



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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

March 28, 2000

Julie M. Cashin, Esq.  
Hurwitz & Sagarin LLC  
147 North Broad Street  
P.O. Box 112  
Milford, CT 06460-0112

RE: EM-SPRINT-047-000306 - Sprint PCS notice of intent to modify an existing telecommunications facility located at 15 Chamberlin Road in (Broad Brook) East Windsor, Connecticut.

Dear Ms. Cashin:

At a public meeting held on March 22, 2000, 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 March 3, 2000, and additional information dated March 17, 2000. 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. 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,

  
Mortimer A. Gelston  
Chairman

MAG/RKE/grg

c: Honorable Linda L. Roberts, First Selectman, Town of East Windsor  
Leroy Reaves, Sprint PCS  
Sandy M. Carter, Bell Atlantic Mobile

# HURWITZ & SAGARIN LLC

March 3, 2000

*Federal Express*

Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

RECEIVED  
MAR - 5 2000  
CONNECTICUT  
SITING COUNCIL

**Re: Notice of Exempt Modification  
15 Chamberlain Road  
Broad Brook, Connecticut**

Dear Mr. Rinebold:

On behalf of Sprint Spectrum L.P. ("Sprint PCS"), I am pleased to submit this notification of proposed co-location on a telecommunications facility which constitutes an exempt modification. Enclosed are an original plus twenty (20) copies of a letter requesting acknowledgement that the addition of Sprint PCS's antennas and related equipment to the existing water tank owned by Crop Production Services located at 15 Chamberlain Road, Broad Brook, Connecticut, satisfies the requirements set forth in R.C.S.A. §16-50j-72(b)(2). A check in the amount of \$500.00 to cover the filing fee is also enclosed.

The First Selectman of Broad Brook, Linda Roberts, has been sent a copy of this exempt modification filing by certified mail.

Sincerely,

*Julie M. Cashin*

JULIE M. CASHIN  
JMC/dsw  
Enc.

cc: Linda Roberts, First Selectman, Town of Broad Brook  
Leroy Reaves, Sprint Spectrum, LP

# HURWITZ & SAGARIN LLC

March 3, 2000

Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**RECEIVED**  
MAR - 6 2000  
CONNECTICUT  
SITING COUNCIL

**Re: Notice of Exempt Modification  
15 Chamberlain Road  
Broad Brook, Connecticut**

Dear Mr. Rinebold:

Sprint Spectrum L.P. ("Sprint PCS") hereby requests acknowledgement that Sprint PCS's proposed co-location on the existing water tank owned by Crop Production Services ("CPS") and located at 15 Chamberlain Road, Broad Brook, Connecticut ("Facility") constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). The water tank is no longer in use, and the structure is currently used solely as a telecommunications facility by Bell Atlantic Mobile ("BAM"). Under this request for acknowledgment, CPS intends to allow Sprint PCS to install antennas and related equipment at this telecommunication facility. The Town of Broad Brook granted Site Development Plan Approval to Sprint PCS on January 11, 2000 for the proposed Sprint PCS installation. Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of modification to an existing telecommunications facility, which constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the First Selectman of Broad Brook, Connecticut.

The Facility consists of a 122.8 foot high water tank structure located at 15 Chamberlain Road, Broad Brook, Connecticut. The Facility currently supports a BAM antenna array, mounted to the exterior of the tower at an antenna centerline height of 114.1 feet AGL. Sprint PCS plans to attach nine panel antennas to the Facility at an antenna centerline height of 104.1 feet AGL and a global positioning antenna ("GPS") at a height of 68.5 feet AGL. In addition to the antennas, Sprint PCS may install up to seven equipment cabinets on a frame near the base of the tower within the existing site compound.

The proposed modifications to the Facility fall squarely within and satisfy the requirements set forth in R.C.S.A. § 16-50j-72(b)(2):

1. The proposed modifications will not increase the height of the Facility. Sprint PCS's antennas will be installed at a centerline of approximately 104.1 feet above ground level (AGL). Sprint PCS's GPS antenna will be mounted to the tower at a height of 68.5 feet AGL. The site plan, attached as Exhibit A, confirms that the proposed Sprint PCS installation will not increase the overall height of the tower.

