



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@po.state.ct.us

Web Site: www.ct.gov/csc

January 20, 2004

Michele G. Briggs
Manager of Real Estate
Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-024-031222** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at Lot 54 Palmer Road, Chaplin, Connecticut.

Dear Ms. Briggs:

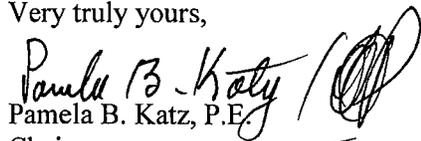
At a public meeting held on January 12, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 19, 2003 and additional information dated January 7, 2004. 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. 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,


Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable Rusty Lanzit, First Selectman, Town of Chaplin
Raymond Murphy, Zoning Enforcement Officer, Town of Chaplin
Sandy M. Carter, Verizon Wireless
Thomas J. Regan, Esq., Brown Rudnick Israels Berlack LLP

Network Department



Verizon Wireless
99 East River Dr. 9th Fl
East Hartford, CT 06108

RECEIVED
JAN - 8 2004

CONNECTICUT
SITING COUNCIL

January 7, 2004

Mr. Steve Schadler
Cingular Wireless
500 Enterprise Drive, Suite 3A
Rocky Hill, CT. 06067

Re: Siting Council Application for Chaplin, CT.

Dear Mr. Schadler:

Please be advised that I have reviewed your Siting Council Application for Verizon's Telecommunications Facility located at Lot 34 Palmer Road in Chaplin, Connecticut and authorize your submittal to the Connecticut Siting Council.

Very truly yours,

Sandy M. Carter
Regulatory Manager
Verizon Wireless



CONNECTICUT SITING COUNCIL

FACSIMILE TRANSMITTAL SHEET

TO: MIKE PERRONE FROM: STEVE LEVINE
 COMPANY: CT SITING COUNCIL DATE: 1-7-04
 FAX NUMBER: 827-2950 TOTAL NO. OF PAGES INCLUDING COVER:
 PHONE NUMBER: SENDER'S REFERENCE NUMBER:
 RE: VERIZON APPROVAL FOR CHAPLIN APPLIC.
 YOUR REFERENCE NUMBER:

- URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

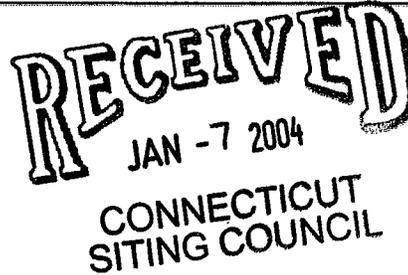
Mike,

We should be in good shape now. Thanks.

- Steve

Perrone, Michael

From: Levine, Steven [Steven.Levine@cingular.com]
Sent: Wednesday, January 07, 2004 1:24 PM
To: Perrone, Michael
Subject: EM-CING-024-031222: Errata in Application



Mike,

Per our previous discussions, I am providing written confirmation of corrections to Cingular's Chaplin, CT exempt mod application EM-CING-024-031222.

Correct Site Coordinates: N41 - 47 - 3.6 and W72 - 0 8 - 10.3

Correct Site Address: Lot 54 Palmer Rd, Chaplin, CT

Correct beginning of 1st Sentence of 5th paragraph on Page 1: "Verizon has agreed to plans put forth by SBMS....."

I am also attaching a corrected first page of the application as an attachment.

Please confirm receipt of this email.

Thank you.

SW Bell Mobile Systems / Cingular Wireless

Steve Levine

500 Enterprise Drive, 3rd Fl., Rocky Hill, CT 06067

Real Estate Consultant

Office 860-513-7636

Mobile 203-556-1655

Fax 860-513-7190

<<csc EM application - Chaplin - Palmer Rd.doc>>



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@po.state.ct.us

Web Site: www.ct.gov/csc

December 29, 2003

Honorable Eugene V. Boomer, Jr.
First Selectman
Town of Chaplin
Town Hall
Route 198
P. O. Box 286
Chaplin, CT 06235-0286

RE: **EM-CING-024-031222** – Southwestern Bell Mobile Systems, LLC (“SBMS”) notice of intent to modify an existing telecommunications facility located at Lot 34 Palmer Road, Chaplin, Connecticut.

