

Ronald C. Clark
Manager Real Estate Operations

Nextel Communications
100 Corporate Place, Rocky Hill, CT 06067
860 883-2112 FAX 860 513-5444



October 21, 1999

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

RECEIVED

OCT 21 1999

**CONNECTICUT
SITING COUNCIL**

Dear Mr. Gelston:

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50-aa, Nextel Communications Inc. ("Nextel") and AT&T Wireless Services, Inc. ("AT&T") respectfully request to make shared use of an existing telecommunications tower located at Bright Meadow Boulevard in Enfield, Connecticut. This facility, which is owned by Sprint PCS, is currently used by Sprint to provide wireless system coverage to the area. Nextel and AT&T each propose to add directional antennas to the 150-foot tall monopole and install radio equipment inside pre-fabricated equipment shelters placed at the base of the tower.

Nextel and AT&T propose to share use of this facility, rather than have the need to construct additional telecommunications tower(s) in the general area.

Nextel respectfully asks that the Council find the proposed shared use of the facility satisfies the criteria stated in C.G.S. § 16-50-aa and issue an order approving the shared use of this facility.

Thank you for your consideration in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Ronald C. Clark".

Ronald C. Clark
Manager Real Estate Operations

CC: Honorable Mary Lou Strom, Mayor
Town of Enfield
Mr. Kenneth Mac Master
Sprint PCS
Mrs. Jennifer Gaudet
AT&T Wireless Services
Mrs. Sandy Carter
Bell Atlantic Mobile Communications

TOWER SHARING
BRIGHT MEADOW BOULEVARD
ENFIELD, CONNECTICUT

BACKGROUND

Nextel Communications, Inc. ("Nextel") and AT&T Wireless Services, Inc. ("AT&T") are each licensed by the Federal Communications Commission (FCC) to provide wireless communications services in the State of Connecticut, including the Town of Enfield.

Nextel and AT&T each propose to mount antennas on an existing 150-foot monopole owned and operated by Sprint PCS and place their radio equipment inside pre-fabricated equipment shelters at the base of the tower. The facility is located on Bright Meadow Boulevard in Enfield. The site is currently used by Sprint to provide wireless system coverage to the Plainville area. On July 15, 1999 the Council approved an application from Bell Atlantic Mobile Communications ("BAM") to share use of the facility (TS-BAM-049-990701) and mount its antennas at the 132-foot level of the tower. BAM has not yet installed its equipment on/at the site.

The facility is located on the East side of Interstate 84, adjacent to the Harley Hotel, on property owned by Northeast Utilities. It is located at a ground elevation of 110-feet AMSL and is situated at the geographic coordinates of: 42°-01'-15" North Latitude / 72°-35'-08" West Longitude.

NEXTEL AND AT&T INSTALLATION

Nextel and AT&T each propose to install directional antennas on the monopole. Nextel proposes to center-mount twelve (12) antennas at the 127-foot level, while AT&T proposes to center-mount nine (9) antennas at the 117-foot level. In order to achieve these mounting heights and still maintain necessary inter-carrier antenna separations, BAM will move its antennas from a centerline from 132-feet to a centerline of 137-feet (see Attachment A). Nextel plans to locate its radio equipment inside a 10-foot by 20-foot pre-fabricated equipment shelter placed at the tower base. AT&T will install its equipment in a 12-foot by 20-foot pre-fabricated structure also placed near the base of the tower (see Attachment B). The fenced area surrounding the tower will be enlarged to accommodate the new shelters, but will not require expansion of Sprint's leased parcel boundaries.

POWER DENSITY CALCULATIONS

The operation of the additional antennas will not increase the total radio frequency electromagnetic power density, measured at the base of the tower, to a level at (or even near) the State/Federal Standards. "Worst case" calculations for a point at the tower base show the combined power density level for the existing Sprint antennas, the BAM antennas at their new height and the proposed antennas totals just 14.4325% of the State/Federal Standard for exposure in an uncontrolled environment (see Attachment C).

OTHER RELEVANT INFORMATION

C.G.S. § 16-50-aa provides that, upon written request for approval of a proposed shared use, "if the Council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the Council shall issue an order approving such shared use." (C.G.S. § 16-50-aa(c)(1).)