2. The installation of Sprint PCS's equipment near the base of the tower, as reflected on the attached site plan, will not require an extension of the site boundaries. Sprint PCS's proposed equipment location, fencing, access and utility routing will be located entirely within the existing site.

3. The proposed modifications will not increase the noise levels at the Facility by six decibels or more.

4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the applicable standard. The "worst-case" RF power density calculation for a point at the tower base would be .165536 mW/cm<sup>2</sup> for the Sprint PCS antennas. The calculated "worst-case" power density for the combined operations at the site is well below the standard for general population/uncontrolled exposure. See power density calculation below.

### **Site CT33XC565**

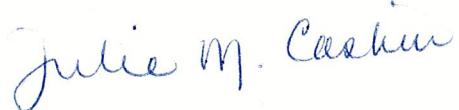
#### **Worst Case Power Density Analysis of Sprint PCS Antennas @ Base of Tower. Assumes Max ERP & No Antenna Pattern Adjustment**

<b>Operating Frequency (MHz)</b>	<b>Number of Trans.</b>	<b>Effective Radiated Power (ERP) Per Transmitter (Watts)</b>	<b>Total ERP (Watts)</b>	<b>Antenna Height (Feet)</b>	<b>Distance From Base of Tower (Feet)</b>	<b>Calculated Power Density (mW/cm<sup>2</sup>)</b>	<b>Maximum Permissible Exposure*</b>	<b>%MPE</b>
1962.5	11	453	4983	104.1	0	0.165536	1	16.5536%
1962.5	11	453	4983	104.1	50	0.134506	1	13.4506%
1962.5	11	453	4983	104.1	100	0.086092	1	8.6092%
1962.5	11	453	4983	104.1	150	0.053811	1	5.3811%
1962.5	11	453	4983	104.1	200	0.035287	1	3.5287%
1962.5	11	453	4983	104.1	250	0.024461	1	2.4461%
1962.5	11	453	4983	104.1	300	0.017790	1	1.7790%
1962.5	11	453	4983	104.1	350	0.013454	1	1.3454%
1962.5	11	453	4983	104.1	400	0.010501	1	1.0501%
1962.5	11	453	4983	104.1	450	0.008409	1	0.8409%
1962.5	11	453	4983	104.1	500	0.006877	1	0.6877%

\*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992

For the foregoing reasons, Sprint PCS respectfully submits that the proposed addition of Sprint PCS's antennas and equipment to the Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

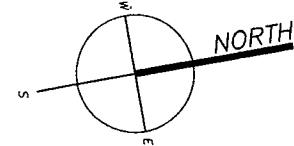
Sincerely,

A handwritten signature in blue ink that reads "Julie M. Cashin". The signature is fluid and cursive, with "Julie" and "M." on the first line and "Cashin" on the second line.

Julie M. Cashin, Esq.

cc: Linda Roberts, First Selectman  
Leroy Reaves, Sprint Spectrum LP





**SPRINT**  
PCS

Crossroads Corporate Center  
1 International Blvd.  
8th Floor, Suite 800  
Mahwah, NJ 07495

**BAY STATE DESIGN**

Boy State Design  
Associates, Inc.  
Architects • Engineers  
266 Summer Street  
Boston, MA 02210  
Phone: 617-357-7177  
Fax: 617-482-4099

PROJECT NO: 2013.017

DRAWN BY: AT

CHECKED BY: DH

CAD FILE: 565C2

**SUBMITTALS**

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO SPRINTCOM SPECTRUM L.P. IS STRICTLY PROHIBITED.

