REPRESENTATIVE.

B. CONDUCT INSPECTIONS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. GROUNDING SYSTEM INSTALLATION PRIOR TO EARTH CONNECTION DOCUMENTED WITH DIGITAL PHOTOGRAPHS BY CONTRACTOR, APPROVED BY ABE OR SPRINT REPRESENTATIVE.

2. FORMING FOR CONCRETE AND REBAR PLACEMENT PRIOR TO POUR DOCUMENTED WITH DIGITAL PHOTOGRAPHS BY CONTRACTOR, APPROVED BY ABE OR SPRINT REPRESENTATIVE.

3. CONSTRUCTION OF MASONRY, MASONRY, AGGREGATE BASE FOR PADS, PADS AND ANCHORS, ASPHALT FINISHES AND SURT BACKFILL FOR CONCRETE AND MASONRY, BY AN INDEPENDENT THIRD PARTY AGENCY.

4. PRE- AND POST-CONSTRUCTION ROOFTOP AND STRUCTURAL INSPECTIONS ON EXISTING STRUCTURES.

5. TOWER SECTION, SECTION ELEVATION AND PLATFORM ATTACHMENT DOCUMENTED WITH DIGITAL PHOTOGRAPHS BY THIRD PARTY AGENCY.

6. ANTENNA LEADERS, DOWN TILT AND REBAR SINKING TOOL SINKING INSTRUMENTS - ANTENNA/ANALOG ALIGNMENT TOOL (AAAT)

5. LINES AND ANTENNA INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

6. POWER INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

7. TOWER READY DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

8. PFC (OR SHELTER) INSTALL DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

9. TOWER CONSTRUCTION START DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

10. TOWER CONSTRUCTION COMPLETE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

11. BITS AND BOND COMPONENT DELIVERED AT SITE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

12. NETWORK OPERATIONS HANDOFF CHECKLIST (DOC URL) COMPLETE (UPLOAD FORM IN SMS)

13. CIVIL CONSTRUCTION COMPLETE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

14. SITE CONSTRUCTION PROGRESS PHOTOS (UNLOADED W/O SITE).

SECTION 01-400 - SUBMITTALS & TESTS

PART 1 - GENERAL

1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONNECTION WITH THE WORK TO BE PERFORMED BY THE CONTRACTOR.

1.2 RELATED DOCUMENTS:

A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.

B. SPRINT STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS REFERENTIAL.

1.3 SUBMITTALS:

A. THE WORK IN ALL ASPECTS SHALL COMPLY WITH THE CONSTRUCTION DETAILS AND THE FOLLOWING SPECIFICATIONS:

B. SUBMIT THE FOLLOWING TO COMPANY REPRESENTATIVE FOR APPROVAL:

1. CONCRETE MIX-DESIGNS FOR TOWER FOUNDATIONS, ANCHORS FEES, AND CONCRETE FINISHES.

2. CONCRETE BREAK TESTS AS SPECIFIED HEREIN.

3. SPECIAL FINISHES FOR INTERIOR SPACES, F. AND.

4. ALL EQUIPMENT AND MATERIALS SO IDENTIFIED ON THE CONSTRUCTION DRAWINGS.

5. CHEMICAL CEMENTING DESIGN.

6. ANTENNAS: AT THE COMPANY'S REQUEST, ANY ALTERNATES TO THE MATERIALS OR METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINT'S CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO BEING SHIPPED TO SITE. SPRINT WILL REVIEW ALL ALTERNATES AND APPROVE OR DENY THEM. ANY ALTERNATES THAT WILL BE CONSIDERED FOR SUBSTITUTION FOR APPROVAL SHALL INCLUDE A STATEMENT OF COST REDUCTION PROPOSED FOR USE OF ALTERNATE PRODUCTS.

1. PERFORM ANY REQUIRED SITE ENVIRONMENTAL MITIGATION.

2. PREPARE GROUND BITES, PROVIDE DE-CORROSION AND ROUGH AND FINISH GROUND, AND COMPACT SURFACE TREATMENT.

3. MAINTAIN AND CONDUCT ALL ACTIVITIES FOR INSTALLATION OF UTILITIES INCLUDING ELECTRICAL AND TELLER BACKFILL.

4. INSTALL UNDERGROUND FACILITIES INCLUDING UNDERGROUND POWER AND COMMUNICATIONS CONDUITS, AND UNDERGROUND GROUNDING SYSTEM.

