

PLANNING & ZONING DEPARTMENT

Bethel Municipal Center, 1 School Street Bethel, Connecticut 06801 (203) 794-8519

RECEIVED
SEP - 5 2002

September 5, 2002

Mr. S. Derek Phelps CONNECTICUT
Connecticut Siting Compailing COUNCIL
Ten Franklin Square
New Britain, CT 06051

Re:

EM-SBA-009-020809 - SBA, Inc.

Co-location on tower to be constructed at 11 Francis J. Clarke Circle

Bethel, Connecticut

Dear Mr. Phelps:

The Planning and Zoning Commission, at its meeting held on August 27, 2002, reviewed the proposal of SBA, Inc. to "modify an existing telecommunications facility located at 11 Francis J. Clarke Circle" in the Town of Bethel, to allow co-location of additional carriers AT&T and Sprint.

Please be advised that the Planning and Zoning Commission has no objection to the proposal for co-location of additional antenna, provided that all equipment and facilities are constructed within the previously approved "lease area" as shown on drawings presented to the Planning and Zoning Commission, which approval was renewed on April 9, 2002.

Please also note that, to our knowledge, the tower is not an "existing facility" because it has not yet been constructed.

Thank you for this opportunity to comment on the proposal.

Very truly yours,

Betty Brosius

Planning & Zoning Official

cc: Michael J. Mannion, Chairman, Planning and Zoning Commission Judith Novachek, First Selectwoman

Setty Brosius, Planning and Zoning Official Town of Bethei Municipal Center

1 School Street Bethel, CT 08801

Phone 203-794-8519 FAX 203-794-8595







SEP - 5 2002

CONNECTICUT SITING COUNCIL

10;	S. Derek Phelps	From:	Betty Brosius, P&	Z Official
Fax:	860-827-2950	Pages:	2	
Phones	860-827-2935	Date:	9/5/2002	
Re:	11 Francis J. Clarke Circ	le – SBA CC:	none	
□ Urge	nt 🛘 For Review	☐ Please Comment	☐ Please Reply	☐ Piease Recycle
• Comm	ments:			
If possil meeting.	ble, we would like these	brief comments included	in the review of SE	BA proposal for today's
Thank yo	ou.			



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@po.state.ct.us Web Site: www.state.ct.us/csc/index.htm

September 11, 2002

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

RE:

EM-SBA-009-020809 - SBA, Inc. notice of intent to modify an existing telecommunications facility located at 11 Francis J. Clarke Circle, Bethel, Connecticut.

Dear Attorney Donaldson:

At a public meeting held on September 5, 2002, 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 notices dated August 9, 2002, and August 23, 2002. 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.

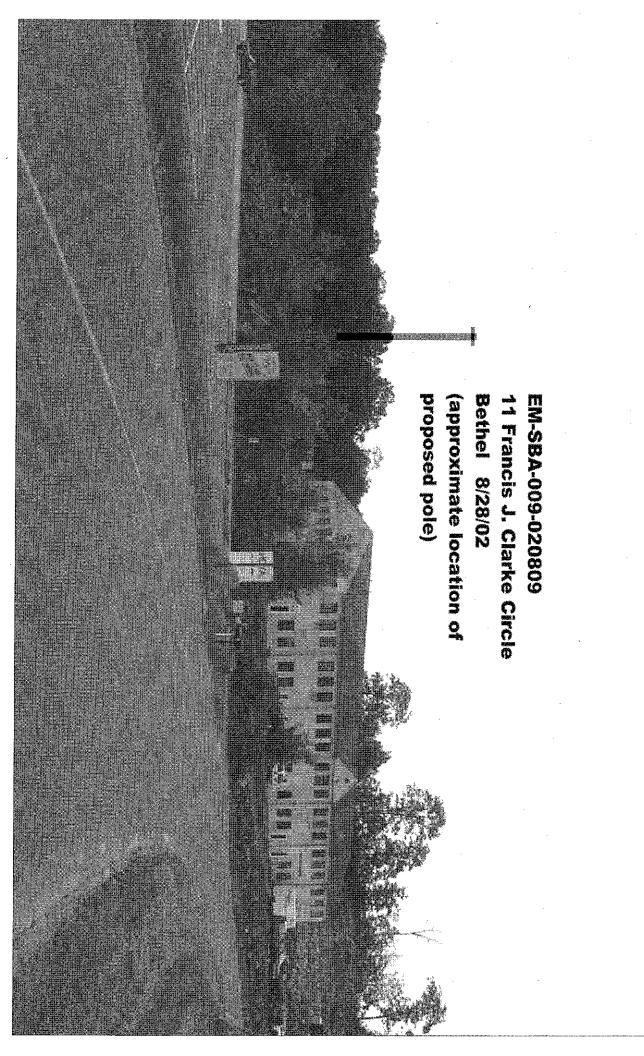
Thank you for your attention and cooperation.

Very truly yours,

Chairman

MAG/laf

c: Honorable Judy Novachek, First Selectman, Town of Bethel Betty Brosius, Planning & Zoning Official, Town of Bethel Thomas F. Flynn III, Nextel Communications Christopher B. Fisher, Esq., Cuddy & Feder & Worby LLP



HURWITZ & SAGARIN, LLC

Facsimile Cover Sheet

RECEIVED

CONNECTICUT SITING COUNCIL

To: Mr. David Martin

Staff Analyst

Telephone: Connecticut Siting Council

860-827-2935

Fax: 860-827-2950

From: Julie M. Donaldson, Esq.

Company: Hurwitz & Sagarin, LLC

Phone: 203-877-8000

Fax: 203-878-9800

Date: 8/9/02

SUPPLEMENTAL MESSAGE:

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notice us immediately by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you.

CONNECTICUT

SITING COUNCIL

HURWITZ & SAGARIN LLC

August 23, 2002

Via Facsimile and First Class Mail

Mr. David Martin Staff Analyst Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Re:

Notice of Exempt Modification 11 Francis J. Clarke Circle

Bethel, Connecticut

Dear Mr. Martin

As you requested, enclosed please find a "2C" letter dated September 5, 2000 that includes the latitude and longtitude of the above referenced site.

Please let me know if you have any other questions.

Julie M. Donaldson

JMD/rr

Mark Roberts, SBA cc:

Network Services, Inc.;

860 659 9140;

Aug-23-02 10:45AM;

Page



PROFESSIONAL SUMVE 1 UM3

18 CEDAR ISLAND AVENUE • CLINTON, CT 08413 • (850) 669-7799 • Fax (860) 659-5833 • www.gesickeurveydrs.com

September 5, 2000

Mr. Eric Pearson SBA, inc. 80 Eastern Blvd. Glastonbury, CT 06033

RE: 11 Francis J. Clarke Circle - Bethel, Connecticut

Dear Mr. Pearson,

This letter is in reference to a proposed cellular site located at 11 Francis J. Clarke Circle in Bethel, Connecticut.

I hereby certify to "2-C" tolerances the following information:

NAD 83 State Plane

N 692648

E 814697

Latitude

N 41°-21'-36.27"

Longitude

W 73°-25'-30.03"

NGVD 1929

411'

Latitude/Longitude/Elevations were obtained utilizing Total Stations referenced to Conn DOT Baseline Station. Latitude/Longitude are referenced to NAD83 Connecticut zone. Coordinates shown, if any, are expressed in US feet. Elevations are referenced to NGVD 1929.

