



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.state.ct.us/csc/index.htm

December 23, 2003

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

RE: **EM-CING-025-031212** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 500 Highland Avenue (Route 10), Cheshire, Connecticut.

Dear Ms. Briggs:

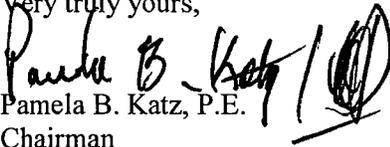
At a public meeting held on December 22, 2003, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 12, 2003. 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 Michael Milone, Town Manager, Town of Cheshire
Richard A. Pfurr, Town Planner, Town of Cheshire
Christopher F. Ciolfi, Senior Vice President, Network Development, Tower Ventures II, LLC
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae LLP
Christopher B. Fisher, Esq., Cuddy & Feder LLP



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December 16, 2003

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

RE: **EM-CING-025-031212** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 500 Highland Avenue,(Route 10) Cheshire, Connecticut.

Dear Mr. Milone:

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 December 22, 2003 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: Town of Cheshire

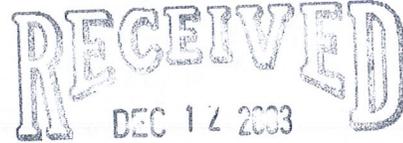


Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

December 12, 2003

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



CONNECTICUT
SITING COUNCIL

Re: Notice of Exempt Modification – Existing Municipal Telecommunications Tower Facility at 500 Highland Avenue (Route 10), Cheshire, Connecticut

Dear Chairman Katz:

Southwestern Bell Mobile Systems, LLC ("SBMS") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 500 Highland Avenue in Cheshire, Connecticut.

The Cheshire facility is located at 500 Highland Avenue (Route 10), approximately 3 miles south of the Interstate 691. Tower coordinates (NAD 83) are N 41° 30' 40.3" and W 72° 53' 54.5".

The tower facility is owned by the Town of Cheshire and is situated on municipally-owned land behind the Police Department building. The Town's mailing address is 84 South Main St., Cheshire, Connecticut 06410. The tower facility is managed by Tower Ventures II, LLC as agent for the Town of Cheshire. Tower Venture's address is 170 Westminster Street, Suite 701, Providence, RI 02903.

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 Town Manager of Cheshire.

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 New Haven Connecticut Metropolitan 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.

The Town of Cheshire 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 report showing that the tower was designed to be structurally capable of supporting the proposed SBMS telecommunications equipment.

The Cheshire Planning and Zoning Commission issued a Zoning Permit for the facility on July 31, 2003. Because the facility is owned and operated by the Town of Cheshire, is used by the Town for public safety communications, and is located on Town-owned land, it is legally zoned as a "municipal tower." The tower came under Council jurisdiction with AT&T's application to co-locate in TS-AT&T-025-030711, which was approved on July 22, 2003.

The Highland Avenue facility consists of a 160-foot monopole in the final stages of construction. The Town will operate public safety antennas whip antennas at the top of the tower, and Sprint, T-Mobile, and AT&T have received Council approval to operate at 157.5, 147.5, and 137.5 feet above ground level, respectively.

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 127.5 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 on the opposite side of a bituminous drive, along with buildings of other carriers, and cables will pass beneath the drive through a culvert provided by the Town for this purpose. All work will be done on land belonging to the Town of Cheshire.

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 Cheshire 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 owned by the Town of Cheshire.
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
Town of Cheshire *	167.5	450	not provided		0.0166	0.3000	5.53
Sprint *	157.5	1962	12	250	0.0435	1.0000	4.35
T-Mobile *	147.5	1935	8	250	0.0331	1.0000	3.31
AT&T *	137.5	D: 1945 E: 1985	12	250	0.0571	1.0000	5.71
Cingular GSM	127.5	880 - 894	2	296	0.0131	0.5867	2.23
Cingular GSM	127.5	1930 - 1935	2	427	0.0189	1.0000	1.89
Total							17.48%

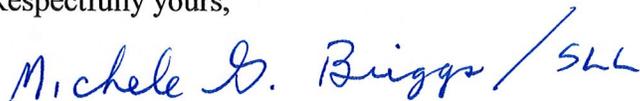
* Power density parameters taken from T-Mobile's application to the Council in TS-T-MOBILE-025-030714.
† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 17.5 % 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 Cheshire 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,