5. INSTALL ABOVE GROUND GROUNDING SYSTEMS.

6. PROVIDE NEW HVAC INSTALLATIONS AND REPAIRS.

7. INSTALL "SI-FRAME", CHIMNEY AND SHELTERS AS NOTED.

8. INSTALL ROADS, ACCESS WAYS, CURBS AND DRAINS AS INDICATED.

9. ACCOMPLISH REQUIRED MODIFICATION OF EXISTING FACILITIES.

10. PROVIDE ANTENNA SUPPORT STRUCTURE FOUNDATIONS.

11. PROVIDE SLABS AND EQUIPMENT PLATFORMS.

12. INSTALL COMPOUND FENCING, SIGHT SHIELDING, LANDSCAPING AND ACCESS BARRIERS.

13. PERFORM INSPECTION AND MATERIAL TESTING AS REQUIRED HEREINFTER.

14. CONDUCT SITE RESISTANCE TO EARTH TESTING AS REQUIRED HEREINFTER.

15. INSTALL TOWER, ANTENNA SUPPORT STRUCTURES AND PLATFORMS ON EXISTING TOWERS AS REQUIRED.

16. INSTALL CELL SITE PADS, MICROWAVE, GPS, COAXIAL, WAVELENGTH, ANTENNAS, CROSS BAND COUPLERS, TOWER TOP AMPLIFIERS, LOW NOISE AMPLIFIERS AND RELATED EQUIPMENT.

17. PERFORM, DOCUMENT, AND CLOSE OUT ANY CONSTRUCTION CONTROL MEASURES THAT MAY BE REQUIRED BY GOVERNMENT AGENCIES AND JURISDICTIONS.

18. REMOVE ON SITE MOBILIZED THROUGHOUT HAND-OFF AND INTERSECTION TO PLACED ON AIR.

3.2 GENERAL REQUIREMENTS FOR CIVIL CONSTRUCTION:

A. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, WASTE, DEBRIS, AND TRASH TO APPROPRIATE FACILITIES, AND SUPPLIERS MATERIALS.

B. EQUIPMENT ROADS SHALL AT ALL TIMES BE MAINTAINED BROOD CLEAN AND CLEAR OF DEBRIS.

C. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.

1. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN NOTED OR OTHERWISE INDICATED, CONTRACTOR AND ALL SUBS CONTRACTORS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.

2. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.

D. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION.

E. CONDUCT TESTING AS REQUIRED HEREIN.

3.3 DELIVERABLES:

A. CONTRACTOR SHALL REVIEW, APPROVE, AND SUBMIT TO SPRINT SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS AS REQUIRED HEREINFTER.

B. PROVIDE DOCUMENTATION INCLUDING, BUT NOT LIMITED TO THE FOLLOWING. DOCUMENTATION SHALL BE FORWARDED IN ORIGINAL FORMAT AND/OR UPLOADED INTO SITE.

1. ALL CORRESPONDENCE AND PRELIMINARY CONSTRUCTION REPORTS.

2. PROGRESS REPORTS.

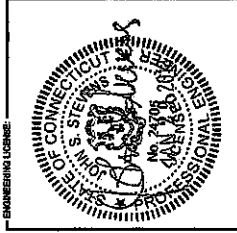
3. CIVIL CONSTRUCTION START DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

4. ELECTRICAL SOURCE COMPLETION DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

PLANS PREPARED FOR:



PLANS PROVIDED BY: INFINIGY FROM ZERO TO INFINITY This solution was created by Infinigy. 0333 Westchick Hillway Rd. Albany, NY 12242 Phone: 518-486-9790 / Fax: 518-486-9793 EMAIL: INFO@INFINIGY.COM



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Table with columns: REVISION, DESCRIPTION, DATE, BY, FOR

SHEET NAME: NEW BRITAIN GRAVEL PIT

SITE ADDRESS: CT03XC083

SHEET DESCRIPTION: 115 NORTH MOUNTAIN ROAD NEW BRITAIN, CT 06053

SHEET NUMBER: SPRINT SPECIFICATIONS

SHEET NUMBER: SP-3

SECTION 01.400 - SUBMITTALS & TESTS

PART 1 - GENERAL
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A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.

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PART 2 - PRODUCTS (NOT USED)

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3.3 PROJECT TRACKING IN SMS
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A. FREE DIGITAL PHOTOGRAPHS OF COMPLETED SITE IN PERS. FORMAT IN THE SMS PHOTO LIBRARY FOR THE SPRINT. SITE PHOTOGRAPHS SHALL BE CHECKED FOR CLARITY AND ACCURACY. THE FOLLOWING ARE REQUIRED:
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Date: March 22, 2018

Marianne Dunst
Crown Castle
3530 Toringdon Way Suite 300
Charlotte, NC 28277
(704)-405-6850

Paul J. Ford and Company
250 East Broad st., Suite 600
Columbus, OH 43215
(614) 221-6679
skadam@pjfweb.com

Subject: Structural Analysis Report

Carrier Designation: *Sprint PCS Co-Locate*
Carrier Site Number: CT03XC083
Carrier Site Name: CT03XC083

Crown Castle Designation:
Crown Castle BU Number: 876331
Crown Castle Site Name: NEW BRITAIN GRAVEL PIT
Crown Castle JDE Job Number: 450509
Crown Castle Work Order Number: 1539492
Crown Castle Application Number: 399155 Rev. 5

