

January 23, 2012

Robert Stein, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: MetroPCS Connecticut Siting Council ("CSC") Approved Sites Complete

Dear Mr. Stein:

The following is written confirmation as requested that certain MetroPCS Massachusetts, LLC ("MetroPCS") installations have been completed.

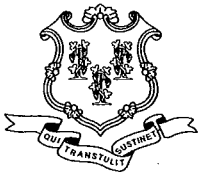
TS-METROPCS-033-110720MA-	160 West Street, Cromwell CT	(HFC0212A)
TS-METROPCS-078-110622-	1725 Strafford Road, Mansfield CT	(HFC1246A)
TS-METROPCS-003-110622-	33 Janowski Road, Ashford CT	(HFC1248A)
TS-METROPCS-043-110713MA-	148 Roberts Street, East Hartford CT	(HFC1287B)
TS-METROPCS-110-110713MA-	10 Sparks Street, Plainville, CT	(HFC1548A)
TS-METROPCS-049-110713MA-	4 Oliver Road, Enfield CT	(HFC1552A)
TS-METROPCS-131-110720MA-	1394 Rt 322, Southington CT	(NHC0027A)
TS-METROPCS-108-110720MA-	338 Oxford Road, Oxford CT	(NHC0246B)
EM-METROPCS-101-110801-	50 Devine Street, North Haven CT	(NHC0455B)

I have attached for your reference copies of the approvals.

Please feel free to contact me if you have any questions.

Thank you,

Kate Rugman
Zoning Manager
metroPCS - Boston Market
285 Billerica Road
Chelmsford, MA 01824
phone: 978-244-7287
cell: 617-899-0828
fax: 978-244-7240



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

July 14, 2011

William B. Abbott
JLee Associates Inc.
121 Overbrook Road
Madison, CT 06443

RE: **TS-METROPCS-003-110622** - MetroPCS request for an order to approve tower sharing at an existing telecommunications facility located at 33 Janowski Road, Ashford, Connecticut.

Dear Mr. Abbott:

At a public meeting held July 14, 2011, 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.

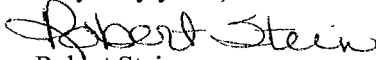
This decision is under the exclusive jurisdiction of the Council. This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower. Any deviation from this format may result in the 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 June 17, 2011, 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 Ralph H. Fletcher, First Selectman, Town of Ashford
Richard Dziadus, Zoning Enforcement Officer, Town of Ashford
Crown Castle USA, Inc.



JLee Associates Inc.
121 Overbrook Road
Madison CT 06443

William B. Abbott

WRITER'S DIRECT DIAL: (203) 376-9186
E-Mail Address: babbott@jleeassociates.net

RECEIVED
JUL - 6 2011
CONNECTICUT
SITING COUNCIL

July 5, 2011

Ms. Linda Roberts,
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Confirmation of town notification regarding MetroPCS application for the shared use of the existing telecommunications facility located at 33 Janoski Road, Ashford, Connecticut (MetroPCS site Number HFC1248)

Dear Ms. Roberts:

MetroPCS has retained JLee Associates to file this Tower Sharing Proposal with the Connecticut Siting Council on its behalf. This letter is to confirm the notification of the Town of Ashford. The following were sent copies of the request

The Honorable Ralph H. Fletcher
First Selectman
5 Town Hall Road
Ashford CT 06278

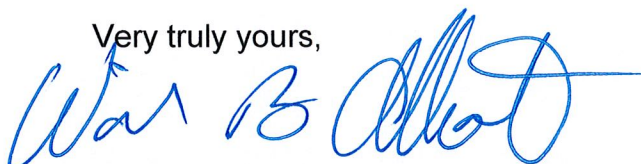
Ms. Linda Roberts, Executive Director
Connecticut Siting Council
July 5, 2011
Page 2

Also copied;

Barbara B. Metsack
Town Clerk
5 Town Hall Road
Ashford CT 06278

Please don't hesitate to contact me if there are any questions regarding this matter.

Very truly yours,

A handwritten signature in blue ink, appearing to read "W B Abbott", with a long horizontal flourish extending to the right.

William B. Abbott

JLee Associates Inc
121 Overbrook Road
Madison CT 06443

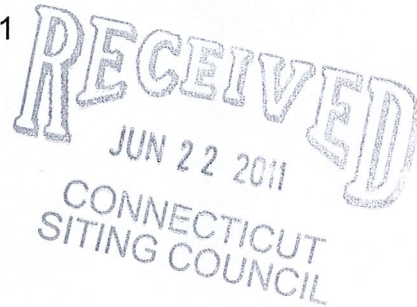
ORIGINAL

William B. Abbott

WRITER'S DIRECT DIAL: (203) 376-9186
E-Mail Address: babbott@jleeassociates.net

June 17, 2011

Ms. Linda Roberts,
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051



RE: Request of metroPCS for approval of the shared use of the existing telecommunications facility located at 33 Janowski Road, Ashford, Connecticut (metroPCS Site No. HFC1248)

Dear Ms. Roberts:

MetroPCS has retained JLee Associates Inc. to file this Tower Sharing Proposal with the Connecticut Siting Council on its behalf.

