

# 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](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman  
October 31, 2008

Steven L. Levine  
Real Estate Consultant  
New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067

RE: **EM-CING-014-080917** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 150 North Main Street, Branford, Connecticut.

Dear Mr. Levine:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 19, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also 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.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include 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. 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.

Thank you for your attention and cooperation.

Very truly yours,

  
S. Derek Phelps  
Executive Director

SDP/MP/jb

c: The Honorable Anthony "Unk" DaRos, First Selectman, Town of Branford  
Diana Ross, Inland Wetland Enforcement Officer, Town of Branford  
Justine K. Gillen, Zoning Enforcement Officer, Town of Branford  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels, LLP



CONNECTICUT SITING COUNCIL

Affirmative Action / Equal Opportunity Employer



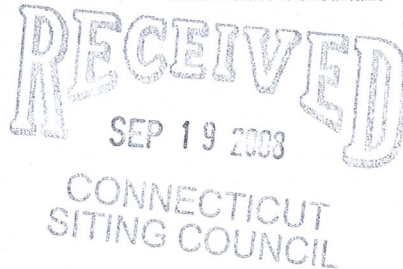
cingular

**EM-CING-014-080917**

**New Cingular Wireless PCS, LLC**  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

**Steven L. Levine**  
Real Estate Consultant

ORIGINAL



HAND DELIVERED

September 19, 2008

Honorable Daniel F. Caruso, Chairman,  
and Members of the Connecticut Siting Council  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC Request for Re-Acknowledgment of a  
Previously-Acknowledged Notice of Exempt Modification

**EM-CING-014-080917      150 North Main Street, Branford**

Dear Chairman Caruso and Members of the Council:

On September 17, 2008, New Cingular Wireless ("AT&T") submitted a letter and checks totaling \$8,000, requesting re-acknowledgment of 16 notices of exempt modification. These notices had been filed and approved in 2006 with a 1-year expiration date, but AT&T had not initiated or completed the approved site modifications within the year allowed by the Council. Accordingly, the acknowledgments expired and AT&T is now requesting re-acknowledgment so the site modifications may proceed.

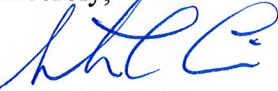
Acting upon the 9/17/08 letter, Council staff assigned 16 new EM numbers and requested additional information from AT&T for each site. The request concerned the status of structural analysis records presently in the Council's files, i.e., did the latest structural in Council files for each site incorporate the modifications approved for AT&T in 2006?

We have assessed this matter and have found that the existing structural analysis in Council files for the referenced site *does* include AT&T's modifications approved by the Council in 2006. The latest action for the site that affected tower loading was T-Mobile's 2007 filing. The structural analysis submitted by T-Mobile incorporated the approved loading from Cingular's 2006 filing.

AT&T, therefore, respectfully requests that the Council acknowledge the referenced Notice of Exempt Modification so that its planned site modifications may proceed.

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine  
Real Estate Consultant

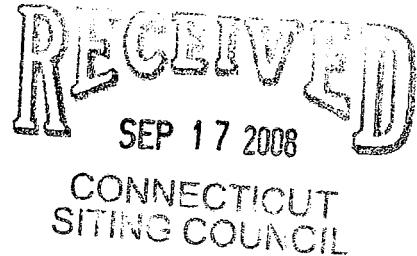


New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

Steven L. Levine  
Real Estate Consultant

HAND DELIVERED

September 17, 2008



Honorable Daniel F. Caruso, Chairman,  
and Members of the Connecticut Siting Council  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC Request for Re-Acknowledgment of Sixteen Previously-Acknowledged Notices of Exempt Modification

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. This program has been in progress since 2006.

In 2006, AT&T submitted a number of Notices of Exempt Modification and received the Council's acknowledgments, each carrying a 1-yr expiration provision. On-site installation was completed at most of the cell sites within the ensuing year. However, for a number of sites the work was either not begun or not completed before expiration of the Council's approval.

At this time AT&T intends to finish UMTS modifications at the affected sites and hereby requests the Council's re-acknowledgment for sixteen of the earlier Notices of Exempt Modification. For each site, we herewith submit a filing fee of \$500.

For each site, the materials required for a notice of exempt modification are already in the Council's files owing to the earlier filings, and the currently-proposed modifications are the same as those previously acknowledged by the Council. Therefore, we are submitting AT&T's request for re-acknowledgment in this form to avoid needless waste of paper.