,-, '

Donald L. G

HURWITZ SAGARIN LLC

August 23, 2002

Via Facsimile and First Class Mail

Mr. David Martin Staff Analyst Connecticut Siting Council 10 Franklin Square New Britain, CT 06051 AUG 26 2002 CONNECTIOUT SITING COUNCIL

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Bethel, Connecticut

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Please let me know if you have any other questions.

Sincerely,

Julie M. Donaldson

JMD/rr

cc: Mark Roberts, SBA





19 CEDAR ISLAND AVENUE • CLINTON, CT 08413 • (860) 669-7799 • Fax (860) 669-5833 • www.gesicksurveyors.com

September 5, 2000

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Donald, I



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@po.state.ct.us Web Site: www.state.ct.us/csc/index.htm

August 20, 2002

Honorable Judy Novachek First Selectman Town of Bethel 1 School Street Bethel Municipal Center Bethel, CT 06801-2105

RE:

EM-SBA-009-020809 - SBA, Inc. notice of intent to modify an existing telecommunications facility located at 11 Francis J. Clarke Circle, Bethel, Connecticut.

Dear Ms. Novachek:

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 tentatively scheduled for September 5, 2002, at 1:30 p.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 trolly yours,

S. Derek Phelps
Executive Director

SDP/slm

Enclosure: Notice of Intent

c: Betty Brosius, Planning & Zoning Official, Town of Bethel

EM-SBA-009-020809

HURWITZ SAGARIN LL

August 9, 2002

Mr. S. Derek Phelps Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051 RECEIVED)

CONNECTICUT SITING COUNCIL

Re:

Notice of Exempt Modification 11 Francis J. Clarke Circle Bethel, Connecticut

Dear Mr. Phelps:

SBA, Inc. ("SBA") hereby requests acknowledgement that the proposed co-location of AT&T Wireless PCS, LLC ("AT&T") and Sprint Spectrum, LP ("Sprint") facilities on an approved telecommunications tower located at 11 Francis J. Clarke Circle, Bethel, Connecticut ("Bethel Facility") constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). Under this acknowledgement, SBA intends to allow AT&T to install six (6) panel antenna and related equipment and allow Sprint to install twelve antenna and related equipment at the Bethel Facility. See Plans attached hereto as Exhibit A. These antennas will be used to fulfill AT&T's and Sprint's Federal Communications Commission ("FCC") licensing requirements to provide service throughout Connecticut.

Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of modification to a telecommunications tower, 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 Judith Novacheck, Bethel's First Selectman.

I. Background

As approved, the Bethel Facility will consist of a 160-foot monopole tower and related equipment located at 11 Francis J. Clarke Circle Bethel, Connecticut. SBA received approval from the Bethel Inland Wetland Commission on October 26, 1998, a variance from the Bethel Zoning Board of Appeals on January 19, 1999 and a Special Permit and Site Plan approval from the Bethel Planning & Zoning Commission on April 13, 1999. See Exhibit B for a copy of approvals. Due to litigation that was ultimately settled, SBA was unable to construct the Facility pursuant to the timeframes set forth in the Town's initial approval. SBA has since received renewals of the approvals from the Town of Bethel and intends to begin the construction of the Facility in accordance with these approvals.

In a letter dated January 25, 2002, the Siting Council advised that all "privately owned speculation towers developed to provide space for personal communication service (PCS)... will now be considered by the Council to be facilities under the jurisdiction of the Council ..." The letter also requested that the owners of towers that were approved between July 10, 2001 and December 17, 2001 petition the Council for a determination as to whether such towers have a significant adverse environmental effect. The Bethel Facility falls within the first category set forth in the Council's letter and, in accordance with the letter's provisions, is within the Council's exclusive jurisdiction.

As a result, in order to allow Sprint and AT&T to co-locate on the Bethel Facility, SBA hereby requests acknowledgement of modifications that are exempt pursuant to R.C.S.A. § 16-50j-72(b)(2). The Bethel Facility does not however, fall within the category of facilities for which the Council advised seeking a declaratory ruling because the Bethel Facility received its municipal approvals well before the July to December 2001 time period outlined in the Council's letter.

II. Modifications Proposed

The 160 foot tower is designed to support five (5) antenna arrays at elevations of 157 feet, 145 feet, 135 feet, 125 feet and 115 feet above ground level ("AGL). Sprint will be located at an antenna centerline of 157 feet and AT&T will be located at an antenna centerline of 125 feet. See Exhibit A for the Tower Elevation plan. AT&T and Sprint will also install equipment cabinets, on concrete pads within the approved compound. See Site Layout attached hereto as Exhibit A.

For the following reasons, the proposed modifications to the Bethel 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 tower. The plan attached as Exhibit A confirms that the proposed AT&T and Sprint installations will not increase the overall height of the tower.
- 2. The installation of the AT&T and Sprint equipment cabinets on concrete pads within the approved compound, as reflected on the attached plan, will not require an extension of the site boundaries. The proposed equipment location, access, and utility routing for the proposed AT&T and Sprint installations will be located entirely within the planned site.
- 3. The proposed modifications will not increase the noise levels by six decibels or more because no HVAC equipment is required.
- 4. As set forth in the report prepared by Bechtel Communications dated July 24, 2002, the operation of the AT&T and Sprint 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 adopted by the Connecticut Department of Environmental Protection, as set forth in Connecticut General Statues § 22a-162, nor to a level at or above the MPE limits established by the FCC.

The "worst-case" RF power density calculation for a point at the tower base would be 0.08% of the public MPE limit for PCS frequencies, as depicted in the power density chart attached hereto as Exhibit C.

A Tower Design prepared by Summit Manufacturing, LLC dated November 17, 1998 is attached hereto as Exhibit D. This Tower Design was submitted by SBA with its application to the Town of Bethel and, therefore, was before the Town when considering and ultimately approving SBA's application.

For the foregoing reasons, SBA respectfully submits that the proposed addition of AT&T and Sprint antennas and equipment at the Bethel Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kachell J. Reilly for Julie M. Donaldson

JMD/rr

cc: Judith Novacheck, First Selectman, Town of Bethel

Mark Roberts, SBA

Christopher Fisher, Cuddy, Feder & Worby

Robert Chagnon, Sprint Spectrum LP



PLANNING & ZONING COMMISSION

Bethel Municipal Center I School Street, Bethel, Connecticut 06801 *(203) 794-8519

April 16, 1999

Esther McNany SBA, Inc/Nextel Communications/Sprint PCS 125 Shaw Street New London, CT 06320

RE: SBA, Inc./Nextel Communications/Sprint PCS

Dear Ms. McNany:

At the April 13, 1999 meeting of the Planning & Zoning Commission it was voted to **APPROVE** your application for a special permit and site plan, 11 Francis J. Clarke Industrial Park, on maps dated C-1 dated 2/17/98 last revised 1/22/99, C-2 dated 2/17/98 last revised 1/22/99, C-3 dated 6/20/98 last revised 4/16/99, and C-4 dated 6/20/98 with the following stipulations:

- 1. Applicant will submit the approved site plan to the Economic Development Commission for their review prior to applying for a building permit.
- 2. Any changes to the plan or in the field will require a resubmission the Commission before making any changes.
- 3. Reason for approval is that it meets the Planning & Zoning regulations.

Work is to commence within (1) one year and completed in (5) five years.

If you have any questions please call. I have also attached a copy of the legal notice for you review.

