

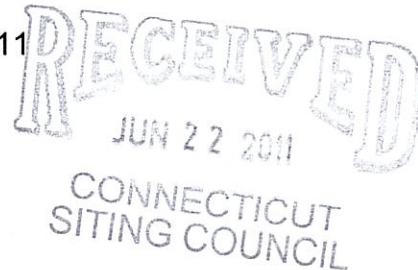
JLee Associates Inc.
121 Overbrook Road
Madison CT 06443

ORIGINAL

William B. Abbott

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

June 20, 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 1725 Stafford Road, Mansfield, Connecticut (MetroPCS site Number HFC1246)

Dear Ms. Roberts:

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

Introduction

Global Tower Partners ("GTP") is the owner of a telecommunications facility located at 1725 Stafford Road, Mansfield, 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 GTP, is located at 1725 Stafford Road, Mansfield, Connecticut (latitude 41 50 9.42, longitude 72 18). The site currently supports a 170 foot lattice tower ("Existing Tower") and appurtenant equipment buildings. The Existing Tower currently supports the antennas of AT&T (TS-AT&T-078-030128), Verizon (EM-VER-078-040310), and T-Mobile (TS-T-MOBILE-078-030912), and others.

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 Mansfield. This Facility is the most viable co-location opportunity in the area. MetroPCS has entered into a lease agreement with GTP 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 Mansfield area.

MetroPCS proposes to install six antennas to the Existing Tower at an antenna centerline of 160 feet. (See plans dated April 22, 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 June 15, 2011, 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 GTP 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 29.07% 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 20, 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 GTP 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,

