



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

January 12, 2001

Stephen M. Howard
Manager Real Estate and Zoning
Nextel Communications, Inc.
100 Corporate Place
Rocky Hill, CT 06067

RE: **TS-NEXTEL-007-001215** - Nextel Communications, Inc. notice of intent to modify an existing telecommunications facility located at 1684 Chamberlain Highway, Berlin, Connecticut.

Dear Mr. Howard:

At a public meeting held January 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 December 15, 2000.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Thomas J. Veronesi, Mayor, Town of Berlin
Brian J. Miller, Town Planner, Town of Berlin
Julie M. Cashin, Esq., Hurwitz & Sagarin, LLC

Sprint 1684 Chamberlain Hgwy Berlin 01/05/01



EM-NEXTEL-007-001215

NEXTEL FAX COVER LETTER

RECEIVED

From:
Stephen M. Howard
Phone 860 513-5458
Fax 860 513 5444

JAN 03 2001
CONNECTICUT
SITING COUNCIL

100 Corporate Place
Rocky Hill, CT 06067

TO: Robert Erling

COMPANY: Connecticut Siting Council

FAX. NUMBER: (860) 827-2950

DATE: Tuesday, January 02, 2001

Pages including cover sheet: __2__

MESSAGE:

Revised Power Density calculations



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

January 2, 2001

Honorable Thomas J. Veronesi
Mayor
Town of Berlin
240 Kensington Road
Kensington, CT 06037

RE: **EM-NEXTEL-007-001215** - Nextel Communications, Inc. notice of intent to modify an existing telecommunications facility located at 1684 Chamberlin Highway, Berlin, Connecticut.

Dear Ms. Veronesi:

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 11, 2001, at 10:00 a.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,

A handwritten signature in black ink, appearing to read "Joel M. Rinebold".

Joel M. Rinebold
Executive Director

JMR/rgg

Enclosure: Notice of Intent

Nextel Communications

100 Corporate Place, Rocky Hill, CT 06067
860 513-5400 FAX 860 513-5444

NEXTEL[®]

December 15, 2000

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

Dear Chairman Gelston:


Pursuant to Connecticut General Statutes ("C.G.S.") §16-50aa, Nextel Communications, Inc., ("Nextel") respectfully requests Siting Council approval to install antennas on a recently approved telecommunications tower located at 1684 Chamberlin Highway in Berlin, Connecticut and place a pre-fabricated equipment cabinet at the tower base. The tower facility will be owned by Sprint PCS.

Nextel seeks to share use of this existing facility to provide wireless system coverage to this portion of Berlin and along State Routes 71, 71A and 364 rather than have the need to possibly construct another telecommunications tower in the general area.

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

Thank you for your consideration.

Sincerely,



Stephen M. Howard
Manager Real Estate and Zoning

Enclosure

C: Thomas J. Veronesi, Mayor

**TOWER SHARING
1684 CHAMBERLIN HIGHWAY
BERLIN, CONNECTICUT**

BACKGROUND

Nextel Communications, Inc. (“Nextel”) is licensed by the Federal Communications Commission (FCC) to provide wireless communication services in the State of Connecticut, including the Town of Berlin.

Nextel proposes to install antennas on a recently approved 125-foot monopole telecommunications tower and place a pre-fabricated equipment shelter at the tower base. The facility was recently approved by the Town of Berlin and will be owned by the Sprint PCS (Sprint). The shared use of this facility would allow Nextel to provide wireless system coverage to the area in and around the Town of Berlin without having the need to construct an additional tower in the area.

NEXTEL INSTALLATION

Nextel proposes to install twelve (12), 4-foot long, panel antennas at the 113-foot level (centerline) of the 125-foot AGL monopole tower (see Attachment A). A 10-foot by 20-foot equipment shelter will be placed at the base of the tower (see Attachment A) completely within the planned fenced compound.