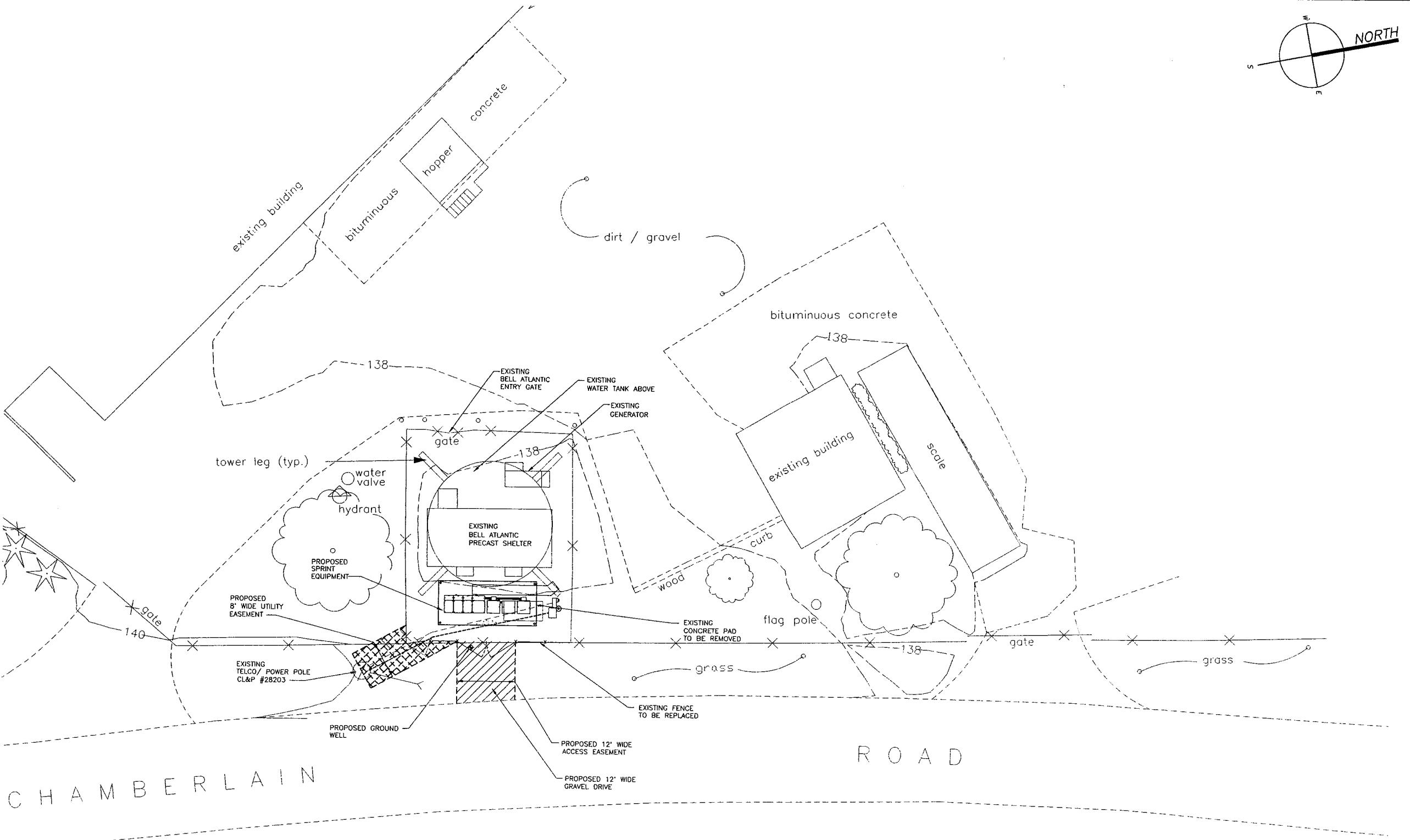


*Ronald J. Jackson*

SITE  
CT33XC565  
BROAD BROOK  
15 CHAMBERLAIN ROAD  
BROAD BROOK, CT 06016

SHEET TITLE  
SITE PLAN

SHEET NUMBER  
C-2



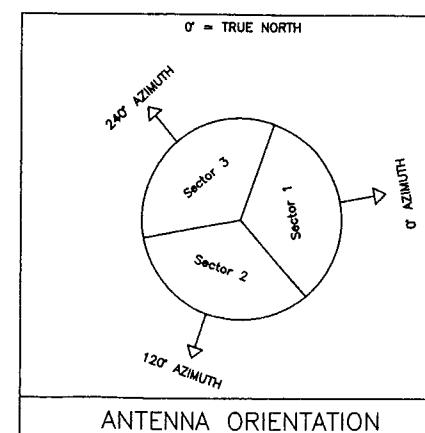
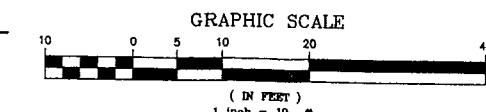
NOTE: UTILITIES TO RUN UNDERGROUND FROM EXISTING U/P CL&P #28203.