Engineering Firm Designation: Paul J. Ford and Company Project Number: 37518-1085.001.7805

Site Data: 115 North Mountain Rd, NEW BRITAIN, Hartford County, CT
Latitude 41° 40' 35.72", Longitude -72° 49' 17.09"
118 Foot - Monopole

Dear Ms. Dunst,

Paul J. Ford and Company is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above-mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 1160641, in accordance with application 399155, revision 5.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

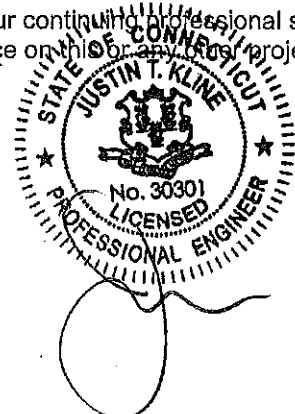
LC7: Existing + Reserved + Proposed Equipment **Sufficient Capacity**
Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph converted to a nominal 3-second gust wind speed of 97 mph per Section 1609.3 and Appendix N as required for use in the ANSI/TIA-222-G-2005 Standard, "Structural Standard for Antenna Supporting Structures and Antennas", with ANSI/TIA-222-G-1-2007 and ANSI/TIA-222-G-2-2009 Addenda per Exception #5 of Section 1609.1.1. Risk Category II, Exposure Category C and Topographic Category 1 with a maximum Topographic Factor, Kzt, of 1 were used in this analysis.

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted by:

Shardul Kadam
Project Engineer



3-22-18

Date: **March 22, 2018**

Marianne Dunst
Crown Castle
3530 Toringdon Way Suite 300
Charlotte, NC 28277
(704)-405-6850

Paul J. Ford and Company
250 East Broad st., Suite 600
Columbus, OH 43215
(614) 221-6679
skadam@pjfweb.com

Subject: Structural Analysis Report

Carrier Designation:

Sprint PCS Co-Locate
Carrier Site Number: CT03XC083
Carrier Site Name: CT03XC083

Crown Castle Designation:

Crown Castle BU Number: 876331
Crown Castle Site Name: NEW BRITAIN GRAVEL PIT
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118 Foot - Monopole

Dear Ms. Dunst,

Paul J. Ford and Company is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above-mentioned tower. This analysis has been performed in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 1160641, in accordance with application 399155, revision 5.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Existing + Reserved + Proposed Equipment

Sufficient Capacity

Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph converted to a nominal 3-second gust wind speed of 97 mph per Section 1609.3 and Appendix N as required for use in the ANSI/TIA-222-G-2005 Standard, "Structural Standard for Antenna Supporting Structures and Antennas", with ANSI/TIA-222-G-1-2007 and ANSI/TIA-222-G-2-2009 Addenda per Exception #5 of Section 1609.1.1. Risk Category II, Exposure Category C and Topographic Category 1 with a maximum Topographic Factor, Kzt, of 1 were used in this analysis.

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and Crown Castle. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted by:

Shardul Kadam
Project Engineer I

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1) INTRODUCTION

This tower is a 118 ft Monopole tower designed by ROHN in October of 1996. The tower was originally designed for a wind speed of 85 mph per TIA/EIA-222-E.

2) ANALYSIS CRITERIA

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph converted to a nominal 3-second gust wind speed of 97 mph per Section 1609.3 and Appendix N as required for use in the ANSI/TIA-222-G-2005 Standard, "Structural Standard for Antenna Supporting Structures and Antennas", with ANSI/TIA-222-G-1-2007 and ANSI/TIA-222-G-2-2009 Addenda per Exception #5 of Section 1609.1.1. Risk Category II, Exposure Category C and Topographic Category 1 were used in this analysis.

Table 1 - Proposed Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
114.0	116.0	3	alcatel lucent	TD-RRH8x20-25	1 1	1-1/4 1/2	-
		1	andrew	VHLP1-23			
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe			
		1	samsung telecommunications	WIMAX DAP HEAD			