POWER DENSITY INFORMATION

Based upon information from Sprint, the “worst case” power density level from their proposed antennas has been calculated to be 0.1845 mW/cm² or approximately 18.45% of the State/Federal Standard. The addition of Nextel’s antennas will, using “worst case” calculations, add 0.0253 mW/cm², or 4.47% of the standard applicable to Nextel’s frequencies (0.5673 mW/cm²) and bring the total combined power density level to approximately 22.92% of the State/Federal Standard.

OTHER RELEVANT INFORMATION

Connecticut General Statutes (C.G.S.) §16-50aa 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. §16-50aa(c)(1).)

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

- **Technical Feasibility.** The recently approved tower facility has been designed to permit colocations. Additionally, the installation of Nextel's antennas will not cause interference with Sprint's or any other signal.
- **Legal Feasibility.** Under C.G.S. §16-50aa, the Siting Council has been authorized to issue an order approving the proposed-shared use of an existing tower facility. (C.G.S. §16-50aa(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. §16-50aa, an order by the Council approving the shared use would permit the Nextel to obtain a building permit for the proposed installation.
- **Environmental Feasibility.** The shared use of this facility as proposed, would have a minimal environmental effect for the following reasons:
 1. The installation 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.
 2. The installation would not increase the noise levels at the existing facility by six decibels or more.
 3. The addition of Nextel's antennas would not exceed the total radio frequency electromagnetic radiation power density level standard adopted by the State of Connecticut and the FCC. As discussed above, the combined power density levels for all current planned users is well below the State/Federal Standard and as such, the facility will operate in full compliance with the Telecommunications Act of 1996.
 4. The Nextel installation would not require any water or sanitary facilities, nor would it generate air emissions or discharges to water bodies. After construction is completed (approximately four weeks from start-to-finish), the installation of Nextel's equipment would not generate any traffic, other than from periodic maintenance visits by a Nextel service technician.

The proposed use of the facility would have a minimal environment effect; therefore, the proposed tower sharing is environmentally feasible.

- **Economic Feasibility.** Nextel has entered into an agreement with Sprint to share use of the facility on mutually agreed upon terms. The proposed tower sharing is therefore economically feasible.
- **Public Safety Concerns.** As stated previously, the tower has been designed to be structurally capable of supporting Nextel's antennas and the total combined radio

