



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@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso

Chairman

December 11, 2007

Thomas J. Regan, Esq.
Brown Rudnick Berlack Israels LLP
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402

RE: **EM-SPRINT-NEXTEL-085-071120** - Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 500 Moose Hill Road, Monroe, Connecticut.

Dear Attorney Regan:

At a public meeting held on November 29, 2007, 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 November 20, 2007, including the placement of all necessary equipment and shelters within the tower compound. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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,


Daniel F. Caruso

Chairman

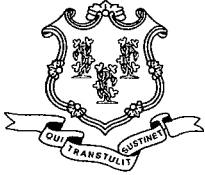
DFC/MP/laf

c: The Honorable Tom Buzi, First Selectman, Town of Monroe
Daniel A. Tuba, Planning Administrator, Town of Monroe
Keith Coppins, Optasite Inc.



CONNECTICUT SITING COUNCIL

Affirmative Action / Equal Opportunity Employer



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Daniel F. Caruso
Chairman

November 20, 2007

The Honorable Andrew J. Nunn
First Selectman
Town of Monroe
Town Hall
7 Fan Hill Road
Monroe, CT 06468-1800

RE: **EM-SPRINT-NEXTEL-085-071120** - Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 500 Moose Hill Road, Monroe, Connecticut.

Dear Mr. Nunn:

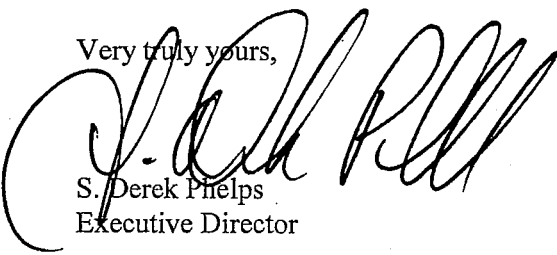
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for November 29, 2007, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by November 28, 2007.

Thank you for your cooperation and consideration.

Very truly yours,


S. Derek Phelps
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Daniel A. Tuba, Planning Administrator, Town of Monroe

EM-SPRINT-NEXTEL-085-071120

ORIGINAL

CONNECTICUT SITING COUNCIL

In re:

Sprint Nextel Corporation's Notice to Make an Exempt Modification to an Existing Facility at 500 Moose Hill Road, Monroe, Connecticut. : EXEMPT MODIFICATION NO. : November 20, 2007

RECEIVED NOV 20 2007 CONNECTICUT SITING COUNCIL

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 Monroe of Sprint's intent to make an exempt modification to an existing monopole (the "Tower") located at 500 Moose Hill Road in Monroe, Connecticut. Specifically, Sprint plans to add three WiMAX antennas and one microwave dish to its current CDMA network 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 150-foot monopole located at 500 Moose Hill Road in Monroe, Connecticut (latitude 41° 19' 15.46" N, longitude 73° 12' 5.15" W). The Tower is owned by Optasite Towers, LLC. Verizon, Cingular and T-Mobile are located on the Tower. Currently, Sprint has twelve iDEN network antennas located on the Tower with an antenna centerline at 110 feet. Sprint also had six CDMA network antennas located on the Tower with an antenna centerline at 147 feet 6 inches. The equipment cabinets for both the iDEN and CDMA networks are located at the base of the Tower within an existing compound. A site plan with the Tower specifications is attached.

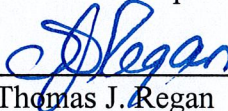
Sprint plans to install three KMW AM-X-WM-17-65-00T (WiMAX) antennas on the three existing empty pipe mounts (one per sector) with the same antenna centerline (147'-6") as the existing CDMA antennas. Six coaxial cables, 1-5/8" in diameter, will run to the WiMAX antennas through the interior of the monopole. In addition, Sprint will add one Andrew VHLP2-23-2WH microwave dish that will be pipe mounted to the existing platform mount at 148 feet. To confirm the Tower can support these changes, Sprint commissioned Infinigy Engineering, PLLC to perform a structural analysis of the Tower (attached). According to the structural analysis, dated November 19, 2007, "there is adequate capacity on the existing monopole to handle the proposed loading."