Introduction

Crown Castle USA ("Crown") is the owner of a telecommunications facility located at 33 Janowski Road, Ashford, Connecticut ("Facility"). MetroPCS seeks approval to share this Facility. MetroPCS hereby requests a finding from the Connecticut Siting Council ("Council") that its shared use of this Facility is technically, legally, environmentally and economically feasible and meets public safety concerns in accordance with Section 16-50aa of the Connecticut General Statutes ("C.G.S."), and requests the Council issue an order approving the proposed shared use of the Facility.

Background

The subject site, owned by Crown, is located at 33 Janowski Road, Ashford Connecticut (latitude 41° 57' 7.7", longitude 72° 11' 43.9"). The site currently supports a 192 foot steel lattice tower ("Existing Tower") and appurtenant equipment buildings.

Tower Sharing Proposal

The purpose of this Tower Sharing Proposal is to allow metroPCS to utilize an existing facility rather than to construct a new tower in the Town of Ashford. This Facility is the most viable co-location opportunity in the area. MetroPCS has entered into a lease agreement with Crown for the placement of antennas and associated equipment.

A. Existing Tower as a "Facility"

For the purposes of this Tower Sharing Proposal and pursuant to Section 16-50aa of the Connecticut General Statutes, "... Facility means a tower owned or operated for a commercial or public purpose by a person, firm, corporation or a public agency which uses such tower for transmitting or receiving signals in the electromagnetic spectrum pursuant to a Federal Communications Commission license." The Existing Tower is currently used for this purpose. As the Existing Tower was built to support multiple carriers, metroPCS seeks approval to use the Facility for this purpose.

B. Project Description

MetroPCS is licensed by the Federal Communications Commission ("FCC") to provide wireless service throughout the State of Connecticut, including the Ashford area.

MetroPCS proposes to install six antennas to the Existing Tower at an antenna centerline of 160 feet. (See plans dated April 26, 2011 attached hereto as Exhibit A).

The associated equipment associated with the antennas would be located near the base of the Existing Tower, as depicted in Exhibit A.

C. Compliance with C.G.S. § 16-50aa

The General Assembly finds that the sharing of towers for fair consideration whenever technically, legally, environmentally and economically feasible, and whenever such sharing meets public safety concerns, will avoid the unnecessary proliferation of towers and is in the public interest. A discussion of how the proposed co-location by metroPCS will be in conformance with C.G.S. § 16-50aa is outlined below:

1. Technical Analysis

MetroPCS has reviewed the technical parameters of the Facility and determined it is extremely unlikely that the proposed metroPCS antennas will result in interference, due to the sectorized positioning of the antenna, vertical separation, and low power. MetroPCS does not intend to cause interference, and will correct any interference in the unlikely event that it does occur.

The Existing Tower was designed to accommodate multiple carriers. A structural analysis dated May 17, 2011 evidencing the structural capability of the Existing Tower to accommodate the proposed metroPCS installation is attached hereto as Exhibit B. As indicated in the letter, the Existing Tower is capable of supporting the installation proposed by metroPCS.

2. Legal Feasibility

MetroPCS has entered into a lease agreement with Crown for the purposes of locating antenna on the Existing Tower and associated equipment adjacent to the base of the Existing Tower. The Council has the authority pursuant to C.G.S. §16-50aa to issue orders approving the proposed shared use of the Facility by metroPCS.

3. Environmental Feasibility

The proposed shared use would have a minimal environmental effect for the following reasons:

- This proposed shared use will not increase the height of the Existing Tower.
- This proposed shared use will not expand the compound area beyond that already approved.
- The proposed installation by metroPCS will have an insignificant visual impact and will not cause any significant change or alteration in the physical or environmental characteristics of the Site.
- This proposed shared use will not increase noise levels at the Facility site boundary by six decibels.
- This proposed shared use, including operation of the metroPCS antennas, will not increase the total radio frequency electromagnetic radiation of the power density measured at the site to or above the standard adopted by the Federal Communications Commission. According to a RF Exposure Analysis prepared by metroPCS dated May 25, 2011, metroPCS' operations would add 3.06% of the FCC Standard. Therefore, the calculated "worst case" power density for the planned combined operation at the site including all of the proposed antennas would be 19.85% of the FCC Standard as calculated for a mixed frequency site as evidenced by the engineering exhibit attached hereto as Exhibit C. These calculations show that metroPCS will be well below the FCC-mandated limits in all locations around the Existing Tower, even with extremely conservative assumptions.
- The proposed installation by metroPCS will not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete, the proposed metroPCS installation will not generate any traffic other than periodic maintenance visits.

Ms. Linda Roberts, Executive Director
Connecticut Siting Council
June 17, 2011
Page 5

The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the Facility. The proposed shared use of the Existing Tower by metroPCS is thus environmentally feasible.

4. Economic Feasibility

As previously mentioned, metroPCS and Crown have agreed upon acceptable terms and entered into a lease agreement with one another. The proposed shared use of the Facility is therefore economically feasible.