The sites and the earlier Exempt Modification Notices are:

2 West Street, Rocky Hill	EM-CING-119-007-155-064-060623
260 Beckley Road, Berlin	EM-CING-119-007-155-064-060623
123 Costello Road, Newington	EM-CING-064-043-155-094-060609
179 Shunpike Road, Cromwell	EM-CING-033-017-060728
290 Preston Avenue, Middletown	EM-CING-033-080-083-060525
945 East Center Street, Wallingford	EM-CING-148-101-060-060609
992 Northrop Road, Wallingford	EM-CING-084-148-014-060623
10 Bona Street, Milford	EM-CING-014-084-060602
438 Bridgeport Avenue, Milford	EM-CING-084-060728
185 Research Drive, Milford	EM-CING-084-148-014-060623
4 Beaver Road, Branford	EM-CING-084-148-014-060623
150 North Main Street, Branford	EM-CING-014-148-060707
123 Meadow Street, Hartford	EM-CING-119-007-155-064-060623
92 Weston Street, Hartford	EM-CING-064-119-060707
1030 New Britain Avenue, West Hartford	EM-CING-119-007-155-064-060623
310 Orange Street, New Haven	EM-CING-093-084-060613

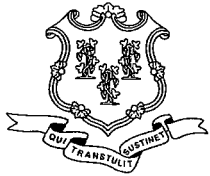
For the foregoing reasons, AT&T respectfully requests that the Council re-acknowledge the sixteen referenced Notices of Exempt Modification so that its planned site modifications may proceed.

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine  
Real Estate Consultant



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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[www.ct.gov/csc](http://www.ct.gov/csc)

July 27, 2006

Elizabeth H. Lankenau, AICP  
Kise Straw & Kolodner Inc.  
123 South Broad Street, Suite 1270  
Philadelphia, PA 19109

RE: **EM-CING-014-148-060707** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 150 North Main Street, Branford; and 23 Wayne Road, Wallingford, Connecticut.

Dear Ms. Lankenau:

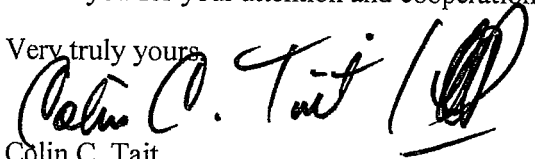
At a public meeting held on July 27, 2006, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 6, 2006 and errata sheets received July 20, 2006, including the placement of all necessary equipment and shelters within the tower compounds. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to any of these facilities will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include 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. 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.

Thank you for your attention and cooperation.

Very truly yours,

  
Colin C. Tait  
Chairman

CCT/laf

c: See Attached List

List Attachment.

- c: The Honorable Cheryl P. Morris, First Selectman, Town of Branford
- Justine K. Gillen, Zoning Enforcement Officer, Town of Branford
- Diana Ross, Inland Wetland Enforcement Officer, Town of Branford
- The Honorable William W. Dickinson, Jr., Mayor, Town of Wallingford
- Linda Bush, Town Planner, Town of Wallingford
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
- Karen L. Couture, Site Acquisition Specialist
- Michele G. Briggs, New Cingular Wireless PCS, LLC
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Thomas F. Flynn III, Esq., Sprint Nextel Communications
- Sam J. D'Agostino, Zoning Specialist, PageNet, Inc.
- Global Signal
- Stephen B. Tripp

6 July 2006

Honorable Cheryl Morris  
First Selectwoman, Town of Branford  
239 N. Main Street  
Branford, CT 06405

**RE: Notice of Exempt Modification – Existing Cingular  
Telecommunications Tower Facility at 150 North Main Street,  
Branford, Connecticut**

Dear Ms. Morris:

New Cingular Wireless PCS, LLC (“Cingular”) proposes to remove and replace telecommunications antennas and associated equipment located on an existing tower at the above-referenced location. The facility is now controlled and operated by Cingular whose corporate office is located at 500 Enterprise Drive, Rocky Hill, CT 06067.

**Proposed Modifications**

Cingular proposes to remove the existing antennas and replace them with a total of six (6) new antennas, located at an existing centerline height of approximately 110’ above ground level. Cingular will keep nine (9) of the existing 1 ¼” coaxial cables and three (3) more of the same dimension. It proposes to remove the existing tower mounted amplifiers and replace them with twelve (12) new units, located at the same height as the antennas.

In summary, the final antenna configuration at 150 North Main Street will include:

- 6 antennas,
- 12 coaxial cables, and
- 12 tower mounted amplifiers.