Dear Mr. Boomer:

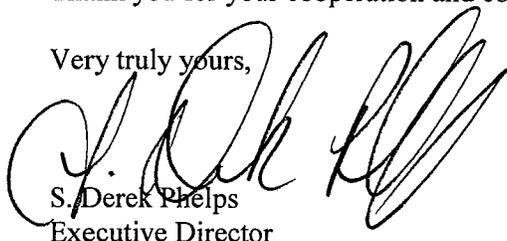
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for January 12, 2004 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps
Executive Director

SDP/cm

Enclosure: Notice of Intent

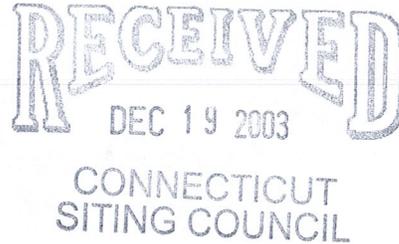
cc: Raymond Murphy, Zoning Enforcement Officer, Town of Chaplin



Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

December 19, 2003



Ms. Pam Katz, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Notice of Exempt Modification – Existing Verizon Telecommunications Tower Facility at Lot 34 Palmer Road, Chaplin, Connecticut

Dear Chairman Katz:

Southwestern Bell Mobile Systems, LLC ("SBMS") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower off Palmer Road in Chaplin, Connecticut.

The Chaplin facility is located at Lot 34 Palmer Road. Tower coordinates (NAD 83) are N 41° 19' 18" and W 73° 12' 05". The facility is owned and operated by Verizon Wireless ("Verizon"), with offices at 180 Washington Valley Road, Bedminster, New Jersey 07921. Verizon leases the land from Janet and Donald Besette of North Windham, Connecticut.

Please accept this letter as notification to the Council, 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 is being sent to the First Selectman of Chaplin.

SBMS, the local component of the nationwide Cingular Wireless network, is licensed by the Federal Communications Commission ("FCC") to provide cellular mobile telephone service in the Windham Connecticut Rural Statistical Area, which includes the area to be served by SBMS' proposed installation. The public need for cellular service has been predetermined by the FCC.

CAT has agreed to plans put forth by SBMS pursuant to mutually acceptable terms and conditions and has also authorized SBMS to obtain necessary government approvals. Attached to this Notice are a site location map, a proposed site plan, the proposed tower profile, and a structural analysis report that shows the tower is structurally capable of supporting the proposed SBMS telecommunications equipment.

The Verizon facility was approved by the Council in Docket 211 on February 14, 2002 as a

150-foot monopole, with Crown Castle was the original Certificate holder, but the Certificate was subsequently transferred to Verizon.

The Palmer Road facility, which is currently under construction, will consist of a 150-foot monopole within a roughly 75' x 75' rectangular compound surrounded by an 8-ft high chain link fence. Verizon will operate antennas at the top of the tower and has its equipment in a 12' x 30' equipment building. Sprint will operate panel antennas at the 137 ft level of the monopole and has equipment cabinets mounted on a concrete pad.

As shown on the attached drawings and as further described below, SBMS proposes to install up to twelve CSS DUO4-8670 panel antennas, approximately 48 inches in height, with the center of radiation approximately 127 feet above ground level. Associated equipment to be installed on the tower are up to six ADC Co. dual-band tower top amplifiers ("TTA's"; small metal boxes approximately 26 pounds apiece) immediately behind the antennas, and up to three very small (5 pounds apiece) CSS dual-band "combiners." SBMS also proposes to place a 12' x 20' prefabricated concrete equipment building at the base of the tower. All work will be done inside the existing fenced compound.

With the "GSM-only" configuration, SBMS will broadcast up to:

- 2 channels, 296 Watts ERP, 880 – 894 MHz; and
- 2 channels, 427 Watts ERP, 1930 – 1935 MHz.

Statutory Considerations

The changes to the Chaplin tower facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2) because they will not result in any substantial adverse environmental effect.