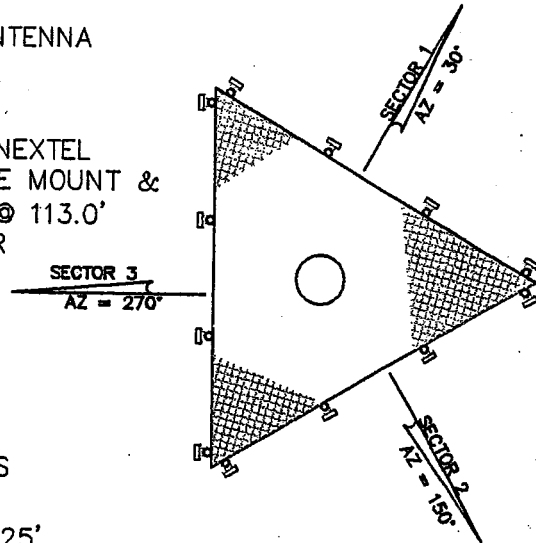
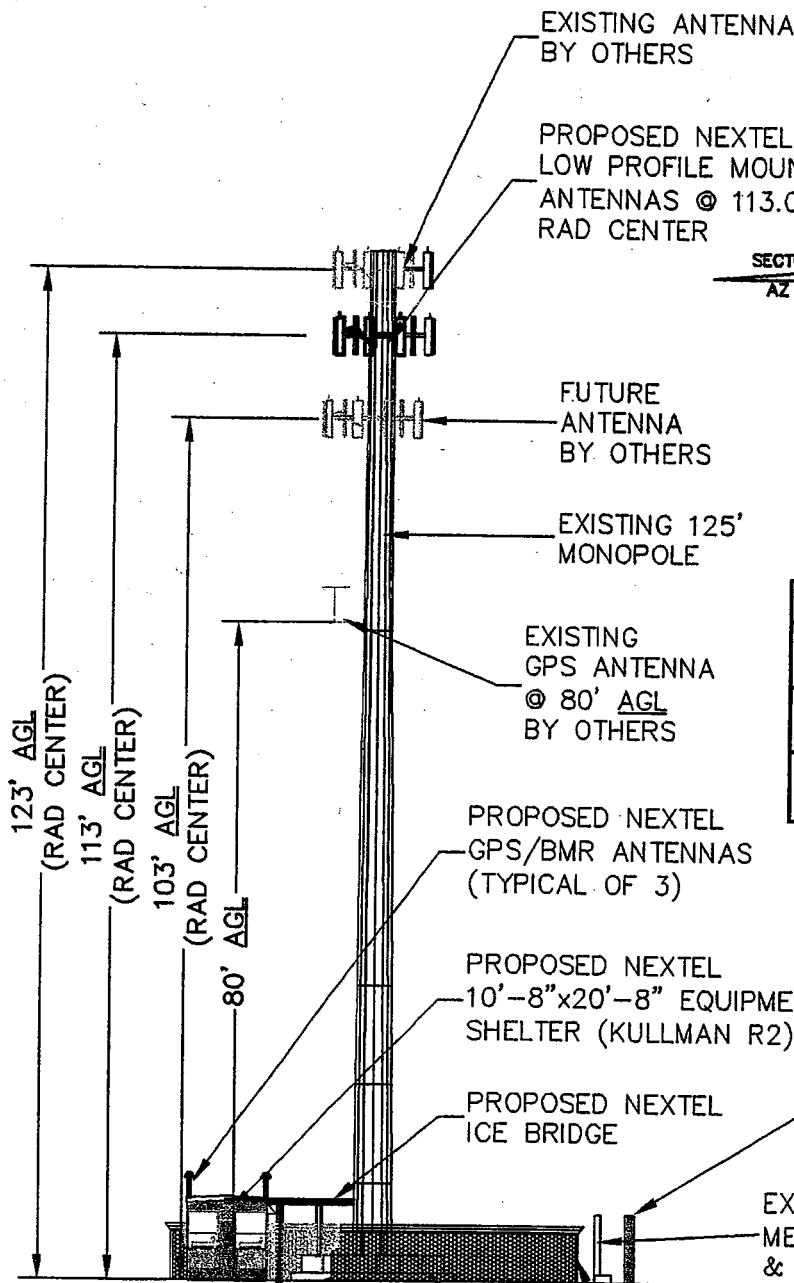
frequency emissions fall below the maximum State/Federal Standards. Nextel is not aware of any other public safety issue(s) relative to the proposed-shared use of this facility.

In fact, the provision of additional wireless system coverage can be expected to enhance the safety, security, and welfare of local residents as well as for those traveling through the area. The simple fact that *more than one-half million* wireless 911 calls are made in Connecticut every year, attests to the positive impact wireless communications have had on public safety. The safety related benefits of wireless service are further illustrated by the policy of numerous local law enforcement authorities here in Connecticut, and in other parts of the country, to provide mobile phones to resident groups, civic organizations, etc., in an effort to improve public safety by enhancing/expanding emergency communications and incident reporting capabilities. The proposed-shared use of this facility would likewise contribute to the public's safety and security in this section of Berlin.

CONCLUSION

For the reasons discussed, the proposed shared use of this existing telecommunications facility satisfies the criteria stated in C.G.S. §16-50aa, and advances the Connecticut General Assembly's and the Siting Council's objective of minimizing the proliferation of communications towers in the State. Nextel therefore, respectfully requests the Siting Council to issue an order approving the shared use of this facility.