The shared use of the tower satisfies the criteria stated in C.G.S. § 16-50-aa as follows:

- **Technical Feasibility.** The monopole, which was designed, engineered and constructed as a multi-carrier structure, is fully capable of supporting the carrier's antennas and associated tower mounted hardware (see Attachment D). The proposed-shared use of this tower is therefore technically feasible.
- **Legal Feasibility.** Under C.G.S. § 16-50-aa, the Council has been authorized to issue an order approving the proposed-shared use of an existing tower facility. (C.G.S. § 16-50-aa(c)(1). This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. C.G.S. § 16-50x(a) directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" on ruling of requests for the shared use of existing tower facilities. Under the authority vested in the Council by C.G.S. § 16-50-aa, an order by the Council approving the shared use would permit the applicant to obtain a building permit for the proposed installations.
- **Environmental Feasibility.** The proposed shared use of this telecommunications facility by Nextel and AT&T would have a minimal environmental effect for the following reasons:
 - A. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics in or around the area.
 - B. The installations would not increase the noise levels at the boundaries of the existing facility by six decibels or more.
 - C. Operations of antennas at this site would not exceed the total radio frequency electromagnetic radiation power density levels adopted by the State of Connecticut and the Federal Government. The "worst-case" exposure levels have been calculated for ground level at the tower base. The combined power density level for the existing

Sprint antennas, the BAM antennas at the new, 137-foot level and the proposed AT&T and Nextel antennas is only 14.4325% of the State/Federal Standard for exposure in an uncontrolled environment. As such, the facility would be operated in full and complete compliance with the Federal Telecommunications Act of 1996.

- D. The installations would not require any water or sanitary facilities, generate any air emissions or create discharges into any water bodies. After construction has been completed (approximately 4-5 weeks in duration), the installations would not generate any vehicular traffic other than from periodic maintenance visits by each carrier's service technicians.

The proposed shared use of the facility would therefore, have a minimal environmental effect and is indeed, environmentally feasible.

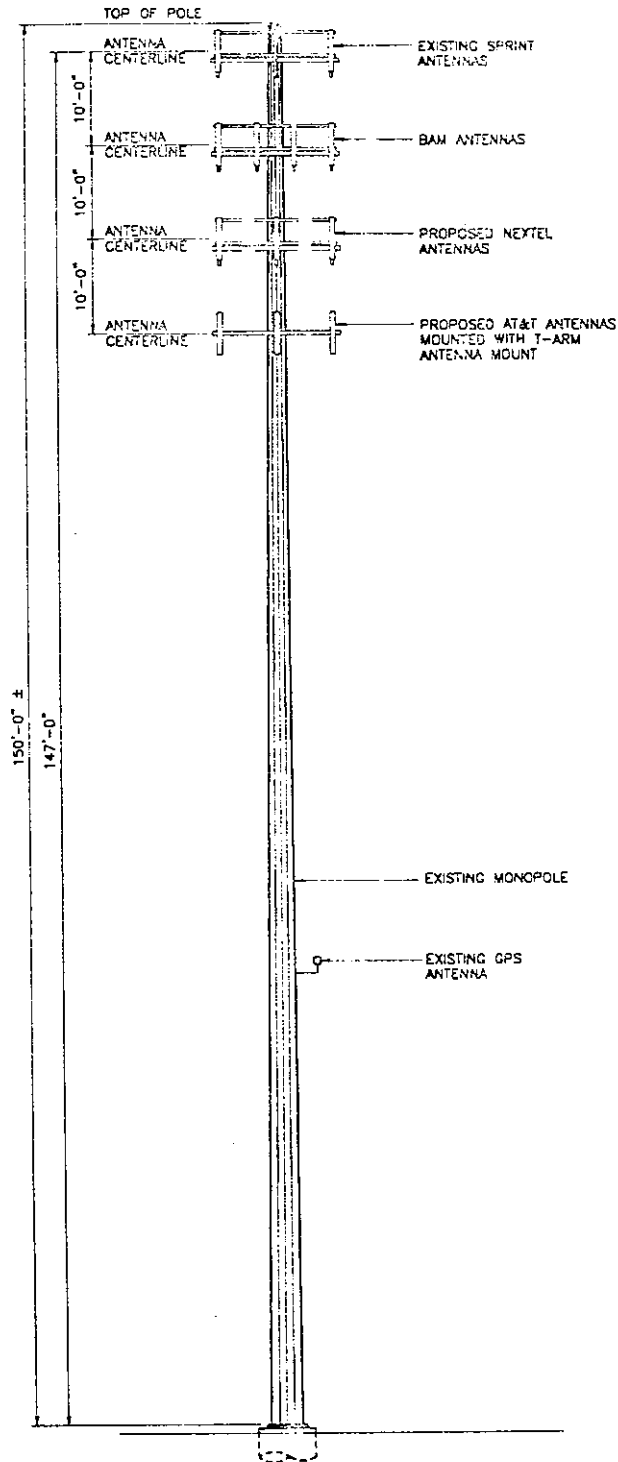
- **Economic Feasibility.** Nextel and AT&T have both entered into agreements with Sprint PCS to share use of the tower and BAM has an agreement with Sprint to install its antennas at the new, 137-foot level. As a result, shared use of the facility is economically feasible.
- **Public Safety Concerns.** As stated previously, the tower is structurally capable of supporting the proposed antennas and radio frequency emissions fall well below State and Federal Standards. Neither Nextel nor AT&T is aware of any other public safety issue(s) relative to the shared use of this facility.