1. The height of the overall structure will be unaffected.
2. The proposed changes will not affect the property boundaries. All new construction will take place on property leased by Verizon and within the existing fenced compound.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.
4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the currently proposed antenna array is as follows:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Verizon *	147	874.5	19	100	0.0316	0.5833	5.42
Sprint **	137	1962.5	11	342.5	0.0722	1.0000	7.22
Cingular GSM	127	880 - 894	2	296	0.0132	0.5867	2.25
Cingular GSM	127	1930 - 1935	2	427	0.0190	1.0000	1.90
Total							11.37%

* Power density parameters adapted from Verizon's application in Docket 211.

** Power density parameters provided to SBMS by Sprint.

† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 11.4 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from SBMS' use of the tower facility would thus be within applicable standards.

For the foregoing reasons, SBMS respectfully submits that proposed changes to implement expanded shared use at the Chaplin site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7700 with questions concerning this application. Thank you for your consideration in this matter.

Respectfully yours,

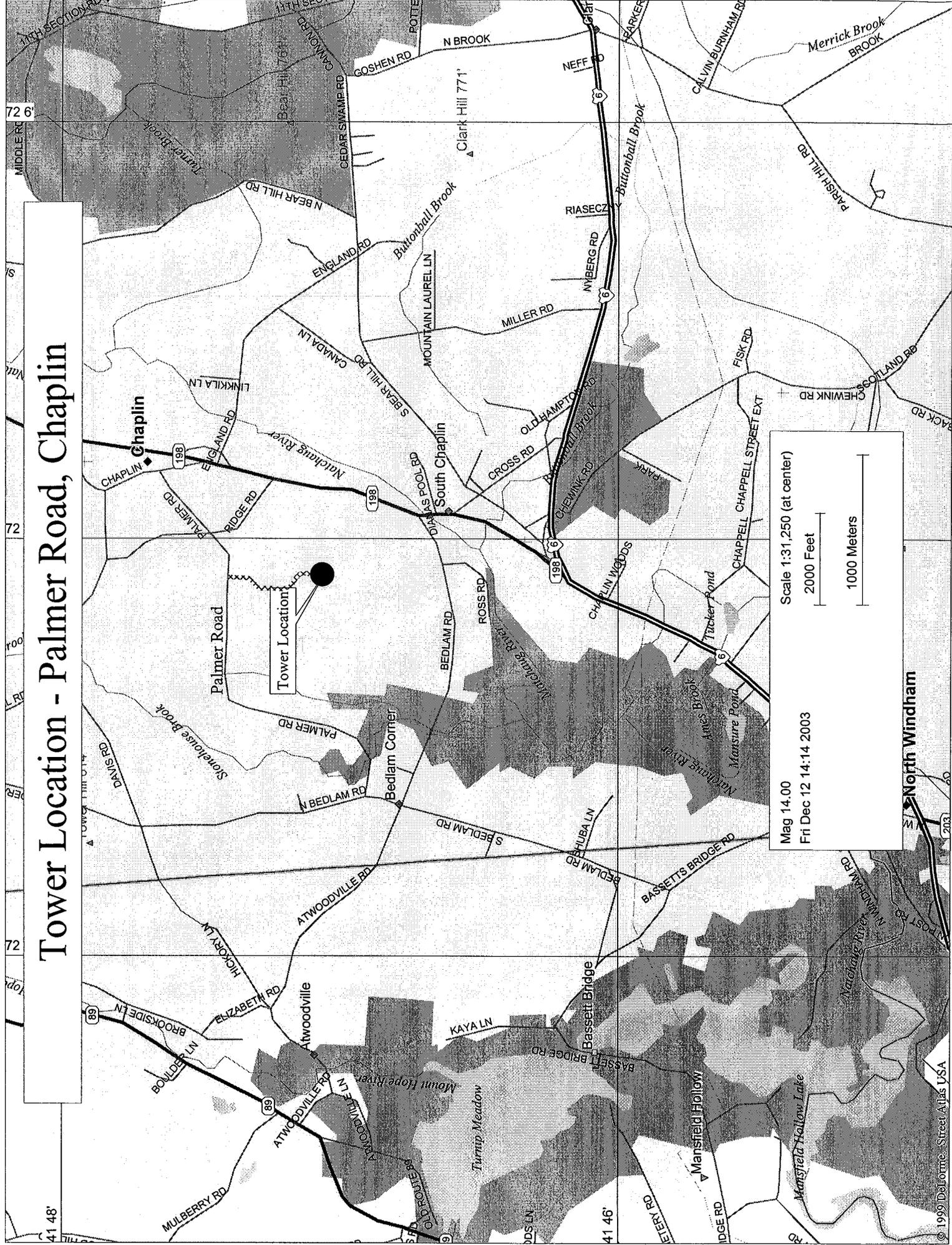
Michele G. Briggs / SLL

Michele G. Briggs
Manager of Real Estate

Enclosures

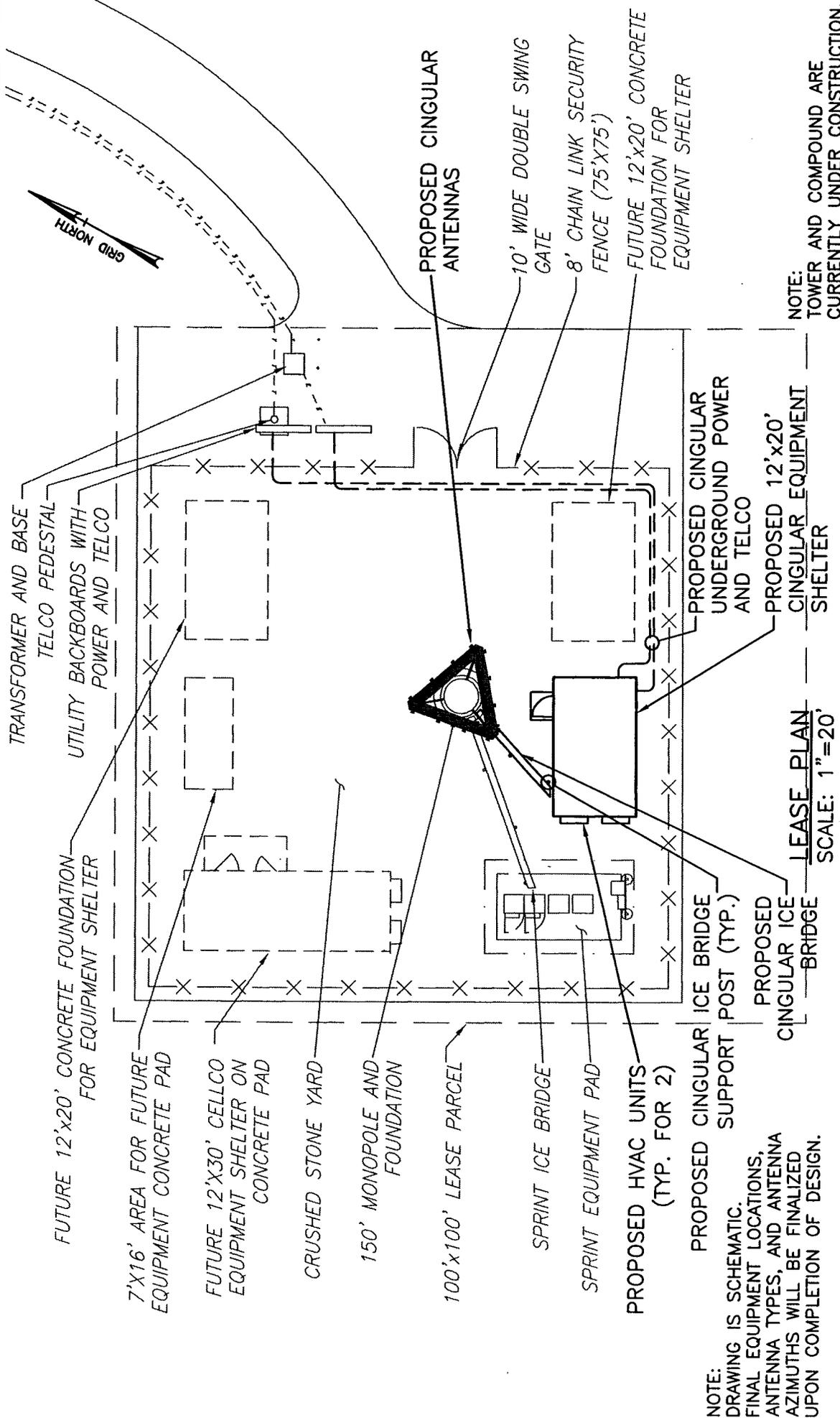
cc: Honorable Eugene V. Boomer, Jr., 1st Selectman, Town of Chaplin