Sprint will also install one WiMAX radio cabinet and one WiMAX power cabinet on the existing 12-foot by 20-foot concrete equipment pad. Hence, there will be no need to increase the size of the compound. In addition, Sprint plans to mount a global positioning system (GPS) antenna to the existing ice bridge. Furthermore, excluding brief, minor, construction-related noise during the addition of the antennas and the installation of the equipment cabinets, Sprint's changes to the Tower will not increase noise levels at the site.

The addition of the WiMAX antennas and microwave dish 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 2.7852% of the NCRP's standard for maximum permissible exposure and the microwave antenna, 0.01%. A cumulative power density analysis indicates that together, all of the antennas on the Tower will emit only 40.4057% 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 as well as one microwave dish 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: 

Thomas J. Regan
Brown Rudnick Berlack Israels LLP
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402
Email - tregan@brownrudnick.com
Phone - 860.509.6522
Fax - 860.509.6622

File: N:\TRANSCEND\4G - CT\204-022 - CT01YC108-CT03XC364\ACAD\CSC\CSC'S - 204-022.DWG Saved: 11/19/2007 2:08:08 PM Plotted: 11/19/2007 5:24:10 PM User: Darren Weber

DIG ALERT:
 CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING:
 1-800-922-4455
EMERGENCY:
 CALL 911

Sprint Nextel Corp.

ST. JOHNS CEMETERY

SITE NUMBER: CT01YC108/CT03XC364
500 MOOSE HILL RD
MONROE, CT 06488
FAIRFIELD COUNTY, CONNECTICUT
SITE TYPE: MONOPOLE

infinigy
 engineering
 300 Great Oaks Boulevard
 Suite 312, Albany, NY 12203
 Office #: (518) 650-0790
 Fax #: (518) 650-0795

**TRANSCEND
WIRELESS, LLC.**

479 ROUTE 17 NORTH,
 2ND FLOOR
 MAHWAH, NJ 07430

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1	REVISED PER COMMENTS	D/W	11/19/07
0	SUBMITTED FOR REVIEW	D/W	11/13/07
No.	Submital / Revision	App'd	Date

Drawn: SKB Date: 11/13/07
 Designed: D/W Date: 11/13/07
 Checked: D/W Date: 11/13/07

Project Number 204-022

Project Title
**ST. JOHNS
CEMETERY**

500 MOOSE HILL RD
 MONROE, CT 06488

Prepared For


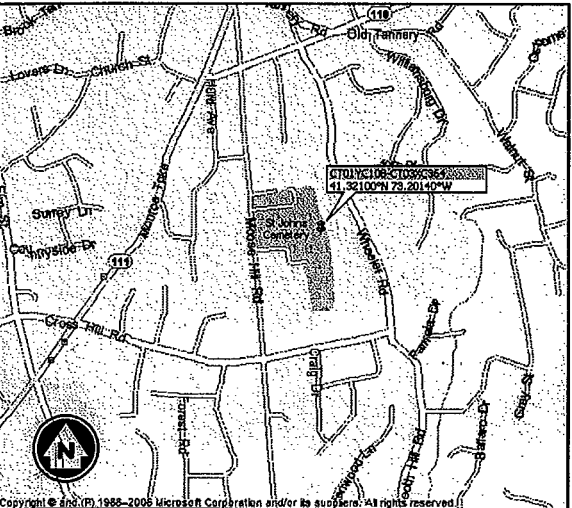
Drawing Scale:
AS NOTED
 Date:
 11/13/07

Drawing Title
TITLE PAGE

Drawing Number
T1

MINOR MODIFICATION OF EXISTING WIRELESS COMMUNICATION SYSTEM
 CONSISTING OF ADDITION OF EQUIPMENT CABINET(S), SWAPPING OF
 EXISTING ANTENNAS, ADDITION OF ASSOCIATED CABLES & ADDITION OF
 A GPS ANTENNA. NO WATER OR SEWER IS REQUIRED. THE SITE IS
 UNMANNED AND NOT FOR HUMAN HABITATION.

