

Daniel F. Caruso
Chairman

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

Internet: ct.gov/csc

October 1, 2007

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

RE: **EM-CING-025-034-049-099-167-070911** – New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 500 Highland Avenue, Cheshire; 18 Old Ridgebury Road, Danbury; 188 Moody Road, Enfield; 88 Parsonage Road, North Branford; and 77 Pease Road, Woodbridge, Connecticut.

Dear Mr. Levine:

At a public meeting held on September 25, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities except for the Danbury facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies, with the condition that the modifications specified for the Woodbridge tower in the report dated May 29, 2007 and sealed by Jason Seaverson, P.E. be performed prior to the antenna swap and that a signed letter from a Professional Engineer be submitted to the Council to certify that the modifications have been properly completed. The Council recommends that New Cingular Wireless PCS, LLC apply to the City of Danbury for review and approval of its proposed modifications to the rooftop facility at 18 Old Ridgebury Road, Danbury.

The proposed modifications are to be implemented as specified here and in your notice dated September 11, 2007, 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.

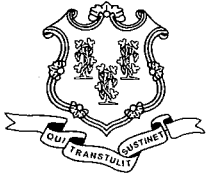
Very truly yours,

Handwritten signature of Daniel F. Caruso in cursive, with the initials "DFC" written in small letters at the end of the signature.

Daniel F. Caruso
Chairman

DFC/MP/cm

- c: The Honorable Matt Hall, Council Chairman, Town of Cheshire
- William S. Voelker, AICP, Town Planner, Town of Cheshire
- The Honorable Edward Maum Sheehy, First Selectman, Town of Woodbridge
- Terry Gilbertson, Zoning Enforcement Officer, Town of Woodbridge
- The Honorable Andrew Esposito III, Mayor, Town of North Branford
- Carol Zeeb, Town Planner, Town of North Branford
- The Honorable Mark D. Boughton, Mayor, City of Danbury
- Dennis Elpern, City Planner, City of Danbury
- The Honorable Patrick L. Tallarita, Mayor, Town of Enfield
- Jose Giner, Director of Planning and Community Development, Town of Enfield
- National Grid Communications
- Sheraton Danbury Hotel / Starwood Hotels & Resorts Worldwide, Inc.
- Thomas J. Regan, Brown Rudnick Berlack Israels
- Ochenkowski Towers LLC
- American Tower



Daniel F. Caruso
Chairman

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

Internet: ct.gov/csc

September 12, 2007

The Honorable Patrick L. Tallarita
Mayor
Town of Enfield
820 Enfield Street
Enfield, CT 06082

RE: **EM-CING-025-034-049-099-167-070911** – New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 500 Highland Avenue, Cheshire; 18 Old Ridgebury Road, Danbury; 188 Moody Road, Enfield; 88 Parsonage Road, North Branford; and 77 Pease Road, Woodbridge, Connecticut.

Dear Mayor Tallarita:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for September 25, 2007, at 1:30 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by September 24, 2007.

Thank you for your cooperation and consideration.

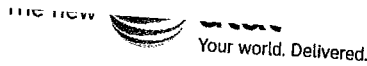
Very truly yours,

S. Derek Phelps
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Jose Giner, Director of Planning and Community Development, Town of Enfield



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 11, 2007

RECEIVED
SEP 11 2007
CONNECTICUT
SITING COUNCIL

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 notice of intent to modify 5 existing tele-communications facilities located in Cheshire, Danbury, Enfield, North Branford, and Woodbridge

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 ("Cingular") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of each of the municipalities in which an affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (GSM) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

Attached are summary sheets detailing the planned changes, including power density calculations reflecting the change in the effect of Cingular's operations at each affected site. Also included is documentation of the structural sufficiency of each tower to accommodate the revised antenna configuration.

The changes to the facilities do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facilities will not be significantly changed or altered. Rather, the planned changes to the facilities fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. In each instance, the height of the overall structure will be unaffected. Modifications to the existing sites include all or some of the following as necessary to bring each site into conformance with the plan:

- Replacement of existing panel antennas with new antennas of similar size, shape, and weight, or, installation of additional antennas of similar size, shape, and weight.
- Installation of small tower mount amplifiers ("TMA's") and/or diplexers to the platform on which the panel antennas are mounted to enhance signal reception.
- Installation of additional or larger coaxial cables as required.
- Installation of an additional equipment cabinet in existing shelters, or on existing or enlarged concrete pads.

None of these modifications will extend the height of the tower.

2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as noted in the following attachments.

3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.

4. Radio frequency power density may increase due to use of one GSM channel for UMTS transmissions. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, Cingular Wireless respectfully submits that the proposed changes at the referenced sites constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

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

Attachments

**CINGULAR WIRELESS
Equipment Modification**

500 Highland Avenue, Cheshire, CT
Site Number 2081
Exempt Modification 12/23/03

Tower Owner/Manager: National Grid Communications

Equipment configuration: Monopole

Current and/or approved: Nine CSS DUO1417 antennas @ 127 ft c.l
Nine runs 1 5/8 inch coax
Six TMA's / three diplexers @ 127 ft

Planned Modifications: Remove three existing antennas
Install 3 Powerwave 7770 antennas (or equivalent) @ 127 ft
Install three additional diplexers @ 127 ft
Install three runs 1 5/8 inch coax (total of 12)

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 28.2 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 29.2 %.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							24.00
Cingular GSM *	127	880 - 894	2	296	0.0132	0.5867	2.25
Cingular GSM *	127	1900 Band	2	427	0.0190	1.0000	1.90
Total							28.2%

* Per CSC records.

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							24.00
Cingular GSM	137	800 - 894	2	296	0.0113	0.5867	1.93
Cingular GSM	137	1900 Band	2	427	0.0164	1.0000	1.64
Cingular UMTS	137	800 - 894	1	500	0.0096	0.5867	1.63
Total							29.2%

* Per CSC records.

Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (Malouf Engineering Intl, dated 8/31/07)



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

September 11, 2007

Mr. Michael A. Milone, Town Manager
Town of Cheshire
Town Hall 84 South Main St.
Cheshire, CT 06410

Re: Telecommunications Facility – 500 Highland Avenue, Cheshire (Police Department)

Dear Mr. Milone:

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 (“Cingular”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

Structural Analysis Report



Cheshire PD – Highland Ave Site #2081

National Grid Communications Cheshire Site
500 Highland Ave, Cheshire, CT 06410

Aug 31, 2007

MEI PROJECT ID: CT00893M-07V0

MALOUF ENGINEERING INTL., INC.



STRUCTURAL CONSULTANTS

7950 PRESTON ROAD, SUITE 720 ■ DALLAS, TEXAS 75252-5635 ■ TEL. 972 -783-2578 FAX 972-783-2583
www.maloufengineering.com





Aug 31, 2007

STRUCTURAL ANALYSIS

Structure:	160ft Monopole	Sabre / 18-sided	
Client/Site Name /#	Hudson D.G. / AT&T	Cheshire PD - Highland Ave Site	#2081
Owner/Site Name/#	National Grid Communications	Cheshire Site	
MEI Project ID:	CT00893M-07V0		
Location:	500 Highland Ave, Cheshire, CT-06410	New Haven County FCC #1248717	
	LAT 41-30-40.3 N	LON	72-53-54.6 W

EXECUTIVE SUMMARY:

Malouf Engineering Int'l (MEI), as requested, has performed a structural analysis of the above mentioned structure to assess the impact of the changed condition as noted in Table 1.

Based on the stress analysis performed, the existing structure is **in conformance** with the ANSI/TIA **222-F** Standard for the loading considered under the criteria listed and referenced in the report sections.

The installation of the proposed changed condition of the replacement of (3) existing AT&T panels with new (3) LGP Allgon 7770 Panels, (3) Powerwave 13519 Diplexers, (3) Powerwave 7020 RET's, (3) Powerwave 7060 CiLOC onto existing platform at Elev. 127 ft c.l. fed, in addition to existing lines, with new (3) 1-5/8" dia. coax Lines is structurally acceptable.

MEI appreciates the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or any other projects please contact us.

Respectfully submitted,

MALOUF ENGINEERING INT'L, INC.

Analysis performed by:

Krishna Manda, PE
Project Engineer

Reviewed & Approved by:

E. Mark Malouf, PE
Connecticut # 17715
972-783-2578 ext. 106
mmalouf@maloufengineering.com

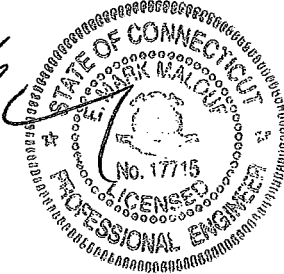


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1. INTRODUCTION & SCOPE

A structural analysis was performed by Malouf Engineering Int'l (MEI), as requested and authorized by Mr. Derek Creaser, Hudson Design Group, LLC, on behalf of AT&T to determine the acceptance of the proposed changed conditions in conformance with the ANSI/TIA-222-F Standard, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures".

The scope of this independent analysis is to determine the overall stability and the adequacy of structural members, foundations, and member connections, as available and stated. This analysis considers the structure to have been properly installed and maintained with no structural defects. Installation procedures and related loading are not within the scope of this analysis and should be performed and evaluated by a competent person of the erection contractor.

The different report sections detail the applicable information used in this evaluation, relating to the tower data, the appurtenances configuration and the wind and ice loading considered.