Tower Location - Palmer Road, Chaplin



Mag 14.00
Fri Dec 12 14:14 2003

Scale 1:31,250 (at center)
2000 Feet
1000 Meters



NOTE:
 TOWER AND COMPOUND ARE
 CURRENTLY UNDER CONSTRUCTION.

NOTE:
 DRAWING IS SCHEMATIC.
 FINAL EQUIPMENT LOCATIONS,
 ANTENNA TYPES, AND ANTENNA
 AZIMUTHS WILL BE FINALIZED
 UPON COMPLETION OF DESIGN.

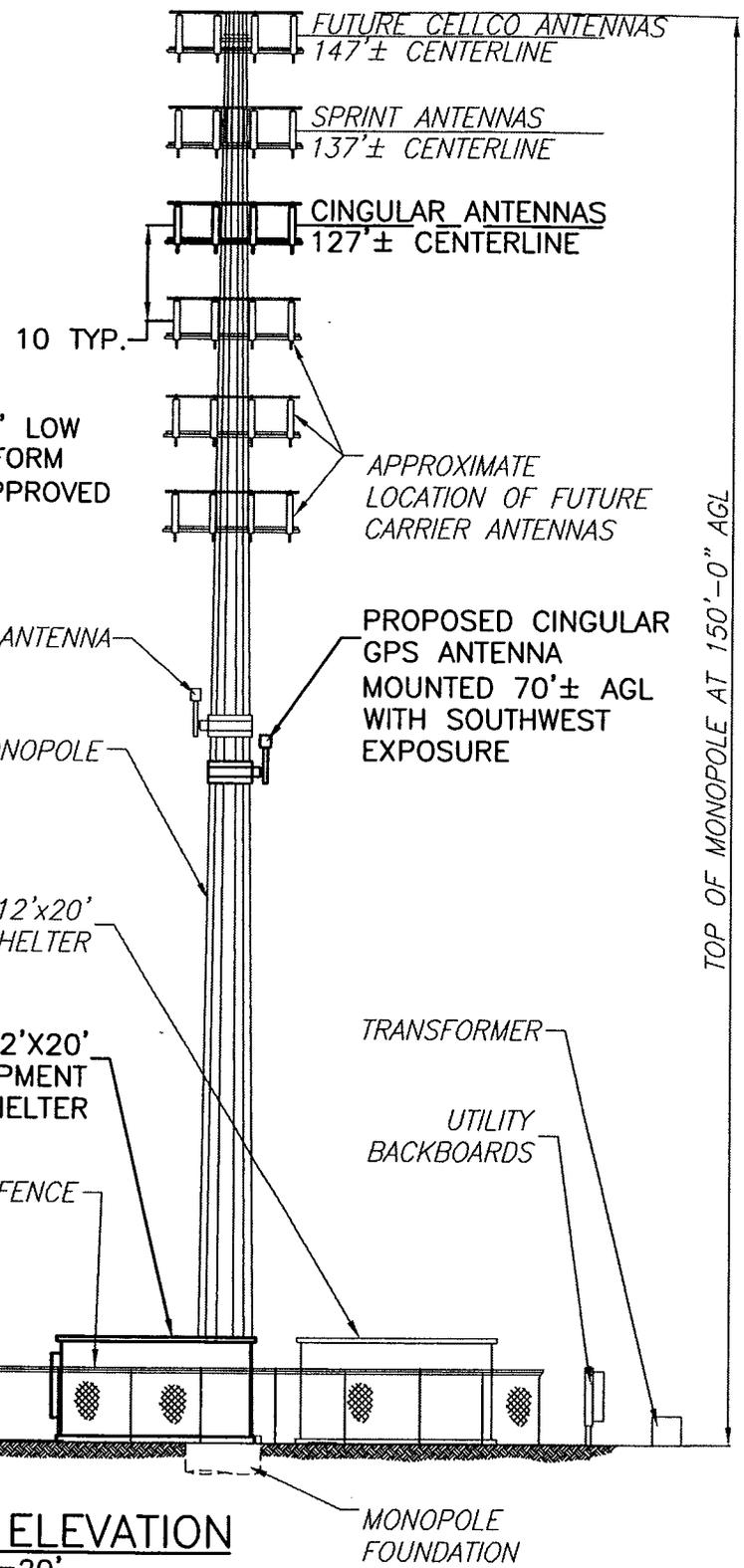
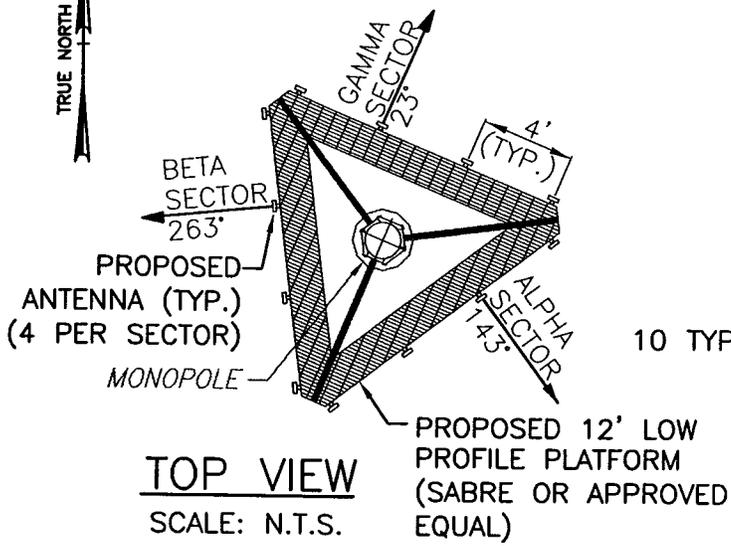
NOTE:
 THIS DOCUMENT WAS DEVELOPED TO
 REFLECT A SPECIFIC SITE AND ITS SITE
 CONDITIONS AND IS NOT TO BE USED
 FOR ANOTHER SITE OR WHEN OTHER
 CONDITIONS PERTAIN. REUSE OF THIS
 DOCUMENT IS AT THE SOLE RISK OF THE
 USER.

Dewberry-Goodkind, Inc.
 A Dewberry Company
 Engineers
 Planners
 Surveyors
 59 Elm Street, Suite 101
 New Haven, CT 06510
 P. (203) 776-2277
 F. (203) 776-2288

SCALE: AS SHOWN
 DESIGNED BY: CKD
 DATE: 11/11/03

LEASING PLAN
 SITE NAME: CHAPLIN
 LOT 54 PALMER ROAD
 CHAPLIN, CONNECTICUT

Cingular WIRELESS
 SHEET NO. LE1