PROJECT DESCRIPTION:



VICINITY MAP: (NOT TO SCALE)

I-91 SOUTH TO EXIT 17/CT-15 SOUTH, TO EXIT 58. MERGE ONTO CT-34
 W/DERBY AVE. CONTINUE TO FOLLOW CT-34 WEST, TURN LEFT AT
 BRIDGE STREET, TURN RIGHT AT CT-110/HOWE AVENUE, FOLLOW CT-110
 TO LEFT AT MOOSE HILL ROAD.

DRIVING DIRECTIONS:

SHEET #	TITLE	REV.#	DATE
T1	TITLE PAGE	1	11/19/07
SC-1	OVERALL SITE LAYOUT	1	11/19/07
SC-2	TOWER ELEVATION	1	11/19/07

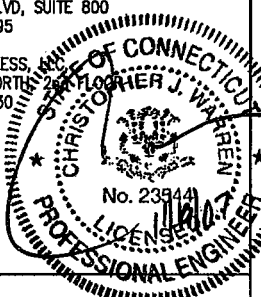
SHEET INDEX:

SITE NAME: ST. JOHNS CEMETERY
SITE NUMBER: CT01YC108/CT03XC364
SITE ADDRESS: 500 MOOSE HILL RD
 MONROE, CT 06488
SITE OWNER: OPTASITE TOWERS

PARCEL ID: 051 067 0C
CURRENT ZONING: RSC
APPLICANT: SPRINT/NEXTEL CORP
 CROSSROADS CORPORATE CENTER
 INTERNATIONAL BLVD, SUITE 800
 MAHWAH, NJ 07495

APPLICANT REPRESENTATIVE: TRANSCEND WIRELESS, LLC
 479 ROUTE 17 NORTH
 MAHWAH, NJ 07430

CENTERLINE: ±148' AGL
GROUND ELEVATION: ±622.4' AMSL
LATITUDE (NAD 83): 41° 19' 15.46" N
LONGITUDE (NAD 83): 73° 12' 5.15" W



PROJECT INDEX:

infinigy
 engineering
 300 Great Oaks Boulevard
 Suite 312, Albany, NY 12203
 Office #: (518) 690-0790
 Fax #: (518) 690-0793

TRANSCEND WIRELESS, LLC.

479 ROUTE 17 NORTH,
 2ND FLOOR
 MAHWAH, NJ 07430

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No.	Submitted / Revision	Appr'd	Date
1	REVISED PER COMMENTS	DJW	11/19/07
0	SUBMITTED FOR REVIEW	DJW	11/13/07


Drawn: SKB Date: 11/13/07
 Designed: DJW Date: 11/13/07
 Checked: DJW Date: 11/13/07