2. SOURCE OF DATA

The following information has been used in this evaluation as source data that accurately represent the existing structure and the related appurtenances:

	Source	Information	Reference
STRUCTURE			
Tower	Hudson D.G. / Derek Creaser	Partial Tower Design Drawing	Sabre Dwg #04-1173-01 dated 7/10/2003
Foundation		Not Available	
Material Grade	Assumed as per typical towers of this type - refer to Appendix.		
CURRENT APPURTENANCES			
	Hudson D.G. / Derek Creaser	Recent Photos	Best estimated from the photos provided.
CHANGED CONDITION			
	Hudson D.G. / Derek Creaser	Cingular RF Data sheet	Cingular RF Data sheet Rev. 2007-02 Dated 4/24/2007

Background Information:

Based on available information, the following is known regarding this structure:

DESIGNER / FABRICATOR	Sabre (Dwg. #04-1173-01 dated 7/10/2003)
DESIGN CRITERIA	TIA/EIA 222-F -85/73.6 Mph + 0/1/2" Ice
PRIOR STRUCTURAL MODIFICATIONS	None known

3. ANALYSIS CRITERIA

The structural analysis performed used the following criteria:

CODE / STANDARD	ANSI/TIA-222-F Standard	
LOADING CASES	<i>Full Wind:</i>	85 Mph (with No Radial Ice)
	<i>Iced Case:</i>	79.3 Mph + 0.5" Radial Ice
	<i>Service:</i>	50 Mph

Appurtenances Configuration

The following appurtenances configuration has been considered:

Table 1: Proposed Changed Condition Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
127 ⁴	AT&T	3	LGP Allgon 7770 Panels	[exist platform]	3	1 5/8" / (I)
		3	Powerwave 13519 Diplexer			
		3	Powerwave 7020 RET's			
		3	Powerwave 7060 CILOC			

Table 2: Current and Reserved/Future Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
157		2	Dipoles (DB224)	LP Platform without Rails	2	1 5/8" (I)
		1	20' Omni			
		6	5'x12"x9" Panels			
149		6	5' Panels (RR65-19)	LP Platform without Rails	6	1 5/8" (I)
		6	TMA's			
139				(3) Empty 3' Side Arm Mounts		
127	AT&T	6	DUO1417-8686 Panels	LP Platform without Rails	6	1 5/8" (I)
		3	ADC Diplexers			
		6	ADC/CG-1900W850 TMA			
119		12	4'x4"x12" Panels	LP Platform w/o Rails	12	1 5/8" (I)
109		12	4'x12"x8" Panels	LP Platform w/o Rails	12	1 5/8" (I)
80±		3	UHF/VHF Antennas	Close Contact Mount	3	7/8" (I)
		1	GPS		1	1/2" (I)

Notes:

- Please note appurtenances not listed above are to be removed/not present as per data supplied.
- (I) = internal; (E) = External; (FZ) = Within Face Zone & (OFZ) = Outside Face Zone - as per TIA-222-G.
- The above antennas, mounts, and lines represent MEI's understanding of the appurtenances configuration. If different than above, the analysis is invalid. Please refer to Appendix 2 for EPA wind areas used in the calculations. Please contact MEI if any discrepancies are found.
- AT&T replacing existing (1) panel antenna/sector with proposed panels and adding (1) 1 5/8" dia. Coax and the (1) Diplexer per sector.

4. ANALYSIS PROCEDURE

The subject structure is analyzed for feasibility of the installation of the proposed changed condition previously noted. The data records furnished were reviewed and a computer stress analysis was performed in accordance with the TIA-222 Standard provisions and with the agreed scope of work terms and the results of this analysis are reported.

Analysis Program

The computer program used to model the structure is a rigorous Finite Element Analysis program, RISATower (ver.5.2.2), a commercially available program developed by C-Concepts, WI and now maintained by RISA Technologies. The latticed structures members are modeled using beam/truss and cable members and the pole members using tubular beam elements. The structural parameters and geometry of the members are included in the model. The dead and temperature loads and the wind loads are internally calculated by the program for the different wind directions and then applied as external loads on the structure.

Assumptions

This engineering study is based on the theoretical capacity of the members and is not a condition assessment of the structure. This analysis is based on information supplied, and therefore, its results are based on and as accurate as that supplied data. MEI has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural stress analysis:

- This existing tower is assumed, for the purpose of this analysis, to have been properly maintained and to be in good condition with no structural defects and with no deterioration to its member capacities ('as-new' condition).
- The tower member sizes and configuration are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated.
- The appurtenances configuration is as supplied and/or as stated in the report. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
- Some assumptions are made regarding antennas and mounts sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type & industry practice.
- Mounts/Platforms are considered adequate to support the loading. No actual analysis of the platform/mount itself is performed, with the analysis being limited to analyzing the structure.
- The soil parameters are as per data supplied or as assumed and stated in the calculations. Refer to the Appendix. If no data is available, the foundation system is assumed to support the structure with its new reactions.
- All welds and connections are assumed to develop at least the member capacity, unless determined otherwise and explicitly stated in this report. All guy cable assemblies, as applicable, are assumed to develop the rated breaking strength of the wire.
- All prior structural modifications, if any, are assumed to be as per data supplied/available, and to have been properly installed and to be fully effective.

If any of the above assumptions are not valid or have been made in error, this analysis results may be invalidated, MEI should be contacted to review any contradictory information to determine its effect.

5. ANALYSIS RESULTS

The results of the structural stress analysis based on data available and with the previous listed criteria, indicated the following:

Table 3: Stress Analysis Results

Member Type	Maximum Stress Ratio	Controlling Location / Component	Pass/Fail	Comment
POLE SHAFT	80.8%	46.5 - 0ft	Pass	
BASE PLATE	86.7%	0ft	Pass	
FOUNDATION	Cannot Determine		Cannot Determine	Data Not available- Consider Acceptable.

Notes:

1. The Maximum Stress Ratio is the percentage that the maximum load in the member is relative to the allowable load as determined by Code requirements.
2. Refer to the Appendix 2 for more details on the member loads.
3. A maximum stress ratio between 100% to 105% may be considered as *Acceptable* according to industry standard practice.

6. FINDINGS & RECOMMENDATIONS

- Based on the rigorous stress analysis results, the subject structure is **rated at 86.7%** of its support capacity (controlling component: Base Plate) with the proposed changed condition considered. Please refer to Table 3 and to Appendix 2 for more details of the analysis results.
- Based on the stress analysis performed, the existing structure is **in conformance** with the ANSI/TIA **222-F** Standard for the loading considered under the criteria listed and referenced in the report sections.
- ***The installation of the proposed changed condition of the replacement of (3) existing AT&T panels with new (3) LGP Allgon 7770 Panels, (3) Powerwave 13519 Diplexers, (3) Powerwave 7020 RET's, (3) Powerwave 7060 CiLOC onto existing platform at Elev. 127 ft c.l. fed, in addition to existing lines, with new (3) 1-5/8" dia. coax Lines is structurally acceptable.***
- ***All coaxes are considered to be inside the pole.***
- This structure has additional support capacity. However, No changes to the configuration considered should be made without performing a new proper evaluation.

Rigging and temporary supports required for the erection/modification shall be determined, documented, furnished and installed by the erector/contractor accounting for the loads imposed on the structure due to the proposed construction method.

7. REPORT DISCLAIMER

The engineering services rendered by Malouf Engineering International, Inc. ('MEI') in connection with this Structural Analysis are limited to a computer analysis of the tower structure, size and capacity of its members. MEI does not analyze the fabrication, including welding and connection capacities, except as included in this Report.

The analysis performed and the conclusions contained herein are based on the assumption that the tower has been properly installed and maintained, including, but not limited to the following:

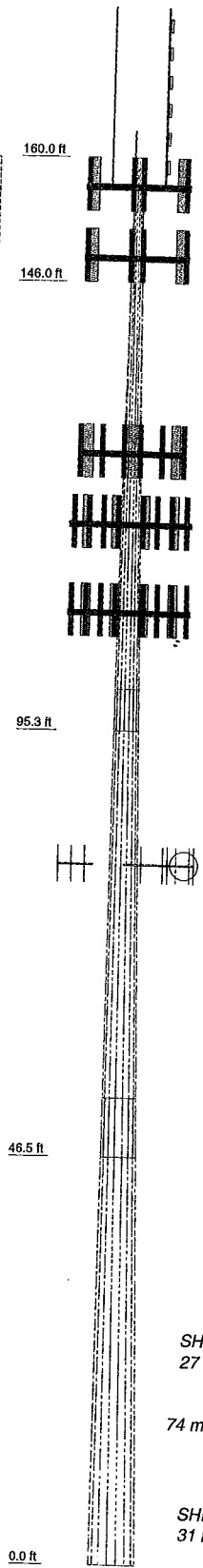
1. Proper alignment and plumbness.
2. Correct guy tensions, as applicable.
3. Correct bolt tightness or slip jacking of sleeved connections.
4. No significant deterioration or damage to any structural component.

Furthermore, the information and conclusions contained in this Report were determined by application of the current "state-of-the-art" engineering and analysis procedures and formulae. MALOUF ENGINEERING INTERNATIONAL, INC. Assumes no obligation to revise any of the information or conclusions contained in this Report in the event that such engineering and analysis procedures and formulae are hereafter modified or revised. In addition, under no circumstances will MALOUF ENGINEERING INTERNATIONAL, INC. Have any obligation or responsibility whatsoever for or on account of consequential or incidental damages sustained by any person, firm or organization as a result of any information or conclusions contained in the Report, and the maximum liability of MALOUF ENGINEERING INTERNATIONAL, INC., if any, pursuant to this Report shall be limited to the total funds actually received by MALOUF ENGINEERING INTERNATIONAL, INC. For preparation of this Report.

Customer has requested MALOUF ENGINEERING INTERNATIONAL, INC. To prepare and submit to Customer an engineering analysis with respect to the Subject Tower and has further requested MALOUF ENGINEERING INTERNATIONAL, INC. to make appropriate recommendations regarding suggested structural modifications and changes to the Subject Tower. In making such request of MALOUF ENGINEERING INTERNATIONAL, INC., Customer has informed MALOUF ENGINEERING INTERNATIONAL, INC. that Customer will make a determination as to whether or not to implement any of the changes or modifications which may be suggested by MALOUF ENGINEERING INTERNATIONAL, INC. and that Customer will have any such changes or modifications made by riggers, erectors and other subcontractors of Customer's choice. MALOUF ENGINEERING INTERNATIONAL, INC. shall have the right to rely upon the accuracy of the information supplied by the customer and shall not be held responsible for the Customer's misrepresentation or omission of relevant fact whether intentional or otherwise.