Q:\3666\03-Chaplin\cadd\cell\Lease\3666-L2.dwg Plot: msmith
 By: MJS
 Layer State:
 Xref:

Dewberry-Goodkind, Inc. A Dewberry Company 59 Elm Street, Suite 101 New Haven, CT 06510 p. (203) 776-2277 f. (203) 776-2288	SCALE: AS SHOWN	LEASING ELEVATION	
	DESIGNED BY: CKD		
	DATE: 11/11/03	SHEET NO. LE2	



59 Elm Street
Suite 101
New Haven, Connecticut 06510-2047

203 776 2277
203 776 2288 fax
www.dewberry.com

November 21, 2003

Mr. Stephen Schadler
Cingular Wireless
500 Enterprise Drive, 3rd Floor
Rocky Hill, CT 06067

**Re: Lot 54 Palmer Road
Chaplin, CT
Structural Assessment of 147-Foot Monopole**

Dear Mr. Schadler:

We have completed our structural assessment of the existing monopole structure, at the above referenced site, to support the proposed Cingular antennas, frames and antenna cables, pursuant to Section 108.1.1 of the Connecticut State Building Code (CSBC). We have reviewed the monopole and foundation calculations dated November 12, 2003 prepared by Engineered Endeavors Incorporated (EEI).