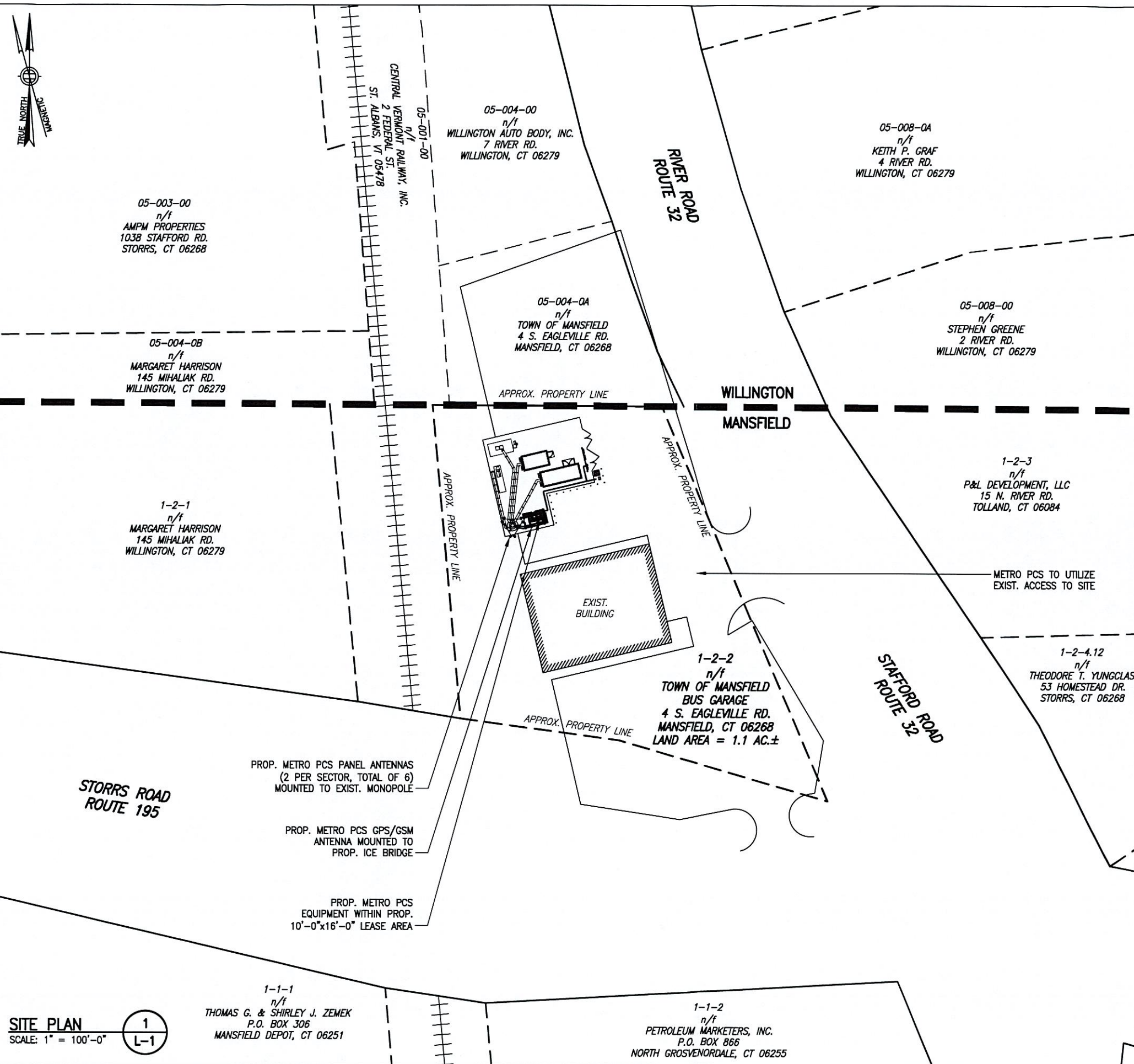


William B. Abbott

Enclosures

cc: Kate Rugman, metroPCS
Ray Crews, Global Tower Partners

EXHIBIT A



PROJECT NO.	DRAWING NAME	DATE	SHEET NO.	REV
736.384	L-1	04/22/11	1 OF 3	0

$$\begin{array}{c} 1 \\ \hline L-1 \end{array}$$

1-1-2
n/f
PETROLEUM MARKETERS, INC.
P.O. BOX 866
NORTH GROSVENORDALE, CT 06255



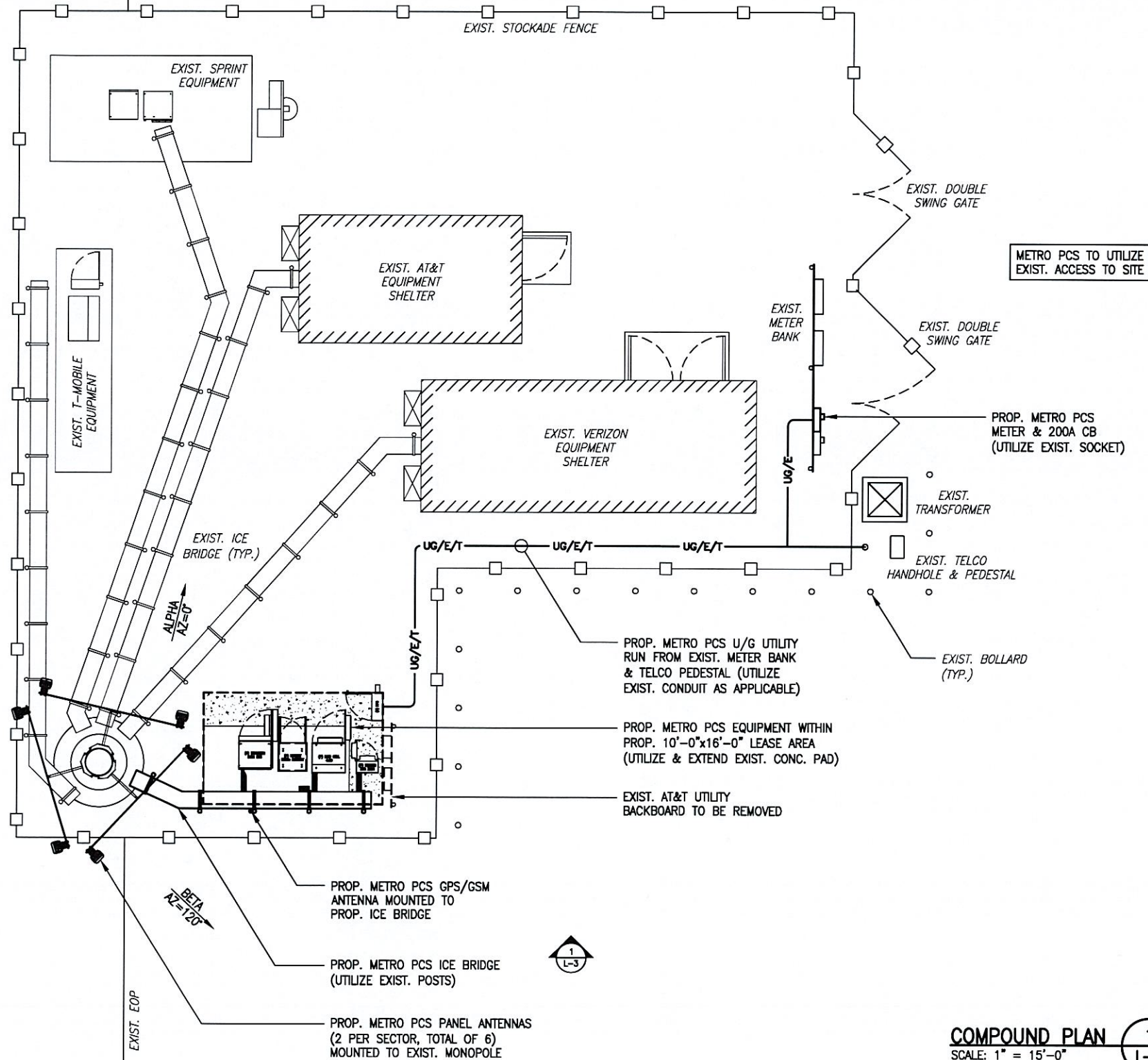
EXIST. TREELINE

GAMMA
AZ=240°

EXIST. EOP

EXIST. EOP

APPROX. PROPERTY LINE



COMPOUND PLAN
SCALE: 1" = 15'-0"

1
L-2

metroPCS
Unlimit Yourself.

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



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	04/22/11	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 HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

SITE ID				
HFC1246A				
SITE NAME				
GTP STAFFORD ROAD MANSFIELD				
SITE ADDRESS				
1725 STAFFORD ROAD MANSFIELD, CT 06268				
METRO PCS LEASE AREA				
EQUIPMENT: 10'-0"x16'-0"=160.0 S.F.				
TOTAL: = 160.0 S.F.				