In reality, the provision of additional wireless coverage can be expected to enhance the safety, security and welfare of local residents as well as those traveling through the area. The simple fact that *more than one-half million* wireless 911 calls were made in Connecticut during 1998, clearly demonstrates the positive impact that wireless communications has had on public safety in the State. The benefits of wireless system coverage are further illustrated by the decision of many law enforcement agencies here in Connecticut, and in other parts of the country, to provide mobile phones to local resident groups, civic organizations, etc., to improve, expand and enhance emergency communications capabilities. The proposed-shared use of this facility can likewise contribute to the public's safety and security in the Town of Enfield.

CONCLUSION

For the reasons discussed above, the proposed shared use of this existing tower facility satisfies the criteria stated in C.G.S. § 16-50-aa, and advances the General Assembly's and the Siting Council's goal of preventing proliferation of towers in Connecticut. Nextel and AT&T therefore respectfully request the Siting Council issue an order approving the shared use of this facility.

ATTACHMENT A



1 TOWER ELEVATION
SC-2 SCALE: N.T.S.

SITE ID NO:
CT 157

Designed by:

Drawn by: JCF

Checked by:

US Fiber Wireless Corp
A-E-C

500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

AT&T WIRELESS PCS LLC
UNMANNED WIRELESS COMMUNICATION EQUIPMENT SITE

SITE ADDRESS: **NORTH THOMPSONVILLE**
BRIGHT MEADOW BOULEVARD
ENFIELD, CONNECTICUT

REV.	DATE:	DESCRIPTION

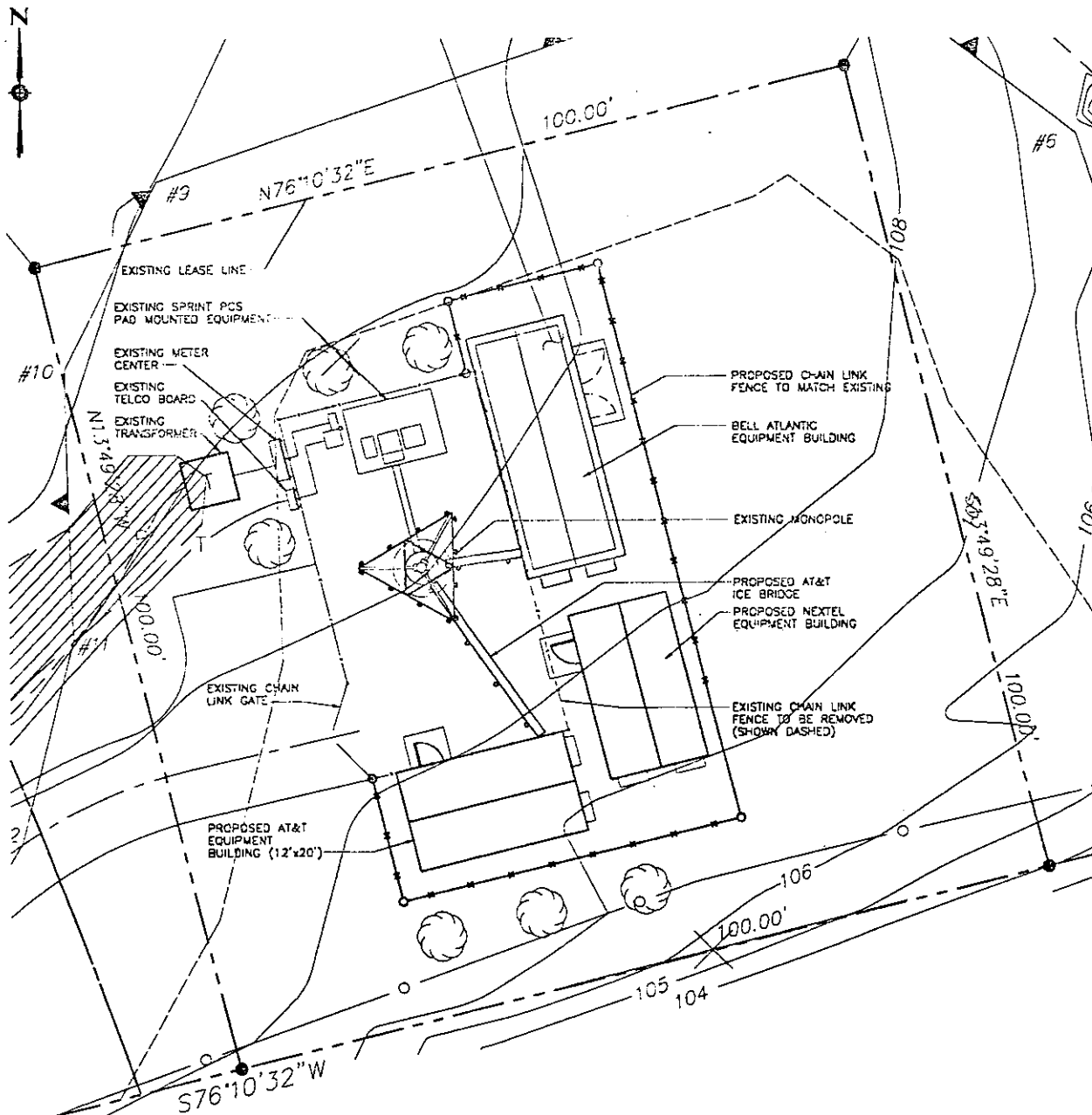
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Job No. F301284.80 File No. SC-2