ATTACHMENT A



PLAN - ANTENNA ORIENTATION

AZIMUTH	NUMBER OF/TYPE
30°	(4) DB844H90(E)-XY OR EQUIVALENT
150°	(4) DB844H90(E)-XY OR EQUIVALENT
270°	(4) DB844H90(E)-XY OR EQUIVALENT

ANTENNA DETAILS
SCALE: NTS

EXISTING BOLLARDS (4' O.C. TYP. OF 11)

EXISTING TELCO BOARD, METER BOARD (BEYOND) & TRANSFORMER ON PAD

EXISTING 50'x50' 6'HIGH CHAIN LINK FENCE W/BARBED WIRE

EXISTING EQUIPMENT PAD & EQUIPMENT BY OTHERS

NOTE:

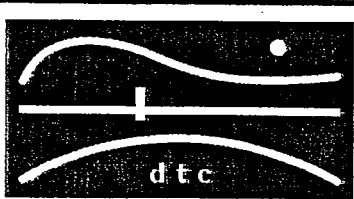
1. AGL = ABOVE GROUND LEVEL
2. EXISTING & FUTURE BY OTHERS. PROPOSED BY NEXTEL.

EASTERN ELEVATION

SCALE: NTS

FINAL
12/12/00

REV. 12-6-00



DIVERSIFIED TECHNOLOGY CONSULTANTS
554 WASHINGTON AVENUE NORTH HAVEN CT 06473
203 239 4200 203 234 7378 FAX



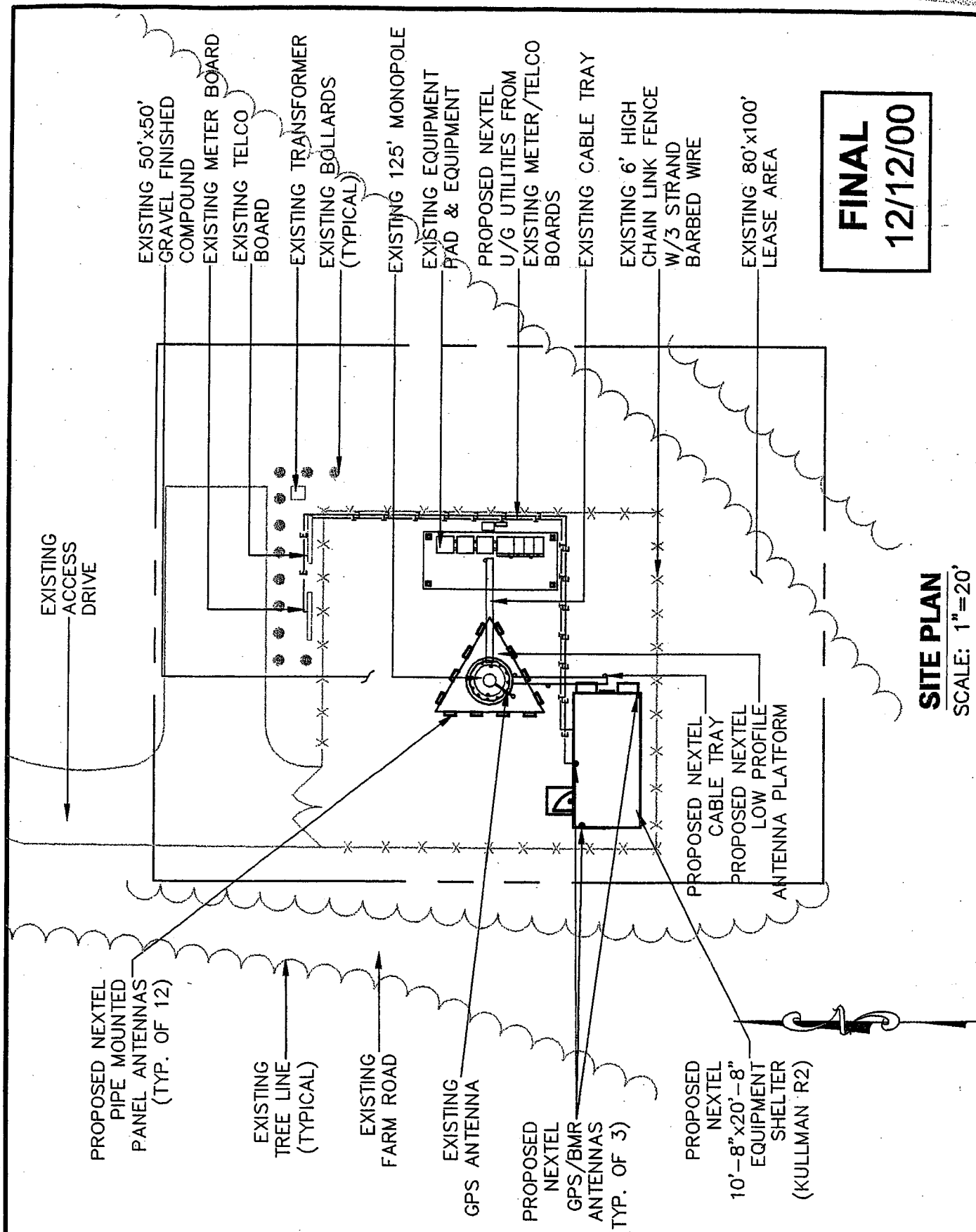
NEXTEL COMMUNICATIONS SITE #CT-2519
LEASE EXHIBIT
BERLIN
ROUTE 71 & ORCHARD ROAD
BERLIN, CT

