



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

July 13, 2001

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **TS-AT&T-097-010618** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 352 South Main Street, Newtown, Connecticut.

Dear Attorney Fisher:

At a public meeting held July 11, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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 may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated June 15, 2001.

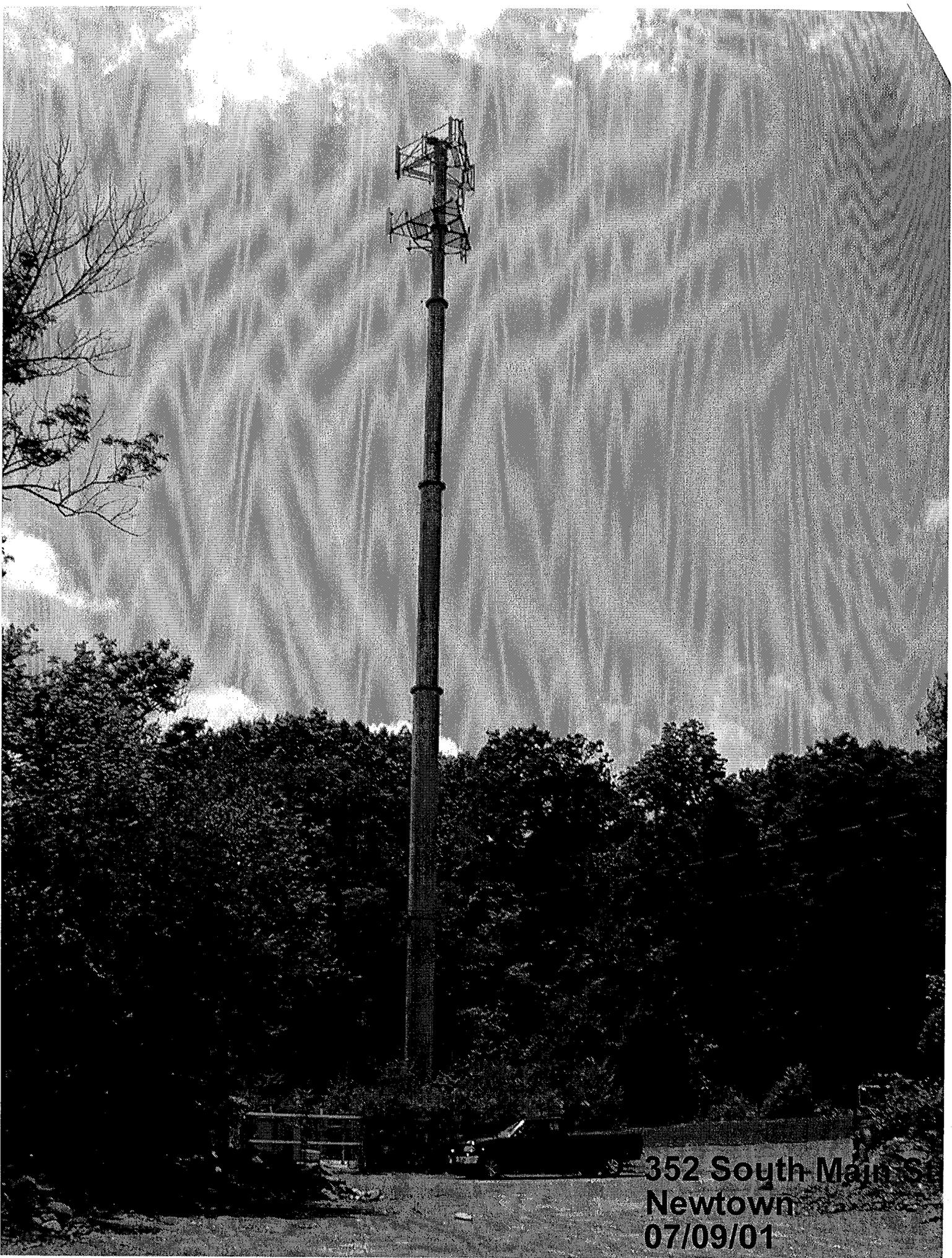
Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Herbert C. Rosenthal, First Selectman, Town of Newtown
Gary Frenette, Zoning Enforcement Officer, Town of Newtown
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene, and MacRae



352 South Main St
Newtown
07/09/01



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

June 26, 2001

Honorable Herbert C. Rosenthal
First Selectman
Town of Newtown
Town Hall
45 Main Street
Newtown, CT 06470

RE: **TS-AT&T-097-010618** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 352 South Main Street, Newtown, Connecticut.