Customer hereby agrees and acknowledges that MALOUF ENGINEERING INTERNATIONAL, INC. shall have no liability whatsoever to Customer or to others for any work or services performed by any persons other than MALOUF ENGINEERING INTERNATIONAL, INC. in connection with the implementation of services including but not limited to any services rendered for Customer or for others by riggers, erectors or other subcontractors. Customer acknowledges and agrees that any riggers, erectors or subcontractors retained or employed by Customer shall be solely responsible to Customer and to others for the quality of work performed by them and that MALOUF ENGINEERING INTERNATIONAL, INC. shall have no liability or responsibility whatsoever as a result of any negligence or breach of contract by any such rigger, erector or subcontractor and that Customer and rigger, erector, or subcontractor will provide MALOUF ENGINEERING INTERNATIONAL, INC. with a Certificate of Insurance naming MALOUF ENGINEERING INTERNATIONAL, INC. as additional insured.

Section	1	2	3	4
Length (ft)	14.00	58.50	53.50	53.25
Number of Sides	18	18	18	18
Thickness (in)	0.1875	0.3125	0.3750	0.3750
Lap Splice (ft)	2.75	4.75	6.75	6.75
Top Dia (in)	12.2880	15.5490	31.0217	45.9565
Bot Dia (in)	16.8128	33.2152	48.9712	64.0000
Grade			A572-65	
Weight (K)	0.4	4.3	8.6	11.8



DESIGNED APPURTENANCE LOADING

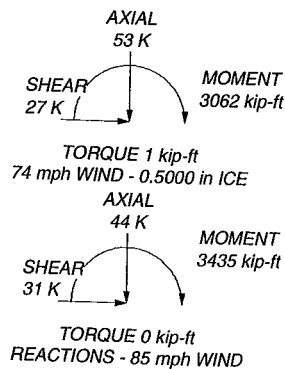
TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod	159	(2) LGP 13519 Diplexer + ADC Diplexer (Cingular/P/E)	127
DB212-1 (E)	157	(2) LGP 13519 Diplexer + ADC Diplexer (Cingular/P/E)	127
DB810K-XT (E)	157	(2) LGP 13519 Diplexer + ADC Diplexer (Cingular/P/E)	127
(2) 5'x12'x9" Panel w/ 2" Pipe Mount (E)	157	Powerwave 7060 Ciloc (Cingular/P)	127
(2) 5'x12'x9" Panel w/ 2" Pipe Mount (E)	157	Powerwave 7060 Ciloc (Cingular/P)	127
(2) 5'x12'x9" Panel w/ 2" Pipe Mount (E)	157	Powerwave 7060 Ciloc (Cingular/P)	127
LP Platform without Rails (E)	157	7020 RET (Cingular/P)	127
DB212-1 (E)	157	7020 RET (Cingular/P)	127
(2) RR65-19-00DP w/Mount Pipe (E)	149	LP Platform without Rails (E)	127
(2) RR65-19-00DP w/Mount Pipe (E)	149	(2) DUO1417-8686 w/Mount Pipe (Cingular/E)	127
(2) TMA (E)	149	(4) 4'x4'x12" Panel w/ 2" Pipe Mount (E)	119
(2) TMA (E)	149	(4) 4'x4'x12" Panel w/ 2" Pipe Mount (E)	119
LP Platform without Rails (E)	149	PIROD 15' Low Profile Platform (E)	119
(2) RR65-19-00DP w/Mount Pipe (E)	149	Empty 3ft Side Arm Mounts (E)	139
Empty 3ft Side Arm Mounts (E)	139	(4) 4'x4'x12" Panel w/ 2" Pipe Mount (E)	119
(2) DUO1417-8686 w/Mount Pipe (Cingular/E)	127	(4) 4'x12'x8" Panel w/ 2" Pipe Mount (E)	109
(2) DUO1417-8686 w/Mount Pipe (Cingular/E)	127	(4) 4'x12'x8" Panel w/ 2" Pipe Mount (E)	109
(2) ADC/CG 1900W850 TMA (Cingular/E)	127	PIROD 15' Low Profile Platform (E)	109
(2) ADC/CG 1900W850 TMA (Cingular/E)	127	(4) 4'x12'x9" Panel w/ 2" Pipe Mount (E)	109
(2) ADC/CG 1900W850 TMA (Cingular/E)	127	UHF/VHF Antenna (E)	80
7770.00 w/ Pipe Mount (Cingular/P)	127	UHF/VHF Antenna (E)	80
7770.00 w/ Pipe Mount (Cingular/P)	127	GPS Antenna (E)	80
7770.00 w/ Pipe Mount (Cingular/P)	127	Close Contact Ring Mounts (E)	80
(2) LGP 13519 Diplexer + ADC Diplexer (Cingular/P/E)	127	UHF/VHF Antenna (E)	80

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 77.7%



<p>Malouf Engineering Int'l, Inc. 17950 Preston Road; Suite #720 Dallas, TX 75252 Phone: (972) 783-2578 FAX: (972) 783-2583</p>	<p>Job: 160' MONOPOLE, CHESHIRE PD, SITE #2081</p>
	<p>Project: CT00893M-07V0</p>
	<p>Client: HUDSON DESIGN GROUP/ AT&T</p>
	<p>Code: TIA/EIA-222-F</p>
	<p>Path: C:\MEIP\Projects\07 DATA\Checking\Kishnas\CT00893M-07V0-LKN.dwg</p>
<p>Consulting Engineers</p>	<p>Drawn by: LNguyen</p>
	<p>Date: 08/31/07</p>
	<p>Scale: NTS</p>
	<p>Dwg No. E-1</p>

**CINGULAR WIRELESS
Equipment Modification**

18 Old Ridgebury Road, Danbury
Site Number 5072
"Danbury Hilton" – Former AT&T Site
Danbury Zoning Approval dated 12-21- 99
Danbury Bldg Permit dated 3-27-00

Building Owner/Manager: Starwood Hotels & Resorts Worldwide, Inc.

Equipment configuration: Rooftop Installation

Current and/or approved: Six Allgon 7262 panel antennas @ 101 – 108 ft c.l.
Two EMS RR90-17 panel antennas @ 108 ft c.l.
Eight runs 1 5/8 inch coax cables
Four runs 7/8 inch coax

Planned Modifications: Remove all six existing antennas
Install 6 Katthrein 80010121 antennas (or equivalent) @ 108 ft
Install six TMA's @ 108 ft
Install six diplexers @ 108 ft
Install one additional outdoor cabinet for UMTS

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the building, of approximately 16.1 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 19.8 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Verizon *							
Cingular GSM	108	1900 Band	2	427	0.0263	1.0000	10.46
Cingular GSM	101	1900 Band	2	427	0.0301	1.0000	2.63
Total							3.01
							16.1%

* Per CSC records.

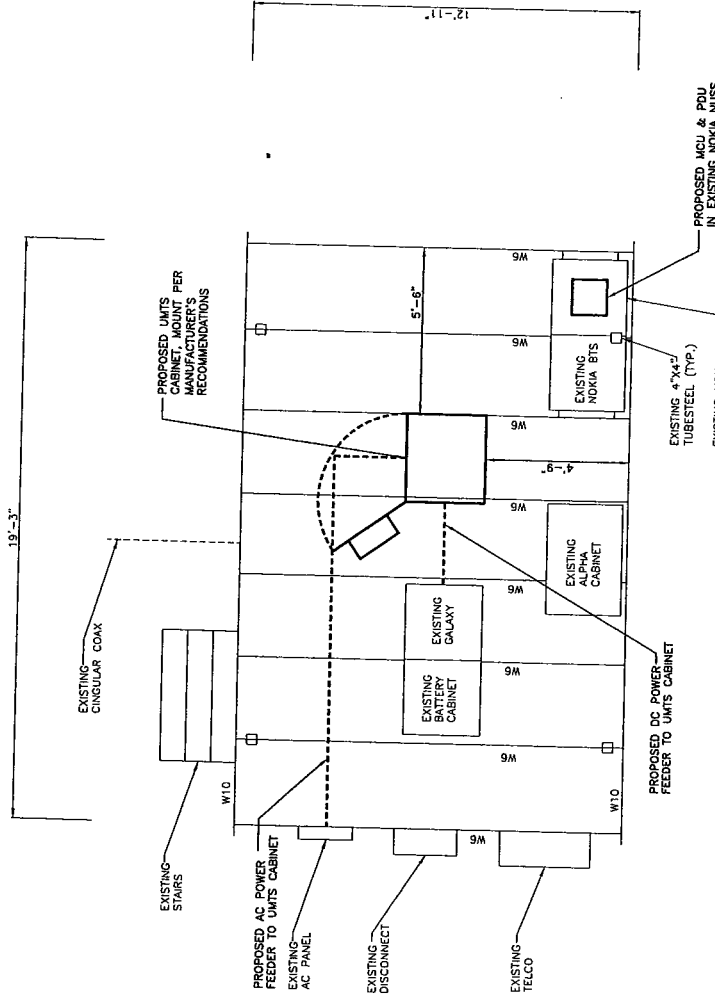
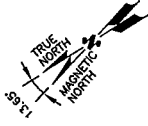
Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Verizon *							
Cingular UMTS	108	880 - 894	1	500	0.0154	0.5867	10.46
Cingular GSM	101	1900 Band	4	474	0.0668	1.0000	2.63
Total							6.68
							19.8%

* Per CSC records.

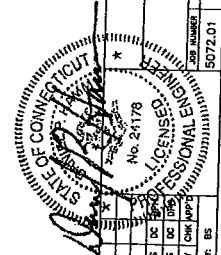
Structural information:

The attached structural analysis indicates the existing roof-top platform has sufficient structural capacity to properly support the additional equipment. (Hudson Design Group, dated 8/28/07) Since the antennas are façade-mounted, we are not including a tower structural analysis in this submission.