PROJECT NO.	DRAWING NAME	DATE	SHEET NO.	REV
736.384	L-2	04/22/11	2 OF 3	0

TOP OF EXIST. MONOPOLE
EL. = 170.1'± AGL

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

AZIMUTHS	
ALPHA	0°
BETA	120°
GAMMA	240°

EXIST. VERIZON PANEL ANTENNAS
EL. = 170.0'± AGL

PROP. METRO PCS (6) PANEL ANTENNAS
EL. = 160.0'± AGL

EXIST. AT&T PANEL ANTENNAS
EL. = 150.0'± AGL

EXIST. SPRINT PANEL ANTENNAS
EL. = 140.0'± AGL

EXIST. T-MOBILE PANEL ANTENNAS
EL. = 130.0'± AGL

PROP. COAX RUN UP INTERIOR
OF EXIST. MONOPOLE

PROP. METRO PCS EQUIPMENT
WITHIN PROP. 10'-0"x16'-0"
LEASE AREA (UTILIZE &
EXTEND EXIST. CONC. PAD)

PROP. METRO PCS GPS/GSM
ANTENNA MOUNTED TO
PROP. ICE BRIDGE

PROP. METRO PCS ICE BRIDGE
(UTILIZE EXIST. POSTS)

EXIST. SPRINT
EQUIPMENT (BEYOND)

EXIST. STOCKADE FENCE

PROP. METRO PCS METER &
200A CB ON EXIST. METER
BANK (UTILIZE EXIST. SOCKET)

EXIST. VERIZON & AT&T
EQUIPMENT SHELTERS

EXIST.
TRANSFORMER,
TELCO PEDESTAL
& HANDHOLE

GROUND LEVEL
EL. = 0.0' AGL

UG/E/T

EXIST. BOLLARD
(TYP.)