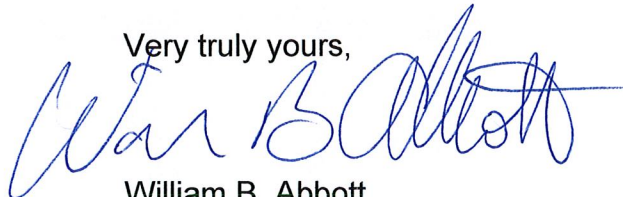
5. Public Safety Concerns

There are no known public safety concerns associated with this Tower Sharing Proposal. As stated above, the Existing Tower will be structurally capable of supporting the metroPCS antennas. MetroPCS anticipates that the provision of new or improved phone service made possible by the shared use of the Facility will enhance the safety and welfare of area residents.

Conclusions

The above Tower Sharing Proposal satisfies all of the criteria set forth in Section 16-50aa of the Connecticut General Statutes, including technical, legal, environmental and economic feasibility, and meets public safety concerns. MetroPCS respectfully requests that the Council issue an order approving the proposed shared use.

Very truly yours,

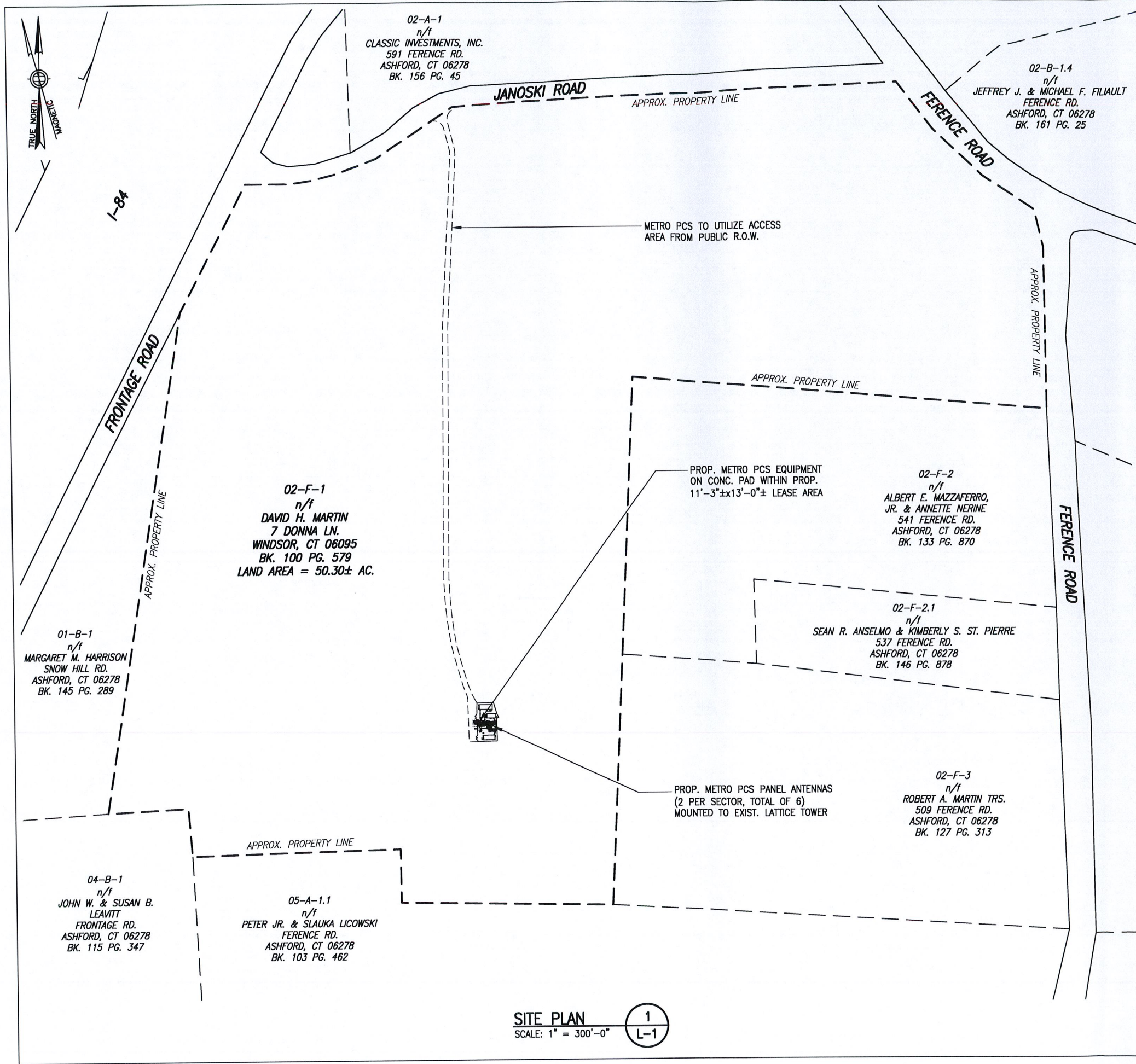


William B. Abbott

Enclosures

cc: Kate Rugman, metroPCS
Kenneth Baldwin, Esq., Crown Castle, USA

EXHIBIT A



SITE PLAN
SCALE: 1" = 300'-0"

1
L-1

metroPCS
Unlimit Yourself.