Project Number: 204-022

Project Title
ST. JOHNS CEMETERY

500 MOOSE HILL RD
 MONROE, CT 06488

Prepared For

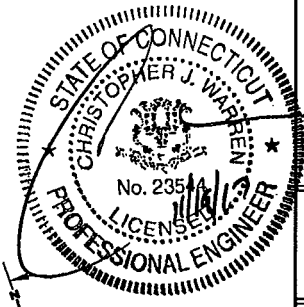
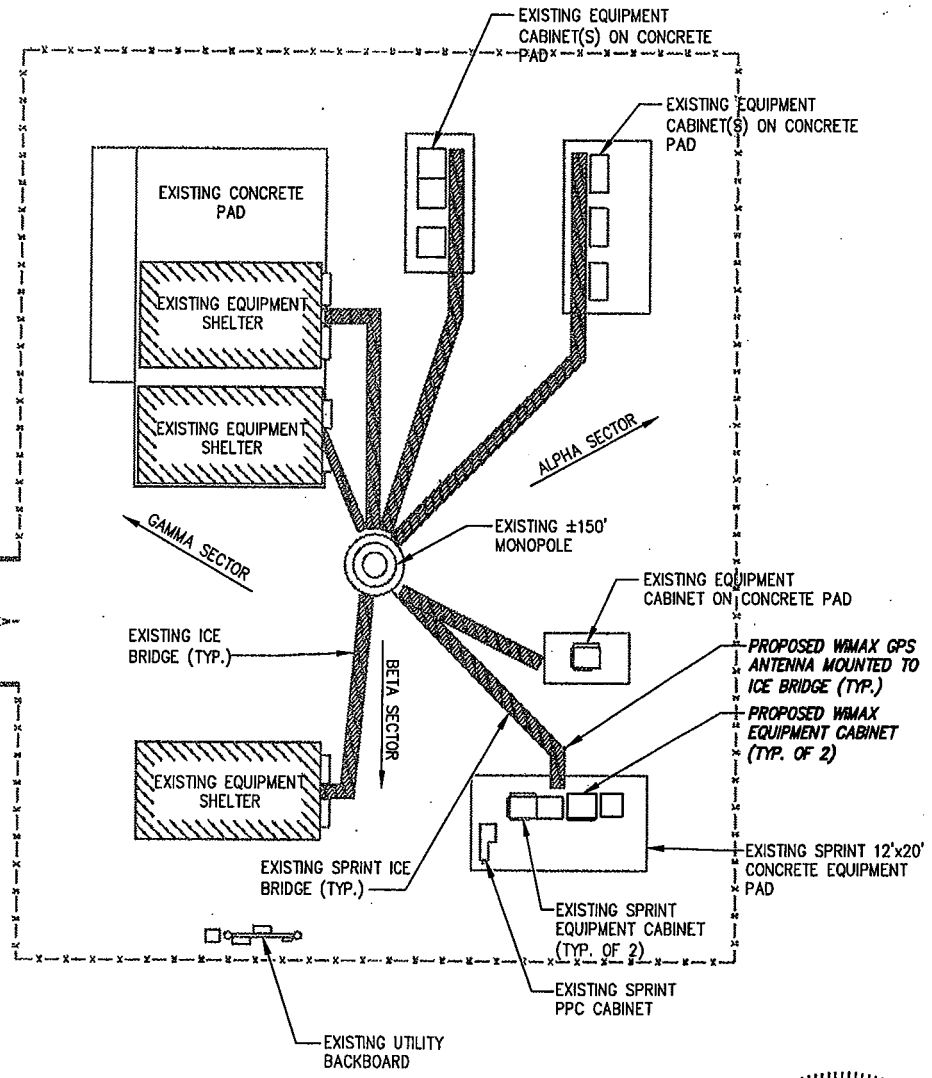


Sprint Nextel Corp.

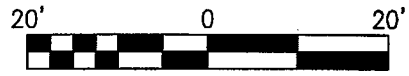
Drawing Scale: AS NOTED
 Date: 11/13/07

OVERALL SITE LAYOUT

Drawing Number
SC-1



GRAPHIC SCALE



SCALE: 1" = 20'-0"

OVERALL SITE LAYOUT
 SCALE: 1" = 20'