12' WIDE ACCESS EASEMENT

8' WIDE UTILITY EASEMENT

**SITE PLAN**

SCALE: 1" = 10'-0"



ANTENNA ORIENTATION

**BAY STATE  
DESIGN**

Bay State Design  
Associates, Inc.  
Architects • Engineers  
266 Summer Street  
Boston, MA 02210  
Phone: 617-357-7177  
Fax: 617-482-4099

PROJECT NO: 2013.017

DRAWN BY: AT

CHECKED BY: DH

CAD FILE: 565C3

**SUBMITTALS**

A 02/23/00 FOR SITING COUNCIL

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE AND USE OR DISCLOSURE OTHER THAN THAT WHICH REFERS TO SPRINTCOM SPECTRUM L.P. IS STRICTLY PROHIBITED.

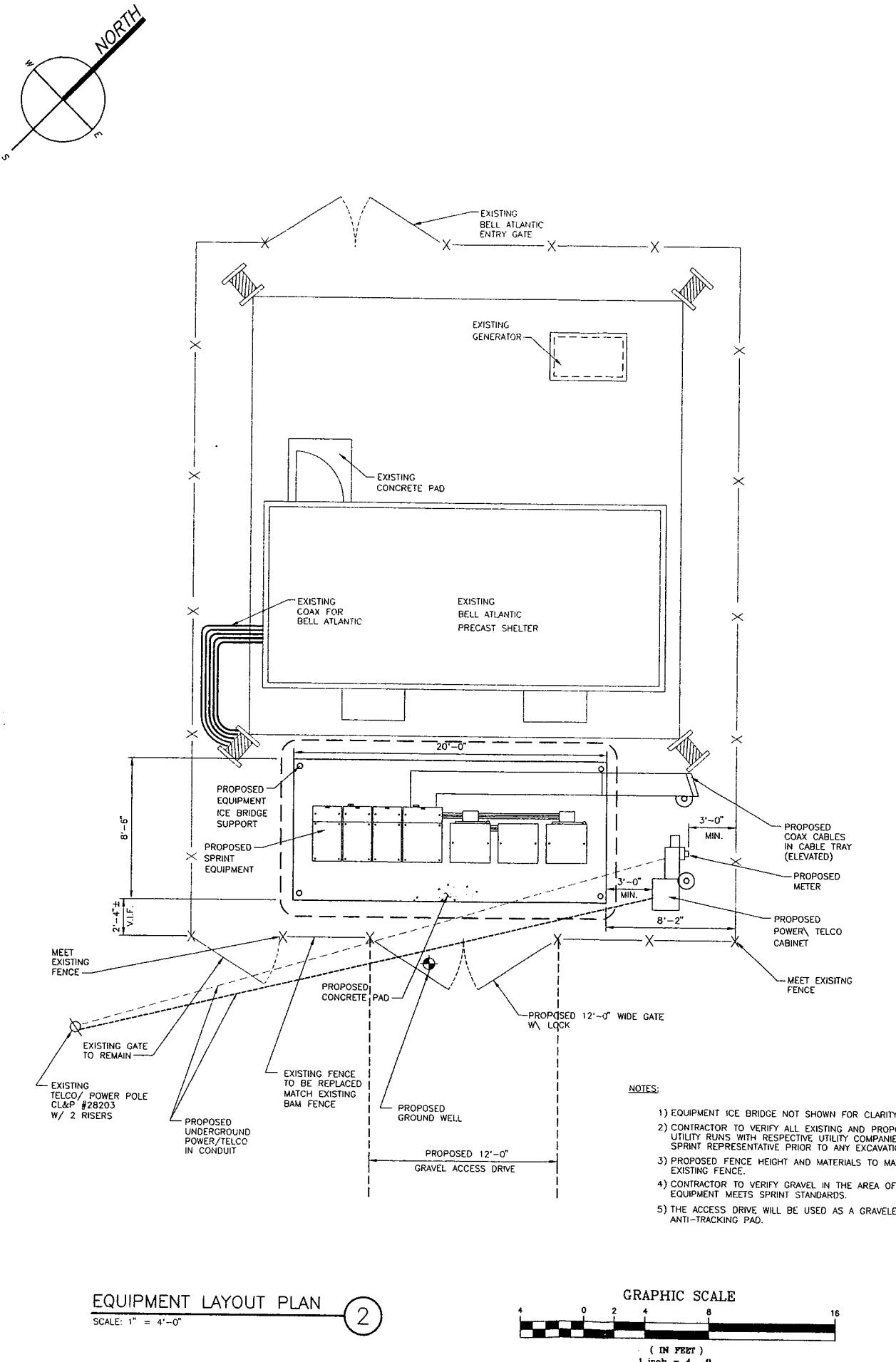


Ronald J. Jackson