285 BILLERICA ROAD
THIRD FLOOR
CHELMSFORD, MA 01824
TEL (978) 244-7200
FAX (978) 244-7240

**CHAPPELL
ENGINEERING
ASSOCIATES, LLC**
Civil · Structural · Land Surveying

R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 301
MARLBOROUGH, MA 01752
TEL (508) 481-7400
FAX (508) 481-7406

0	04/26/11	LEASE EXHIBIT	CMC	JMT	JMT
NO.	DATE	REVISIONS	BY	CHK	APP'D
NOT TO SCALE		DESIGNED BY: JMT	DRAWN BY: CMC		

APPROVALS

SITE OWNER	DATE
CONSTRUCTION MANAGER	DATE
RF ENGINEER	DATE
SITE ACQUISITION	DATE

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HERIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

SITE ID
HFC1248A

SITE NAME
CROWN JANOSKI ROAD
ASHFORD
(CROWN SITE #876345)

SITE ADDRESS
33 JANOSKI ROAD
ASHFORD, CT
06278

METRO PCS LEASE AREA

EQUIPMENT: 11'-3"±x13'-0"±=108.0 S.F.

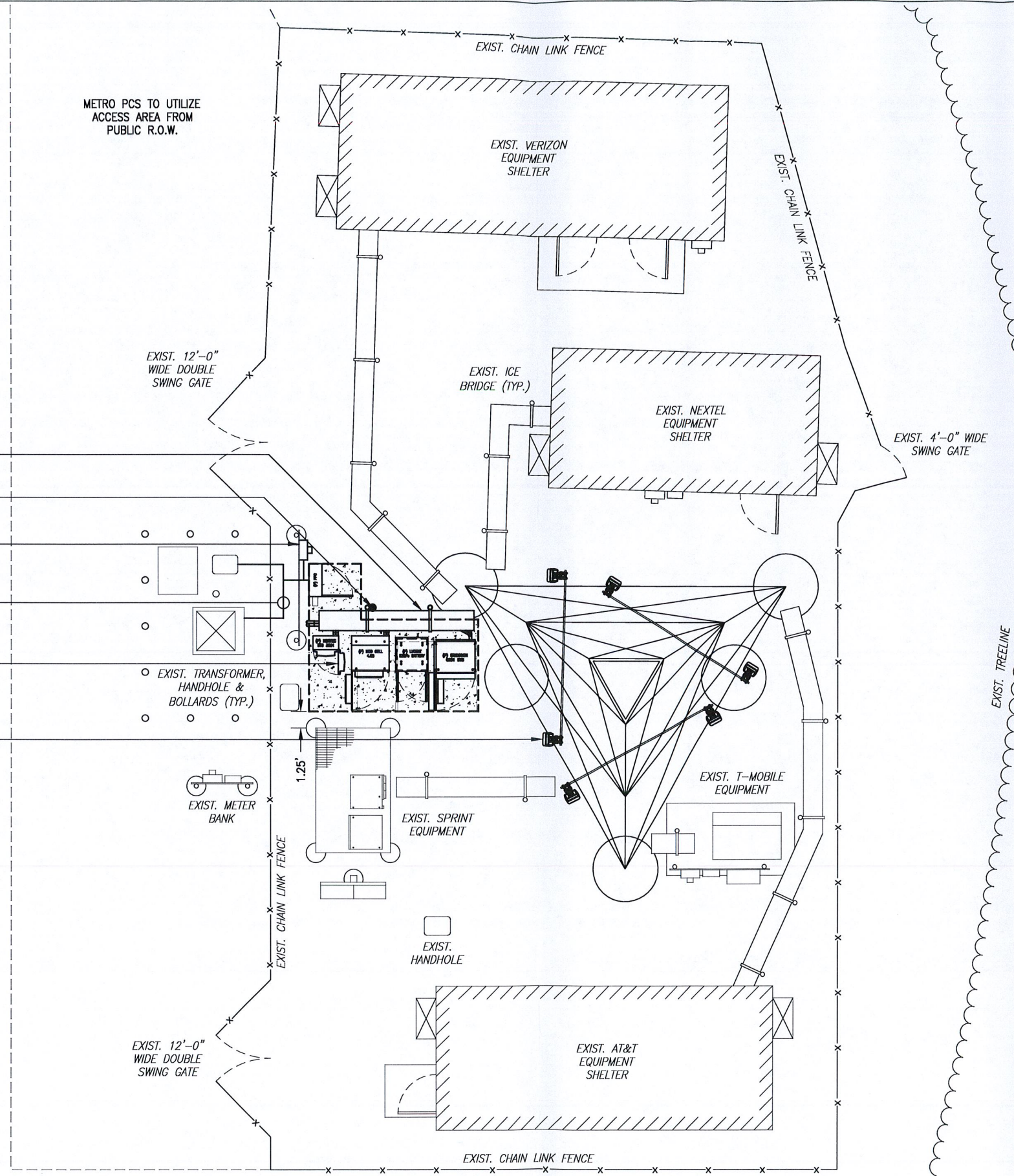
TOTAL: = 108.0 S.F.