DWG. FILE: LE.DWG
DRAWN: PSW
SCALE: N.T.S.

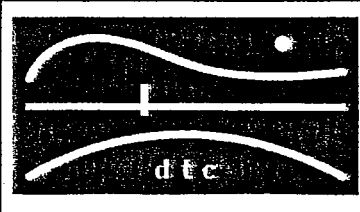
DTC No.: 99-403-350
DATE: 11/01/00
SHEET 1 OF 2

FINAL
12/12/00

SITE PLAN
SCALE: 1"=20'



REV. 12-6-00



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Rochester, NY 14607
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LEASE EXHIBIT
BERLIN
ROUTE 71 & ORCHARD ROAD
BERLIN, CT

DWG. FILE: LE.DWG
DRAWN: PSW
SCALE: N.T.S.

DTC No.: 99-403-350
DATE: 11/01/00
SHEET 2 OF 2

Nextel Communications
100 Corporate Place, Rocky Hill, CT 06067
860 513-5400 FAX 860 513-5444

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RECEIVED

DEC 15 2000

**CONNECTICUT
SITING COUNCIL**

December 14, 2000

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

RE: Modification of a Recently Approved Telecommunications Facility located at 1684 Chamberlin Highway, Berlin CT

Dear Chairman Gelston:

Please find enclosed an original and twenty copies of a request from Nextel Communications Inc. ("Nextel") to modify an exempt tower and associated equipment at recently approved telecommunications facility located at 1684 Chamberlin Highway in Berlin, Connecticut. This facility will be owned and operated by Sprint PCS (Sprint).

Nextel desires to make shared use of this facility to provide wireless system coverage to this portion of Berlin and along State Routes 71, 71A and 364, rather than possibly needing to construct a new communications tower in the general area.

The enclosed notice and attached materials detail how the addition of the proposed antennas and associated equipment at the tower site meet all of the criteria set forth in Section 16-50j-72(b)(2) of the Regulations of Connecticut State Agencies and therefore is an exempt modification pursuant to Section 16-50j-73 of the regulation.

Please call Stephen M. Howard at (860) 513-5458 if you have any questions about the Nextel proposal. Thank you for your consideration in this matter.

Respectfully submitted,



Stephen M. Howard
Manager Real Estate and Zoning
Nextel Communications, Inc.

Enclosure

cc: Thomas J. Veronesi, Mayor

Sprint Tower
1684 Chamberlin Highway
Berlin, Connecticut

Pursuant to Section 16-50i(a)(5) of the Connecticut General Statutes and Section 16-50j-72(b)(2), as amended, of the Regulations of Connecticut State Agencies, Nextel Communications Inc., (“Nextel”) hereby notifies the Connecticut Siting Council of its intent to modify a recently approved telecommunications facility located at 1684 Chamberlin Highway, Berlin, Connecticut. The facility is owned by Sprint PCS (“Sprint”).