Table 2 - Existing and Reserved Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
116.0	116.0	3	alcatel lucent	800MHz 2X50W RRH W/FILTER	-	-	1
		3	alcatel lucent	PCS 1900MHz 4x45W-65MHz			
		1	tower mounts	Pipe Mount [PM 601-3]			
114.0	116.0	1	rfs celwave	APXV9ERR18-C-A20 w/ Mount Pipe	3	1 1/4	1
	114.0	2	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe			
		1	tower mounts	Platform Mount [LP 502-1]			
108.0	108.0	3	commscope	LNx-6515DS-VTM w/ Mount Pipe	12 1	7/8 1 5/8	1
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe			
		3	ericsson	ERICSSON AIR 21 B4A B2P w/ Mount Pipe			
		3	ericsson	KRY 112 144/1			
		3	ericsson	RRUS 11 B12			
		1	tower mounts	Sector Mount [SM 801-3]			
98.0	98.0	2	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe	-	-	2
		1	cci antennas	HPA-65R-BUU-H8 w/ Mount Pipe			
		3	ericsson	RRUS 32 B2			
		6	powerwave technologies	7020.00			
		3	powerwave technologies	TT19-08BP111-001			
		1	andrew	SBNH-1D6565C w/ Mount Pipe			
		3	communication components inc.	DTMABP7819VG12A			
		3	ericsson	RRUS 11 B12			
		2	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe			
		3	powerwave technologies	7770.00 w/ Mount Pipe			
		1	raycap	DC6-48-60-18-8F			
		1	tower mounts	Platform Mount [LP 712-1]			
85.0	86.0	3	alcatel lucent	RRH2X60-AWS	13	1-5/8	1
		3	alcatel lucent	RRH2X60-PCS			
		6	andrew	CBC721-DF			
		6	andrew	HBXX-6517DS-A2M w/ Mount Pipe			

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note	
		2	antel	BXA-70040-6CF-EDIN-2 w/ Mount Pipe	1	1/2		
		4	antel	BXA-70063-6CF-2 w/ Mount Pipe				
		1	rfs celwave	DB-B1-6C-12AB-0Z				
	85.0	1	tower mounts	Platform Mount [LP 303-1]				
80.0	81.0	1	lucent	KS24019-L112A	1	1/2	1	
	80.0	1	tower mounts	Side Arm Mount [SO 701-1]				
72.0	74.0	2	argus technologies	LLPX310R w/ Mount Pipe	-	-	1	
		1	dragonwave	HORIZON COMPACT				
		1	samsung telecommunications	WIMAX DAP HEAD				
	73.0	1	andrew	VHLP1-23	-	-	3	
		1	samsung telecommunications	WIMAX DAP HEAD				
	72.0	72.0	1	argus technologies	LLPX310R w/ Mount Pipe	3 3 1	1/4 5/8 1/2	1
			1	dragonwave	A-ANT-18G-2-C			
			1	dragonwave	HORIZON COMPACT			
			1	samsung telecommunications	WIMAX DAP HEAD			
			1	tower mounts	Side Arm Mount [SO 101-3]			

- Notes:
 1) Existing Equipment
 2) Reserved Equipment
 3) Equipment Relocated to 114' Elevation

Table 3 - Design Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
-	-	-	-	-	-	-

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
GEOTECHNICAL REPORTS	FDH, 07-11435G, 01/23/2008	2192549	CCISITES
POST-MODIFICATION INSPECTION	TEP, 126879, 03/07/2013	3684848	CCISITES
TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Rohn, 34738SW, 10/24/1996	1947809	CCISITES
TOWER MANUFACTURER DRAWINGS	Rohn, 34738SW, 10/24/1996	1947800	CCISITES
POST-MODIFICATION INSPECTION	SGS, 145041, 11/21/2014	5407775	CCISITES
POST-MODIFICATION INSPECTION	SGS, 146127, 3/12/2015	5596857	CCISITES
POST-MODIFICATION INSPECTION	TEP, 25663.40942, 3/9/2016	6131239	CCISITES
TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	PJF, 41707-0508, 5/23/2008	2268906	CCISITES

3.1) Analysis Method

tnxTower (version 7.0.5.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) Monopole was reinforced in conformance with the referenced modification drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 5 - Section Capacity (Summary)