Dear Mr. Rosenthal:

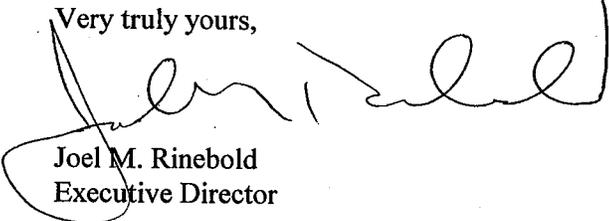
The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for Wednesday, July 11, 2001, at 2:00 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,



Joel M. Rinebold
Executive Director

JMR/RKE/grg

Enclosure: Notice of Tower Sharing

c: Gary Frenette, Zoning Enforcement Officer, Town of Newtown

CUDDY & FEDER & WORBY LLP

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CUDDY & FEDER
1971-1995

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MIGUEL A. TORRELLAS (also NJ)
CHAUNCEY L. WALKER (also CA)
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Of Counsel
MICHAEL R. EDELMAN
ANDREW A. GLICKSON (also CT)
ROBERT L. OSAR (also TX)
MARYANN M. PALERMO
ROBERT C. SCHNEIDER
LOUIS R. TAFFERA

June 15, 2001

VIA FEDERAL EXPRESS

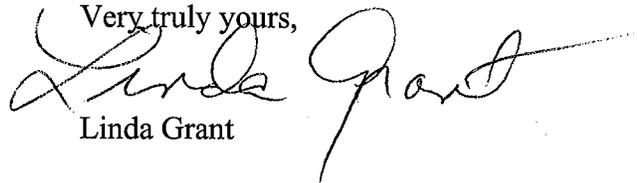
Mr. Joel Rinebold
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Tower Sharing Request by AT&T Wireless
Existing Sprint Tower Facility at
352 South Main Street, Newtown, Connecticut

Dear Mr. Rinebold:

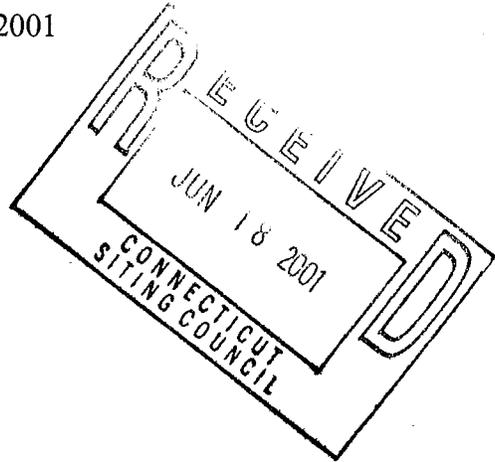
On behalf of AT&T Wireless PCS, LLC d/b/a AT&T Wireless, we respectfully enclose an original and twenty copies of its request for the shared use of an existing tower with respect to the above mentioned facility, together with a check for \$500.00, the filing fee. We would appreciate it if this matter were placed on the next available agenda by the Council to approve the application and issue an order for shared use by AT&T. Should the Council or staff have any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,


Linda Grant

Encls.

cc: Christopher B. Fisher, Esq.



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June 15, 2001

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Tower Sharing Request by AT&T Wireless
Existing Sprint Tower Facility at
352 South Main Street, Newtown, Connecticut

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50aa, AT&T Wireless PCS LLC, by and through its agent AT&T Wireless Services, Inc., ("AT&T Wireless") hereby requests an order from the Connecticut Siting Council (the "Council") to approve the proposed shared use of an existing communications tower, located at 352 South Main Street in the Town of Newtown (the "South Main Street Facility"), owned by Sprint Spectrum, LP ("Sprint"). AT&T Wireless and Sprint have agreed to share the use of the South Main Street Facility, as detailed below.