BACKGROUND

The recently approved Sprint facility consists of a 125-foot AGL monopole tower and 2500 square foot fenced compound. Nextel has entered into a lease agreement with Sprint to collocate on the tower.

DISCUSSION

Nextel plans to install twelve (12) panel antennas on the facility with the centerline of the antennas at the 113-foot level (centerline) of the 125-foot tower (see Attachment A). This recently approved facility has been specifically designed and will be constructed to accommodate additional wireless carriers.

Nextel will install its associated radio equipment in a 10-foot by 20-foot equipment shelter. This shelter will be placed at the base of the facility, completely within the existing leased area (see Attachment A).

The air conditioning units on the shelter will not increase noise levels at the existing facility by six decibels or more.

POWER DENSITY INFORMATION

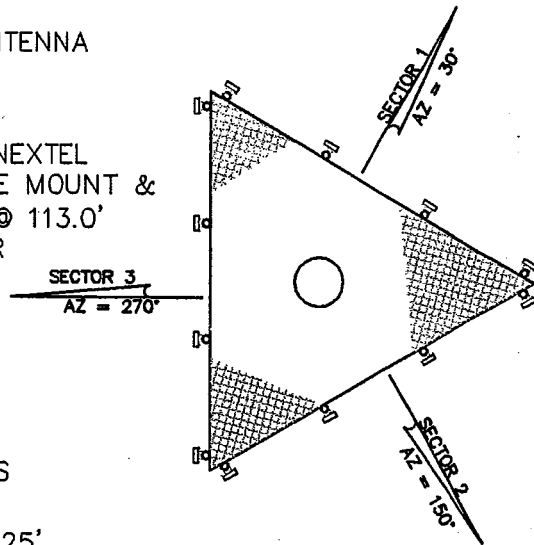
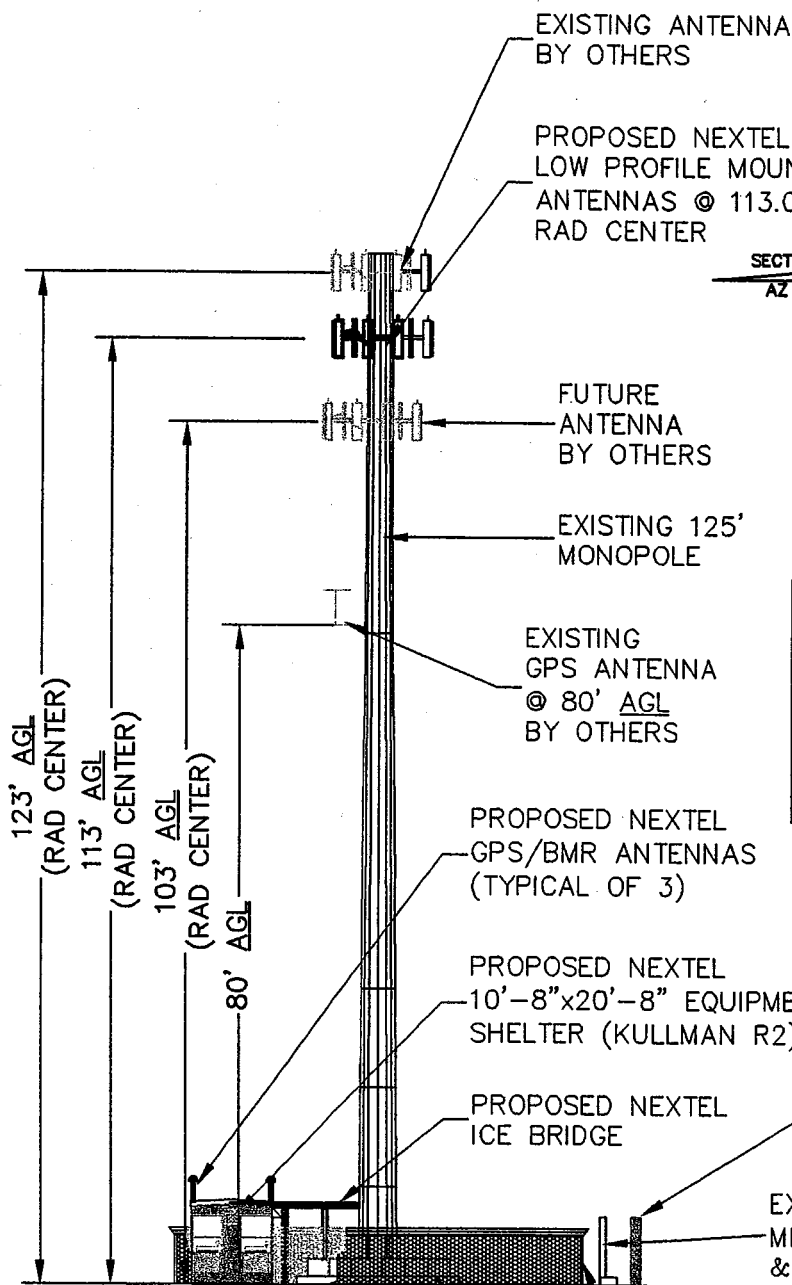
Based upon information from Sprint, the “worst case” power density level from their proposed antennas has been calculated to be 0.1845 mW/cm² or approximately 18.45% of the State/Federal Standard. The addition of Nextel’s antennas will, using “worst case” calculations, add 0.0253 mW/cm², or 4.47% of the standard applicable to Nextel’s frequencies (0.5673 mW/cm²) and bring the total combined power density level to approximately 22.92% of the State/Federal Standard.