PROJECT NO.	DRAWING NAME	DATE	SHEET NO.	REV
736.385	L-1	04/26/11	1 OF 3	0



- PROP. METRO PCS ICE BRIDGE
- PROP. METRO PCS GPS/GSM ANTENNA MOUNTED TO PROP. ICE BRIDGE
- PROP. METER & 200A CB ON EXIST. BACKBOARD (REMOVE EXIST. METER)
- PROP. U/G UTILITY RUN FROM PROP. METER & EXIST. TELCO HANDHOLE
- PROP. METRO PCS EQUIPMENT ON CONC. PAD WITHIN PROP. 11'-3"±x13'-0"± LEASE AREA (REMOVE EXIST. CONC. PADS)
- PROP. METRO PCS PANEL ANTENNAS (2 PER SECTOR, TOTAL OF 6) MOUNTED TO EXIST. LATTICE TOWER

METRO PCS TO UTILIZE ACCESS AREA FROM PUBLIC R.O.W.



COMPOUND PLAN

SCALE: 1" = 12'-0"



metroPCS
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285 BILLERICA ROAD
THIRD FLOOR
CHELMSFORD, MA 01824
TEL (978) 244-7200
FAX (978) 244-7240



Civil · Structural · Land Surveying

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MARLBOROUGH, MA 01752
TEL (508) 481-7400
FAX (508) 481-7406

0	04/26/11	LEASE EXHIBIT	CMC	JMT	JMT
NO.	DATE	REVISIONS	BY	CHK	APP'D

NOT TO SCALE DESIGNED BY: JMT DRAWN BY: CMC

APPROVALS

SITE OWNER _____ DATE _____

CONSTRUCTION MANAGER _____ DATE _____

RF ENGINEER _____ DATE _____

SITE ACQUISITION _____ DATE _____

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HERIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

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HFC1248A

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ASHFORD
(CROWN SITE #876345)

SITE ADDRESS
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ASHFORD, CT
06278

METRO PCS LEASE AREA

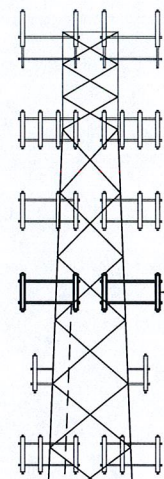
EQUIPMENT: 11'-3"±x13'-0"±=108.0 S.F.

TOTAL: = 108.0 S.F.

PROJECT NO.	DRAWING NAME	DATE	SHEET NO.	REV
736.385	L-2	04/26/11	2 OF 3	0

- ⊕ EXIST. SPRING PANEL ANTENNAS
EL. = 190'-0"± ATOC
- ⊕ EXIST. VERIZON PANEL ANTENNAS
EL. = 180'-0"± ATOC
- ⊕ EXIST. NEXTEL PANEL ANTENNAS
EL. = 170'-0"± ATOC
- ⊕ PROP. METRO PCS (6) PANEL ANTENNAS
EL. = 160'-0"± ATOC
- ⊕ EXIST. T-MOBILE PANEL ANTENNAS
EL. = 150'-0"± ATOC
- ⊕ EXIST. AT&T PANEL ANTENNAS
EL. = 140'-0"± ATOC

TOP OF EXIST. LATTICE TOWER
EL. = 192'-0"± ATOC



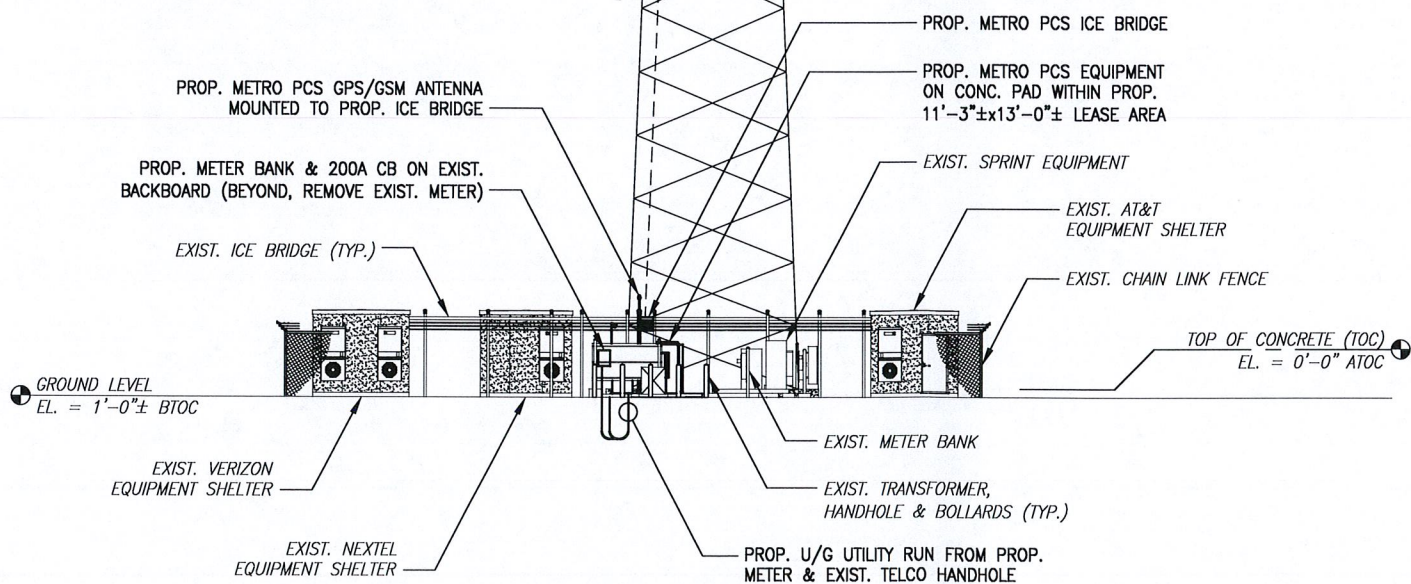
PROP. METRO PCS PANEL ANTENNAS
(2 PER SECTOR, TOTAL OF 6)
MOUNTED TO EXIST. LATTICE TOWER