The South Main Street Facility

The South Main Street Facility consists of an approximately one hundred fifty (150) foot monopole (the "Tower") and equipment currently used for wireless communications by Sprint and VoiceStream Communications. A chain link fence surrounds the South Main Street Facility. Current surrounding land uses include commercial, and largely undeveloped parcels along Route 25.

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AT&T Wireless' Facility

As shown on the enclosed plans prepared by Goodkind & O'Dea, Inc., including a site plan and tower elevation of the South Main Street Facility, AT&T Wireless proposes shared use of the Facility to provide FCC licensed services. AT&T Wireless will install up to twelve (12) panel antennas at approximately the 123 foot level of the Tower and a 12' x 20' equipment shelter. The equipment shelter will be located within an expanded fenced compound.

Connecticut General Statutes § 16-50aa provides that, upon written request for shared use approval, an order approving such use shall be issued, "if the council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns." (C.G.S. § 16-50aa(c)(1).) Further, upon approval of such shared use, it is exclusive and no local zoning or land use approvals are required C.G.S. § 16-50x. Shared use of the South Main Street Facility satisfies the approval criteria set forth in C.G.S. § 16-50aa as follows:

- A. Technical Feasibility AT&T has confirmed that the tower is structurally capable of supporting the addition of AT&T Wireless' antennas as set forth in a letter from Goodkind & O'Dea Inc., annexed hereto as Exhibit B. The proposed shared use of this tower is therefore technically feasible.
- B. Legal Feasibility Pursuant to C.G.S. § 16-50aa, the Council has been authorized to issue an order approving shared use of the existing South Main Street Facility. (C.G.S. § 16-50aa(c)(1)). Under the authority vested in the Council by C.G.S. § 16-50aa, an order by the Council approving the shared use of a tower would permit the Applicant to obtain a building permit for the proposed installation.
- C. Environmental Feasibility The proposed shared use would have a minimal environmental effect, for the following reasons:
 - 1. The proposed installation would have a de minimis visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing facility;
 - 2. The proposed installation by AT&T Wireless would not increase the height of the tower and involves a de minimus compound extension within the leased boundaries of the South Main Street Facility;

June 15, 2001

Page 3

3. The proposed installation would not increase the noise levels at the existing facility boundaries by six decibels or more;
 4. Operation of AT&T Wireless' antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. The "worst case" exposure calculated for the operation of this facility for all carriers, would be approximately 5.98% of the standard. See Cumulative Emissions Compliance Report dated May 4, 2001, prepared by Alex Murillo, AT&T Radio Frequency Engineer, annexed hereto as Exhibit C;
 5. The proposed shared use of the South Main Street Facility would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. Further, the installation will not generate any traffic other than for periodic maintenance visits.
- D. Economic Feasibility The Applicant and the tower owner have entered into a mutual agreement to share use of the South Main Street Facility on terms agreeable to both parties. The proposed tower sharing is therefore economically feasible.
- E. Public Safety As stated above and evidenced in the Cumulative Emissions Compliance Report annexed hereto as Exhibit C, the operation of AT&T Wireless' antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the FCC and Connecticut Department of Health. Further, the addition of AT&T Wireless' telecommunications service in the Newtown area through shared use of the South Main Street Facility is expected to enhance the safety and welfare of local residents and travelers through the area resulting in an improvement to public safety in this area of Newtown.

