

ORIGINAL



CONNECTICUT SITING COUNCIL

EM-SPRINT-NEXTEL-057-071115

In re:

CONNECTICUT
SITING COUNCIL

Sprint Nextel Corporation's Notice to Make an Exempt Modification to an Existing Facility at 5 Perryridge Road in Greenwich, Connecticut. : EXEMPT MODIFICATION NO. _____
: November 15, 2007

NOTICE OF EXEMPT MODIFICATION

Pursuant to Conn. Agencies Regs. §§ 16-50j-73 and 16-50j-72(b), Sprint Nextel Corporation ("Sprint") hereby gives notice to the Connecticut Siting Council ("Council") and the Town of Greenwich of Sprint's intent to make an exempt modification to an existing monopole (the "Tower") located at 5 Perryridge Road in Greenwich, Connecticut. Specifically, Sprint plans to add three WiMAX antennas to its current antenna array. Under the Council's regulations (Conn. Agencies Regs. § 16-50j-72(b)), Sprint's plans do not constitute a modification subject to the Council's review because Sprint will not change the height of the Tower, will not extend the boundaries of the compound, will not increase the noise levels at the site, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

Sprint is currently undertaking an upgrade to its wireless communications system in Connecticut. As part of the upgrade, Sprint is implementing WiMAX technology to enable enhanced wireless data communications. In order to accomplish the upgrade at this site, Sprint plans to add three WiMAX antennas to the existing antenna configuration and install additional WiMAX-related electronic equipment at the base of the Tower.

The Tower is a 170.5-foot monopole located at 5 Perryridge Road in Greenwich, Connecticut (latitude 41° 02' 03.15", longitude 73° 37' 51.02"). The Tower is owned by Greenwich Hospital. There are multiple carriers located on the Tower. Currently, Sprint has six antennas spread over three sectors with an antenna centerline at 154 feet. Sprint's equipment cabinets are located adjacent to the base of the Tower. A site plan with the Tower specifications is attached.

Sprint plans to install three KMW AM-X-WM-17-65-00T (WiMAX) antennas on the three existing empty pipe mounts (one per sector) with the same antenna centerline (154 feet) as the existing antennas. To confirm that the Tower can support this change, Sprint commissioned Clough Harbour & Associates, LLP to perform a structural analysis of the Tower (attached). According to the structural analysis dated November 6, 2007, "the existing structure is capable of supporting the proposed loads." Sprint will also install two WiMAX radio cabinet and one WiMAX power cabinet inside the existing equipment shelter. Therefore, there will be no increase in size of the compound. In addition, Sprint plans to mount a global positioning system (GPS) antenna to the existing cable bridge. Excluding brief, minor, construction-related noise during the addition of the antennas and the installation of the two equipment cabinets, Sprint's changes to the Tower will not increase noise levels at the site.

The addition of the new WiMAX antennas to Sprint's existing antenna array will not adversely impact the health and safety of the surrounding community or the people working on the Tower. The total radio frequency exposure measured around the Tower will be well below the National Council on Radiation Protection and Measurements' ("NCRP") standard adopted by the Federal Communications Commission ("FCC"). The worst-case power density analysis for the WiMAX antennas, measured at the base of the Tower, indicates that the WiMAX antennas

will emit 1.90% of the NCRP's standard for maximum permissible exposure. A cumulative power density analysis indicates that together, all of the antennas on the Tower will emit only 46.90% of the NCRP's standard for maximum permissible exposure. Therefore, the power density levels will be well below the FCC mandated radio frequency exposure limits in all locations around the Tower, even with extremely conservative assumptions. The power density analysis is attached.

In conclusion, Sprint's proposed plan to add three WiMAX antennas and associated equipment at the site does not constitute a modification subject to the Council's jurisdiction because Sprint will not increase the height of the Tower, will not extend the boundaries of the site, will not increase the noise levels at the site, and the total radio frequency electromagnetic radiation power density will stay within all applicable standards. *See Conn. Agencies Regs. § 16-50j-72.*