CONCLUSION

The proposed additions do not constitute a “modification” of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and are consistent with the exception criteria found in Section 16-50j-72(b)(2) of the Regulations of Connecticut State Agencies in that the addition of Nextel’s antennas and equipment will not increase the existing tower height or extend the boundaries of the site; will not increase noise levels by six (6) decibels or more at the site’s boundaries; and will not increase the total radio frequency electromagnetic radiation above the standard set forth in Section 22(a)–162 of the Connecticut General Statutes. In summary, this proposed addition will not have a substantial adverse environmental effect.

For the reasons discussed above, Nextel respectfully requests that the Council acknowledge that this Notice of Modification meets the Council’s exemption criteria, and permit Nextel to share use of this facility.

ATTACHMENT A



PLAN - ANTENNA ORIENTATION

AZIMUTH	NUMBER OF/TYPE
30°	(4) DB844H90(E)-XY OR EQUIVALENT
150°	(4) DB844H90(E)-XY OR EQUIVALENT
270°	(4) DB844H90(E)-XY OR EQUIVALENT

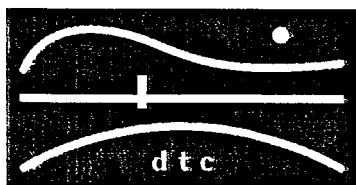
ANTENNA DETAILS
SCALE: NTS

- NOTE:
1. AGL = ABOVE GROUND LEVEL
 2. EXISTING & FUTURE BY OTHERS. PROPOSED BY NEXTEL.