**EQUIPMENT PLAN
OUTDOOR UMTS**

SCALE: 1/2"=1'-0"



Cingular
WIRELESS
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06867

SITE NUMBER: 5072
SITE NAME: DANBURY MILL PLAN
18 OLD RIDGEBURY ROAD
DANBURY, CT 06811
FAIRFIELD COUNTY

SIAT
communications
184 ROCKINGHAM ROAD, UNIT A
LONDONDERRY, NH 03053

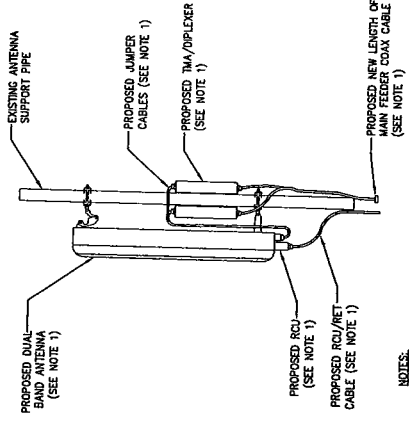
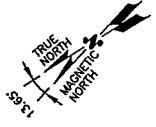
Hudson
Design Group
115 WASHINGTON ST.
WINDSOR, VT 05090
TEL: 802.533.3333

NO.	DATE	BY	FOR	REVISIONS	DESIGNED BY	DRAWN BY	SCALE	JOB NUMBER	REV.
1	08/16/07	CONSTRUCTION FINAL	BS	BS	BS	BS		5072.01	1
0	07/24/07	ISSUED FOR CONSTRUCTION	BS	BS	BS	BS			

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

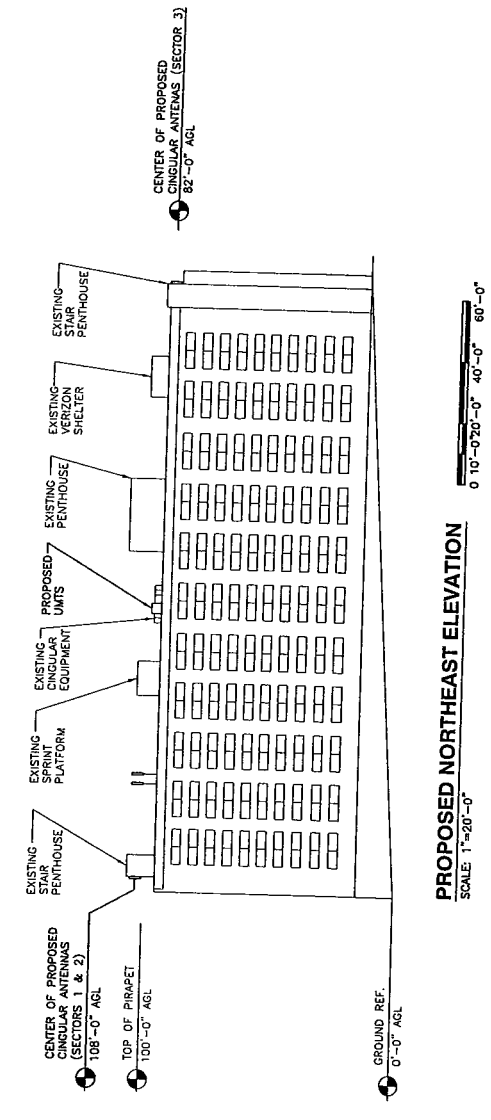
NOTE:*
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

SECTOR NAME	ANTENNA MAKE & MODEL	ANTENNA COUNT	RAD CENTER	MECHANICAL DOWNTILT	TMA COUNT	DIPLEXER COUNT
1 ALPHA	LOP ALLOGN 7770	2	108°-0"±	0*	0 EXIST. 2 PROP.	0 EXIST. 2 PROP.
2 BETA	LOP ALLOGN 7770	2	150°-0"±	0*	0 EXIST. 2 PROP.	0 EXIST. 2 PROP.
3 GAMMA	LOP ALLOGN 7770	2	325°-0"±	0*	0 EXIST. 2 PROP.	0 EXIST. 2 PROP.

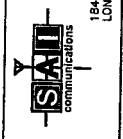


NOTES:
1. REFER TO RF CONFIG & SECTOR SCHEMATICS FOR QUANTITY REQUIRED PER SECTOR

PROPOSED ANTENNA DETAIL
SCALE: N.T.S.

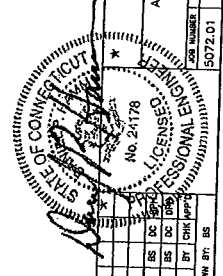


PROPOSED NORTHEAST ELEVATION
SCALE: 1"=20'-0"
0 10'-0" 20'-0" 40'-0" 60'-0"



SITE NUMBER: 5072
SITE NAME: DANBURY HILL PLAN
18 OLD RIDGEBURY ROAD
DANBURY, CT 06811
FAIRFIELD COUNTY

Cingular WIRELESS
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06867



NO.	DATE	REVISIONS	DESIGNED BY: BS	DRAWN BY: BS	DATE
1	06/18/07	CONSTRUCTION FINAL	BS	BS	06/18/07
0	07/24/07	ISSUED FOR CONSTRUCTION	BS	BS	07/24/07
			BT	BT	

FOR NUMBER: 5072.01
DRAWING NUMBER: A-3



August 28, 2007

Tim Burks
Real Estate Consultant
Cingular Wireless
500 Enterprise Drive "Suite 3A"
Rocky Hill, CT 06067

RE: Existing Cingular/AT&T Antenna Installation Site #5072
Danbury Mill Plain (Sheraton Hotel)
18 Old Ridgebury Rd.
Danbury, CT

Dear Mr. Burks:

Hudson Design Group LLC has been authorized by Cingular Wireless to conduct a structural evaluation of the new Cingular cabinet installation on the existing platform (formerly AT&T) for the above referenced site.

The proposed Cingular installation will consist of installing an Emerson UMTS cabinet. The proposed installation will include the existing Cingular Nokia BTS, Nokia Nuss, Alpha cabinet, Lucent Power and Battery cabinets as well as the new Emerson cabinet.

Hudson Design Group performed an evaluation based on available structural drawings and information collected during a site visit on July 17, 2007. Based on our evaluation, we have determined that the existing platform is capable of supporting the loads imposed by the Cingular equipment. This evaluation is based on the requirements of the 2003 IBC and the 2005 Connecticut amendments.

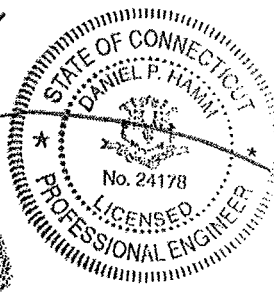
This determination was based on the following limitations and assumptions:

1. The existing equipment platform and Cingular equipment will be properly maintained.
2. Hudson Design Group is not responsible for any modifications completed prior to or hereafter which Hudson Design Group was not directly involved.

If you have any questions about this project, please contact me at the information below.

Sincerely,

Daniel P. Hamm PE
President
Hudson Design Group, LLC.
46 Beechwood Drive
North Andover, MA 01845





CITY OF DANBURY

155 DEER HILL AVENUE

DANBURY, CONNECTICUT 06810

PLANNING COMMISSION
(203) 797-4525

December 21, 1999

Daniel F. Leary, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

Re: AT & T Wireless Services, PCS, LLC – Application for Special Exception and Waiver to Site Plan to allow installation of a wireless telecommunications facility on the rooftop of the Danbury Hilton Hotel, 18 Old Ridgebury Road (Assessor's Lot No. C15008) – S.E. #548

Dear Attorney Leary:

The Planning Commission at its meeting December 15, 1999 approved the application for Special Exception by AT & T Wireless Services, PCS, LLC for a "Telephone Exchange" on the rooftop of the Danbury Hilton Hotel, 18 Old Ridgebury Road (Assessor's Lot No. C15008) having found that the criteria in Section 10.C.4.a. 1, 2, 3, and 4 of the Zoning Regulations have been met and subject to the following conditions:

1. This approval is based on plans prepared for AT&T Wireless PCS, LLC by Putnam Engineering, PLLC. Shcets Z-1 and Z-2, dated June 29, 1999 last revised December 13, 1999.
2. The "telephone exchange" to be developed on the rooftop of the Danbury Hilton, within the lease line as shown on the above-referenced plan, shall consist of the installation of 3 panel antennas affixed to the stair tower wall on the north side of the rooftop, 3 affixed to the stair tower wall on the south side of the roof; and 3 mounted on the east side of the building's parapet wall and (2) installation of equipment cabinets near the middle of the roof.
3. All proposed equipment will be no higher than any existing structure on the rooftop.
4. If construction of any component of this application requires use of a crane or similar equipment, the applicant shall coordinate the use of such construction equipment with the City of Danbury Airport Administrator.

The Planning Commission then approved the request for waiver to site plan by AT & T Wireless Services, PCS, LLC for the Special Exception to allow a "Telephone Exchange" on the rooftop of the Danbury Hilton Hotel, 18 Old Ridgebury Road (Assessor's Lot No. C15008).

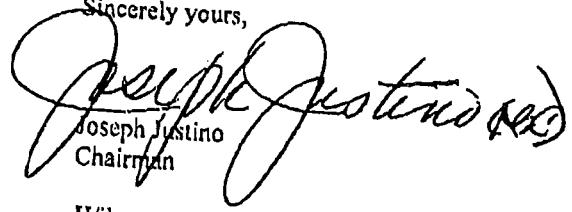
Special Exception #S.E. 548
December 21, 1999
Page 2

The Commission also approved the site plan submitted by AT & T Wireless Services, PCS, LLC for the Special Exception to allow a "Telephone Exchange" on the rooftop of the Danbury Hilton Hotel, 18 Old Ridgebury Road (Assessor's Lot No. C15008) with the following conditions:

1. This approval is based on plans prepared for AT&T Wireless PCS, LLC by Putnam Engineering, PLLC, Sheets Z-1 and Z-2, dated June 29, 1999 last revised December 13, 1999.
2. The "telephone exchange" to be developed on the rooftop of the Danbury Hilton, within the lease line as shown on the above-referenced plan, shall consist of the installation of 3 panel antennas affixed to the stair tower wall on the north side of the rooftop, 3 affixed to the stair tower wall on the south side of the roof; and 3 mounted on the east side of the building's parapet wall and (2) installation of equipment cabinets near the middle of the roof.
3. All proposed equipment will be no higher than any existing structure on the rooftop.
4. If construction of any component of this application requires use of a crane or similar equipment, the applicant shall coordinate the use of such construction equipment with the City of Danbury Airport Administrator.