PROP. COAX RUN UP FACE OF TOWER
ON PROP. WAVEGUIDE LADDER

⊕ EXIST. VERIZON GPS ANTENNA
EL. = 98'-0"± ATOC

STRUCTURAL NOTES

1. STRUCTURAL ANALYSIS REPORT PENDING.
2. COAX ATTACHMENT METHOD TO FOLLOW RECOMMENDATIONS OUTLINED IN THE RESULTS OF THE APPROVED STRUCTURAL ANALYSIS.
3. MODIFICATIONS TO THE STRUCTURE, IF REQUIRED, SHALL BE INSTALLED PER APPROVED DESIGN.



PROP. METRO PCS ICE BRIDGE

PROP. METRO PCS EQUIPMENT
ON CONC. PAD WITHIN PROP.
11'-3"±x13'-0"± LEASE AREA

EXIST. SPRINT EQUIPMENT

EXIST. AT&T
EQUIPMENT SHELTER

EXIST. CHAIN LINK FENCE

TOP OF CONCRETE (TOC)
EL. = 0'-0" ATOC

GROUND LEVEL
EL. = 1'-0"± BTOC

EXIST. VERIZON
EQUIPMENT SHELTER

EXIST. NEXTEL
EQUIPMENT SHELTER

EXIST. METER BANK

EXIST. TRANSFORMER,
HANDHOLE & BOLLARDS (TYP.)

PROP. U/G UTILITY RUN FROM PROP.
METER & EXIST. TELCO HANDHOLE

WEST TOWER ELEVATION
SCALE: 1" = 30'-0"

1
L-3

metroPCS
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285 BILLERICA ROAD
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CHELMSFORD, MA 01824
TEL (978) 244-7200
FAX (978) 244-7240



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NO.	DATE	REVISIONS	BY	CHK	APP'D
0	04/26/11	LEASE EXHIBIT		CMC	JMT

NOT TO SCALE DESIGNED BY: JMT DRAWN BY: CMC

APPROVALS

SITE OWNER _____ DATE _____

CONSTRUCTION MANAGER _____ DATE _____

RF ENGINEER _____ DATE _____

SITE ACQUISITION _____ DATE _____

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METRO PCS LEASE AREA

EQUIPMENT: 11'-3"±x13'-0"±=108.0 S.F.

TOTAL: = 108.0 S.F.

PROJECT NO.	DRAWING NAME	DATE	SHEET NO.	REV
736.385	L-3	04/26/11	3 OF 3	0

EXHIBIT B



Date: **May 17, 2011**

Ms. Veronica Harris
Crown Castle USA Inc.
1200 McArthur Blvd
Mahwah, NJ 07430
(201) 236-9094

IETS
129 Greenwich Road
Charlotte, NC 28211
(704) 522-1131
towerdata@iets.com

Subject: Structural Analysis Report

Carrier Designation: **Metro PCS Co-Locate**
Carrier Site Number: HFC1248
Carrier Site Name: Crown Janoski Road Ashford

Crown Castle Designation: **Crown Castle BU Number:** 876345
Crown Castle Site Name: SKY HILL
Crown Castle JDE Job Number: 156414
Crown Castle Work Order Number: 405697

Engineering Firm Designation: **IETS Project Number:** 2011-70055

Site Data: **33 Janowski Road, Ashford, Windham County, CT**
Latitude 41° 57' 7.7", Longitude -72° 11' 43.9"
192 Foot - Self Support Tower

Dear Ms. Harris,

IETS 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 414583, in accordance with application 122099, revision 0.

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:

LC1: Existing + Reserved + Proposed Equipment **Sufficient Capacity**
Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

The analysis has been performed in accordance with the TIA/EIA-222-F standard and the 2009 IBC based upon a wind speed of 85 mph fastest mile.

All modifications and equipment proposed in this report shall be installed in accordance with the attached drawings for the determined available structural capacity to be effective.

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

Respectfully submitted by:

William A. Griswold, Jr., P.E.
Chief Engineer

Binh Vo
Project Engineer



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RISATower Output

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Additional Calculations

1) INTRODUCTION

This tower is a 192 ft Self Support tower designed by ROHN in December of 1996. The tower was originally designed for a wind speed of 90 mph per TIA/EIA-222-E.