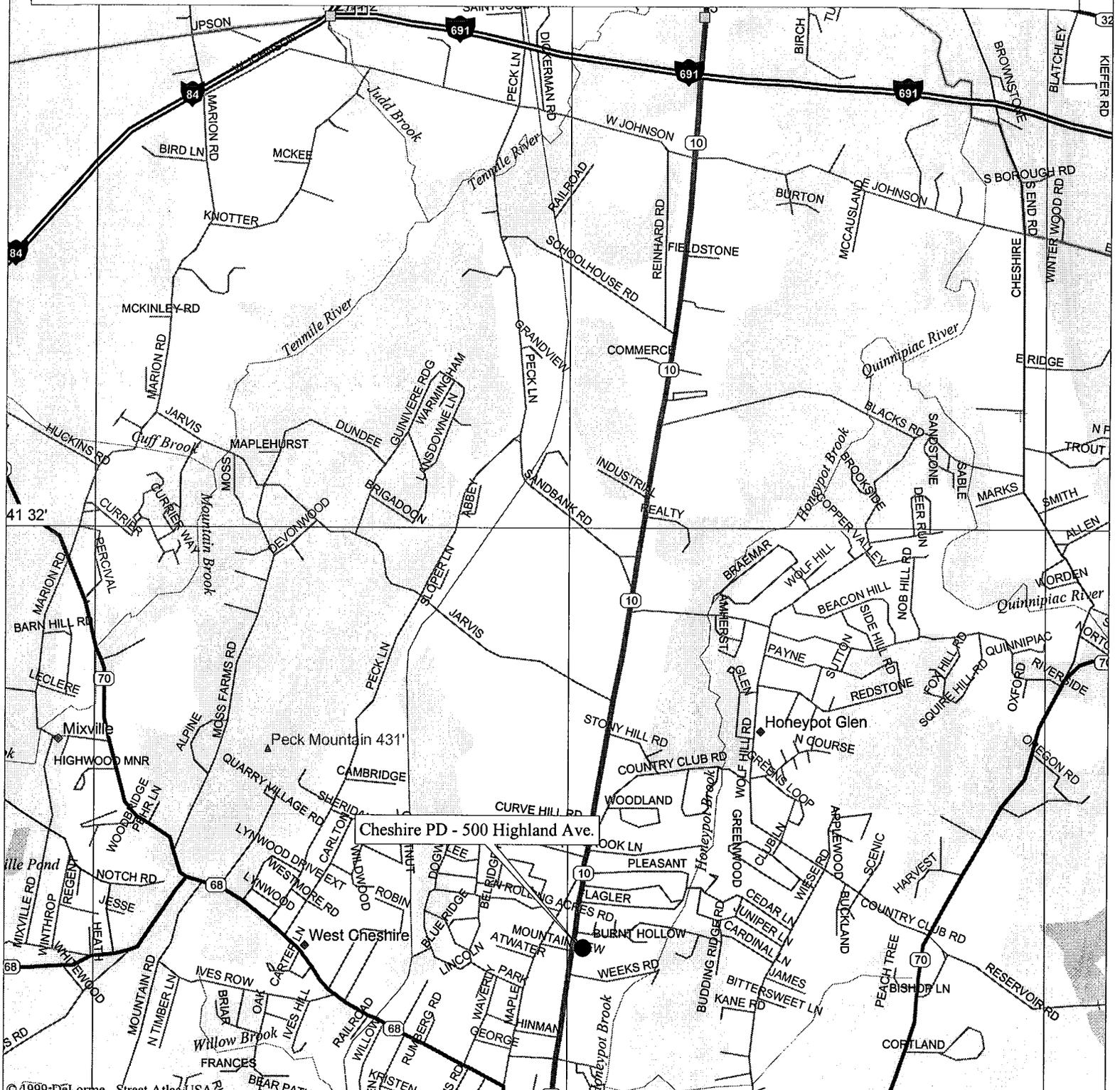


Michele G. Briggs
Manager of Real Estate

Enclosures

cc: Honorable Michael A. Milone, Town Manager, Town of Cheshire

Cheshire PD -- 500 Highland Ave



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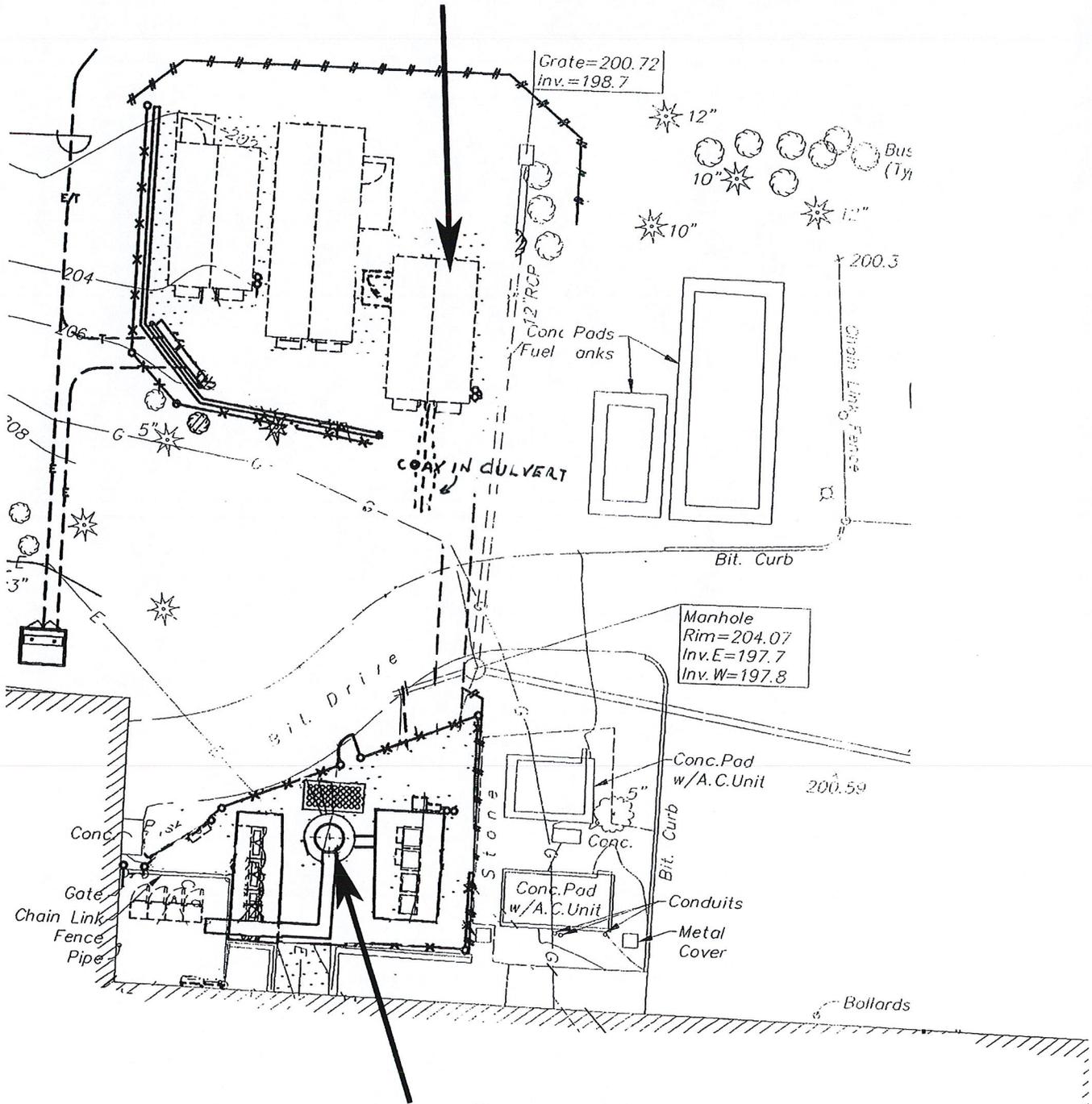
Mag 14.00
Wed Dec 10 11:06 2003

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

- Local Road
- Major Connector
- State Route
- Primary State Route
- Trail
- Interstate/Limited Access

EXHIBIT B-2 – SITE SKETCH

APPROXIMATE LOCATION OF CINGULAR EQUIPMENT



APPROXIMATE LOCATION OF 160' MONOPOLE

CINGULAR ANTENNAS AT 127.5' +/- AGL CENTERLINE

1" = 22 FEET



Structural Design Report
167.5' Monopole
located at: Cheshire Police, CT
Site Number: CT-03102A

FILE

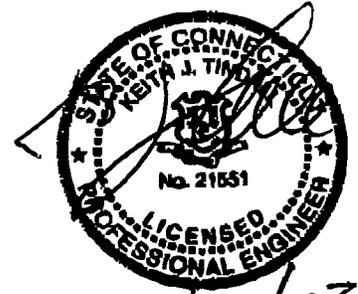
prepared for: Tower Ventures, LLC
by: Sabre Communications Corporation™