The Commission's approval shall be void and of no effect unless the applicant files this Certified Copy of Grant of Special Exception on the Land Records of the City of Danbury within SIXTY (60) DAYS OF THE DATE OF APPROVAL.

Sincerely yours,



Joseph Justino
Chairman

JJ/jlc

Enclosure

Via certified mail

ATTWS CT. 072

POST THIS PERMIT CONSPICUOUSLY

DEPARTMENT OF BUILDINGS, DANBURY, CONNECTICUT

Phone 797-4581

BUILDING PERMIT

Issued 3-27-00 Expires 3-27-01
 Owner Starwood Hotels & Resorts Worldwide Inc.
 Building Telecommunications Equip Platform & Antennas
 Located 18 Old Ridgely Rd (top of Hilton Hotel) Zone CA 80
 Builder Bre's Construction 00901099
 Electrical Contractor Take out own permit
 Plumbing & Heating Contractor n/a
 License No.
 License No.

In accordance with application, plans and specifications on file, and subject to ordinances and Building Code of the City of Danbury, otherwise this permit is void. Occupancy of this new building or addition prior to issuance of a Certificate of Occupancy will be considered a violation of the Building Code Regulations.

Red? Null (no)
Building Inspector

NOTICE:

Changes, regardless of size, from stamped approved plans must be submitted to Building Inspector before they are made.

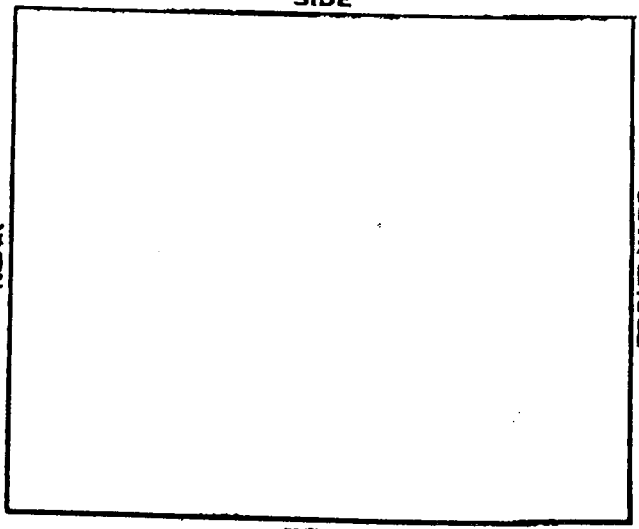
Prompt notification by the Plumbing, Electrical, and General contractors of completion of their respective portions of the work will avoid delay in issuance of the Certificate of Occupancy.

This Application is null and void if the building is not completed in one year from the date of issue, except by extension of application.

INSPECTIONS:

Normally there are nine or more required inspections of a new building, and as many as apply on alterations and additions:

1. ZONING
2. SOIL CONDITIONS—before foundation footings
3. FOOTING—drain inspection
4. ELECTRICAL—wiring roughing
5. PLUMBING—roughing
6. FRAMING—before insulation or lathing
7. INSULATION—inspection
8. GAS OR OIL BURNER—installation and wiring
9. ELECTRICAL—final when fixtures have been hung
10. PLUMBING—final when fixtures have been set
11. FINAL—fire divisions, exits, etc.





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

September 11, 2007

Hon. Mark D. Boughton, Mayor
City of Danbury
City Hall, 155 Deer Hill Ave.,
Danbury, CT 06810-7726

Re: Telecommunications Facility – 18 Old Ridgebury Road, Danbury

Dear Mayor Boughton:

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 (“Cingular”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

**CINGULAR WIRELESS
Equipment Modification**

188 Moody Road, Enfield, CT
Site Number 5293
Former AT&T Wireless Cell Site
Exempt Modification 3/21/02

Tower Owner/Manager: Sprint / Nextel

Equipment configuration: Monopole

Current and/or approved: Three Allgon 7250 antennas @ 158 ft c.l.
Six runs 1 5/8 inch coax
Two concrete pads with three outdoor cabinets

Planned Modifications: Remove existing antennas
Install 3 Powerwave 7770 antennas (or equivalent) at 158 ft
Install six TMA's @ 158 ft
Install additional 5 x 6 ft concrete pad
Install one additional outdoor cabinet for UMTS

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 7.2 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 8.8 % of the standard.

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							5.74
Cingular GSM *	158	1900 Band	4	250	0.0144	1.0000	1.44
Total							7.2%

* Per Council Records

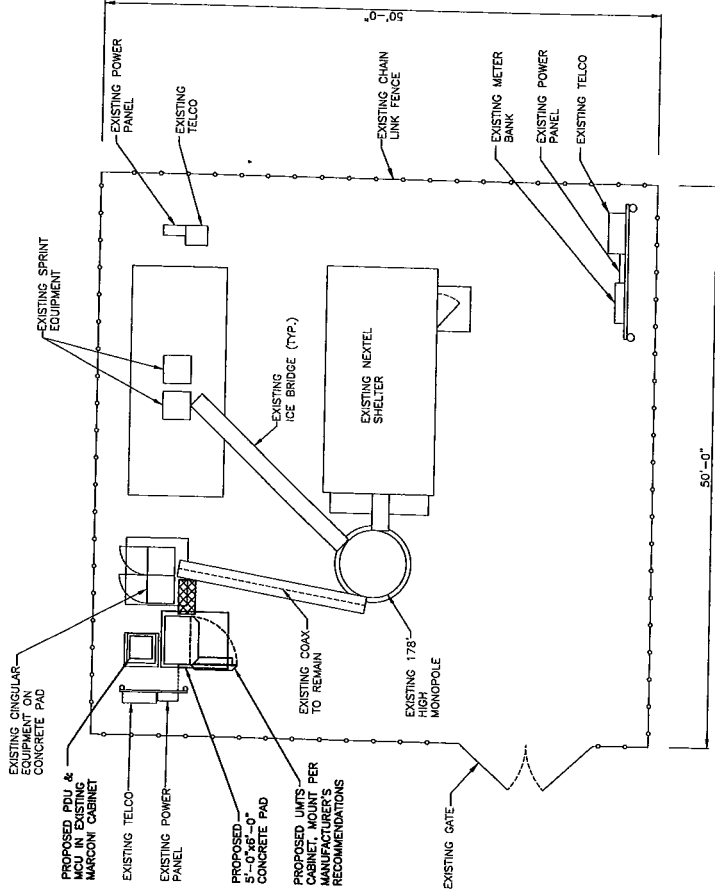
Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							5.74
Cingular UMTS	158	880 - 894	1	500	0.0072	0.5867	1.23
Cingular GSM	158	1900 Band	2	625	0.0180	1.0000	1.80
Total							8.8%

* Per Council Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (Paul J. Ford & Co., dated 8/28/07)

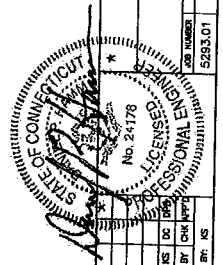
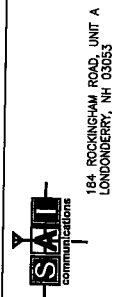


**COMPOUND PLAN
OUTDOOR UMITS**
SCALE: 3/16"=1'-0"

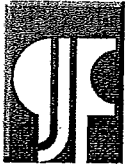
0' 2'-0" 5'-0" 10'-0" 16'-0"



SITE NUMBER: 5293
SITE NAME: ENFIELD EAST
188 WOODY ROAD
ENFIELD, CT 06082
HARTFORD COUNTY



NO.	0
DATE	08/22/07
ISSUED FOR	ISSUED FOR CONSTRUCTION
NO.	NO.
DATE	DATE
SCALE	SCALE: NOT SHOWN
DESIGNED BY	DESIGNED BY: AS
DRAWN BY	DRAWN BY: AS
CHECKED BY	CHECKED BY: AS
DATE	DATE
PROJECT NO.	5293.01
JOB NUMBER	C-1
COMPUND PLAN UMITS (OUTDOOR)	
CINGULAR WIRELESS	



PAUL J. FORD AND COMPANY
 STRUCTURAL ENGINEERS
 250 East Broad Street • Suite 1500 • Columbus, Ohio 43215-3708

August 28, 2007

Hudson Design Group, LLC
 46 Beechwood Drive
 North Andover, MA 01845

Attn: Derek Creaser

Re: Existing 178-ft Monopole
 Located in Hartford Co., CT: Site #5293 / Enfield East
 PJF Project #A00007-T187

Dear Mr. Creaser:

Paul J. Ford and Company understands that Cingular proposes an equipment change on the above referenced monopole. Paul J. Ford and Company designed the monopole and foundation for Summit Manufacturing, LLC per PJF project #29200-0155, dated 02-12-2000. The monopole was designed in accordance with TIA/EIA-222-F for an 85 mph basic wind velocity for the following antenna loading:

Table 1 - Design Antenna Configuration

Elevation	Description
Top	(12) Decibel DB844 Panel 14' Low Profile Platform
168'	(12) Decibel DB844 Panel 14' Low Profile Platform
158'	(12) Decibel DB844 Panel 14' Low Profile Platform
148'	(12) Decibel DB844 Panel 14' Low Profile Platform

For this structural review, we were provided with antenna information regarding the proposed antennas and recent pictures. Based on information provided, it is our understanding that the following antenna loading is to be considered for this structural review:

Table 2 - Proposed Antenna Configuration

Status	Elevation	Description	Owner
Existing	178'	(12) Decibel DB844 Panel 14' Low Profile Platform	Nextel
Existing	168'	(6) 4' x 8" Panel 14' Low Profile Platform	Sprint
Proposed	158'	(3) Powerwave 7770 w/ (6) TMA's Flush Mounts	Cingular

COLUMBUS, OHIO

(614) 221-6679
 Fax (614) 448-4105

ATLANTA, GEORGIA

(404) 266-2407
 Fax (404) 869-4608

ORLANDO, FLORIDA

(407) 898-9039
 Fax (407) 897-3662

• An Employee-Owned Company •

August 28, 2007

Page 2 of 2

Hudson Design Group, LLC

Attn: Derek Creaser

Re: Existing 178-ft Monopole

Located in Hartford Co., CT: Site #5293 / Enfield East

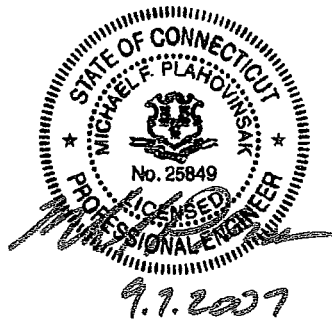
PJF Project #A00007-T187

For this structural review we have compared design wind areas with those from the existing and proposed antennas. Based on our comparison we have concluded that the existing and proposed antenna wind area will not exceed that of the original design. Therefore, the existing monopole and foundation will be capable of supporting the new antennas.

If you have any questions or concerns regarding the review of this monopole structure, please feel free to contact us at (614) 221-6679.

Sincerely,

PAUL J. FORD AND COMPANY



Michael F. Plahovinsak, P.E.

Project Manager

e-mail: mplahovinsak@pjfweb.com



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

September 11, 2007

Mr. Matthew Coppler, Town Manager
Town of Enfield
Town Hall 820 Enfield St.
Enfield, CT 06082-2997

Re: Telecommunications Facility – 188 Moody Road , Enfield

Dear Mr. Coppler:

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 (“Cingular”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

**CINGULAR WIRELESS
Equipment Modification**

88 Parsonage Road, North Branford, CT
Site Number 5638
Former AT&T site
Exempt Modification 7/11/02

Tower Owner/Manager: Ochenkowski

Equipment configuration: Self Supporting Lattice

Current and/or approved: Three Allgon 7250 antennas @ 170 ft c.l.
Six runs 1 5/8 inch coax

Planned Modifications: Remove all three existing antennas
Install 3 Powerwave 7770 antennas (or equivalent) @ 170 ft
Install six TMA's @ 170 ft
Remove one existing outdoor cabinet
Install two new outdoor cabinets

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 21.4 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 24.4 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							20.15
Cingular GSM *	170	1900 Band	4	250	0.0124	1.0000	1.24
Total							21.4%

* Per CSC Records

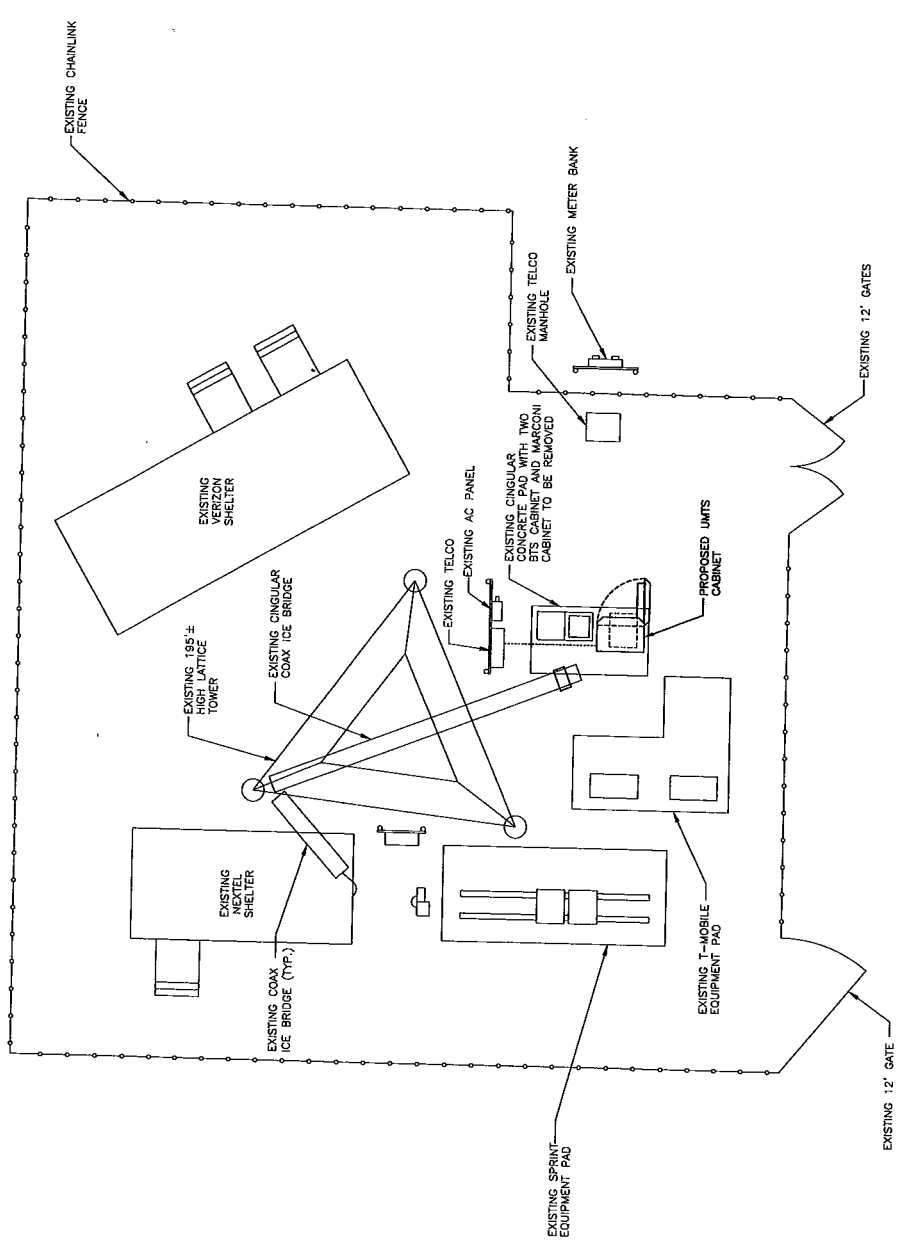
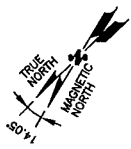
Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							20.15
Cingular GSM	170	1900 Band	4	640	0.0319	1.0000	3.19
Cingular UMTS	170	880 - 894	1	500	0.0062	0.5867	1.06
Total							24.4%

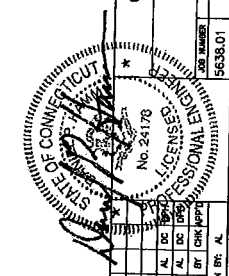
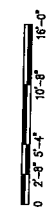
* Per CSC Records

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (Malouf Engineering Intl, dated 8/27/07)



**COMPOUND PLAN
OUTDOOR UMTS**
SCALE: 3/16"=1'-0"

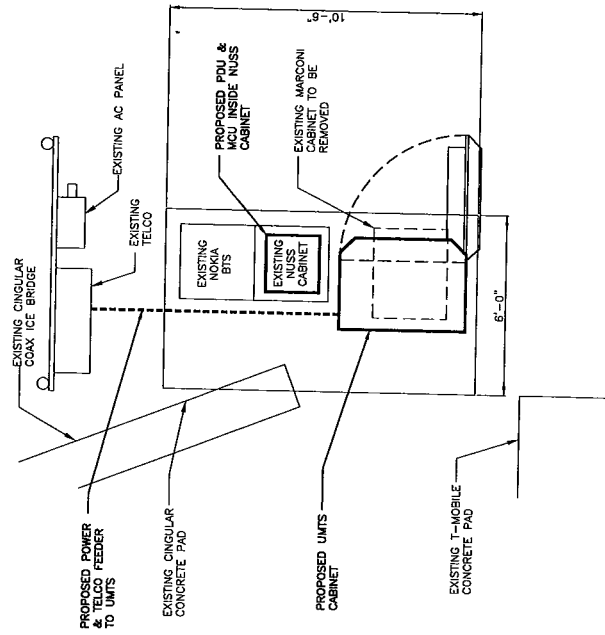
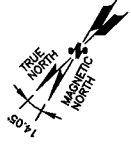


SITE NUMBER: 5638
SITE NAME: NORTFORD-TOKET
88 PARSONAGE HILL ROAD
NORTH BRANFORD, CT 06472
NEW HAVEN COUNTY

Cingular WIRELESS
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO. 5638.01	DATE	BY	CHK	APP	SCALE	NOT SHOWN	DESIGNED BY	AL	DRAWN BY	AL	DATE	REVISIONS
1	09/15/07	CONSTRUCTION FINAL	AL	DC	1/8"=1'-0"							
2	04/17/07	ISSUED FOR CONSTRUCTION	AL	DC	1/8"=1'-0"							

CINGULAR WIRELESS
COMPOUND PLAN
OUTDOOR UMTS
JOB NUMBER: 5638.01
DRAWING NUMBER: C-1
REV: 1



- LEGEND**
- EXISTING EQUIPMENT
 - PROPOSED EQUIP.
 - FUTURE EQUIP.
 - CONDUCTORS AND RACEWAY TO BE FURNISHED & INSTALLED BY SUBCONTRACTOR
 - EXISTING CABLE TRAY
 - PROPOSED CABLE TRAY