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
118 - 113	Pole	TP24x24x0.25	Pole	3.5%	Pass
113 - 108	Pole	TP24x24x0.25	Pole	10.6%	Pass
108 - 103	Pole	TP24x24x0.25	Pole	23.9%	Pass
103 - 98	Pole	TP24x24x0.25	Pole	37.4%	Pass
98 - 93	Pole	TP24x24x0.25	Pole	58.2%	Pass
93 - 90	Pole	TP24x24x0.25	Pole	70.5%	Pass
90 - 85	Pole	TP24x24x0.375	Pole	58.5%	Pass
85 - 80	Pole	TP24x24x0.375	Pole	77.7%	Pass
80 - 76.5	Pole	TP24x24x0.375	Pole	90.8%	Pass
76.5 - 76.25	Pole + Reinf.	TP24x24x0.5875	Reinf. 18 Tension Rupture	66.2%	Pass
76.25 - 74	Pole + Reinf.	TP24x24x0.5875	Reinf. 18 Tension Rupture	72.4%	Pass
74 - 73.75	Pole + Reinf.	TP24x24x0.8375	Reinf. 18 Tension Rupture	53.4%	Pass
73.75 - 68.88	Pole + Reinf.	TP24x24x0.8375	Reinf. 18 Tension Rupture	63.8%	Pass
68.88 - 68.63	Pole + Reinf.	TP24x24x0.825	Reinf. 13 Tension Rupture	64.5%	Pass
68.63 - 64.5	Pole + Reinf.	TP24x24x0.825	Reinf. 13 Tension Rupture	73.7%	Pass
64.5 - 64.25	Pole + Reinf.	TP24x24x1.025	Reinf. 9 Compression	67.4%	Pass
64.25 - 63	Pole + Reinf.	TP24x24x1.025	Reinf. 9 Compression	70.0%	Pass
63 - 62.75	Pole + Reinf.	TP24x24x0.9625	Reinf. 12 Tension Rupture	73.6%	Pass
62.75 - 60	Pole + Reinf.	TP24x24x0.9625	Reinf. 12 Tension Rupture	79.6%	Pass
60 - 59.75	Pole + Reinf.	TP30x30x0.6375	Pole	64.3%	Pass
59.75 - 54.75	Pole + Reinf.	TP30x30x0.6375	Pole	73.4%	Pass
54.75 - 49.75	Pole + Reinf.	TP30x30x0.6375	Pole	82.8%	Pass
49.75 - 49.25	Pole + Reinf.	TP30x30x0.6375	Pole	83.7%	Pass
49.25 - 49	Pole + Reinf.	TP30x30x0.7875	Reinf. 17 Tension Rupture	76.0%	Pass
49 - 44	Pole + Reinf.	TP30x30x0.7875	Reinf. 17 Tension Rupture	84.7%	Pass
44 - 42	Pole + Reinf.	TP30x30x0.7875	Reinf. 17 Tension Rupture	88.3%	Pass
42 - 41.75	Pole + Reinf.	TP30x30x0.9125	Reinf. 11 Tension Rupture	78.8%	Pass
41.75 - 36.75	Pole + Reinf.	TP30x30x0.9125	Reinf. 11 Tension Rupture	86.9%	Pass
36.75 - 34.5	Pole + Reinf.	TP30x30x0.9125	Reinf. 11 Tension Rupture	90.6%	Pass
34.5 - 34.25	Pole + Reinf.	TP30x30x1.025	Reinf. 8 Compression	82.2%	Pass
34.25 - 34	Pole + Reinf.	TP30x30x1.025	Reinf. 8 Compression	82.6%	Pass
34 - 33.75	Pole + Reinf.	TP30x30x0.925	Reinf. 8 Compression	93.1%	Pass
33.75 - 30	Pole + Reinf.	TP30x30x0.925	Reinf. 8 Compression	99.5%	Pass
30 - 29.75	Pole + Reinf.	TP36x36x0.6875	Pole	80.8%	Pass
29.75 - 28.5	Pole + Reinf.	TP36x36x0.6875	Pole	82.5%	Pass
28.5 - 28.25	Pole + Reinf.	TP36x36x0.8375	Reinf. 16 Tension Rupture	70.1%	Pass

28.25 - 23.25	Pole + Reinf.	TP36x36x0.8375	Reinf. 16 Tension Rupture	76.2%	Pass
23.25 - 23	Pole + Reinf.	TP36x36x0.95	Reinf. 16 Tension Rupture	69.6%	Pass
23 - 21.5	Pole + Reinf.	TP36x36x0.95	Reinf. 16 Tension Rupture	71.3%	Pass
21.5 - 21.25	Pole + Reinf.	TP36x36x0.8	Pole	84.7%	Pass
21.25 - 19	Pole + Reinf.	TP36x36x0.8	Pole	87.7%	Pass
19 - 18.75	Pole + Reinf.	TP36x36x0.95	Pole	73.8%	Pass
18.75 - 18.5	Pole + Reinf.	TP36x36x0.95	Pole	74.1%	Pass
18.5 - 18.25	Pole + Reinf.	TP36x36x0.85	Pole	80.9%	Pass
18.25 - 13.25	Pole + Reinf.	TP36x36x0.85	Pole	87.1%	Pass
13.25 - 12.7	Pole + Reinf.	TP36x36x0.85	Pole	87.8%	Pass
12.7 - 12.45	Pole + Reinf.	TP36x36x0.85	Pole	89.6%	Pass
12.45 - 11.5	Pole + Reinf.	TP36x36x0.85	Pole	90.8%	Pass
11.5 - 11.25	Pole + Reinf.	TP36x36x0.9	Reinf. 4 Compression	87.0%	Pass
11.25 - 10.5	Pole + Reinf.	TP36x36x0.9	Reinf. 4 Compression	87.9%	Pass
10.5 - 10.25	Pole + Reinf.	TP36x36x1.35	Reinf. 24 Compression	82.8%	Pass
10.25 - 7.5	Pole + Reinf.	TP36x36x1.35	Reinf. 24 Compression	86.0%	Pass
7.5 - 7.25	Pole + Reinf.	TP36x36x1.4	Reinf. 24 Compression	83.9%	Pass
7.25 - 6.25	Pole + Reinf.	TP36x36x1.4	Reinf. 24 Compression	85.1%	Pass
6.25 - 6	Pole + Reinf.	TP36x36x1.425	Reinf. 24 Compression	85.2%	Pass
6 - 3.73	Pole + Reinf.	TP36x36x1.8	Reinf. 24 Compression	72.5%	Pass
3.73 - 3.48	Pole + Reinf.	TP36x36x1.8	Reinf. 24 Compression	72.7%	Pass
3.48 - 2.75	Pole + Reinf.	TP36x36x1.8	Reinf. 24 Compression	73.4%	Pass
2.75 - 2.5	Pole + Reinf.	TP36x36x1.675	Reinf. 24 Compression	78.8%	Pass
2.5 - 2	Pole + Reinf.	TP36x36x1.675	Reinf. 24 Compression	79.3%	Pass
2 - 1.75	Pole + Reinf.	TP36x36x1.475	Reinf. 24 Compression	88.0%	Pass
1.75 - 0	Pole + Reinf.	TP36x36x1.475	Reinf. 24 Compression	90.0%	Pass
				Summary	
			Pole	90.8%	Pass
			Reinforcement	99.5%	Pass
			Overall	99.5%	Pass