Sprint Nextel Corporation

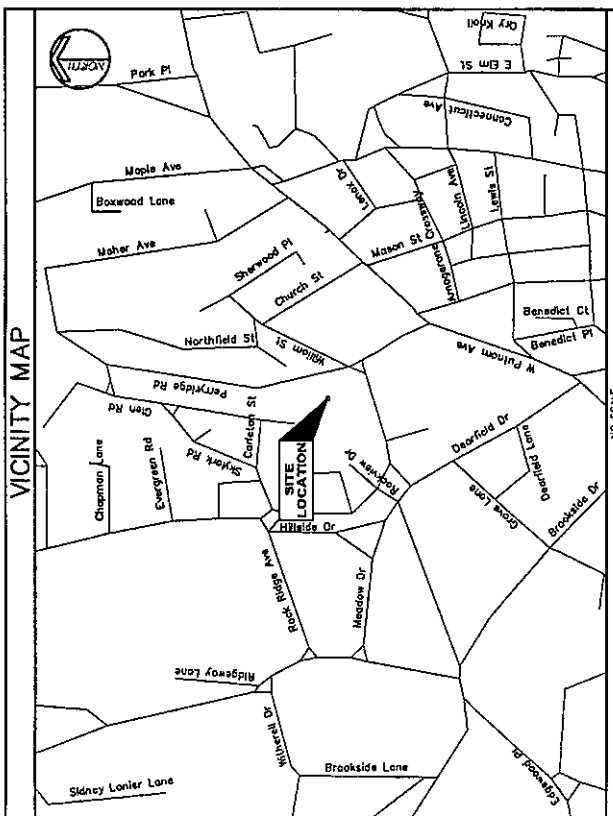
By: 
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GREENWICH HOSPITAL CT01YC387 / CT43XC855 5 PERRYRIDGE ROAD GREENWICH, CT 06830

NOT FOR CONSTRUCTION



DRIVING DIRECTIONS

FROM 100 CORPORATE PLACE, ROCKY HILL, CT.:
TAKE ROUTE 155 TO EXIT 28. AT THE END OF EXIT TAKE A LEFT. GO ALL THE WAY TO THE END OF THE ROAD AND TAKE A RIGHT ONTO LAKE AVE. YOU WILL COME TO A TRAFFIC CIRCLE. PROCEED INTO TRAFFIC TO MAKE A LEFT. LOOK FOR 49 LAKE AVENUE ON YOUR LEFT. TAKE A LEFT INTO DRIVEWAY AND FOLLOW THE PARKING GARAGE. WHICH WILL BE TO THE RIGHT. PULL INTO THE BACK OF THE GARAGE. THE SITE WILL BE ON THE LEFT SIDE OF GARAGE TOWARDS THE BACK BEHIND THE FENCED IN AREA. THE DMARK WILL BE IN THE HOFFMAN BOX RIGHT IN FRONT OF YOU WHEN WALK IN.

PROJECT INDEX

SITE NUMBER:	CT01YC387 / CT43XC855
SITE NAME:	GREENWICH HOSPITAL
SITE ADDRESS:	5 PERRYRIDGE ROAD GREENWICH, CT 06830
APPLICANT:	SPRINT NEXTEL CORP. 1 INTERNATIONAL BLVD., SUITE 800 MAHWAH, NJ 07495
APPLICANT REPRESENTATIVE:	TRANSCEND WIRELESS, LLC 479 ROUTE 17 NORTH, 2ND FLOOR MAHWAH, NJ 07430
CONTACT:	JASON DEIBERT (347) 284-8617
PROPERTY OWNER:	GREENWICH HOSPITAL 5 PERRYRIDGE ROAD GREENWICH, CT 06830
JURISDICTION:	CONNECTICUT SITING COUNCIL
TAX MAP/BLOCK/LOT:	UNKNOWN
ZONING DISTRICT:	UNKNOWN
COORDINATES:	41° 02' 03.15"N (41.0342 N) 73° 37' 51.02"W (73.6308 W)
LONGITUDE:	

SHEET INDEX

SHEET NO:	SHEET TITLE	REVISION HISTORY
		NO: DATE
T01	TITLE SHEET	A 10 / 30 / 07
SC01	SITE PLAN	A 10 / 30 / 07
SC02	TOWER ELEVATION	A 10 / 30 / 07

APPLICANT:

SPRINT NEXTEL
CORP.