Sincerely,

Denis J. Kiordan

Chairman

DJR: cpc



PLANNING & ZONING COMMISSION

Bethel Municipal Center 1 School Street, Bethel, Connecticut 06801 *(203) 794-8519

November 15, 2000

Esther McNany SBA, Inc./ Nextel Communications/Sprint PCS 125 Shaw Street New London, CT 06320

RE: SBA, Inc. - 11 Francis J. Clarke Circle

Dear Ms. McNany,

At the November 14, 2000 meeting of the Planning & Zoning Commission it was voted to approve your revised site plan application for 11 Francis Clarke Circle on maps dated 2/17/98 last revised 11/5/00 with the following stipulations:

- 1) The resolution granting the original approval, dated 4/16/99, including all stipulations must be adhered to.
- 2) Any further changes in the site plan must be submitted to this Commission.

I have attached a copy of the legal notice for your review. Please be advised that work is not to commence until bonds are submitted and maps are signed and filed

Sincerely,

Denis J. Riordan

Chairman

LANNING & ZONING COMMISSION

Bethel Municipal Center 1 School Street, Bethel, Connecticut 06801 *(203) 794-8519

APPEAR IN THE BETHEL BEACON AS SOON AS POSSIBLE

LEGAL NOTICE

At the Novemebr 14, 2000 Planning & Zoning Commission meeting the following were voted:

APPROVED WITH STIPULATIONS:

STEINER INC REVISED SITE PLAN 2 RESEARCH DRIVE

APPROVED WITH STIPULATIONS:

SBA INC REVISED SITE PLAN 11 FRANCIS CLARKE CIRCLE

Dated this 16th day of November, at Bethel, Connecticut.

Denis J. Liordan & Denis Riordan & Chairman

RECEIVED



PLANNING & ZONING COMMISSION

Bethel Municipal Center 1 School Street, Bethel, Connecticut 06801 *(203) 794-8519

April 15, 2002

Attorney Susan A. Hays One State St P.O. Box 231277 Hartford Ct 06123-1277

RE: SBA Telecommunications Tower

11 Francis J. Clarke Circle

Dear Ms. Hays,

At the April 9, 2002 meeting of the Planning & Zoning Commission it was voted to **APPROVE** your request for <u>reinstatement</u> of the terms and conditions of the original the Site Plan for the proposed SBA, Inc. telecommunications facility and antennas for Sprint and Nextel at 11 Francis J. Clarke Circle with the following stipulations:

- 1. Except as modified by this approval, improvements shall be constructed as shown on drawings prepared by Gesick & Associates, P.C., Robert J. Grabarek, P.E. (CT Lic # 13441), as follows:
 - a) "SBA, Inc., #4276 Bethel (Costa Property II), 11 Francis J. Clarke Circle, Bethel, Connecticut," Sheet T-1, last revised 1/22/99;
 - b) "Comprehensive Site Plan," Sheet C-1, last revised 1/22/99 (Note: the northerly setback is shown correctly at 212.5 feet, but the arrow is shown only to the 25-foot rear setback line and should be extended to the property line.);
 - c) "Site Plan and Elevations," Sheet C-2, last revised 1/22/99 (added Sprint);
 - d) "Site Details," Sheet C-3, last revised 4/6/99;
 - c) "General Notes and Erosion Control Narrative," Sheet C-4, dated 6/20/98.
- 2. Applicant shall furnish the Economic Development Commission of the Town of Bethel with a copy of the plans, and shall furnish proof of transmittal to the Planning and Zoning Commission prior to the issuance of any zoning and building permits for the project.
- 3. Any changes in the approved plan shall require the approval of the Planning and Zoning Commission.
- 4. It is the applicant's responsibility to secure any and all permits and approvals required by the Connecticut Siting Council.

5. Pursuant to Sec. 118-22 of the Zoning Regulations, "The approval of any site plan shall be void and shall be of no effect unless construction of the proposed buildings or structures is commenced within one (1) year of the effective date of said approval and is substantially completed within (5) years of the effective date of said approval."

Reasons: The reinstated plan is in substantial compliance with Sec. 118-47.3, "Telecommunications towers and antennas," of the Zoning Regulations of the Town of Bethel and was previously approved by the Commission on 11/14/00, and further by Settlement Agreement dated 8/24/00-9/22/00. In granting the reinstatement of the Site Plan for this application, the Commission makes no decision regarding the property owner's right to apply for additional buildings or structures on the site, in accordance with Bethel zoning regulations in effect at the time of the application.

Sincerely,

Michael J. Mannion

illhard Mannew /ma

Chairman

MJM: cpc





Cellular Division RF Engineering Department

Bechtel Telecommunications Address: 210 Pomeroy Ave Suite 201, Meriden, CT 06450

TEL: 203-639-0640 FAX: 203-238-2068

July 24, 2002

Re:

913-010-513

11 Francis J.Clarke Cir. Bethel ,CT-06801

As per your request, attached is the RF Exposure Analysis for the proposed AT&T Wireless antenna facility located at 11 Francis J.Clarke Cir. Bethel ,CT-06801

Thank you for giving me an opportunity to respond to your inquiry about the safety of this wireless antenna facility. The maximum level of RF energy associated with simultaneous and continuous operations of all transmitters at this facility will be less than safety criteria adopted by the Federal Communications Commission as mandated by the Telecommunications Act of 1996. Therefore, this wireless antenna facility fully complies with FCC.

This antenna facility is an integral part of the wireless infrastructure that provides mobile communication services to individuals, businesses, and safety agencies throughout our community and the nation. People rely on wireless phones for personal safety and security. At the same time, many public service agencies depend on wireless technology to provide disaster relief and emergency services. AT&T Wireless Services is committed to providing safe and efficient wireless communication services to everyone who depends on wireless phones for personal safety, convenience and emergency communications.

Cellular systems use low power radio signals that operate in the same frequency band as UHF television and PCS frequencies have been used by utilities and public safety agencies throughout our communities for years. Wireless antenna facilities transmit low power radio signals to carry telephone conversations. These personal wireless base station antennas typically operate at one hundred watts or less per channel and are placed in inaccessible locations on towers and rooftops. The power density decreases rapidly as one moves away from the antenna, creating very low-level signals at ground level and points of public access. In addition, wireless phones operate at the lowest power needed to maintain contact with the base station – between 0.1-0.6 watts.

Therefore, when new antenna sites are added in a system, the operating power of both the antenna facilities and the phones decreases as the distance between the antenna sites and the phones is reduced.

Wireless antenna facilities comply with FCC rules governing the safety of radio emissions. Under the Telecommunications Act of 1996, the FCC has exclusive jurisdiction over the safety of RF emissions from personal wireless antenna facilities. Public Law 104-104, Section 704(a)(7)(B)(iv). The FCC rules constitute a national RF exposure standard that reflects the consensus of the federal agencies charged with protecting public health and the environment, including the FDA, EPA, NIOSH, and OSHA. AT&T Wireless Service antenna sites comply with all FCC rules regulating RF emissions and safety.

The Telecommunications Act of 1996 recognizes the importance of ensuring the integrity of wireless communication networks that provide nationwide communication services. Nevertheless, we understand people's concerns about health and safety and we recognize our responsibility to address those concerns. Consequently, I have prepared the attached power density report to demonstrate that the 11 Francis J Clarke Cir. antenna facility site will comply with FCC regulations governing the safety of RF emissions. The report indicates that under maximum operating conditions, the highest power density in a publicly accessible area is 0.000753 milliwatts per square centimeter; 1327 times lower than the maximum permissible limit allowed for the public at our operating frequency.