SITE  
CT33XC565  
BROAD BROOK  
15 CHAMBERLAIN ROAD  
BROAD BROOK, CT 06016

SHEET TITLE  
COMPOUND LAYOUT

SHEET NUMBER  
C-3



**BAY STATE  
DESIGN**

Bay State Design  
Associates, Inc.  
Architects • Engineers  
266 Summer Street  
Boston, MA 02210  
Phone: 617-357-7177  
Fax: 617-482-4099

PROJECT NO: 2013.017

DRAWN BY: AT

CHECKED BY: DH

CAD FILE: 565A1

**SUBMITTALS**

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PROHIBITED.

A&E SEAL



Ronald J. Jackson

SITE

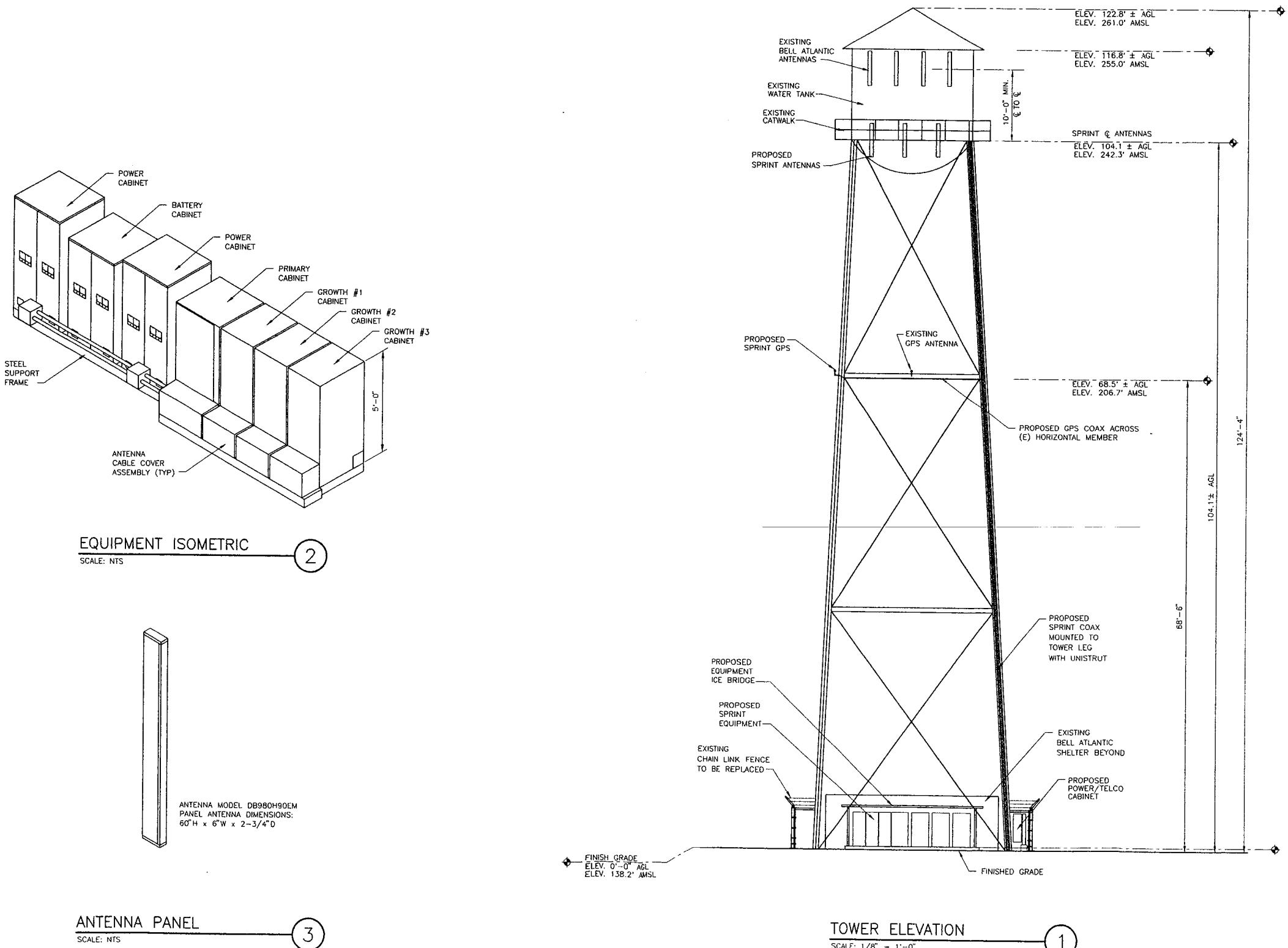
CT33XC565  
BROAD BROOK  
15 CHAMBERLAIN ROAD  
BROAD BROOK, CT 06016