PROP. METRO PCS U/G UTILITY RUN FROM
EXIST. METER BANK & TELCO PEDESTAL
(UTILIZE EXIST. CONDUIT AS APPLICABLE)

SOUTH TOWER ELEVATION 1
SCALE: 1" = 25'-0" L-3

metroPCS
Unlimit Yourself.

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



CHAPPELL
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MARLBOROUGH, MA 01752
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FAX (508) 481-7406

0	04/22/11	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

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

SITE ID
HFC1246A

SITE NAME
GTP STAFFORD ROAD
MANSFIELD

SITE ADDRESS
1725 STAFFORD ROAD
MANSFIELD, CT
06268

METRO PCS LEASE AREA

EQUIPMENT: 10'-0"x16'-0"=160.0 S.F.

TOTAL: = 160.0 S.F.

PROJECT NO.	DRAWING NAME	DATE	SHEET NO.	REV
736.384	L-3	04/22/11	3 OF 3	0

EXHIBIT B



Structural Analysis Report

170 ft. Tapered Monopole

Global Tower Services

750 Park of Commerce Boulevard
Suite 300
Boca Raton, FL 33487-3612

P: 605.422.1548
F: 605.422.1550

1725 Stafford Road, Mansfield, CT 06268
Tolland County
(CT-5031, Mansfield Center 2)

MetroPCS
MetroPCS Site Number: HDC1246
MetroPCS Site Name: GTP Stafford Road Mansfield

Prepared by:
Global Tower Services, LLC
Michael T. De Boer, P.E.
Director of Engineering

June 15, 2011

Global Tower Services, LLC
June 15, 2011
Mansfield Center 2
CT-5031

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Analysis Summary and Conclusions.....	5
Standard Conditions.....	6
Disclaimer of Warranties.....	7
Appendix A - Monopole Profile.....	Attached
Appendix B - Calculations.....	Attached
Appendix C – Collocation Application.....	Attached

Global Tower Services, LLC

June 15, 2011

Mansfield Center 2

CT-5031

INTRODUCTION

We have completed the structural analysis for the existing 170 ft. tapered monopole located in Tolland County (1725 Stafford Road, Mansfield), CT. The objective of the analysis is to determine if the existing tapered monopole design is in conformance / compliance with the current codes and standards for the proposed equipment installation.

TSTower written by TowerSoft was utilized in performing the analysis. This program is a commercially available software program which was used to create a non-linear three-dimensional beam model and calculate member stresses for various loading conditions.

DESCRIPTION OF STRUCTURE

The existing structure is a 170 ft. tapered monopole. The original monopole manufacturer is Valmont / PennSummit, West Hazelton, PA. The existing monopole consists of four (4) sections with slip connections.

Original monopole drawings provided by Valmont / PennSummit were used to model the monopole steel. (Valmont / PennSummit Design Number 19122, December 6, 2002) The monopole shaft is manufactured from 65 ksi steel, the base plate is 55 ksi steel and the anchor bolts are A615 Grade 75 steel.

The monopole, for the purpose of analysis, is considered to be in good condition with no defects.

DESIGN PARAMETERS

- Standard:	ANSI/TIA-222-F-1996
- Basic Wind Speed:	85 mph (fastest mile)
	105 mph (3-sec gust)
- Serviceability Wind Speed:	50 mph (fastest mile)
- Basic Wind Speed with Ice:	73.95 mph (fastest mile)
- Design Ice Thickness:	0.50 (inch)
- Allowable Stress Increase:	1/3 for wind loading conditions

Global Tower Services, LLC
 June 15, 2011
 Mansfield Center 2
 CT-5031

ANTENNA LOADING INFORMATION

Existing and Reserved Loading Information

Antenna Description / Monopole	CF	HF	DX Line	Qty	Carrier
DB844F90A-SX 0 / Low Profile Platform	6	170	1 5/8"	6	Verizon
Antel BXA-185063/12CF / Low Profile Platform	3	170	1 5/8"	3	Verizon
Powerwave P65-16-XL-2 / Low Profile Platform	3	170	1 5/8"	3	Verizon
Powerwave 7770 / Low Profile Platform	6	150	1 5/8"	12	ATT
Powerwave 21401 TMA's	6	150			ATT
Powerwave 21903 Diplexers	6	150			ATT
EMS RR-90-17-02 DPL2 / Low Profile Platform	6	140	1 5/8"	12	T-Mobile
DB980F90E-M / Low Profile Platform	9	130	1 5/8"	9	Sprint

Note: Existing lines are considered to be installed inside the monopole shaft.