Conclusion

As delineated above, the proposed shared use of the South Main Street Facility satisfies the criteria set forth in C.G.S. § 16-50aa, and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in the State of Connecticut. AT&T

June 15, 2001

Page 4

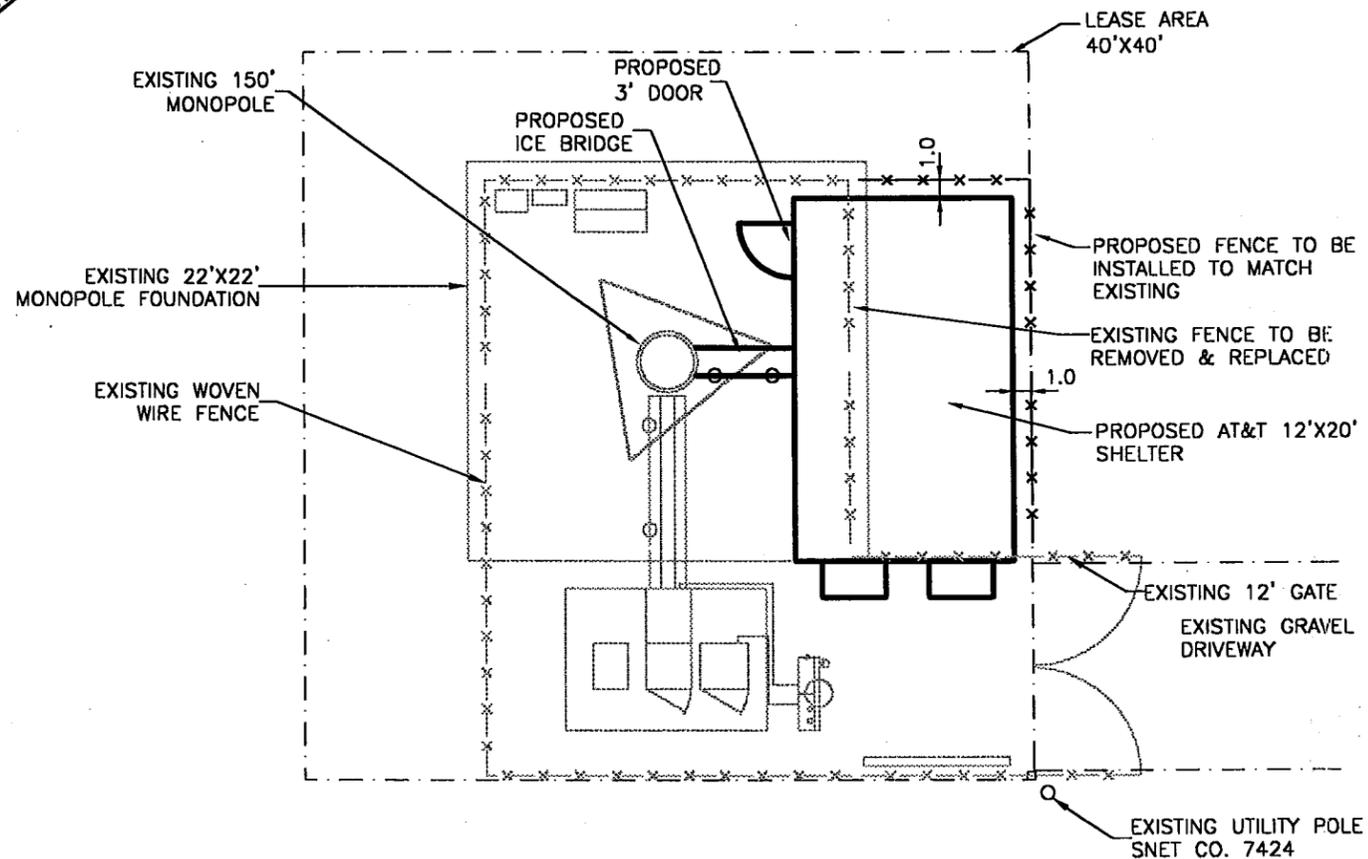
Wireless therefore requests the Siting Council issue an order approving the proposed shared use of the South Main Street Facility.