SHEET TITLE

ELEVATION

SHEET NUMBER

A-1



# HURWITZ & SAGARIN LLC

March 17, 2000

*Via Facsimile*

Robert Erling  
Staff Analyst  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

RE: Notice of Exempt Modification  
15 Chamberlain Road  
Broad Brook, Connecticut

Dear Bob:

Attached please find the zoning permit and building permit for the BAM installation on the above referenced facility. It appears that a variance was granted by the East Windsor Zoning Board of Appeals, and a building permit subsequently issued to BAM on November 15, 1995.

I have also attached the cumulative power density calculations for the above referenced facility. Please note that I can only verify the Sprint calculations as the BAM calculations were supplied by BAM.

Please call me if you have any questions.

Very truly yours,



JULIE M. CASHIN  
JMC/dsw  
Enc.

cc: Leroy Reaves

**RECEIVED**

MAR 20 2000

CONNECTICUT  
SITING COUNCIL

Site Name:	CT33XC565 Broadbrook Water Tank				
Operator	Operating Frequency (MHz)	Distance to Target (feet)	Calculated Power Density (mW/cm <sup>2</sup> )	Maximum Permissible Exposure* (mW/cm <sup>2</sup> )	Fraction of MPE (%)
BAM	870 - 880	114	0.001396	0.583	0.2395%*
Sprint PCS	1962.5	104	0.165536	1	16.55%
<b>Total Percentage of Maximum Permissible Exposure</b>					
16.79%					

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

<sup>a</sup>Information provided by Bell Atlantic Mobile

MHz = Megahertz

mW/cm<sup>2</sup> = milliwatts per square centimeter

ERP = Effective Radiated Power

## ZONING PERMIT

## EAST WINDSOR, CONNECTICUT

[ PLEASE NOTE THAT THIS IS NOT A BUILDING PERMIT ]

This Permit is hereby applied for in accordance with the requirements of the East Windsor Zoning Regulations for:

Principal Building - new  
 Principal Building - add.  
 Other:

Accessory Structure  
 Change of Use:

Lot located at 15 Chamberlain Road (House No.) (Street)on LEVEL side of streetTax Map No. 19 Block No. 58 Lot No. 12 EMR Map No.Zoning District: M1 Lot Area 11.0 acres Frontage 1175'Lot Owner: Crop Production Services, Inc.  
Address: RD #1, Box 214Telephone: 812-249-9211Applicant: Cellco Partnership (Bell Atlantic NYNEX Mobile, Inc., Managing General Partner)Address: 20 Alexander Drive, Wallingford, CT 06492 Telephone: 203-769-4850Proposed Use: Cellular Telecommunications Facility. To locate a 12 x 26 customer building and place 12 cellular panel-type antennas on existing tank foundations. Also proposed Service entrance pad and prepare tank building services.