Wireless communication services make people and communities safer by providing mobile communications support for law enforcement, disaster relief, and personal emergencies. Wireless antenna facilities carry the calls that support the needs of our customers and communities. I hope that the enclosed report answers your questions regarding the safety of this site. If you have any additional questions about this site, I may be reached at (203)-639-0682.

Very truly yours,

Vishal Katercia Vishal Kataria RE Engineer

RF Engineer

Bechtel Telecommunications.

AT&T Wireless Services, Inc.





RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility

SITE ID: 913-010-513

July 24, 2002

Prepared by AT&T Wireless Services, Inc. Vishal Kataria RF Engineer

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1. Introduction

This report constitutes an RF exposure analysis for the proposed AT&T Wireless antenna facility to be located at 11 Francis J Clarke Cir. Bethel, CT-06801. This analysis uses site-specific engineering data to determine the predicted levels of radio frequency (RF) electromagnetic energy in the vicinity of the proposed facility and compares those levels with the Maximum Permissible Exposure (MPE) limits established by the Federal Communications Commission.

2. Site Data

Site Name: Bethel	
Number of simultaneously operating channels	12
Type of antenna	Allgon 7250.03
Power per channel (Watts ERP)	250.0 Watts
Height of antenna (feet AGL)	125 feet
Antenna Aperture Length	5 feet

3. RF Exposure Prediction

The following equations established by the FCC, in conjunction with the site data, were used to determine the levels of RF electromagnetic energy present in the vicinity of the proposed facility.

PowerDensity =
$$\frac{0.64 * N * EIRP(\theta)}{\pi * R^2} (mW/cm^2)$$
 Eq. 1-Far-field

Where, N= Number of channels, R= distance in cm from the RC (Radiation Center) of antenna, and $EIRP(\theta) =$ The isotropic power expressed in milliwatts in the direction of prediction point. This is the correct equation for antennas which have their gain expressed in dBi, which is the usual case for the PCS bands.

PowerDensity =
$$\frac{P_{in} / ch * N * 10^{3}}{2 * \pi * R * h * \alpha / 360}$$
 (mW/cm²) Eq. 2-Near-field

Where P_{in}/ch = Input power to antenna terminals in watts/ch, R = distance to center of radiation, h = aperture height in meters, $\alpha = 3$ dB beam-width of horizontal pattern.

⁻

¹ RF exposure is measured and predicted in terms of power density in units of milliwatts (mW), a thousandth of a watt, or microwatts (μ W), a millionth of a watt, per square centimeter (cm²). Data comparing predictive analysis with on site measurements has demonstrated that power density can be effectively predicted at given locations in the vicinity of a wireless antenna facility.

4. FCC Guidelines for Evaluating the Environmental Effects of RF Radiation

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by a Second Memorandum Opinion and Order. These new rules represent a consensus of the federal agencies responsible for the protection of public health and the environment, including the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), the National Institute for Occupational Health and Safety (NIOSH), and the Occupational Safety and Health Administration (OSHA).

Under the laws that govern the delivery of wireless communications services in the United States, as amended by the Telecommunications Act of 1996, the FCC has exclusive jurisdiction over RF emissions from personal wireless antenna facilities, which include cellular, PCS, messaging and aviation sites. ² Pursuant to its authority under federal law, the FCC has established rules to regulate the safety of emissions from these facilities.

5. Comparison with Standards

Exhibit A shows the levels of RF electromagnetic energy as one moves away from the antenna facility. As shown in Exhibit A, the maximum power density is 0.000753 mW/cm² which occurs at 1.100 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000289 mW/cm² at a distance of 1 feet. Table 1 below shows the Maximum Permissible Exposure (MPE) limits established by the FCC. There are different MPE limits for public/uncontrolled and occupational/controlled environments.

Table 1: Maximum Permissible Exposure limits for RF radiation

Frequency	Public/Uncontrolled	Occupational/controlled	Maximum power density at Accessible location
Cellular	.580 mW/cm ²	2.9 mW/cm ²	0.000753 mW/cm ²
PCS	1 mW/cm ²	5 mW/cm ²	

The maximum power density at the proposed facility represents only 0.08% of the public MPE limit for PCS frequencies.

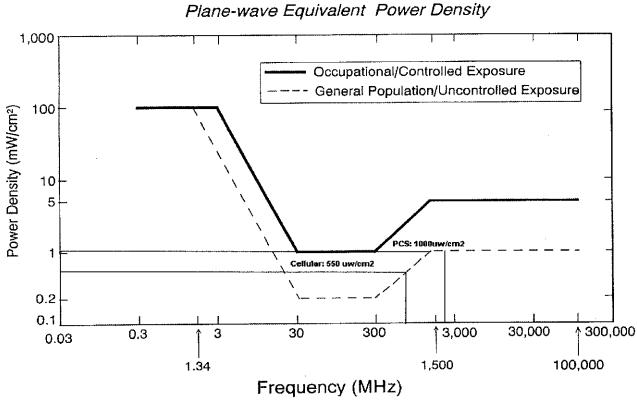
6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.000753 mW/cm², a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

² 47 U.S. C. Section 332 (c) (7)(B)(iv) states that "[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions."

7. FCC Limits for Maximum Permissible Exposure

FCC Limits for Maximum Permissible Exposure (MPE)



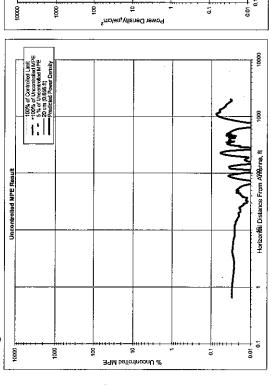
8. Exhibit A



Antenna System Two

10000

1000



Number of Antenna Systems: Meets FCC Controlled Limits for The Antennas Systems.

Meets FCC Uncontrolled Limits for The Antenna Systems.

Meets 5% of FCC Uncontrolled Limits for The Antenna Systems.

No Further Maximum Permissible Exposure (MPE) Analysis Required.

	Powe	Power Density	@Horiz. Dist.
	mW/cm²	% of limit	feet
Maximum Power Density = 0.000753	0.000753	80.0	1100.00
1,327.83 times lower than the MPE limit for uncontrolled environment	uncontrolled en	ironment	
Commosite Power (FRP) = 9 Min Matte	00,000	Watte	

10-513		ncis J Clarke Cir.	Bethel (T-06801
Site ID: 907-010-513	Site Name: Bethel	Site Location: 11 Francis J Clarke Cir	Rethe

Vishal Kataria		7/24/02
Performed By:	•	Date:

Jmit ad FCC Limit FCC Limit neily					10000
100% of Controlled Limit 100% of Uncontrolled Foc Limit 5 % of Uncontrolled Foc Limit 15 % of Uncontrolled Foc Limit Practicled Power Density					1000
1:11			A.M.A		10 100 Horizontal Distance from Antonna A
		·			70 Province
				<u> </u>	-

10

Power Density µw/cm²

		units	Value
	Frequency	MHz	1965.00
	# of Channels	#	12
	Max ERP/Ch	Watts	250.00
	Max Pwr/Ch Into Ant.	Watts	98'5
)	(Center of Radiator)	feet	125.00
	Calculation Point	feet	00'0
	(above ground or		00'0
	roof surface)		00'0
	Antenna Model No.		Allgon 7250.03
	Max Ant Gain	dBd	16.30
	Down tilt	degrees	2.00
	Miscellaneous Att.	dB	00'0
	Height of aperture	feet	5.11
	Ant HBW	degrees	65.00
	Distance to Ant _{bottom}	feet	122.45
	WOS?	žN/X	u