2) ANALYSIS CRITERIA

The structural analysis was performed for this tower in accordance with the requirements of TIA/EIA-222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures using a fastest mile wind speed of 85 mph with no ice, 28.1 mph with 0.75 inch ice thickness and 60 mph under service loads.

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
		6	Andrew	HBX-6516DS-VTM			
160	160	6	Kathrein	860 10118	12	1-5/8	1
		1	Mount	Sector Mount [SM 405-3]	1	3/8	

Notes:

- 1) Proposed Equipment

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
	192	9	MLA	MLA_ANTENNA	9	1-5/8	2
190		6	Decibel	DB980H90E-M			
	190	1	Mount	Sector Mount [SM 504-3]	6	1-5/8	1
		3	Antel	BXA-70063/6CF			
	181	6	Antel	LPA-80080/4CF			
180		3	Rymosa Wireless	MG D5-800Tx	-	-	3
	180	6	RFS Celwave	FD9R6004/2C-3L			
		1	Mount	Sector Mount [SM 504-3]	12	1-5/8	1
170	172	9	Allgon	7130.16.33.00			
	170	1	Mount	Sector Mount [SM 502-3]	9	1-5/8	1
		2	Dapa	79210			
150	151	1	EMS	RR65-19-02DP	4	1/2	1
	150	2	Mount	Side Arm [SO 307-1]			
		6	ADC	TMA			
	141	6	CSS	DUO1417-8686			
140		3	Powerwave Tech.	7770.00	12	7/8	1
	140	3	Powerwave Tech.	LGP13519			
		1	Mount	Sector Mount [SM 502-3]			
98	101	1	Symmetricom	58532A			
	98	1	tower mounts	Pipe Mount (PM 701-1)	1	1/2	1

Notes:

- 1) Existing Equipment – Pending Application
 2) MLA Equipment is controlled at this level.
 3) Reserved Equipment

Table 3 - Design Antenna and Cable Information

Center Line Elevation (ft)	Number of Antennas	Antenna Model	Number of Feed Lines	Feed Line Size (in)
189	12	DB980H90E-M	12	2-1/4
170	12	ALP9212	12	1-5/8
150	12	ALP9212	12	1-5/8
80	1	GPS Antenna	1	7/8

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
4-GEOTECHNICAL REPORTS	FDH	2189896	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Rohn	1631622	CCISITES
4-TOWER MANUFACTURER DRAWINGS	Rohn	1631630	CCISITES

3.1) Analysis Method

RISATower (version 5.4.2.0), 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

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

4) ANALYSIS RESULTS

Table 5 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	192 - 180	Leg	ROHN 2.5 STD	1	-7.71	55.08	14.0	Pass
T2	180 - 160	Leg	ROHN 2.5 STD	27	-38.16	50.25	75.9	Pass
T3	160 - 140	Leg	ROHN 3 EH	54	-71.44	83.78	85.3	Pass
T4	140 - 120	Leg	ROHN 4 EH	75	-110.22	139.06	79.3	Pass
T5	120 - 100	Leg	ROHN 5 EH	96	-146.30	206.28	70.9	Pass
T6	100 - 80	Leg	ROHN 6 EHS	117	-177.97	212.19	83.9	Pass
T7	80 - 60	Leg	ROHN 6 EH	132	-212.58	264.32	80.4	Pass
T8	60 - 40	Leg	ROHN 8 EHS	147	-245.02	332.51	73.7	Pass
T9	40 - 20	Leg	ROHN 8 EHS	162	-277.78	332.55	83.5	Pass
T10	20 - 0	Leg	ROHN 8 EHS	177	-310.65	332.54	93.4	Pass
T1	192 - 180	Diagonal	L1 3/4x1 3/4x3/16	8	-1.98	7.92	25.0	Pass
T2	180 - 160	Diagonal	L2x2x3/16	33	-4.92	6.91	71.2	Pass
T3	160 - 140	Diagonal	L2 1/2x2 1/2x1/4	60	-6.59	10.95	60.2	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T4	140 - 120	Diagonal	L2 1/2x2 1/2x1/4	81	-7.95	8.36	76.7 (b)	
T5	120 - 100	Diagonal	L3x3x1/4	102	-8.49	11.58	95.1	Pass
T6	100 - 80	Diagonal	L3 1/2x3 1/2x1/4	123	-10.12	12.62	73.4	Pass
T7	80 - 60	Diagonal	L4x4x1/4	138	-11.08	16.02	80.2	Pass
T8	60 - 40	Diagonal	L4x4x5/16	153	-10.72	16.54	82.3 (b)	Pass
T9	40 - 20	Diagonal	L4x4x5/16	168	-12.65	14.26	69.2	Pass
T10	20 - 0	Diagonal	L4x4x3/8	183	-13.19	14.55	89.7 (b)	Pass
T1	192 - 180	Top Girt	L1 3/4x1 3/4x3/16	5	-0.32	3.71	64.8	Pass
							70.2 (b)	Pass
							88.7	Pass
							90.7	Pass
							8.6	Pass
Summary								
							93.4	Pass
							95.1	Pass
							8.6	Pass
							92.6	Pass
							95.1	Pass