Proposed Loading Information

Antenna Description / Monopole	CF	HF	DX Line	Qty	Carrier
Andrew HBX-6516DS-VTM / Low Profile Platform	6	160	1 5/8"	12	MetroPCS

Note: Final configuration for MetroPCS: Six (6) antennas and twelve (12) lines.

ANALYSIS RESULTS

Structure

The existing 170 ft. tapered monopole is **structurally capable** of supporting the proposed equipment. (See table below)

Monopole Member	Factor	Result
Monopole Shaft	58	Pass
Monopole Base Plate	33	Pass
Anchor Bolts	58	Pass

(105 percent is considered acceptable.)

Global Tower Services, LLC
June 15, 2011
Mansfield Center 2
CT-5031

ANALYSIS RESULTS

Foundation

The existing foundation has also been evaluated. The existing foundation was found to be **acceptable** with the proposed equipment installed. (See table below)

Foundation Component	Design Capacity	Original Capacity	P.C. Ratio	Result
Overtopping Moment	3238.66 Ft-Kips	5555.0 Ft-Kips	58	Pass
Shear	27.51 Kips	45.0 Kips	61	Pass

Monopole Rating: 61%

SUMMARY AND CONCLUSIONS

The existing 170 ft. tapered monopole located in Tolland County (1725 Stafford Road, Mansfield), CT is **structurally acceptable** based upon the EIA-222-F 1996 Standard and the local building code with the proposed equipment installed.


If any other changes are proposed, another structural analysis should be performed to assure the tower is in compliance / conformance with the applicable codes and standards.

Should any further questions arise, please contact the Global Tower Services, LLC Engineering Department at 941-400-2206.

Global Tower Services, LLC

Reviewed by:

Phillip Nejman
Structural EIT


Michael T. De Boer, P.E.
Director of Engineering

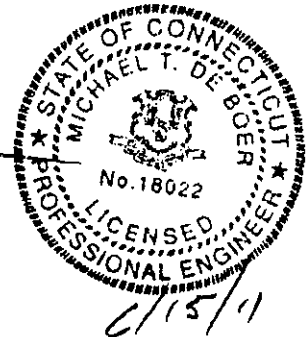


EXHIBIT C

Power Density Calculations

# Ch	Watts/Ch	Ant Ht	Power Density (mW/cm2)	MHz	S	%MPE	Site Total
1	200	170	0.0025	150	0.2	1.24%	
1	200	170	0.0025	138	0.2	1.24%	
1	200	170	0.0025	140	0.2	1.24%	
8	130	137	0.0199	1935	1.0000	1.99%	
1	500	150	0.0080	880	0.5867	1.36%	
2	427	150	0.0136	1900	1.0000	1.36%	
4	296	150	0.0189	880	0.5867	3.23%	
9	210	170	0.0235	869	0.5793	4.06%	
3	547	170	0.0204	1970	1.0000	2.04%	
1	649	170	0.0081	757	0.5047	1.60%	
11	336.6	130	0.0788	1962.5	1.0000	7.88%	27.26%
3	727	160	0.0306	2140	1.0000	3.06%	29.07%



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 Mansfield. 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 Mansfield, 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 Mansfield. 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.

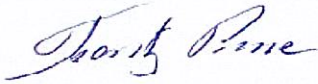
Mansfield is an area where metroPCS has identified a need to locate a wireless communications facility. A wireless telecommunications facility in this vicinity is necessary to provide coverage in the area and resolve a significant gap in metroPCS' wireless network.

I have reviewed the accompanying application for the proposed installation of a wireless communications facility at 1725 Stafford 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 Mansfield. 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 blue ink, appearing to read "Frantz Pierre".

Frantz Pierre
Radio Frequency Engineer
metroPCS

May 25, 2011