**EQUIPMENT PLAN
OUTDOOR UNITS**
SCALE: 1/2"=1'-0"



 41 BEECHWOOD DR. WANDERLEIGH, NH 03088 TEL: 603.882.5553 FAX: 603.882.5558	 184 ROCKINGHAM ROAD, UNIT A LONDONERRY, NH 03053	SITE NUMBER: 5638 SITE NAME: NORTHFORD-TOKET 88 PARSONAGE HILL ROAD NORTH BRANFORD, CT 06472 NEW HAVEN COUNTY	 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06867	1. 06/19/27 CONSTRUCTION PLAN A. DC (DC)	2. 06/17/27 ISSUED FOR CONSTRUCTION A. DC (DC)	3. REVISIONS A. DC (DC)	DESIGNED BY: A. DRAWN BY: A.	5638.01 DRAWING NUMBER	CINGULAR WIRELESS EQUIPMENT PLAN OUTDOOR UNITS	A-1 SHEET NUMBER
				SCALE: NOT SHOWN	DESIGNED BY: A.	DRAWN BY: A.	5638.01	A-1		



August 27, 2007

Mr. Derek Creaser
 HUDSON DESIGN GROUP, LLC
 46 Beechwood Drive
 North Andover, MA 01845

SUBJECT	FEASIBILITY STRUCTURAL EVALUATION		
Structure:	195 ft Self-Supporting	Central Tower / SSSSX	
Client/ Site Name /#:	Hudson D.G. / AT&T	Northford Totoket	#5638
Owner/Site Name /#:	Ochenkowski Towers LLC	Northford	
MEI Project ID:	CT00836S-07V0		
Location:	88 Parsonage Hill Rd., North Branford, CT	New Haven County F.A # 1057323	
	LAT	41-22-8.8 N	LON 72-48-37.8 W

Malouf Engineering Int'l (MEI), as requested, has performed a feasibility structural evaluation of the above mentioned structure to assess the impact of the changed condition as noted below.

The structural evaluation performed used the following criteria:

CODE / STANDARD	ANSI/TIA-222-F-96 Standard / IBC 2003 Code - CT Building Code		
LOADING CASES	Full Wind:	85 Mph (with No Radial Ice)	
	Iced Case:	73.6 Mph + 0.50" Radial Ice	
	Service:	50 Mph	

Table 1: Proposed Changed Condition Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
170 ± *	AT&T	3	7770 Panel Antennas	[exist sector mounts]	1	[exist coaxes] 3/8"
		6	Powerwave LGP21401 TMA's			
		3	Powerwave 7020 RCU/RET's			

* Note: Existing (3) panel antennas (1/sector) are to be removed and replaced with above.

Table 2: Previous Analysis Appurtenances

Elev (ft)	Tenant	Ants Qty	Appurtenance Model / Description	Mount Description	Lines Qty	Line size & Location
190	Sprint	9	DB980H90	Sectorized Frame Mount	9	1 5/8"
180	T-Mobile	6	DAPA 59000X/59010 Panels			
170	AT&T	6	Allgon 7250 Panels	(3) 14' Boom-gates	6	1 5/8"
160	Nextel	9	DB844H90 Panels	(3) 14' Boom-gates	9	1 5/8"
145	Verizon	2	RWB 80015/62CF Panels	(3) 14' Boom-gates	12	1 5/8"
		2	LPA 185063/12CF Panels			
		4	RWA 80013 Panels			
		4	LPA 185080/8CF Panels			
75	Sprint	1	GPS		1	7/8"

The information used as source data to represent the existing structure and the related appurtenances is as follows:

The information used as source data to represent the existing structure and the related appurtenances is as follows:

Structure & Current Appurtenances	Structure data and design appurtenances loading as per previous structural evaluation data by NATCOMM, LLC Project #05094 & original design data per Central Tower, ref. job #F-722-1, dated 04/8/99. Tower was designed for a future expansion from existing 195' to 245' with (7) levels of antennas at 245', 210, 200', 190', 180', 170' and 160'.
Changed Condition	As per AT&T /Cingular Wireless RF approval email, dated 04/26/07 Version 2007-02, Supplied by Hudson Design Group, LLC on 08/15/07.

The subject structure is evaluated for the feasibility of the installation of the proposed changed condition previously noted. The data records furnished were reviewed and the appurtenances loading was evaluated (no computer analysis performed, only relative loading magnitude comparison), in accordance with the TIA-222 Standard provisions and with the agreed limited scope of work terms and the results of this feasibility evaluation are reported. This evaluation is based on information supplied, and therefore, its results are based on and as accurate as that supplied data. MEI has made no independent determination of its accuracy. This existing structure is assumed, for the purpose of this evaluation, to have been properly maintained and to be in good condition with no structural defects and with no deterioration to its capacity ('as-new').

Based on the feasibility structural evaluation of the data provided, the subject structure, including foundation, would meet the minimum requirements of ANSI/TIA 222-F Standard for the proposed changed condition as stated above when considering the structure to have been properly designed for the stated appurtenances. The proposed loading is lower than the design loading and also would stress the structure slightly more (about 5% or less) than the previous structural evaluation.

Therefore, **the installation of the noted proposed changed condition is structurally acceptable** on this existing structure in accordance with the ANSI/TIA 222-F Standard for the loading considered under the criteria listed and referenced.

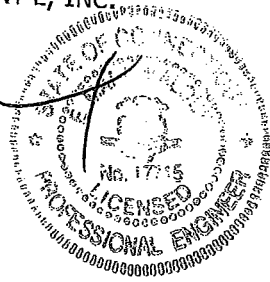
MEI appreciates the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or other projects please contact us.

Respectfully submitted,

MALOUF ENGINEERING INT'L, INC.



E. Mark Malouf, PE
Connecticut #17715
972-783-2578 ext. 106
mmalouf@maloufengineering.com





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

September 11, 2007

Karl F. Kilduff, Town Manager
Town of North Branford
Town Hall, 909 Foxon Road
North Branford, CT 06471-0287

Re: Telecommunications Facility – 88 Parsonage Hill Road, Northford

Dear Mr. Kilduff:

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 (“Cingular”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

**CINGULAR WIRELESS
Equipment Modification**

77 Pease Road, Woodbridge, CT
Site Number 2010
Docket 44.6; Exempt Modifications 9/9/92 and 9/25/02

Tower Owner/Manager: American Tower

Equipment configuration: Monopole

Current and/or approved: Six CSS DUO1417 antennas @ 153 ft c.l.
Six TMA's @ 153 ft
Nine runs 7/8 inch coax

Planned Modifications: Remove existing antennas & coax
Install 6 Powerwave 7770 antennas (or equivalent) @ 153 ft
Install six diplexers @ 153 ft
Install twelve runs 1 5/8 inch coax

Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 7.8 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 4.9 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							
Cingular TDMA *	153	880 - 894	16	100	0.0246	0.5867	0.70
Cingular GSM *	153	880 - 894	2	296	0.0091	0.5867	1.55
Cingular GSM *	153	1900 Band	2	427	0.0131	1.0000	1.31
Total							7.8%

* Per Council Records

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							0.70
Cingular GSM	153	880 - 894	2	296	0.0091	0.5867	1.55
Cingular GSM	153	1900 Band	2	427	0.0131	1.0000	1.31
Cingular UMTS	153	880 - 894	1	500	0.0077	0.5867	1.31
Total							4.9%

* Per Council Records

Structural information:

The attached structural analysis and Anchor Bolt Installation plans (American Tower, dated 5/2/87 and 5/29/07, respectively) demonstrate that the tower and foundation will have sufficient structural capacity once the Anchor Bolt Installation plans are implemented. Cingular will have the structural upgrade performed prior to tower equipment modifications and respectfully requests conditional approval for the proposed modifications.



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

September 11, 2007

Honorable Edward Maum Sheehy
1st Selectman, Town of Woodbridge
11 Meetinghouse Lane
Woodbridge, Connecticut 06525

Re: Telecommunications Facility – 77 Pease Road, Woodbridge

Dear Mr. Sheehy:

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 (“Cingular”) will be changing its equipment configuration at certain cell sites.

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Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

AMERICAN TOWER CORPORATION

400 REGENCY FOREST DRIVE
 CARY, NORTH CAROLINA 27518
 PHONE: (919) 468-0112 / FAX: (919) 466-5413

302480 - WOODBRIDGE CT 1, CONNECTICUT

150 FT. ITT MEYER MONOPOLE ANCHOR BOLT INSTALLATION # 2010

PROJECT DESCRIPTION:

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 40430532 DATED 05/02/07. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

AS-BUILT SIGN-OFF	
DESCRIPTION	SIGNATURE
CONTRACTOR NAME	
CONTRACTOR REPRESENTATIVE (PRINT NAME)	
CONTRACTOR REPRESENTATIVE SIGNATURE	
REDEVELOPMENT P.M. (PRINT NAME)	
REDEVELOPMENT P.M. SIGNATURE	
	DATE

PROJECT SUMMARY

ATC PROJECT NUMBER: 40430532
 CUSTOMER: CINGULAR
 CUSTOMER SITE NUMBER: 2010
 CUSTOMER SITE NAME: WOODBRIDGE CT1
 SITE ADDRESS: 77 PEASE ROAD
 WOODBRIDGE, CT 06525
 DATE: 05/29/07
 REVISION: 0



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the state of Connecticut.

DRAWING INDEX

DRAWING NUMBER	DRAWING TITLE	REVISION
B0M	BILL OF MATERIALS (T PAGER)	0
IGN	ISC GENERAL NOTES	0
A-1	MODIFICATION PROFILE	0
A-2	ANCHOR BOLT INSTALLATION	0

GENERAL

1. ALL METHODS, MATERIALS AND WORKMANSHIP SHALL FOLLOW THE DICTATES OF GOOD CONSTRUCTION PRACTICE.
2. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
4. ANY SUBSTITUTIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

5. ANY MANUFACTURED DESIGN ELEMENTS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS. SUBSTITUTIONS SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER OF RECORD AND REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.

6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC., NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.