Job Number: 04-09077

September 12, 2003

FINAL DESIGN

Monopole Profile	1
Foundation Design Summary	2
Pole Calculation	C1-C9
Foundation Calculations	F1-F2



9/12/03

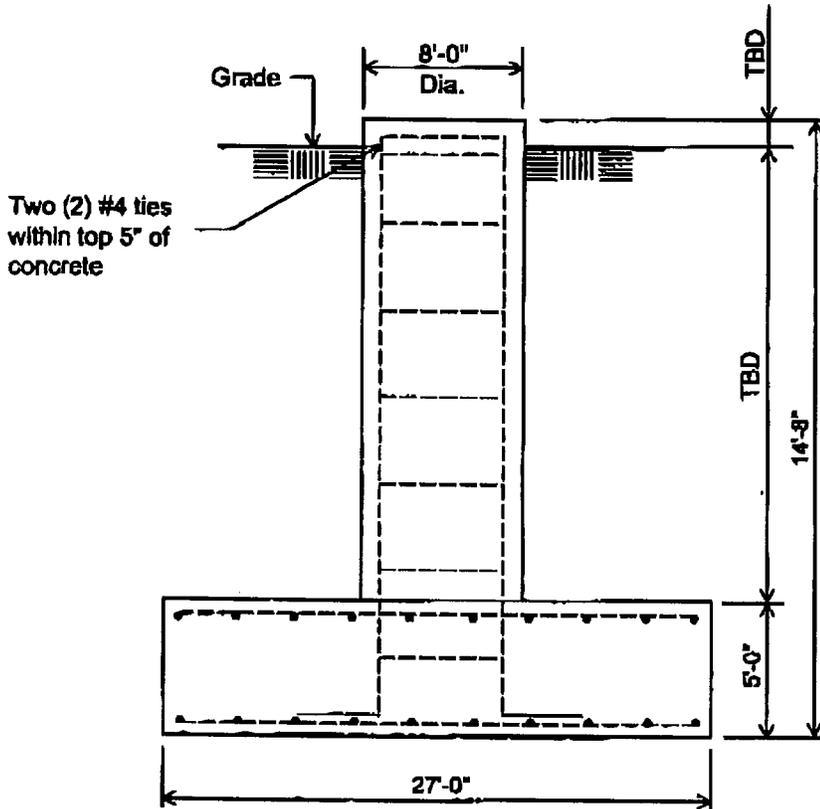
Prepared by *KJT*
Checked by *QDQ*
Approved by *KJT*



No.: 04-09077
 Page: 2
 Date: 9/12/03
 By: KJT

Customer: Tower Ventures, LLC
Site: Cheshire Police, CT CT-03102A

167.5' Monopole at
 85 mph Wind + 0.5 in. Ice per ANSI/TIA/EIA-222-F-1996.
 Antenna Loading per Page 1



Notes:

- 1). Concrete shall have a minimum 28-day compressive strength of 4000 PSI, in accordance with ACI 318-02
- 2). Rebar to conform to ASTM specification A615 Grade 60.
- 3). All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by Jaworski Geotech, Inc., Project No. 03349G, dated June 24, 2003.
- 6). See the geotechnical report for compaction requirements, if specified.
- 7). The soil density was assumed to be zero, for the design of this foundation.

ELEVATION VIEW
 (153 Cu. Yds. each)
 (1 REQUIRED)

Rebar Schedule per Pad and Pier	
Pier	(38) #9 vertical rebar w/hooks at bottom w/#4 ties, two within top 5" of top of pier then 12" C/C
Pad	(42) #8 horizontal rebar evenly spaced each way top and bottom (168 Total)

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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 12, 2003

Honorable Michael A. Milone
Town Manager, Town of Cheshire
Town Hall, 84 South Main St.
Cheshire, Connecticut 06410

**Re: Notice of Exempt Modification – Existing Municipal Telecommunications Tower Facility
at 500 Highland Avenue (Route 10), Cheshire, Connecticut**

Dear Mr. Milone:

Southwestern Bell Mobile Systems, LLC ("SBMS") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 500 Highland Avenue in Cheshire, Connecticut.

The facility is owned by the Town of Cheshire and is situated on municipally-owned land behind the Police Department building.

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 Cheshire 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,

A handwritten signature in cursive script that reads "Michele G. Briggs/SLC".

Michele G. Briggs
Manager of Real Estate

Enclosure