Respectfully submitted,

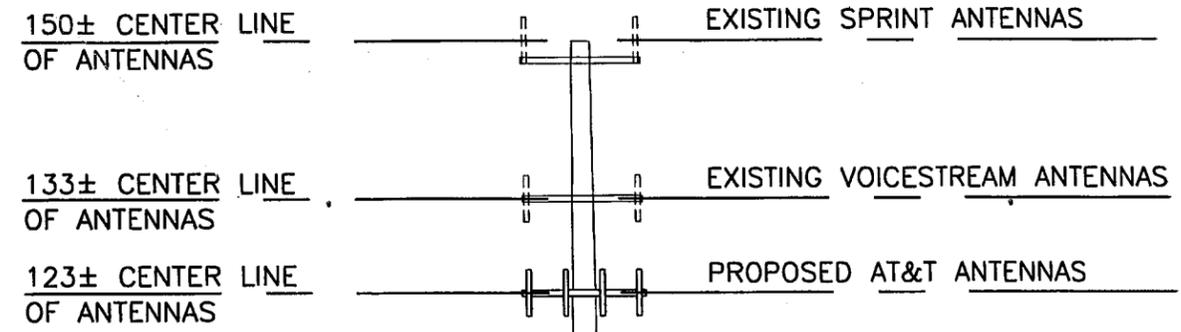
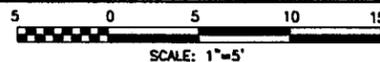


Christopher B. Fisher, Esq.
On behalf of AT&T Wireless

cc: First Selectman, Town of Newtown
Carmen Chapman, AT&T Wireless
Rich Zelazny, Pinnacle
Connie Lamberes, Bechtel

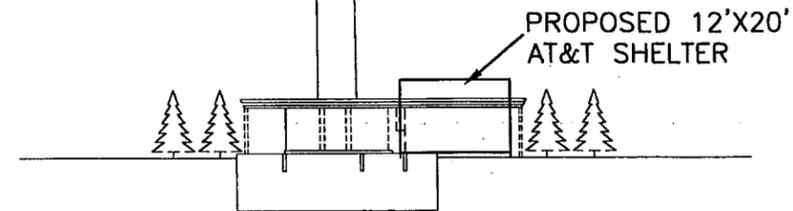


EQUIPMENT LAYOUT PLAN

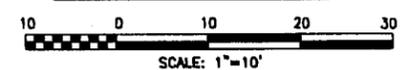


EXISTING 150' MONOPOLE

ANTENNA HEIGHTS BASED ON SPRINT TOWER LOADING FORM DATED 7/27/00.



EAST ELEVATION



Goodkind & O'Dea, Inc.
 Consulting Engineers and Planners
 59 ELM STREET, SUITE 101
 NEW HAVEN, CONNECTICUT 06510
 (203) 776-2277

NEWTOWN SOUTH
 SITE NO. CT-029
 352 SOUTH MAIN STREET
 NEWTOWN, CONNECTICUT



NO.	DATE	REVISIONS	BY	CHK	APP'D
△					
△					
△	05/26/01	FINAL SITING COUNCIL	MWF	FDK	FDK
△	05/14/01	PRELIMINARY SITING COUNCIL	MWF	FDK	FDK
SCALE AS NOTED		DESIGNED MWF	DRAWN MWF		

DRAWING TITLE:		
SITE PLAN		
JOB NO.	DRAWING NUMBER	REV
24445'	3CO-CT029-C01	0

6

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4

3

2

1

A

D

C

B

A

June 8, 2001

Mr. Donald Huntley
Bechtel Telecommunications
300 Research Parkway, Suite 101
Meriden, CT 06450

Re: *150' Rohn Steel Pole*
Site # CT-029
Newtown, CT
Structural Certification

Dear Mr. Huntley:

We are in receipt of copies of signed and sealed structural computations for a 150' tall steel pole, prepared by Rohn Industries, Inc. and signed and sealed by Thomas W. Schepke, Connecticut Professional Engineer License No. 14697, Site # CT-029, Newtown, CT. We are also in receipt of seismic calculations from Rohn Industries, Inc., signed and sealed by Habib Jirji Azouri, Connecticut Professional Engineer License No. 20757, as well as foundation drawings and computations and record structure drawings from Rohn Industries, Inc.