1. Dimensions <u>12</u> x <u>26</u> x (hgt.) <u>10</u>	Number: <u>Existing water tank</u>
2. Dimensions <u>—</u> x <u>—</u> x (hgt.) <u>—</u>	Present Use: <u>Water tank</u>
3. Dimensions <u>—</u> x <u>—</u> x (hgt.) <u>—</u>	
4. Parking Spaces: Required <u>1</u> Provided <u>1</u>	
5. Signage: Allowed <u>—</u> Proposed <u>—</u>	<u>None</u>
6. Coverage: Allowed <u>Blk</u> Proposed <u>Blk</u>	Total Impervious <u>TOTAL IMPERVIOUS</u>

## Prior Approval Status:

1. ZBA Variance #96-21 for pref. setback	9. E.W.W. Approval Date
2. Health Approval Date <u>N/A</u>	10. SAE Plan Approval
3. Sewer Approval Date <u>N/A</u>	11. DEP Permit
4. Legal Nonconforming <u>Patents of property</u>	12. Army Corps of Engr. Permit
5. Conn. D.O.T. Permit	13. Floodproof Certif. Date
6. PZC Approval Date <u>7/3/96 (Town)</u>	14. Flood Elevation
7. Subdivision Appro. Date <u>N/A</u>	15. Other Approvals
8. Town Engineer Appro.	
16. Building Plans (Title) <u>ON</u> (Date) <u>12/18/96</u> (Revised)	

Permit hereby  ISSUED or  DENIED subject to conformance with/to the East Windsor Zoning Regulations and attached Site or Plot Plan:  
 Titled: Sub. Development Plans for the Broad Brook Avenue Site (S. Steele)  
 Prepared By: Cellco, Inc. Dated July 1995 Revised 7/18/96  
 and the following conditions (rescissions): ② App. 12 for set. pref. is hereby rejected ③ building plans inc. plans final version req'd

As-Built Required:  NO Foundation (including elevation)  
 NO Final As-BuiltPermit void if (a) Work/activity not commenced within 1 year of date of issuance, or  
 (b) Construction authorized not completed within 2 years of date of issuance.

Failure to comply with the conditions of approval of this Permit shall constitute a violation of the East Windsor Zoning Regulations.

A Zoning Certificate of Compliance is required prior to occupancy of any structure or commencement of any use applied for under this Permit.

I hereby certify that the above information is correct to the best of my knowledge &amp; belief.

Fee: 66.24 Paid 9/1/96

CROP PRODUCTION SERVICES

Signature of Agent or Owner

Date: 12/18/96White - ZONING DEPT.  
 Yellow - APPLICANT  
 Pink - BUILDING DEPT.By Zoning Enforcement Officer Date 12/18/96

HRT-2077

TOWN OF EAST WINDSOR, CT

No 009161

Date 11/15/95

BUILDING PERMIT

Est.Cost: \$ 100,000  
Fee: \$ 1,000.00

OWNER

Name Crop Production Services, Inc.

Address 15 NE CHAMBERLAIN RD.

BROAD BROOK, CT 06010

LOCATION

Address: 15 NE CHAMBERLAIN RD.

Contractor: METRO MOBILE

20 Alexandre Drive

Windsor, CT 06492

NEW BUSINESS

Demolition of under construction 22x25' prefab bldg. &  
concrete pads/ZP#11

1768

UNITY-STRENGTH

WINDSOR CONNECTICUT

All work to be done in accordance with the application  
and plans approved by the building department.

*M. Halligan*  
Building Official

HURWITZ & SAGARIN LLC

RECEIVED

APR 11 2000

CONNECTICUT  
SITING COUNCIL

April 10, 2000

Via Facsimile

RECEIVED

APR 11 2000

CONNECTICUT  
SITING COUNCIL

Robert Erling  
Staff Analyst  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

RE: 15 Chamberlain Road  
Broad Brook, Connecticut

Dear Bob:

You requested the latitude and longitude of the telecommunications facility that is the subject of the above referenced Siting Council acknowledgement.

To the best of Sprint's knowledge the coordinates for this water tank are: 41-53-55 N and 72-33-07 W.

Please call me if you have any questions.

Very truly yours,

*Julie M. Cashin*

JULIE M. CASHIN  
JMC/dsw  
Enc.

LAW OFFICES

147 North Broad Street, P.O. Box 112, Milford, Connecticut 06460-0112

Tel. 203-877-8000 • Fax 203-878-9800