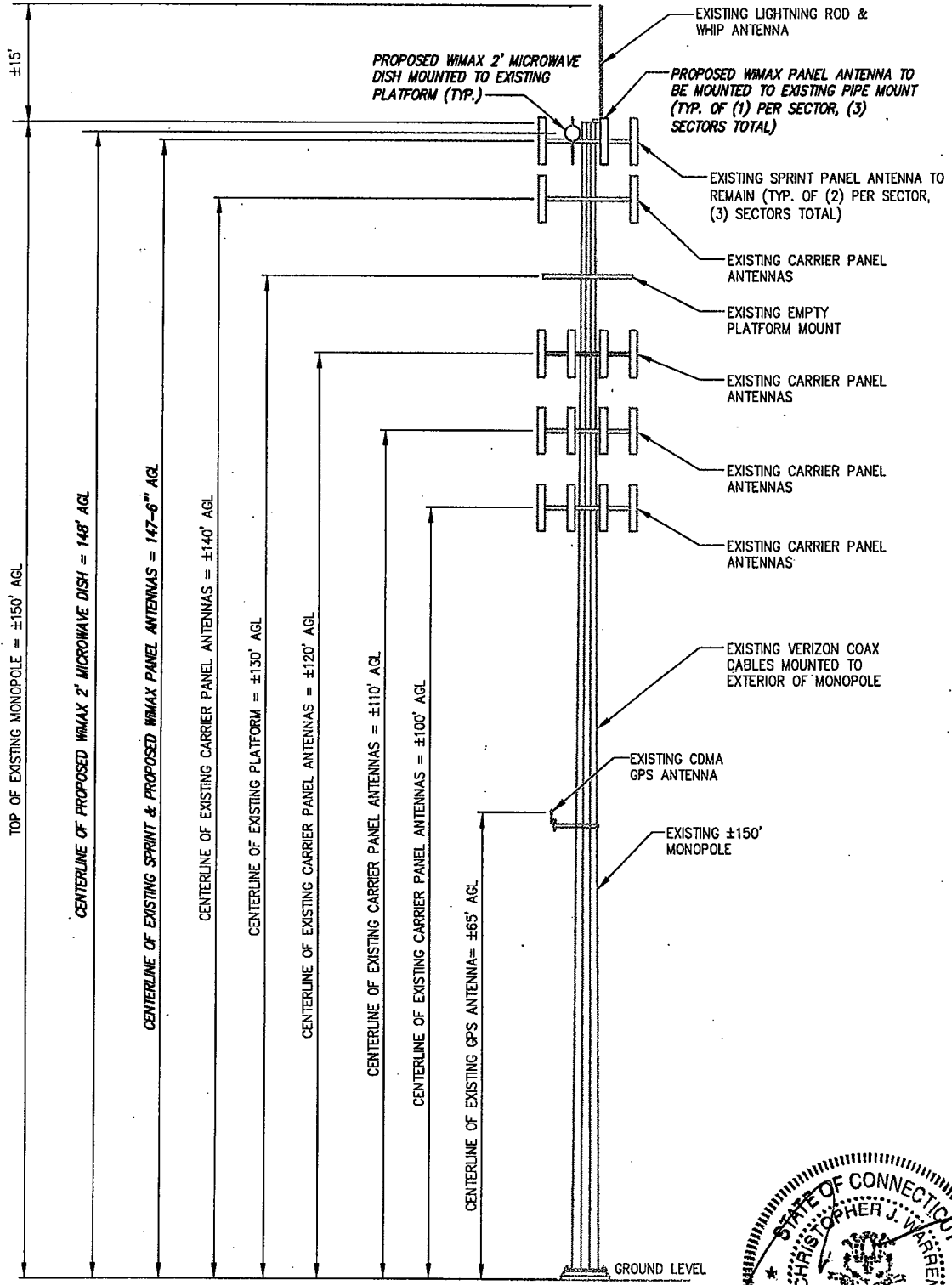
BASEMAPPING PREPARED FROM A LEASE EXHIBIT PREPARED BY JACOBS, EDWARDS AND KELCEY ARCHITECTURAL AND ENGINEERING DESIGN SERVICES, TITLED "MONROE -ST JOHN CEMETARY, DATED 6/8/07, AND DOES NOT REPRESENT AN ACTUAL FIELD SURVEY.

13' 47"

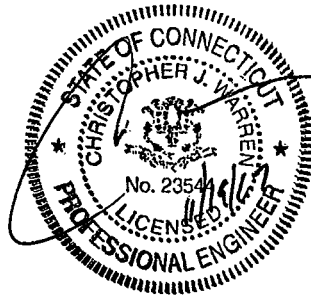
106'-0"

106'-0"

FOR ADDITIONAL STRUCTURAL INFORMATION SEE STRUCTURAL LETTER COMPLETED BY INFINIGY ENGINEERING, TITLED "ST JOHN - CEMETERY" DATED 11/19/07.



1 MONOPOLE ELEVATION
NOT TO SCALE



infinigy
engineering
300 Great Oaks Boulevard
Suite 312, Albany, NY 12203
Office #: (518) 660-0790
Fax #: (518) 660-0795

TRANSCEND WIRELESS, LLC.