A structural evaluation has demonstrated that the tower will be structurally capable of supporting the proposed Cingular telecommunications equipment once the proposed modifications are complete.

*James Nelson Kise, AIA / AICP / PP*

*James Bennett Straw, AIA*

*Harvey D. Kolodner, MBA*

*John R. Gibbons, AIA / AICP*

*Philip E. Scott, RA*

*Suzanna Barucco*

*LaVern Browne*

*Katherine E. Cowing, LEED*

*Johnette Davies*

*Petar D. Glumac, Ph.D.*

*Douglas S. Heckrotte, RA / LEED*

*Jody Holton, AICP*

*Marian Maxfield Hull, AICP / PP*

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**Kise Straw & Kolodner Inc.**

123 South Broad St.

Suite 1270

Philadelphia, PA 19109

(215) 790-1050 FAX (215) 790-0215

www.ksk1.com



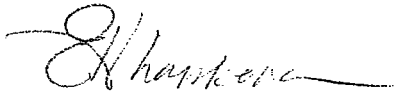
**Statutory Considerations**

The proposed work will not affect the height of the existing structure, nor will it alter the existing property boundaries. Furthermore, the proposed work will not increase noise levels at the facility's site boundary by six (6) decibels or more. Operation of additional antennas will not increase the radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the Federal Communications Commission.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council (CSC) as required by the Regulations of Connecticut State Agencies (RCSA), Section 16-50j-73. Please accept this letter as notification to the Town of Branford under Section 16-50j-73 that the proposed work constitutes an exempt modification pursuant to RCSA Section 16-50j-72(b)(2).

Should you have any questions or require additional information about the plans or the CSC's procedures, please do not hesitate to contact me (215.790.1050 ext. 138) or Mr. Derek Phelps, Executive Director, Connecticut Siting Council (860.827.2935).

Sincerely,



Elizabeth H. Lankenau, AICP  
Planner

**150 N. Main Street, Branford, CT**

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**Summary Sheet  
Project Location Map  
Site Plan and Elevation  
Structural Analysis  
Elected Official Letter**

**CINGULAR WIRELESS  
Proposed Modifications**

**Site Address:** 150 North Main Street, Branford CT; *Project Location Map attached*

**Coordinates:** Lat: 14' 17' 22"; Long: 72' 48' 49"

**Site Owner:** Global Signal

**Type of Existing Facility:** 150' monopole

**Antenna Configuration:** Center line – 110' above ground level; remove existing CSS DUO4-8670 antennas and replace with six (6) Powerwave 7770 units; *specification attached*