: AT&T	~	0/120/240
~		_
Ant System ONE Owner:	Sector	Azimenth

Antenna System Two	

Antenna System One

10001

8

10 Horizontal Distance from Antenna, ft

0,01

0.1

Ant System TWO Owner. Sprint
Sector: 3
Azimuth 0/120/240

9. For Further Information

Additional information about the environmental impact of RF energy from personal wireless antenna facilities can be obtained from the Federal Communications Commission:

Dr. Robert Cleveland Federal Communications Commission Office of Engineering and Technology Washington, DC 20554

RF Safety Program: 202-418-2464 Internet address: rfsafety@fcc.gov

RF Safety Web Site: www.fcc.gov/oet/rfsafety

10. References

- [1] The Communications Act of 1934, as amended by the Telecommunications Act of 1996, 47 U.S.C. Section 332 (c)(7)(B)(iv).
- [2] Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Notice of Proposed Rulemaking, ET Docket 93-62, 8 FCC Rcd 2849 (1993).
- [3] Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Report and Order, ET Docket 93-62, FCC 96-326, adopted August 1, 1996. 61 Federal Register 41006 (1996).
- [4] Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation, Second Memorandum Opinion and Order, ET Docket 93-62, adopted August 25, 1997.
- [5] Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields, OET Bulletin 65, August, 1997.

S B A

SITE: BETHEL DESC: 4276

ADDRESS: FAIRFIELD COUNTY

COUNTY: FAIRFIELD, CT

Tue 17-Nov-98 14:26

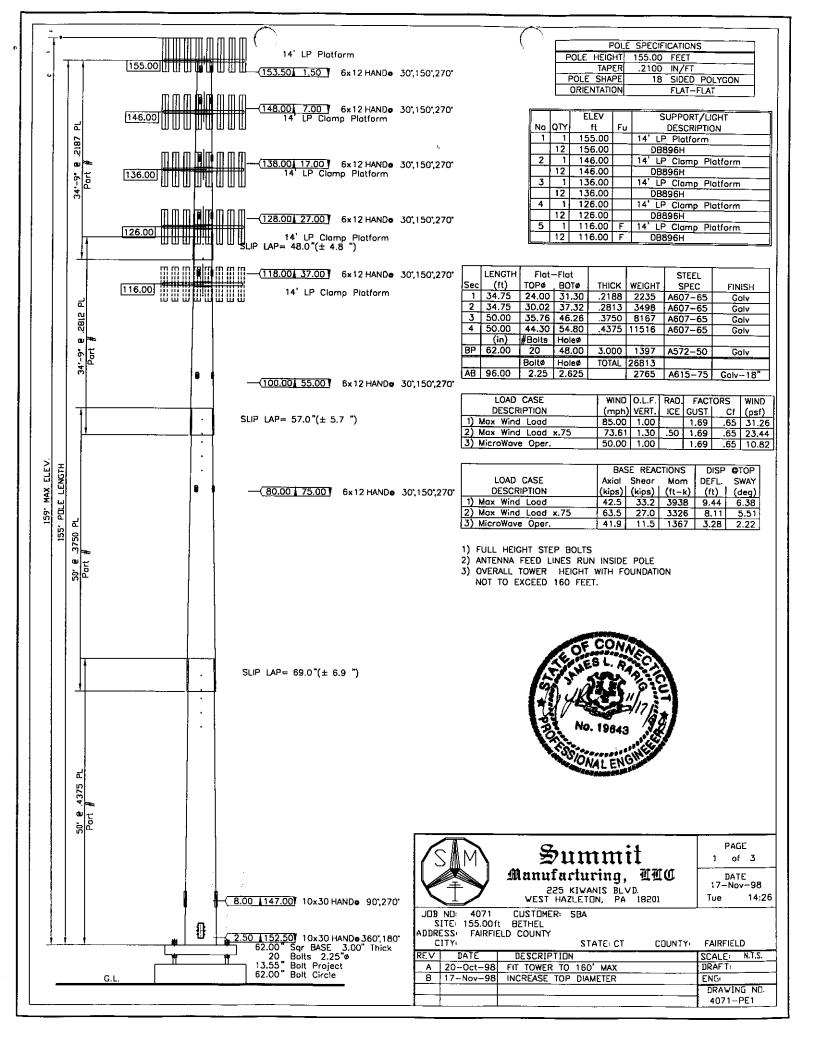
JOB: 4071

RFQ: 98-4114-r3

Revisions

A)20-Oct98 FIT TOWER TO 160' MAX
B)17-Nov98 INCREASE TOP DIAMETER

SUMMIT MANUFACTURING, LLC.
225 KIWANIS BLVD.
WEST HAZLETON, PA 18201
(717) 454-8730 Phone
(717) 454-4851 Fax
www.SummitMfgInc.com



SUMMIT MANUFACTURING, 225 KIWANIS BLVD WEST HAZLETON, PA 18201 USA

CUSTOMER: SBA

SITE NAME: BETHEL

17-Nov-98 14:26 TEL: (717)454-8730 FAX: (717) 454-4851 NET:summitlg@epix.net

REF: 98-4114-r3 JOB:4071

SITE: 4276

24.00 in. [$2\overset{\checkmark}{4}$.37 in. Point-Point] TOP DIAMETER BOTTOM DIAMETER 54.80 in. [55.65 in. Point-Point]

POLE ${\tt HEIGHT}$ 155.00 ft.

29000 ksi [12000 ksi SHEAR MODULUS] E-MODULUS

SHAPE 18 sides FLAT ORIENTATION

APPUR	CENANCE	ATTACH	MENT POIN	TS:				MICRO	WAVE
NO.	X,ft	QTY F	UTURE I	ESCR:	IPTION		DIA		FREQUENCY
1	155.0	0 1	14	' LP	Platfo	rm			2
2	146.0	0 1	1.4	¹ LP	Clamp	Platform			
3	136.0	0 1				Platform			
4	126.0	0 1	14	' LP	Clamp	Platform			
5	116.0	0 1 < F	uture> 14	' LP	Clamp	Platform			
rSECTIO		- .					· 		
BC	MOTTC	THICK	CONNECT	LAP	TAPER	LENGTH	WT.	STEEL	POLE
NO Y	K,ft.	in.	type	in.	in/ft	ft.	lbs	SPEC	finish
									
1 1 7	21 75	21075	CTTD	4.0	2122	24 55	000=	3600 6	- a

110	Α, 1	_ L .		rype	ın.	ın/	IT	It.	Ţ	bs SF	EC	tinis	a
1 2 3 4	34. 65. 110. 155.	.50 .75	.21875 .28125 .37500 .43750	SLIP SLIP SLIP C-Weld	48. 57. 69.	.21 .21 .21	00 00	34.7 34.7 50.0 50.0	5 34 0 81	98 A60 67 A60	7-65 7-65 7-65 7-65	GALV GALV GALV GALV	
SEC	TION	PROP	ERTIES	Area		IZ	IX	VIY			Fy		
Х,	ft	D,i	n T, in	in^2	j	in^4	ir	1^4	w/t	d/t	ksi		
155	.00	24.0	0 .2188	16.51	2	2358	1:	L79	17.58	109.7	65.00	TOP	-P1
150	.00	25.0	5 .2188	3 17.24	2	2684	13	342	18.43	114.5	65.00		
146	- 00	25.8	9 2188	17 82	•	968	1/	1 2 /	10 11	110 /	6E 00		Da