Computations reference conformance to EIA/TIA-222-F requirements as the basis of design of the monopole. The design is prepared for the monopole to support three (3) platforms with antennas attached at each platform, including AT&T's proposed platform and twelve (12) antennas.

It is our understanding that AT&T will be occupying the third or 123' platform location. AT&T will be the third carrier to be installed on this monopole.

Based upon the attached computations and record drawings, Goodkind & O'Dea certifies the monopole, as referenced, is designed to be structurally capable of supporting the twelve (12) AT&T panel antennas, support platform and twelve (12) 1 5/8" coaxial antenna cables at the proposed 123' mounting height on the monopole.

Mr. Donald Huntley
June 8, 2001
Page 2 of 2

Please don't hesitate to contact me if you have any questions.

Sincerely,

Goodkind & O'Dea, Inc.

Francis D. Kobylenski
Francis D. Kobylenski
Project Manager



Attachments: Stress Analysis
Steel Pole Design
Mat Foundation Design
Seismic Calculations
Rohn Structural Analysis and Certification Letter

A. Owner of the structure on which the antenna is located and the location of the antenna:

Name of owner of the structure on which the antenna is located:	
Owner of Structure:	Julian Enterprises
Address of structure:	352 South Main St
	Newtown, CT

Latitude:	41° 21' 21"
Longitude:	73°15' 49"

B. Owner of the antenna:

Name of the owner of the antenna:	AT&T Wireless Services
Address of antenna owner:	12 Omega Drive
	Stamford, CT 06907
Telephone number:	(203) 602-7029

C. Technical specifications:

FCC class (or type) of service:	PCS (IS-136)
Operating frequency of transmitter:	1965-1970MHz
Peak power output of transmitter:	8 Watts/per channel
Power into the antenna:	4 watts
Antenna manufacturer:	Allgon
Antenna model:	7184.14
Antenna type:	Panel
Gain of the antenna:	14.5 dBd
Antenna radiating pattern:	H-plane - 90° E-plane -6.5°
Polarization of radiation from antenna:	Linear, Vertical
Effective radiating power:	901.88 watts ERP at centerline (maximum)

D. Power density information:

The power density values presented in the attached studies were achieved according to FCC OET-65 using the following formula:

$$S = \frac{33.4 \times P}{R^2} \text{ (Equation 9, FCC OET-65)}$$

Where: S = Power density in $\mu\text{W}/\text{cm}^2$
P = Power (watts) ERP (effective radiated power)
R = Distance (meters)

Three measurements were taken for this structure. Besides the AT & T carrier information the measurements for Voice Stream, and Sprint PCS were also included for the purposes of this study. Given the above equation, the worse case ground scenario is located at the base of the tower.

The results of this analysis indicate that the maximum level of RF energy in areas normally accessible to the public is below all applicable health and safety limits. Specifically, the maximum level of RF energy associated with simultaneous and continuous operation of all proposed transmitters will be less than 5.98% of the safety criteria adopted by the Federal Communication Commission as mandated by the Telecommunications Act of 1996. The Telecommunications Act of 1996 is the applicable Federal law with respect to consideration of the environmental effects of RF emissions in the siting of personal wireless facilities. The maximum level of RF energy will also be less than 5.98% of the exposure limits of ANSI, IEEE, NCRP, and the limits used by all states that regulate RF exposure.

Carrier	Power Density ($\mu\text{W}/\text{cm}^2$)	Maximum Allowable ($\mu\text{W}/\text{cm}^2$)	Percentage of Maximum
AT&T	21.43	1000	2.14%
VoiceStream	16.26	1000	1.63%
Sprint PCS	22.12	1000	2.21%
Total:	59.81		5.98%

The calculations of these values are shown on the attached spreadsheets.

To the best of my knowledge, the statements made and information disclosed in this study are true, complete, and correct.

5-4-01 Alex Murillo
Date Alex Murillo, RF/Engineer