Section 1609.1 of the CSBC addresses radio and television towers and references Section 3108.4 of the 1996 BOCA Code. The BOCA Code references EIA/TIA 222-E for antenna supporting structures. The EEI analysis of the monopole and foundations is based on the later version of this code, TIA/EIA 222-F, which includes all of the requirements of EIA/TIA 222-E.

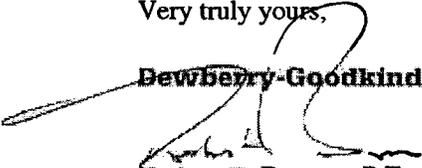
The monopole is 147ft high and the proposed Cingular installation, an array of 12 panel antennas on a low profile platform, will be located 127ft above grade. The EEI analysis assumes the pole will be loaded by six arrays of 12 generic panel antennas of wind area 3.2 sq. ft. on low profile platforms between elevations 97ft and 147ft with 10ft separations. The structure was analyzed in spreadsheet format with an in-house computer program by EEI. The lateral wind loads and the gravity loads were calculated by the program in accordance with the requirements of TIA/EIA 222-F. These loads were used to determine the forces in the monopole sections and the foundation horizontal and vertical reactions and overturning moment. Hand calculations by Dewberry-Goodkind, Inc. confirmed the results of the computer analysis. The Cingular installation will comprise of CSS Antennas, Inc DUO1417-8686 antennas of wind area 2.5sq.ft and ADC's Tower-Mounted amplifiers of wind area 0.9 sq.ft. mounted directly in-line with the panel antennas. The Cingular installation will be second on the monopole. The effect on the analysis of combining the amplifier with the smaller antennas is insignificant and there is ample capacity to support the Cingular installation.

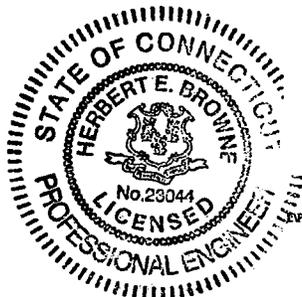
Upon review of the signed and sealed calculations and sketches prepared by Engineered Endeavors Incorporated it is our conclusion that the existing monopole and foundations can safely support the proposed Cingular installation and the design is in compliance with the Connecticut State Building Code.

Please feel free to contact us if there are any questions pertaining to our structural assessment.

Very truly yours,

Dewberry-Goodkind, Inc.


Herbert E. Browne, P.E.
Director, Building Structures



PROJECTS\3139\12-ST JOHNS CEMETARY\DOCS\0666-03-Structural.D0

Dewberry-Goodkind, Inc.



Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

December 19, 2003

Honorable Eugene V. Boomer, Jr.
1st Selectman, Town of Chaplin
Town Hall 495 Phoenixville Road
Chaplin, Connecticut 06235

Re: Notice of Exempt Modification – Existing Verizon Telecommunications Tower Facility at Lot 34 Palmer Road, Chaplin, Connecticut

Dear Mr. Boomer:

Southwestern Bell Mobile Systems, LLC (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower off Palmer Road in Chaplin, Connecticut.

The facility is owned and operated by Verizon Wireless (“Verizon”), with offices at 180 Washington Valley Road, Bedminster, New Jersey 07921. Verizon leases the land from Janet and Donald Bessette of North Windham, Connecticut.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73. Please accept this letter as notification to the Town of Chaplin 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 attached letter fully sets forth the SBMS proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council’s procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Michele G. Briggs
Manager of Real Estate

Enclosure