EASTERN ELEVATION
SCALE: NTS

FINAL
12/12/00

REV. 12-6-00



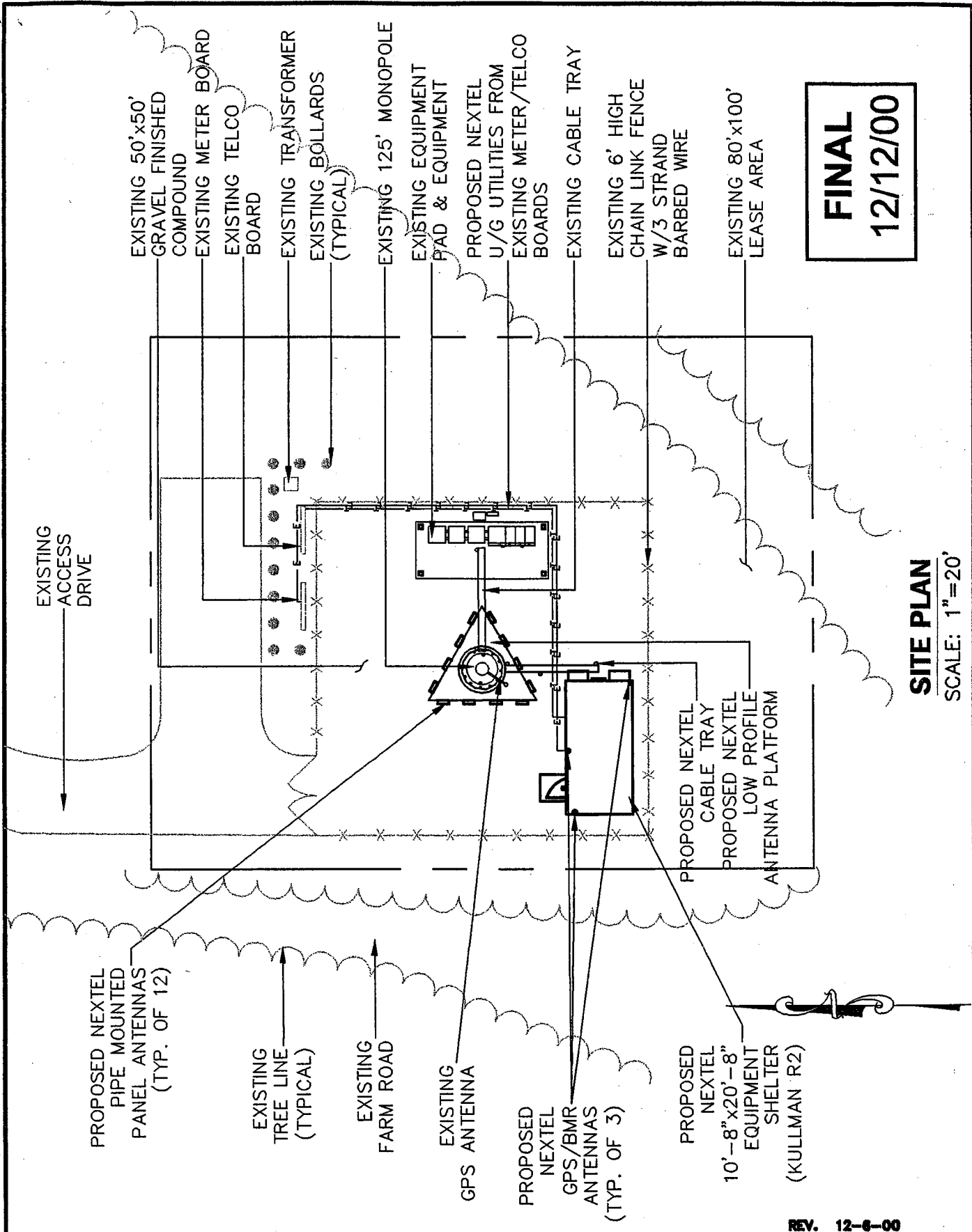
DIVERSIFIED TECHNOLOGY CONSULTANTS
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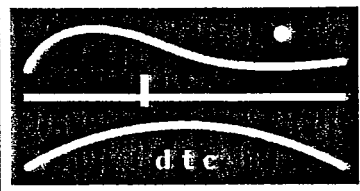
DTC No.: 99-403-350
DATE: 11/01/00
SHEET 1 OF 2



FINAL
12/12/00

SITE PLAN
SCALE: 1"=20'

REV. 12-6-00



DIVERSIFIED TECHNOLOGY CONSULTANTS
550 WASHINGTON AVENUE NORTH HAVEN CT 06473
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100 Corporate Place
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NEXTEL COMMUNICATIONS SITE #CT-2519
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DWG. FILE: LE.DWG
DRAWN: PSW
SCALE: N.T.S.

DTC No.: 99-403-350
DATE: 11/01/00
SHEET 2 OF 2