,	-,	-,				W/ C	4/6	1/2 T	
155.00		.2188	16.51	2358	1179	17.58	109.7	65.00	TOP -P1
150.00		.2188	17.24	2684	1342	18.43	114.5	65.00	
146.00			17.82	2968	1484	19.11	118.4	65.00	-P2
141.00		.2188	18.55	3346	1673	19.95	123.2	65.00	
136.00	27.99	.2188	19.28	3756	1878	20.80	128.0	65.00	-P3
131.00	29.04	.2188	20.01	4198	2099	21.64	132.8	65.00	
126.00	30.09	.2188	20.74	4674	2337	22.49	137.6	65.00	-P4
124.25		.2188	20.99	4848	2424	22.79	139.2	65.00	Slip-B1
120.25		.2813	27.30	6448	3224	17.58	109.7	65.00	Slip-T2
116.00	31.75	.2813	28.09	7030	3515	18.14	112.9	65.00	-P5
	32.80	.2813	29.03	7756	3878	18.80	116.6	65.00	
	33.85	.2813	29.97	8530	4265	19.46	120.4	65.00	
101.00	34.90	.2813	30.90	9356	4678	20.12	124.1	65.00	
96.00	35.95	.2813	31.84	10236	5118	20.78	127.8	65.00	
94.25	36.32	.2813	32.17	10556	5278	21.01	129.1	65.00	Slip-B2
89.50	36.75		43.30	14476	7238	15.52	98.0		Slip-T3
	37.80	.3750	44.55	15766	7883	16.01	100.8		-
79.50	38.85	.3750	45.80	17130	8565	16.51	103.6	65.00	
74.50	39.90	.3750	47.05	18572	9286	17.00	106.4	65.00	
69.50	40.95	.3750	48.30	20092	10046	17.49	109.2	65.00	
64.50	42.00	.3750	49.55	21692	10846	17.99	112.0	65.00	
59.50	43.05	.3750	50.80	23376	11688	18.48	114.8	65.00	
54.50	44.10	.3750	52.05	25142	12571	18.98	117.6	65.00	
50.00	45.05	.3750	53.17	26808	13404	19.42	120.1	65.00	Slip-B3
45.00	45.35	.4375	62.36	31778	15889	16.51	103.7		-
44.25	45.51	.4375	62.58	32114	16057	16.58			Slip-T4
39.25	46.56	.4375	64.04	34410	17205		106.4		•

2

Tue 17-No 98 14:26 SBA

BETHEL

JOB: 4071

SECTION	PROPER'	TIES .	Area	IZ	IX&IY		****	Fy	
X,ft	D,in	T,in	in^2	in^4	in^4	w/t	d/t	ksi	
34.25	47.61	.4375	65.50	36814	18407	•	108.8	65.00	
29.25	48.66	.4375	66.96	39328	19664	17.85	111.2	65.00	
24.25	49.71	.4375	68.42	41954	20977	18.27	113.6	65.00	
19.25	50.76	.4375	69.87	44692	22346	18.69	116.0	65.00	
14.25	51.81	.4375	71.33	47550	23775	19.12	118.4	65.00	
9.25	52.86	.4375	72.79	50526	25263	19.54	120.8	65.00	
4.25	53.91	.4375	74.25	53622	26811	19.96	123.2	65.00	
.00	54.80	.4375	75.49	56352	28176	20.32	125.3	65.00 BASE	

REF: 98-4114-r3 JOB:4071

SITE: 4276

LOAD CASE- 1 Max Wind Load

SITE NAME: BETHEL

VERTICAL OLF 1.00 ICE COVER [in.] .00 STRESS REDUCTION .60 STRESS AMPLIFY 1.33



WIND SPEED 85.0 mph 136.8 kph GUST FACTOR 1.69 EXPOSURE COEFF. .2857 Cf .650 REFERENCE HEIGHT 33.0 ft PRESSURE @Ref.Ht 31.3 psf 1496.Pa

BASE ABOVE GROUND .O ft

					JU V L (31000110		7 1 6			
	T	IA/EIA-22	22F	<u>-</u>		+		****			
APPU	JRTENANCE LOADS	3:	Center	ead	ch			FOR	CES	MOMENT	
ELEV	<i>T</i>		Line	WEIGHT	AREA	CABLE	WIND	ki	os——	ft-k-	1
Q:	Y DESCRIPTION	V	Elev-ft	lbs	ft^2	#/ft	psf	- Y	Z	Х	1
1 :	14' LP Platfo				35.0		48.65	4.35	-2.00	-1.1	Da
12			156.00	22	9.1	.920	48.72	.00	-1.98	.0	
2	14' LP Clamp	Platform	146.00	2000	35.0		47.83	4.22	-2.00	-1.1	
1.2	DB896H		146.00	22	9.1	.920	47.81	.00	-1.88	.0	
3 1	L 14' LP Clamp	Platform	136.00	2000	35.0		46.87	4.13	-2.00	-1.0	Da
12	DB896H		136.00	22	9.1	.920	46.85	.00	-1.77	.0	
4	14' LP Clamp								-2.00		
12	2 DB896H		126.00	22	9.1	.920	45.84	.00	-1.66	. 0	
5 3	14' LP Clamp										Da
12	DB896H		116.00	22	9.1	.920	44.77	.00	-1.54	.0	

RESULTS									Fb	
	MIND			ips		TS,ft-k	ips——	STRESS	ALLOW	COMB
X,ft	psf	ShearX	Shear	Y AxiaZ	BendX	BendY	TorqZ	ksi	ksi	RATIO
155.00	31.6	.0	4.9	-3.6	1	.0	.0	.57	51.87	.011
150.00	31.3	.0	5.3	-3.9	-24.8	.0	.0	3.09	51.87	.060
146.00	31.1	. 0	10.2	-7.5	-45.9	. 0	.0	5.40	51.87	.104
141.00	30.8	. 0	10.6	-7.9	-97.0	. 0	.0	9.99	51.87	.193
136.00	30.5	. 0	15.5	-11.5	-149.9	.0	.0	14.28	51.87	.275
131.00	30.1	. 0	15.8	-11.9	-227.3	. 0	.0	19.80	51.87	.382
126.00	29.8	. 0	20.5	-15.4	-306.6	.0	.0	24.85	51.87	.479
124.25	29.7	.0	20.7	-15.7	-342.4	. 0	.0	27.01	51.87	.521
120.25	29.4	.0	21.0	-16.1	-425.2	. 0	.0	25.42	51.87	.490
116.00	29.1	. 0	25.6	-19.8	-514.5	. 0	.0	29.06	51.87	.560
111.00	28.7	. 0	26.0	-20.4	-642.5	.0	.0	33.85	51.87	.653
106.00	28.4	.0	26.3	-21.0	-772.3	. 0	.0	38.08	51.87	.734
101.00	28.0	. 0	26.7	-21.6	-904.2	. 0	.0	41.83	51.87	.806
96.00	27.6	. 0	26.9	-22.1	-1037.5	. 0	.0	45.12	51.87	.870
94.25	27.4	.0	27.1	-22.6	-1084.2	.0	.0	46.18	51.87	.890
89.50	27.0	. 0	27.5	-23.4	-1213.3	. 0	.0	38.09	51.87	.734
84.50	26.6	.0	27.9	-24.2	-1350.8	.0	.0	40.03	51.87	.772
79.50	26.1	.0	28.3	-25.1	-1490.0	. 0	.0	41.74	51.87	.805
74.50	25.6	.0	28.6	-26.1	-1631.7	.0	.0	43.29	51.87	.835
69.50	25.1	.0	29.0	-27.0	-1774.2	.0	.0	44.64	51.87	.861
64.50	24.6	.0	29.3	-28.0	-1919.2	. 0	.0	45.86	51.87	.884
59.50	24.0	.0	29.7	-29.0	-2065.8	.0	.0	46.94	51.87	.905
54.50	23.4	.0	30.0	-29.9	-2214.2	.0	.0	47.91		.924
50.00	22.9	.0	30.3	-30.9	-2349.2	1	.0	48.70	51.87	.939
45.00	22.2	.0	30.5		-2501.7	1	.0	44.02	51.87	.849
44.25	22.1	. 0	30.7		-2524.2	1	.0	44.11	51.87	.850
39.25	21.4	.0	31.1		-2677.5	1	.0	44.67	51.87	.861
34.25	20.5	. 0	31.4		-2833.3	1	.0	45.18	51.87	.871
29.25	19.6	.0	31.7		-2990.0	1	.0	45.62		.880
24.25	18.6	.0	32.0		-3148.3	1	.0		51.87	.887
								10.00	21.07	