1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07495

TRANSCEND WIRELESS, LLC
479 ROUTE 17 NORTH,
2ND FLOOR
MAHWAH, NJ 07430

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CLOUGH HARBOUR & ASSOCIATES LLP
111 Western Cause, PO Box 5393 Albany, NY 12208-0393
New York, NY 12208-0393

CHA PROJECT NO.
17181 - 3013 - 1801

NO.	SUBMITTAL
10/30/07	ISSUED FOR REVIEW
BY: PAL	CHK: RJT
APP'D: JPS	

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE
ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, TO ALTER THIS DOCUMENT

SITE ID:
CT01YC387-CT43XC855
SITE NAME:
GREENWICH HOSPITAL
SITE ADDRESS:
5 PERRYRIDGE ROAD
GREENWICH, CT
06830
FAIRFIELD COUNTY

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T01



INTERNATIONAL BLVD., SUITE 800
MAHWAH, NJ 07495

TRANSCEND WIRELESS, LLC
479 ROUTE 17 NORTH,
2ND FLOOR
MAHWAH, NJ 07430

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 111 Winners Circle, PO Box 5269 • Albany, NY 12205-0269
 Mobile: (518) 453-4500 • www.cloughharbour.com

CHA PROJECT NO.
17181 - 3013 - 1801

NO.	SUBMITTAL			
	10/30/07	ISSUED FOR REVIEW		
A	BY: PAL	CHK: RJT	APP'D: JPS	

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SITE ID:
CT01YC387--CT43XC855

SITE NAME:

GREENWICH HOSPITAL

SITE ADDRESS:

5 PERRYRIDGE ROAD
GREENWICH, CT

06830

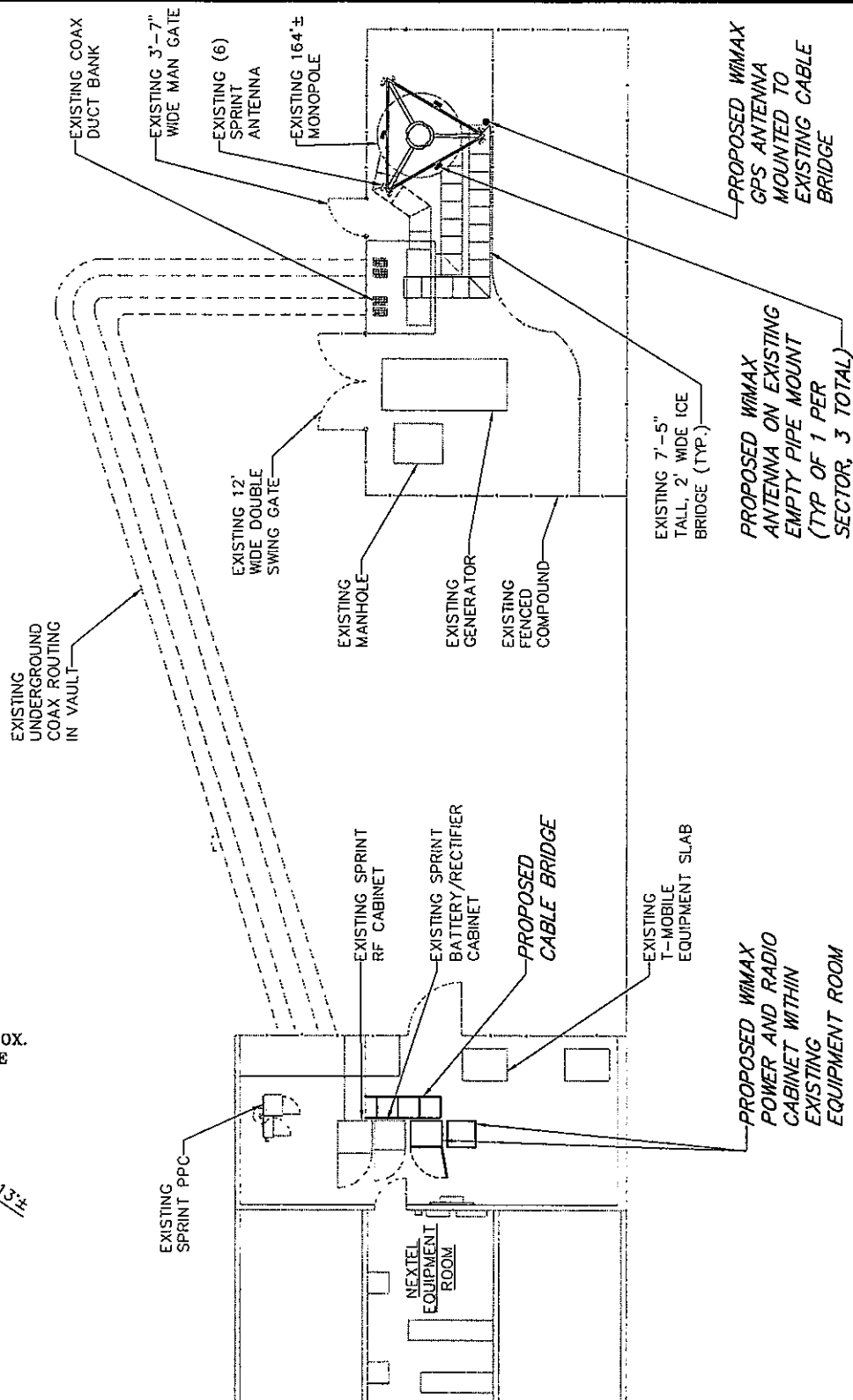
FAIRFIELD COUNTY

SHEET TITLE

SITE PLAN

SHEET NUMBER

SC01



ANTENNA AZIMUTHS:

SECTOR (1) = 30°

SECTOR (2) = 140°

SECTOR (3) = 290°.

PARTIAL SITE PLAN

GRAPHIC SCALE



NOT FOR CONSTRUCTION

APPLICANT:



1 INTERNATIONAL BLVD, SUITE 800
MAHWAH, NJ 07435

TRANSCEND WIRELESS, LLC
479 ROUTE 17 NORTH,
2ND FLOOR
MAHWAH, NJ 07430

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CLOUGH HARBOUR & ASSOCIATES LLP
111 West 34th St., 10th Floor, New York, NY 10018-3008
New York City, NY 10018-3008

CHA PROJECT NO.
17181 - 3013 - 1801

SUBMITTAL

NO.	10/30/07	ISSUED FOR REVIEW
A	BY: PAL	CHK: RJT
		APPROD: JPS

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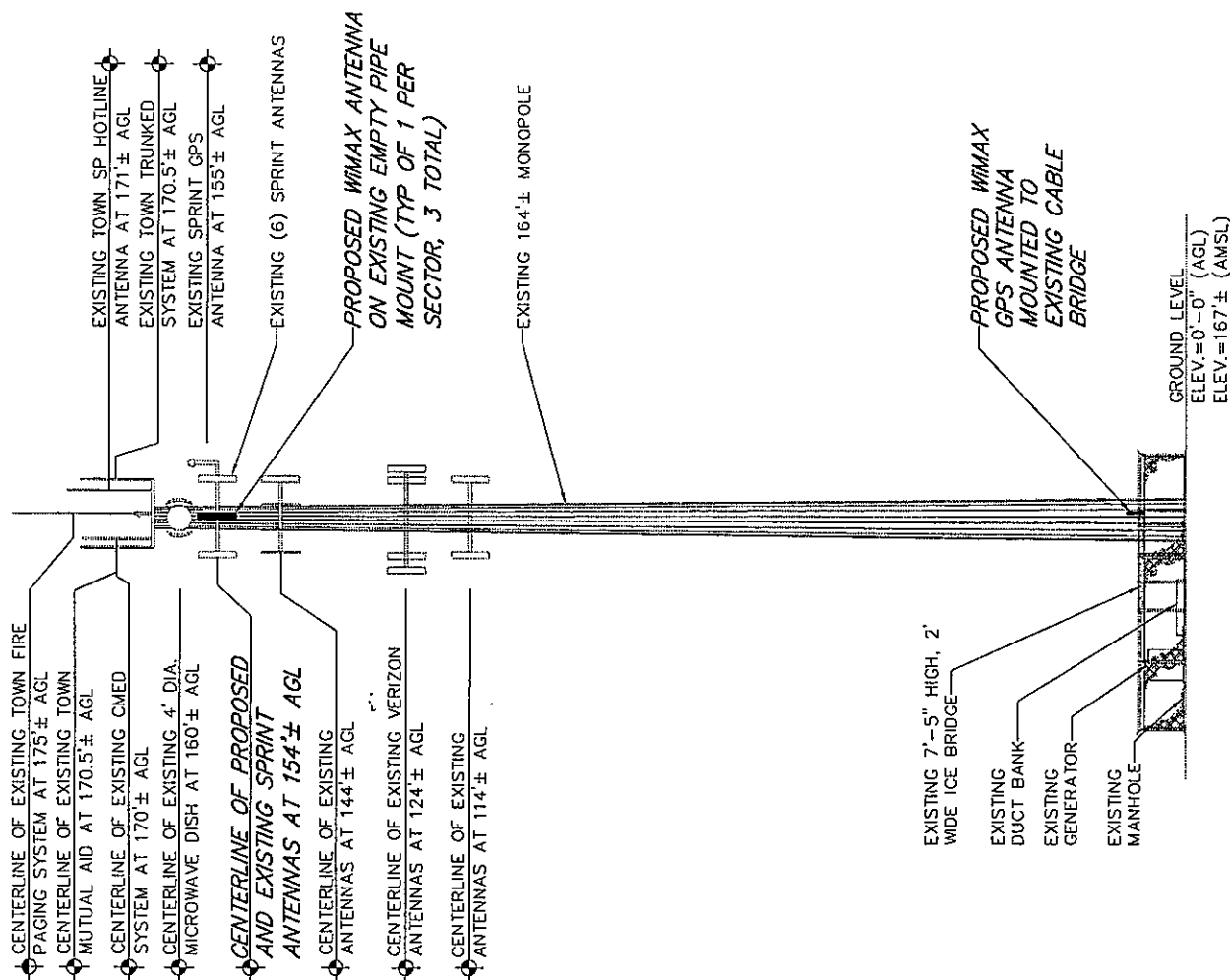
SITE ID:
CT01YC387-CT43XC855
SITE NAME:
GREENWICH HOSPITAL
SITE ADDRESS:
5 PERRYBRIDGE ROAD
GREENWICH, CT
06830
FAIRFIELD COUNTY