Table 6 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connection	90	36.8	Pass
1	Flange Connection	60	77.8	Pass
1	Flange Connection	30	72.8	Pass
1	Anchor Rods	0	82.2	Pass
1	Base Plate	0	75.4	Pass
1	Base Foundation Steel	0	70.7	Pass
1	Base Foundation Soil Interaction	0	58.1	Pass

Structure Rating (max from all components) =	99.5%
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

The monopole and its foundation have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.



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RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

SPRINT Existing Facility

Site ID: CT03XC083

New Britain Gravel Pit
115 North Mountain Road
New Britain, CT 06053

April 24, 2018

EBC Project Number: 6218002920

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	22.91 %



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April 24, 2018

SPRINT

Attn: RF Engineering Manager
1 International Boulevard, Suite 800
Mahwah, NJ 07495

Emissions Analysis for Site: **CT03XC083 – New Britain Gravel Pit**

EBI Consulting was directed to analyze the proposed SPRINT facility located at **115 North Mountain Road, New Britain, CT**, for the purpose of determining whether the emissions from the Proposed SPRINT Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 850 MHz Band is approximately $567 \mu\text{W}/\text{cm}^2$. The general population exposure limit for the 1900 MHz (PCS), 2500 MHz (BRS) and the 23 GHz microwave bands are $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed SPRINT Wireless antenna facility located at **115 North Mountain Road, New Britain, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since SPRINT is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 1 CDMA channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 2) 2 LTE channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 3) 5 CDMA channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 16 Watts per Channel.
- 4) 2 LTE channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 8 LTE channels (2500 MHz (BRS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 6) 1 microwave backhaul channel (23 GHz) was analyzed for this facility. This channel has a transmit power of 1 Watt.



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- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antennas used in this modeling are the **RFS APXV9ERR18-C-A20**, **RFS APXVSPP18-C-A20** and **RFS APXVTM14-C-I20** for transmission in the 850 MHz, 1900 MHz (PCS) and 2500 MHz (BRS) frequency bands and the **Andrew VHL P1-23** for the 23 GHz microwave backhaul. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 10) The antenna mounting height centerlines of the proposed antennas are **116 feet** above ground level (AGL) for **Sector A**, **116 feet** above ground level (AGL) for **Sector B** and **116 feet** above ground level (AGL) for Sector C.
- 11) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculations were done with respect to uncontrolled / general population threshold limits.



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SPRINT Site Inventory and Power Data by Antenna

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APXV9ERR18-C-A20	Make / Model:	RFS APXVSP18-C-A20	Make / Model:	RFS APXVSP18-C-A20
Gain:	11.9 / 14.9 dBd	Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd
Height (AGL):	116 feet	Height (AGL):	116 feet	Height (AGL):	116 feet
Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)
Channel Count	10	Channel Count	10	Channel Count	10
Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts
ERP (W):	5,873.76	ERP (W):	7,537.38	ERP (W):	7,537.38
Antenna A1 MPE%	1.96 %	Antenna B1 MPE%	2.54 %	Antenna C1 MPE%	2.54 %
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	RFS APXVTM14-C-I20	Make / Model:	RFS APXVTM14-C-I20	Make / Model:	RFS APXVTM14-C-I20
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	116 feet	Height (AGL):	116 feet	Height (AGL):	116 feet
Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)
Channel Count	8	Channel Count	8	Channel Count	8
Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts
ERP (W):	6,224.72	ERP (W):	6,224.72	ERP (W):	6,224.72
Antenna A2 MPE%	1.85 %	Antenna B2 MPE%	1.85 %	Antenna C2 MPE%	1.85 %