**TMA Configuration:** Existing units to be removed and add twelve (12) new LGP 214mm units; *specification attached*

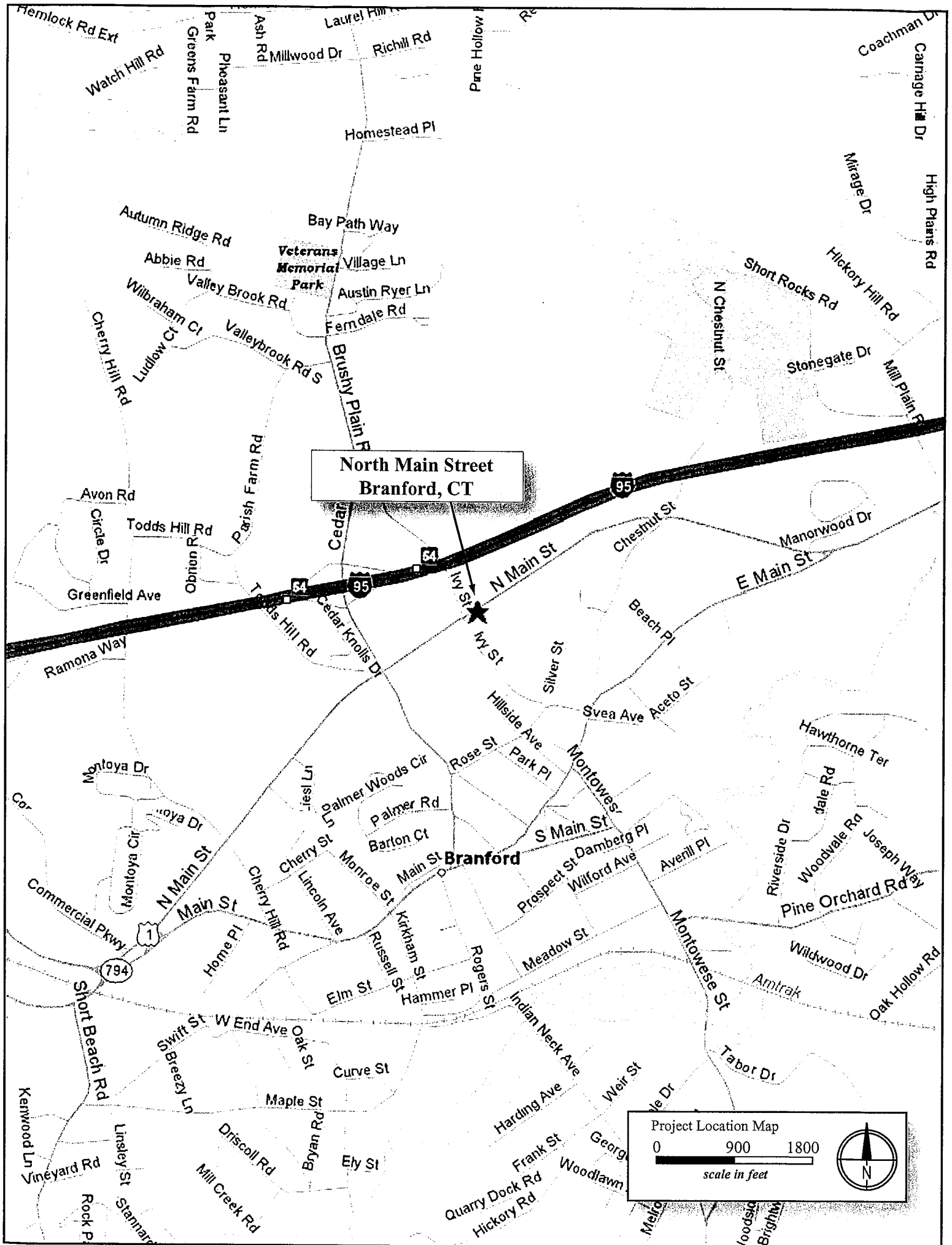
**Coaxial Cables:** Nine (9) existing 1 ¼" diameter coaxial cables to remain and add three (3) new cables of the same dimension

**Power Density:**

As the table demonstrates, the cumulative worst-case exposure would be approximately 40.28% of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from Cingular's use of the facility would be within applicable standards.

Site # 2220								
Carrier	Antenna Height (ft)	Freq. (MHz) For Limit	# of Channels	W ERP/Channel (ref 1/2-w dipole)	W EIRP/Sector	Power Density ( $\mu\text{W}/\text{cm}^2$ )	FCC Limit ( $\mu\text{W}/\text{cm}^2$ )	Percent of Limit (%)
Cingular UMTS	110	1935.0	1	500.0	820.0	14.9	1000	1.49%
Sprint	147	1900.0	12	500.0	9840.0	99.9	1000	9.99%
Nextel	135	851.0	12	100.0	1968.0	23.7	567	4.17%
AT&T	120	1900.0	16	250.0	6560.0	99.9	1000	9.99%
Cingular TDMA	110	880.0	16	100.0	2624.0	47.6	587	8.11%
Cingular 800	110	880.0	2	296.0	970.9	17.6	587	3.00%
Cingular 1900	110	1900.0	2	427.0	1400.6	25.4	1000	2.54%
Pagenet	95	900.0	1	150.0	246.0	6.0	600	1.00%
<b>TOTAL</b>								<b>40.28%</b>

**Structural Analysis:** *Structural Analysis attached.*



**North Main Street  
Branford, CT**

Project Location Map

0 900 1800

scale in feet

1/ MONOPOLE 1  
 4 (E) SPRINT ANTENNAS  
 ELEV.: ± 150'-0"

4 (E) NEXTEL ANTENNAS  
 ELEV.: ± 135'-0"

4 (E) AT&T ANTENNAS  
 ELEV.: ± 120'-0"

4 (N) CINGULAR ANTENNAS  
 ELEV.: ± 110'-0"

4 (E) LUMI  
 ELEV.: ± 60'-0"

GRADE  
 ELEV.: 0'-0"

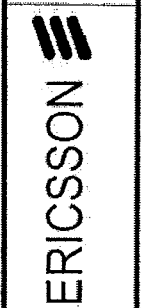
(E) ANTENNAS TO BE  
 REMOVED AND REPLACED  
 WITH (6) (N) ANTENNAS,  
 (2) PER SECTOR  
 ANTENNA CONTRACTOR TO  
 INSTALL (12) NEW TMA UNITS.