Tue 17-No 98 14:26 SBA

BETHEL

JOB: 4071

RESULTS									Fb	
	WIND	FOI	RCES,k:	ips — T	MOMEN	TS,ft-k	ips——	STRESS	ALLOW	COMB
X,ft	psf	ShearX	Shear!	Y AxiaZ	BenďX	BendY	TorqZ	ksi	ksi	RATIO
19.25	17.4	. 0	32.3	-38.6 -	3308.3	1	.0	46.34	51.87	.893
14.25	16.0	. 0	32.6	-39.9 -	3469.2	1	.0	46.62	51.87	.899
9.25	14.1	. 0	32.9	-41.2 -	3632.5	1	.0	46.88	51.87	.904
4.25	11.3	. 0	33.2	-42.5 -	3797.5	1	.0	47.10	51.87	.908
.00	.0	. 0	33.2	-42.5	3938.3	.1	.0	47.24	51.87	.911
DISPLAC	EMENTS					· ·				,
		DEFLE	ECTION	ft		RC	TATION,	dea	M	icroW
X,ft.	X	Y	\mathbf{Z}	XY-	Result	X	Y		I	AlloW
155.00	.00	9.44	39	9.44<	6.09%>	-6.38	.00		5.38	
146.00	.00	8.44	33	8.44<	5.78%>	-6.34	.00	.00 6	5.34	
136.00	.00	7.35	27	7.35<	5.40%>	-6.18	.00	.00 6	5.18	
126.00	.00	6.30	22	6.30<	5.00%>	-5.87	.00	.00 5	5.87	
116.00	.00	5.31	17	5.31<	4.57%>	-5.48	.00	.00 5	5.48	

CUSTOMER: SBA

SITE NAME: BETHEL

17-Nov-98 14:26 REF: 98-4114-r3 JOB:4071

SITE: 4276

73.6 mph 118.5 kph

LOAD CASE- 2 Max Wind Load x.75

> VERTICAL OLF 1.30 ICE COVER [in.] .50 STRESS REDUCTION .60 STRESS AMPLIFY 1.33

|W| II $\|\mathbf{N}\|$ ם

WIND SPEED GUST FACTOR 1.69 EXPOSURE COEFF. .2857 .650 REFERENCE HEIGHT 33.0 ft PRESSURE @Ref.Ht 23.4 psf 1122.Pa

BASE ABOVE GROUND .0 ft

_	TIA/EIA-222F												
ΑI	PU.	RTENANCE LOADS		Center	ea	ch			FOR	CES	MOMENT		
	ĿEV			Line	WEIGHT	AREA	CABLE	WIND			ft-k-		
		Y DESCRIPTION				ft^2	#/ft	psf	- Y	Z	X		
1	1	14' LP Platfo	orm	155.00	2200	39.0		36.49	3.64	-2.86	9 Da		
	12						.920	36.54	.00	-3.21	. 0		
2	1	14' LP Clamp						35.87			9 Da		
	12						.920	35.86	.00	-3.08	. 0		
3	1	14' LP Clamp	Platform	n 136.00	2200	39.0		35.15	3.46	-2.86	9 Da		
	12						.920	35.14	.00	-2.93	.0		
4	1	14' LP Clamp	Platform	n 126.00	2200	39.0		34.40	3.38	-2.86	8 Da		
	12					9.9		34.38	.00	-2.79	. 0		
5	1	14' LP Clamp						33.60		-2.86	8 Da		
	12	DB896H		116.00	63	9.9	.920	33.57	.00	-2.65	.0		
RE	ESU:	LTS			· · · · · · · · · · · · · · · · · · ·					Fb			

resonia									F.D	
	WIND		RCES, k			TS,ft-k	ips——	STRESS	ALLOW	COMB
X,ft	psf	ShearX	Shear	Y AxiaZ	BendX	BendY	TorqZ	ksi	ksi	RATIO
155.00	23.7	.0	4.4	-5.9	1	. 0	.0	.59	51.87	.011
150.00	23.5	.0	4.6	-6.3	-21.8	. 0	.0	2.89	51.87	.056
146.00	23.3	.0	9.0	-12.4	-40.4	.0	.0	5.06	51.87	.098
141.00	23.1	.0	9.3	-12.9	-85.3	.0	.0	9.10	51.87	.175
136.00	22.8	.0	13.6	-18.9	-131.7	.0	.0	12.99	51.87	.250
131.00	22.6	.0	13.8	-19.4	-199.4	. 0	.0	17.82	51.87	.344
126.00	22.3	.0	17.9	-25.2	-268.8	.0	.0	22.35	51.87	.431
124.25	22.3	. 0	18.1	-25.6	-300.1	.0	.0	24.24	51.87	.467
120.25	22.0	. 0	18.3	-26.2	-372.3	.0	. 0	22.70	51.87	.438
116.00	21.8	.0	22.3	-32.1	-450.1	.0	.0	25.95	51.87	.500
111.00	21.6	.0	22.5	-32.9	-561.4	.0	.0	30.10	51.87	.580
106.00	21.3	.0	22.8	-33.8	-674.1	. 0	.0	33.75	51.87	.651
101.00	21.0	.0	23.0	-34.7	-787.9	.0	. 0	36.96	51.87	.713
96.00	20.7	.0	23.2	-35.3	-903.3	.0	. 0	39.79	51.87	.767
94.25	20.6	.0	23.3	-36.0	-943.3	. 0	.0	40.69	51.87	.784
89.50	20.3	.0	23.6	-37.1	-1054.2	.0	.0	33.48	51.87	.646
84.50	19.9	.0	23.8	-38.3	-1171.7	. 0	. 0	35.11	51.87	.677
79.50	19.6	.0	24.0	-39.5	-1290.8	.0	.0	36.55	51.87	.705
74.50	19.2	.0	24.3	-40.8	-1410.8	.0	.0	37.82	51.87	.729
69.50	18.9	.0	24.5	-42.1	-1532.5	.0	.0	38.95	51.87	.751
64.50	18.5	.0	24.7	-43.4	-1655.0	.0	. 0	39.94	51.87	.770
59.50	18.0	.0	25.0	-44.8	-1779.2	. 0	.0	40.82	51.87	.787
54.50	17.6	.0	25.2	-46.1	-1903.3	. 0	.0	41.58	51.87	.802
50.00	17.2	.0	25.4	-47.5	-2016.7	.0	. 0	42.20	51.87	.814
45.00	16.7	.0	25.5	-48.4	-2143.3	.0	.0		51.87	.734
44.25	16.6	.0	25.6	-49.3	-2162.5	.0	.0	38.13	51.87	.735
39.25	16.0	.0	25.8	-51.0	-2290.8	.0	. 0		51.87	.744
34.25	15.4	.0	26.0		-2419.2	1	. 0		51.87	.751
29.25	14.7	.0	26.2		-2549.2	1	.0		51.87	.757
24.25	14.0	.0	26.3		-2680.0	1	.0		51.87	.762
				_	•		. •	-		