Microwave Backhaul Data

Make / Model:	Gain	Height (AGL):	Frequency Bands	Channel Count	Total TX Power(W)	ERP (W)	MPE %	Sector
Andrew VHLP1-23	33.45 dBd	116	23 GHz	1	1	2,213.09	0.07	A

Site Composite MPE%	
Carrier	MPE%
SPRINT - Sectors B & C	4.39 %
AT&T	6.68 %
Clearwire	0.43 %
T-Mobile	2.65 %
Verizon Wireless	8.76 %
Site Total MPE %:	22.91 %

SPRINT Sector A Total:	3.88 %
SPRINT Sector B Total:	4.39 %
SPRINT Sector C Total:	4.39 %
Site Total:	22.91 %

SPRINT _ Frequency Band / Technology Max Power Values (Sectors B & C)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
Sprint 850 MHz CDMA	1	437.55	116	1.30	850 MHz	567	0.23%
Sprint 850 MHz LTE	2	437.55	116	2.60	850 MHz	567	0.47%
Sprint 1900 MHz (PCS) CDMA	5	622.47	116	9.25	1900 MHz (PCS)	1000	0.92%
Sprint 1900 MHz (PCS) LTE	2	1,556.18	116	9.25	1900 MHz (PCS)	1000	0.92%
Sprint 2500 MHz (BRS) LTE	8	778.09	116	18.49	2500 MHz (BRS)	1000	1.85%
						Total:	4.39%



EBI Consulting

environmental | engineering | due diligence

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the SPRINT facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

SPRINT Sector	Power Density Value (%)
Sector A:	3.81 %
Sector B:	4.39 %
Sector C:	4.39 %
SPRINT Maximum Total (per sector):	4.39 %
Site Total:	22.91 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **22.91 %** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Zsamba, Anne Marie (Contractor)

From: TrackingUpdates@fedex.com
Sent: Wednesday, May 2, 2018 9:04 AM
To: Zsamba, Anne Marie (Contractor)
Subject: FedEx Shipment 772108309199 Delivered



Your package has been delivered

Tracking # 772108309199

Ship date:
Mon, 4/30/2018
Rebecca
Alescio
Crown Castle
Clifton Park,
NY 12065
US




Delivery date:
Wed, 5/2/2018 9:01 am
Ms. Erin
Stewart,
Mayor
City of New Britain
27 West Main Street
NEW BRITAIN, CT 06051
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number: 772108309199
Status: Delivered:
05/02/2018 09:01
AM Signed for By:
C.BAILEY
Door Tag number: DT104897134092
Invoice number: 982896
Reference: 1765.6680

Signed for by: C.BAILEY
Delivery location: NEW BRITAIN,
CT
Delivered to: Receptionist/Front
Desk
Service type: FedEx Priority
Overnight
Packaging type: FedEx Pak
Number of pieces: 1
Weight: 1.00 lb.
Special handling/Services: Adult Signature
Required
Deliver Weekday
Standard transit: 5/1/2018 by 10:30
am

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All weights are estimated.

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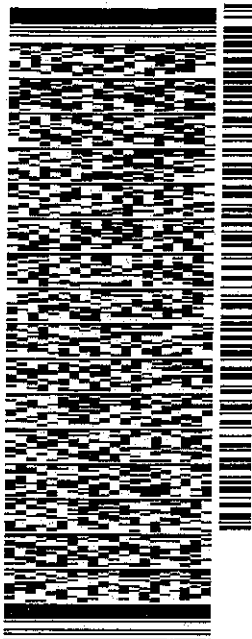
Thank you for your business.

ORIGIN ID: GFLA (518) 373-3547
REBECCA ALESCIO
CROWN CASTLE
3 CORPORATE PARK DRIVE
SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

SHIP DATE: 30APR18
ACTWGST: 1.00 LB
CAD: 104924194MINET3980
BILL SENDER

TO **MS. ERIN STEWART, MAYOR**
CITY OF NEW BRITAIN
27 WEST MAIN STREET

NEW BRITAIN CT 06051
(860) 826-3300 REF: 1765.6690
INV: 982896 DEPT:



J181118012501uv

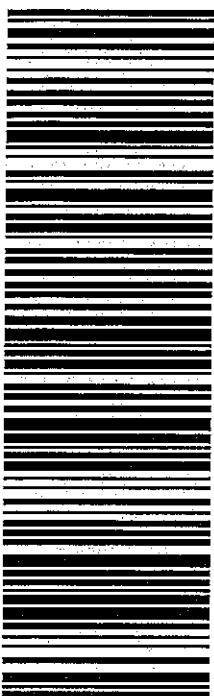
552J2782B/DCA5

TRK# 7721 0830 9199
0201

TUE - 01 MAY 10:30A
PRIORITY OVERNIGHT

EB MPEA

ASR
06051
CT-US BDL



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Zsamba, Anne Marie (Contractor)

From: TrackingUpdates@fedex.com
Sent: Wednesday, May 2, 2018 9:04 AM
To: Zsamba, Anne Marie (Contractor)
Subject: FedEx Shipment 772108316720 Delivered

Your package has been delivered

Tracking # 772108316720



Ship date:
Mon,
4/30/2018
Rebecca
Alescio
Crown Castle
Clifton Park,
NY 12065
US




Delivery date:
Wed,
5/2/2018
9:01 am
Ms. Marion
Fischbein,
Zoning Board
City of New
Britain
27 West Main
Street
Room 311
NEW
BRITAIN, CT
06051
US

Shipment Facts

Our records indicate that the following package has been delivered.