SHEET TITLE

TOWER ELEVATION

SHEET NUMBER

SC02



ANTENNA AZIMUTHS:
SECTOR (1) = 30°
SECTOR (2) = 140°
SECTOR (3) = 290°

1 SITE ELEVATION
NO SCALE

NOT FOR CONSTRUCTION



CLOUGH HARBOUR & ASSOCIATES LLP

November 6, 2007

Mr. Jason Deibert
Transcend Wireless, LLC
479 Route 17 North, 2nd Floor
Mahwah, NJ 07430

**RE: Structural Analysis – CT01YC387-CT43XC855 – Greenwich Hospital
Sprint/Nextel Corp - Located in Greenwich, CT
CHA File No.: 17181-3013-1203**

Dear Mr. Deibert:

Clough Harbour & Associates LLP has completed a structural review of the proposed installation at the above referenced site. Our analysis is based on the following information:

- Proposed equipment information provided by Transcend.
- Site visit by CHA on June 5, 2007.
- Previous analysis by Natcomm, LLC dated September 10, 2002.

The proposed installation consists of adding:

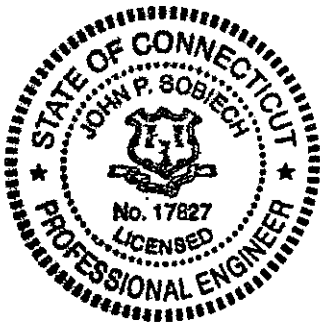
- One (1) outdoor WiMAX Macro Cell Radio cabinet to existing Sprint equipment room on ground level.
- One (1) WiMAX Macro Cell Powerplant cabinet to existing Sprint equipment room on ground level.
- One (1) GPS antenna to existing cable bridge.
- Three (3) KMW AM-X-WM-17-65-00T panel antennas to existing Monopole on existing empty pipe mounts at an antenna centerline elevation of 154' above ground level (AGL).

It is our opinion that the existing structure is capable of supporting the proposed loads. Our review assumes that the existing tower loading matches the 2002 analysis; a full structural analysis may be needed if the existing conditions vary. This opinion is based on the method of installation, and the existing structural conditions identified at the time of our field visit.

If you have any questions or comments relating to this matter please do not hesitate to contact our office.

Very truly yours,

CLOUGH HARBOUR & ASSOCIATES LLP



John P. Sobiech, P.E.
Partner

AM

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