479 ROUTE 17 NORTH,
2ND FLOOR
MAHWAH, NJ 07430

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Project Number: 204-022

Project Title:
ST. JOHNS CEMETERY
500 MOOSE HILL RD
MONROE, CT 06488

Prepared For:
Sprint Nextel Corp.

Drawing Scale: AS NOTED
Date: 11/13/07

Drawing Title:
TOWER ELEVATION

Drawing Number:
SC-2

November 19, 2007

Mr. Jason Deibert
Transcend Wireless
479 Route 17 North
Mahwah, NJ 07430

**RE: Proposed Sprint/Nextel antenna swap/installation,
500 Moose Hill Rd, Monroe, CT 06810
Sprint/Nextel Communication's Project Number: CT01YC108/CT03XC364**

Dear Mr. Deibert:

As part of our final design, Infinigy Engineering provides this structural opinion letter for the above subject monopole in accordance with your request. The review of the subject monopole was based on the proposed Sprint/Nextel loading as compared to the previously approved monopole design loading, consisting of the following:

- (3) KMW #: AM-X-WM-17-65-00T antennas mounted on a platform mount at 147'-6".
(Proposed Sprint/Nextel loading)
- (6) Andrew model #: VXL7-50 1 5/8" coax lines to be added (2 per sector, 3 sectors total),
Routed through interior of monopole. **(Proposed Sprint/Nextel loading)**
- (1) Andrew #: VHLP2-23-2WH microwave dish pipe mounted to existing platform mount at
148'. **(Proposed Sprint/Nextel loading)**
- The existing extended 150' monopole was designed to handle 7 carrier platforms with (12) 5'
antennas each.

Based on information provided and the existing and proposed loading compared to the design loading according to the structural evaluation completed by Dewberry, title "CT03XC364, St John's Cemetery, 500 Moose Hill Rd, Monroe, CT", and the assumption that the original Sprint installation and monopole construction was performed in accordance with good construction practice, it is our opinion that there is adequate capacity on the existing monopole to handle the proposed loading.

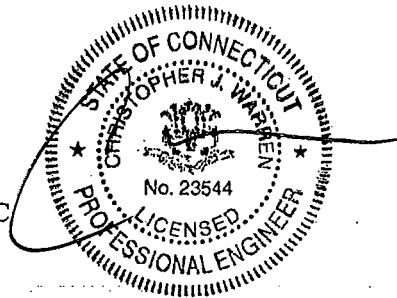
To further supplement this, the existing monopole was designed for 7 carriers in drawings by Sabre Communications Corporation, titled "130'/150' Monopole located in Monroe, CT, Job #: 02-03107 - Revision A", and to date, only 6 platforms have been installed and only 5 of these platforms have antennas installed.

The monopole would need to be re-evaluated if future loads are added.

Please do not hesitate to contact me at (770) 640-9969, if you have any questions or comments.

Very truly yours,

Chris Warren, PE
Infinigy Engineering PLLC



St. John's Cemetery - CT01YC108 (500/550 Moose Hill Road, Monroe, CT) - Siting Council Power Density Calculations										
Sprint Nextel Directional Antennas ESMR - 2657 MHz 147.5'										
Note: Power densities are in mW/ cm ²										
Transmitters:	Frequency in MHz	CT Standard mW/ cm ²	Number of Channels	ERP (W) per channel	Centerline of Tx antennas AGL (ft.)**	Power density calculated at base of tower				% of CT Standard
WIMAX	2657	1.0000	3	562	147.5	0.0278517				2.7852%
CDMA	1962.5	1.0000	11	411	147.5	0.0746842				7.4684%
Microwave	22500	1.0000	2	4.42	148	0.0001450				0.01%
From previous filings: per CSC power density data base										
Town Antennas (cum.)										
Cingular										receive only
Cingular										1.5076%
Verizon										1.9100%
Verizon										11.6100%
T-Mobile										2.4400%
Nextel										6.0900%
										6.5800%
Total % of CT Standard										40.4057%