Tracking number: 772108316720
Status: Delivered:
05/02/2018 09:01
AM Signed for By:
C.BAILEY
Door Tag number: DT104897134092
Invoice number: 982896
Reference: 1765.6680

Signed for by: C.BAILEY
Delivery location: NEW BRITAIN,
CT
Delivered to: Receptionist/Front
Desk
Service type: FedEx Priority
Overnight
Packaging type: FedEx Pak
Number of pieces: 1
Weight: 1.00 lb.
Special handling/Services: Adult Signature
Required
Deliver Weekday
Standard transit: 5/1/2018 by 10:30
am

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REBECCA ALESSIO
CROWN CASTLE
3 CORPORATE PARK DRIVE
SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

SHIP DATE: 30 APR 18
ACTWGT: 1.00 LB
CAD: 104924704INNET3980

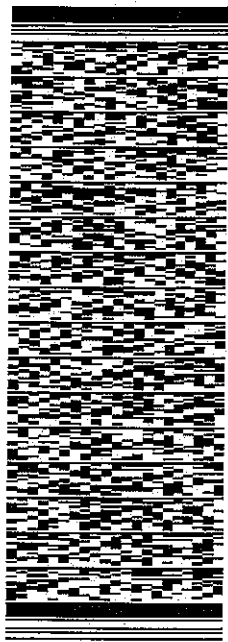
BILL SENDER

TO **MS. MARION FISCHBEIN, ZONING BOARD**

CITY OF NEW BRITAIN
27 WEST MAIN STREET
ROOM 314

NEW BRITAIN CT 06051
(860) 826-3430 REF: 1765 6890
NY 992896
PO DEPT.

552.02782B/DCA5



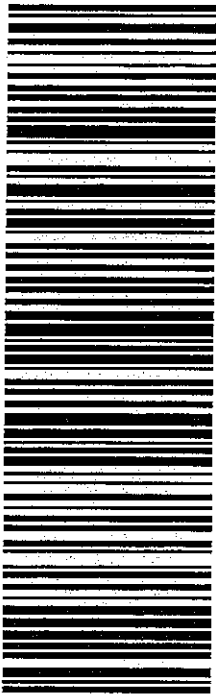
J181118912601uv

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TUE - 01 MAY 10:30A
PRIORITY OVERNIGHT

EB MPEA

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CT-US BDL



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CROWN CASTLE - ETA PROPERTY
3530 TORINGDON WAY - SUITE 300
CHARLOTTE, NC 28877

13835

PAY TO THE ORDER OF

Connecticut Signy Cancel

DATE 4/30/18

32-61/11-10

Six hundred twenty five dollars & xx/100

\$625.00

CHASE



JPMorgan Chase Bank, N.A.

www.chase.com

Spent 2018 of APR CTO3X6083

FOR 671033134155 450509

VALID FOR 180 DAYS

DOLLARS

⑆013835⑆ 1111000614⑆

464638118⑆

Mac E P

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SUITE 101
CLIFTON PARK, NY 12065
UNITED STATES US

SHIP DATE: 03MAY18
ACTWGT: 2.00 LB
CAD: 104924194/NET3980
BILL SENDER

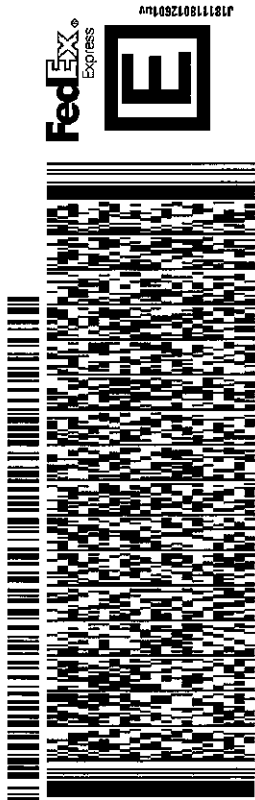
TO **MELANIE BACHMAN**
CONNECTICUT SITING COUNCIL
10 FRANKLIN SQUARE

552J27828IDCA5

NEW BRITAIN CT 06051

(860) 827-2951 REF: 1763.6680
INV. 982696

PO. DEPT:



FRI - 04 MAY 10:30A
PRIORITY OVERNIGHT
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TRK# **7721 4222 1480**

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876.331 CT03XC083

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