8. CONTRACTORS PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DEVIATE ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

9. FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
10. ALL FIELD CUT SURFACES SHALL BE REPAIRED WITH ZINC GALVANITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS REQUIREMENTS.

APPLICABLE CODES AND STANDARDS

1. ANS/AISC: STRUCTURAL STANDARDS FOR STEEL, ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 22ND EDITION.
2. 2000 INTERNATIONAL BUILDING CODE.
3. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-89.
4. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
5. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
6. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION AND SECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
2. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A124. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR 888.
3. ALL HARDWARE SHALL BE ASTM A307 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.

WELDING

1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
2. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNO.
3. MINIMUM WELD SIZE TO BE 0.4975 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
4. PRIOR TO FIELD WELDING GALVANIZED MATERIAL CONTRACTOR SHALL GRIND OFF GALVANIZING $1/2$ " BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZINC GALVANITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS REQUIREMENTS.

PAINT

1. AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO F.A.A. ADVISORY CIRCULAR AC 707469-1K.

BOLT TIGHTENING PROCEDURE

1. TIGHTEN RANGE BOLTS BY AISC - TURN OF THE NUT METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIA.
3/4" BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH
7/8" BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH
1" BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH
1-1/8" BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH
1-1/4" BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH
1-1/2" BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH

BOLT LENGTHS OVER FOUR DIA. BUT NOT EXCEEDING 8 DIA.
3/4" BOLTS 4.25 TO 6.0 INCH LENGTH
7/8" BOLTS 3.75 TO 7.0 INCH LENGTH
1" BOLTS 4.25 TO 8.0 INCH LENGTH
1-1/8" BOLTS 5.25 TO 10.0 INCH LENGTH
1-1/4" BOLTS 6.25 TO 12.0 INCH LENGTH
1-1/2" BOLTS 6.25 TO 12.0 INCH LENGTH

2. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8(6)(1) OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

*FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8(6)(1) THROUGH 8(6)(4).

8(6)(1) TURN-OF-THE-NUT TIGHTENING.

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8 (6). UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF PRESCRIBED TORQUE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL BE NO SYSTEMATICALLY.

3. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8 (6) OF THE SPECIFICATION.

SPECIAL INSPECTION

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2000, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:

- a) STRUCTURAL WELDING
- b) HIGH STRENGTH BOLTS

2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2000, SECTION 1704. UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING DEPARTMENT, TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.



AMERICAN TOWER
STRUCTURAL ENGINEERING
AND RESEARCH CONSULTANTS
PHYSICAL ADDRESS: 1200 N. 17TH ST.
PHOENIX, AZ 85016
PHONE: 602.442.4222
FAX: 602.442.4222
WWW.ATSE.COM

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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	JMB	JUN 12/14/05
2			
3			

SITE NUMBER:
VARIOUS

SITE NAME:
VARIOUS

SITE ADDRESS:
VARIOUS

DRAWN BY:	JMB
CHECKED BY:	JFS
DATE DRAWN:	12/14/05
AEC JOB NO.:	VARIOUS
SHEET TITLE:	

IBC GENERAL NOTES

SHEET NUMBER:	IGN	REV. #	0
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REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	JMB	08/17/02

SITE NUMBER:
302480

SITE NAME:
WOODBRIDGE CT 1

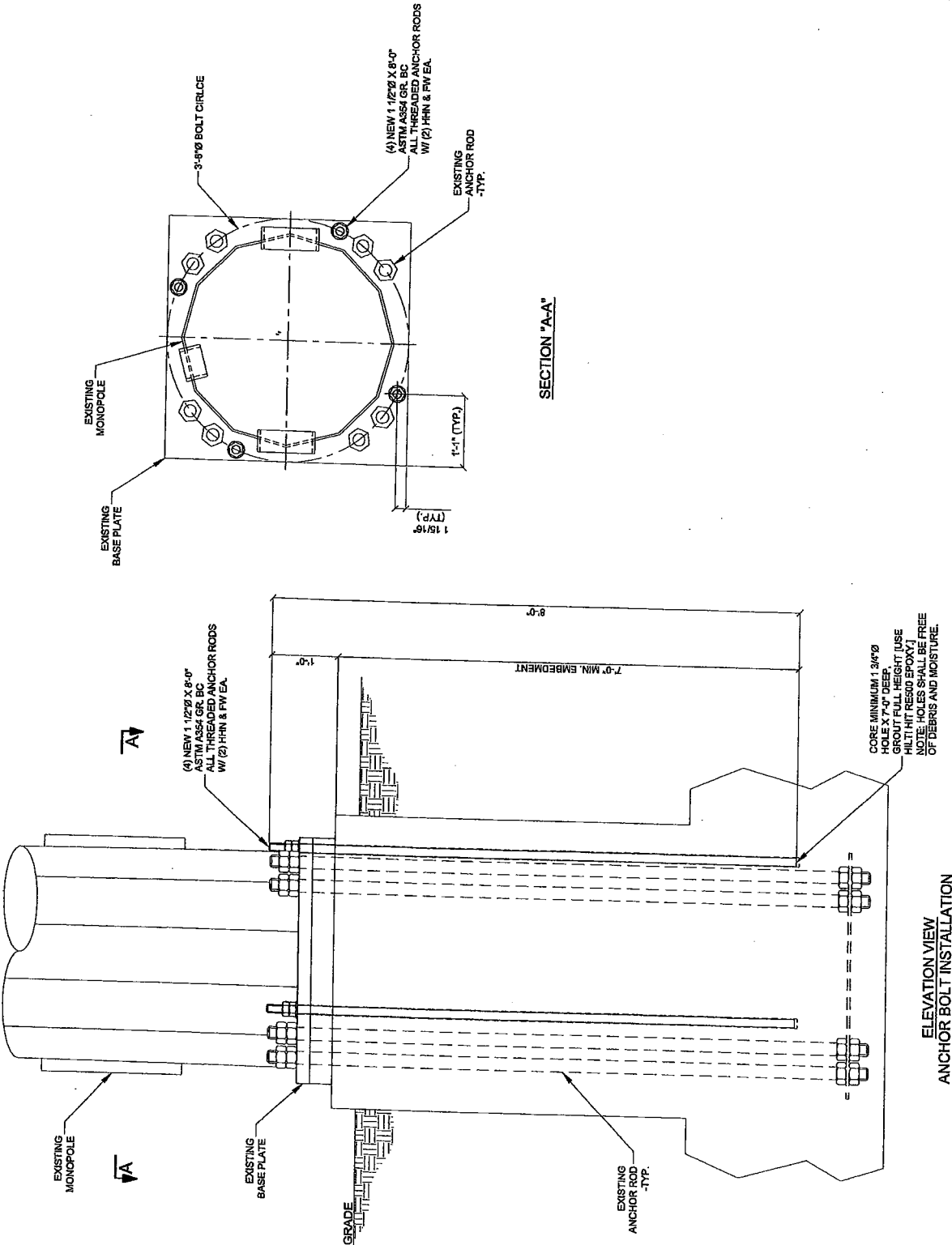
CONNECTICUT

SITE ADDRESS:
77 PLEASE ROAD
WOODBRIDGE, CT 06525

DRAWN BY:	JMB
CHECKED BY:	JMS
DATE DRAWN:	08/29/02
A.T.C. JOB NO.:	40430552
SHEET TITLE:	

ANCHOR BOLT INSTALLATION

SHEET NUMBER:	A-2	REV. #	0
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SECTION "A-A"

ELEVATION VIEW
ANCHOR BOLT INSTALLATION

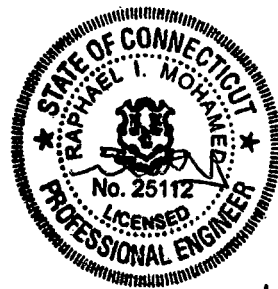


AMERICAN TOWER

Structural Analysis Report

Structure : 150 ft ITT Meyer Monopole
ATC Site Name : Woodbridge CT 1
ATC Site Number : 302480
Proposed Carrier : Cingular
Carrier Site Name : Woodbridge CT1
Carrier Site Number : 2010
County : New Haven
Eng. Number : 40430521
Date : May 2, 2007
Usage : 109%
Portholes Required : No

Submitted by:
Zachary A. Medoff
Design Engineer



5/4/07

American Tower Engineering Services
400 Regency Forest Drive
Cary, NC 27518
Phone: 919-468-0112

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 150 ft ITT Meyer Monopole located at 77 Pease Road, Woodbridge, CT 06525, New Haven County (ATC site #302480). The tower was originally designed and manufactured by ITT Meyer (Type B standards from AT-8935, dated April 13, 1989). Foundation information was taken from a mapping by FDH (Project #01-0303, dated March 19, 2001). The foundation modifications designed by SpectraSite Communications (Site #CT-0016, dated April 22, 2002) are assumed to be completed.

Analysis

The tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition.

Basic Wind Speed: 85 mph (Fastest Mile) / 105 mph (3-Second Gust)
 Radial Ice: 74 mph (Fastest Mile) w/ 1/2" ice
 Code: TIA/EIA-222-F / 2003 International Building Code w/ 2005 CT Supplement

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
153.0	1	15' Omni	Platform w/ Handrails	(1) 1-5/8	Cingular
	6	ADC DD1900		-	
	1	10' Omni		(1) 1-5/8	
39.0	1	GPS	Pipe	(1) 1/2	

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (in)	Carrier
150.0	6	Allgon 7770.00	Platform w/ Handrails	(12) 1-5/8	Cingular
	6	Powerwave LGP13519		-	

Install proposed coax inside monopole.

Results

The maximum structure usage is: 109%

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	1,197.0	1,561.7	131
Shear (kips)	13.1	16.5	126

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Conclusion

Based on the analysis results, the structure does not meet the requirements per TIA/EIA-222-F and 2003 IBC standards with 2005 CT Supplement. The tower and foundation can support the existing and proposed equipment after the modifications listed below are completed:

- Install additional anchor bolts

If you have any questions or require additional information, please call 919-466-6535.

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.