Dwg. No.

SC-2

Dwg. 2 of 2



1 SITE PLAN
SC-1 SCALE: 1" = 20'-0"



SITE ID NO:
CT 157

Designed by:

Drawn by: JCF

Checked by:

Greiner Woodward Clyde
A-E-S

500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

AT&T WIRELESS PCS LLC
UNMANNED WIRELESS COMMUNICATION EQUIPMENT SITE

SITE ADDRESS: **NORTH THOMPSONVILLE**
BRIGHT MEADOW BOULEVARD
ENFIELD, CONNECTICUT

REV.	DATE:	DESCRIPTION

Scale: AS NOTED Date: 10-19-99

Job No. F301284.80 File No. SC-1

Dwg. No.

SC-1

Dwg. ' of 2

URS Greiner Woodward Clyde
A Division of URS Corporation

October 21, 1999

500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
Tel: 860.529.3882
Fax: 860.529.3991
Offices Worldwide

Mortimer A. Gelston
Chairman
Connecticut State Siting Council
New Britain, CT 06051

Reference: Proposed Telecommunications Facility
AT&T Site No. CT-157
Sprint PCS Site
Bright Meadow Boulevard
Enfield, Connecticut
F300001824.80

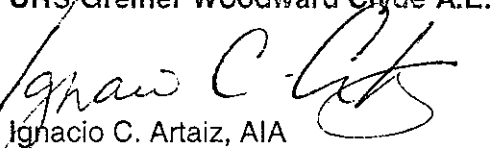
Dear Mr. Gelston:

URS Greiner Woodward Clyde (URSGWC) has prepared a Structural Analysis for the Sprint PCS monopole located on Bright Meadow Boulevard in Enfield, Connecticut. The Structural Analysis concluded that the existing monopole will support the additional loads of both Nextel and AT&T Wireless PCS antennas. This tower analysis was performed to the requirements of EIA/TIA-222-F.

Please call if there are any questions.

Sincerely,

URS Greiner Woodward Clyde A.E.S.


Ignacio C. Artaiz, AIA
Telecommunications Group Manager

ICA/mks
Enclosures

cc: Carmen Chapman, AT&T
Ron Clark, Nextel
Christopher Fisher, Cuddy & Feder & Worby
Jennifer Young Gaudet, Pinnacle
D. Roberts, URSGWC
A. Abadjian, URSGWC