Table 6 - Tower Component Stresses vs. Capacity - LC1

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	-	64.5	Pass
	Base Foundation	-	69.0	Pass
Structure Rating (max from all components) =				95.1%

Notes:

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

EXHIBIT C

Power Density Calculations

<u>Control Number</u>	<u>Site</u>	<u>Carrier</u>	<u># Ch</u>	<u>Watts/Ch</u>	<u>Ant Ht</u>	<u>Power Density (mW/cm2)</u>	<u>MHz</u>	<u>S</u>	<u>%MPE</u>	<u>Site Total</u>
EM-CING-003-077-077-1	Ashford - 36 Janowski Road	Cingular UMTS	1	500	140	0.0092	880	0.5867	1.56%	
EM-CING-003-077-077-1	Ashford - 36 Janowski Road	Cingular GSM	2	296	140	0.0109	880	0.5867	1.85%	
EM-CING-003-077-077-1	Ashford - 36 Janowski Road	Cingular GSM	2	427	140	0.0157	1900	1.0000	1.57%	
EM-VER-003-110303	Ashford - Janowski Road	Verizon	9	256	180	0.0256	869	0.5793	4.41%	
EM-VER-003-110303	Ashford - Janowski Road	Verizon	3	329	180	0.0110	1970	1.0000	1.10%	
EM-VER-003-110303	Ashford - Janowski Road	Verizon	1	760	180	0.0084	757	0.5047	1.67%	
EM-OCI-003-990520	Ashford - Janowski Road	VoiceStream	1	823	150	0.0132	1930	1.0000	1.32%	
EM-AT&T-003-020319	Ashford - Janowski Road	Nextel	9	100	170	0.0112	851	0.5673	1.97%	
EM-AT&T-003-020319	Ashford - Janowski Road	Sprint	11	122	190	0.0134	1962.5	1.0000	1.34%	16.79%
	Ashford - Janowski Road	metroPCS	3	727	160	0.0306	2140	1.0000	3.06%	19.85%



STATEMENT OF Frantz Pierre, RADIO FREQUENCY ENGINEER

I, Frantz Pierre, state as follows:

I have a degree in Electrical Engineering from Miami Dade College and an IT degree from American Intercontinental University and have worked as a Radio Frequency Engineer for the past 13 years. I am a Senior Radio Frequency Engineer for the New England Region of metroPCS, with an office at 1 Federal Street, Springfield, Massachusetts. I am responsible for the metroPCS network design in Ashford. I write this Statement based upon my personal knowledge and in support of the accompanying application.

metroPCS is an FCC licensed provider of wireless communications services throughout New England including Ashford, CT.

In order to meet its obligations under the Code of Federal Regulations [47 C.F.R. § 27.14\(a\)](#), metroPCS must have in place a network of "cell sites" to serve mobile telephones or portable wireless devices throughout its license areas which includes the City of Ashford. As shown in the attached application, a typical "cell site" consist of equipment cabinets installed on the ground, roof, or in a room connected to antennas mounted on a tall structure such as a tower, a building or other structures. The antennas are connected to the equipment cabinet via thick coaxial cables, and the equipment cabinet is then connected to regular telephone lines from which calls will be routed to their intended destinations.

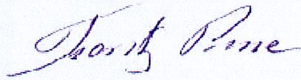
Ashford is an area where metroPCS has identified a need to locate a wireless communications facility. A wireless telecommunications facility in this vicinity is necessary to provide coverage in the area and resolve a significant gap in metroPCS' wireless network.

I have reviewed the accompanying application for the proposed installation of a wireless communications facility at 33 Janoski Road. I have analyzed the potential benefits this site would represent to the metroPCS network and its' users through radio frequency propagation modeling. I employ computer simulations, which incorporate the results of field tests of existing facilities, to determine radio frequency (RF) coverage for the metroPCS system, and to identify gaps in coverage. These simulations model characteristics such as antenna type, antenna height, output power, terrain, ground elevation and RF propagation effects of the frequency utilized.

An evaluation of the proposed location has indicated that an antenna height of 160 feet above ground level (AGL) at this location is required to satisfy the coverage requirements for metroPCS' Network. Any reduction in the proposed height and/or antenna configuration would result in coverage footprint shrinkage. This significantly limits the site's effectiveness in connecting with surrounding sites and severely impacts the level of service metroPCS is attempting to provide. Changes to the site configuration would limit the site's ability to resolve a significant existing coverage inadequacy in Ashford. The antenna of the proposed facility would consist of a total of 6 antennas.

In my opinion, the proposed location is well suited to meet metroPCS' network requirements in the area due to its location and topographic characteristics. The absence of a wireless communications facility at or near this location would adversely impact metroPCS' ability to provide the FCC mandated quality wireless communications services in the area.

The metroPCS installation will not interfere with public safety communications, commercial television and/or radio signals and other licensed forms of radio frequency communication. All metroPCS equipment operating at the proposed communications facility and the resulting radio frequency exposure level will be compliant with Federal Communications Commission requirements as well as health and safety standards.

A handwritten signature in cursive script, appearing to read "Frantz Pierre".

Frantz Pierre
Radio Frequency Engineer
metroPCS

May 25, 2011