(E) : 150'-0" H. MONOPOLE

(E) (S) 1-1/4" ANDREW COAX  
 TO REMAIN, ADD (3) (N) 1-1/4"  
 ANDREW COAX CABLES

**FINAL ANTENNA CONFIGURATION**  
 (6) DIRECTIONAL ANTENNAS POWERWAVE # 7770  
 (12) 1-1/4" DIA. COAX CABLES  
 (12) TMAS

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



3	06-26-06	ISSUED FOR CSC SUBMITTAL	PH	JZ	JZ	CINGULAR WIRELESS SITE # 2220 SITE NAME: BRADFORD I-95 EXIT 54 150 NORTH MAIN STREET, BRANFORD, CT 06405
2	04-21-06	ISSUED FOR CSC REVIEW	RE	JZ	JZ	
1	04-07-06	SCOPING REVIEW	GB	JZ	JZ	
NO.	DATE	REVISION DESCRIPTION	BY	CHKAPP'D	DRAWING NUMBER	
SCALE: 1"=30'-0"			CHECKED BY:	JZ	DRAWN BY:	GB
						2220
						0



1079 N. 204<sup>th</sup> Avenue  
Elkhorn, NE 68022  
Ph: 402-289-1888  
Fax: 402-289-1861

**SEMAAN ENGINEERING SOLUTIONS**

**147 ft SUMMIT Monopole  
Structural Analysis**

**Prepared for:  
Global Signal  
301 North Cattlemen Road, Suite 300  
Sarasota, FL 34232**

**Site: 3017641 / CT03XC040  
For Cingular  
150 Main St.  
Branford, CT**



**June 16, 2006**

Mr. Louis Belizaire  
Global Signal  
301 North Cattlemen Road, Suite 300  
Sarasota, FL 34232

**Re: Site 3017641 / CT03XC040 – 150 Main St. Branford, CT.**

Dear Mr. Belizaire:

We have completed the structural analysis for the existing monopole, located at the above referenced site. The purpose of this analysis is to determine that the existing monopole design is in conformance with the TIA/EIA-222 Rev F standard and local building codes for the proposed antennae loads installation. Refer to the Review and Recommendations section at the end of this report for the analysis results.

**Description of Structure:**

The structure is a 147 ft SUMMIT Monopole.

Refer to SUMMIT job #4516 dated March 15, 1999 for a detailed description of the structure.

**Method of analysis:**

The tower was analyzed using Semaan Engineering Solutions' software suite for communication structures. The structural analysis is performed using the SAPS finite element engine. The method is 3D, non-linear, which accounts for the second order geometric effects due to the displacements. It also treats guys as exact cable elements and therefore is ideal for guyed towers. The analysis was performed in conformance with **TIA/EIA-222 Rev F and local building codes for a basic wind speed of 85 mph and 1/2" radial ice with reduced wind speed (fastest mile)**. This wind speed is equivalent to 105 mph 3-second gust per the IBC 2003. This is in conformance with the IBC 2003: Section 1609.1.1, Exception (5) and Section 3108.4. Wind is applied to the structure, accessories and antennas.

**Structure loading:**

The following loads were used in the tower analysis:

Elev (ft)	Qty	Antennas	Mounts	Coax	Carrier
147.0	9	RR65-19-02DP	Low Profile platform	(9) 1 5/8"	Sprint
135.0	12	DB844H90	Low Profile platform	(15) 1 1/4"	Nextel
120.0	6	Allgon 7250	(3) T-Arms	(12) 1 1/4"	AT&T

Proposed Loads:

Elev (ft)	Qty	Antennas	Mounts	Coax	Carrier
110.0	9	Allgon 7770	Low Profile platform	(12) 1 5/8"	Cingular
	12	21401 TMA			

All new access holes shall be reinforced with welded rims that are compatible with the pole and to be sized and supplied by pole manufacturer.  
All transmission lines are assumed running inside of pole shaft.

**Results of Analysis:**

Refer to the attached Computer Summary sheets for detailed analysis results.

**Structure:**

The existing monopole is structurally capable of supporting the existing and proposed antennas. The maximum structure usage is: 92.4%.

**Foundation:**

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	2,979.00	2,808.01	94.3
Shear (kips)	31.00	28.18	90.9

The analysis reactions are less than the design reactions therefore no foundation modifications are required.

**Review and Recommendations:**

Based on the analysis results, the existing structure meets the requirements per the TIA/EIA-222 Rev F standards for a basic wind speed of 85 mph and 1/2" radial ice with reduced wind speed. This wind speed is equivalent to a 105 mph 3-second gust.