Tue 17-No 98 14:26 SBA BETHEL JOE

JOB: 4071

RESULTS					90		•		Fb	
	WIND	FO:	RCES, k	ips	_ —MOMEN	TS,ft-k	ips—	STRESS	ALLOW	COMB
X,ft	psf	ShearX	Shear	Y AxiaZ	BendX	BendY	TorqZ	ksi	ksi	RATIO
19.25	13.1	.0	26.5	-58.0	-2811.7	1	.0	39.75	51.87	.766
14.25	12.0	. 0	26.7	-59.8	-2944.2	1		39.93		
9.25	10.6	.0	26.9	~61.7	-3077.5	1	.0	40.08	51.87	.773
4.25	8.5	. 0	27.0	-63.5	-3211.7	1	.0	40.20	51.87	.775
.00	.0	.0	27.0	-63.5	3326.7	.1	.0	40.27	51.87	.776

DISPLACEM	IENTS								
		DEFLI	ECTION	ft.	RC	TATION	, deq-		MicroW
X,ft.	X	Y	\mathbf{Z}	XY-Result	X	Y	_	Y-Res	
155.00	.00	8.11	29	8.11< 5.23%>	-5.51	.00	.00	5.51	
146.00	.00	7.25	25	7.25< 4.96%>	-5.47	.00	.00	5.47	
136.00	.00	6.30	20	6.30< 4.63%>	-5.33	.00	.00	5.33	
126.00	.00	5.39	16	5.39< 4.28%>	-5.06	.00	.00	5.06	
116.00	.00	4.54	13	4.54< 3.91%>	-4.72	.00	.00	4.72	

17-Nov-98 14:26 REF: 98-4114-r3 JOB:4071

SITE NAME: BETHEL

SITE: 4276

LOAD CASE- 3 50.0 mph 80.5 kph WIND SPEED GUST FACTOR $\|\mathbf{w}\|$ MicroWave Oper. 1.69 $\|\mathbf{I}\|$.2857 EXPOSURE COEFF. VERTICAL OLF $\|\mathbf{N}\|$ 1.00 Cf .650 ICE COVER [in.] .00 D REFERENCE HEIGHT 33.0 ft
PRESSURE @Ref.Ht 10.8 psf 518.Pa STRESS REDUCTION .60 STRESS AMPLIFY 1.33 BASE ABOVE GROUND .0 ft ----TIA/EIA-222F---

APPURTENANCE LOADS: Center ——each—— Center ——each—— FORCES MOMENT Line WEIGHT AREA CABLE WIND ——kips———ft-k— QTY DESCRIPTION Elev-ft lbs ft^2 #/ft psf Y Z 155.00 2000 156.00 22 1 14' LP Platform 35.0 16.84 1.50 -2.00 -.4 Da 12 DB896H 9.1 .920 16.86 .00 -1.98 . 0 35.0 16.55 1.46 -2.00 9.1 .920 16.54 .00 -1.88 2 1 14' LP Clamp Platform 146.00 2000 -.4 Da 12 DB896H 146.00 22 .0 3 1 14' LP Clamp Platform 136.00 2000 35.0 16.22 1.43 - 2.00-.4 Da 12 DB896H 136.00 22 9.1 .920 16.21 .00 -1.77
4 1 14' LP Clamp Platform 126.00 2000 35.0 15.87 1.40 -2.00
12 DB896H 126.00 22 9.1 .920 15.86 .00 -1.66
5 1 14' LP Clamp Platform 116.00 2000 35.0 15.50 1.37 -2.00 .0 -.3 Da .0 -.3 Da 12 DB896H 22 9.1 .920 15.49 116.00 .0 .00 -1.54

RESULTS			.,,			7.0			Fb	1
	WIND	FO:	RCES,k	ips —	MOMEN	TS,ft-k	ips—	STRESS	ALLOW	COMB
X,ft	psf	ShearX	Shear	Y AxiaZ	BendX	BendY	TorqZ	ksi	ksi	RATIO
155.00	10.9	.0	1.7	-4.1	. 0	.0	.0	.31	51.87	.006
150.00	10.8	.0	1.8	-4.3	-8.6	.0	.0	1.25	51.87	.024
146.00	10.8	.0	3.6	-8.4	-16.0	. 0	. 0	2.20	51.87	.042
141.00	10.6	.0	3.7	-8.7	-33.7	. 0	.0	3.80	51.87	.073
136.00	10.5	. 0	5.4	-12.8	-52.2	.0	.0	5.42	51.87	.105
131.00	10.4	. 0	5.5	-13.1	-79.1	. 0	.0	7.34	51.87	.141
126.00	10.3	. 0	7.1	-17.0	-106.7	. 0	.0	9.20	51.87	.177
124.25	10.3	. 0	7.2	-17.2	-119.2	.0	.0	9.96	51.87	.192
120.25	10.2	. 0	7.3	-17.6	-147.9	.0	.0	9.28	51.87	.179
116.00	10.1	. 0	8.9	-21.5	-179.0	.0	.0	10.63	51.87	.205
111.00	9.9	. 0	9.0	-22.0	-223.5	.0	.0	12.29	51.87	.237
106.00	9.8	.0	9.1	-22.5	-268.7	. 0	. 0	13.75	51.87	.265
101.00	9.7	.0	9.3	-23.1	-314.3	.0	.0	15.04	51.87	.290
96.00	9.5	. 0	9.3	-23.5	-360.7	. 0	.0	16.18	51.87	.312
94.25	9.5	.0	9.4	-23.9	-377.1	.0	.0	16.56	51.87	.319
89.50	9.3	. 0	9.6	-24.6	-421.8	. 0	.0	13.62	51.87	.263
84.50	9.2	. 0	9.7	-25.3	-469.6	.0	.0	14.29	51.87	.276
79.50	9.0	.0	9.8	-26.1	-518.0	.0	.0	14.89	51.87	.287
74.50	8.9	.0	9.9	-26.9	-567.0	.0	.0	15.42	51.87	.297
69.50	8.7	. 0	10.1	-27.8	-616.7	. 0	.0	15.90	51.87	.306
64.50	8.5	. 0	10.2	-28.6	-666.9	. 0	.0	16.32	51.87	.315
59.50	8.3	. 0	10.3	-29.5	-717.8	. 0	.0	16.70	51.87	.322
54.50	8.1	. 0	10.4	-30.4	-769.3	. 0	.0	17.03	51.87	.328
50.00	7.9	.0	10.5	-31.3	-816.2	.0	.0	17.30		.334
45.00	7.7	. 0	10.6	-31.9	-869.2	. 0	.0	15.63		.301
44.25	7.6	.0	10.7	-32.5	-876.7	. 0	.0	15.66		.302
39.25	7.4	. 0	10.8	-33.6	-930.0	.0	. 0	15.86		.306
34.25	7.1	. 0	10.9	-34.7	-984.2	. 0	. 0	16.04		.309
29.25	6.8	. 0	11.0	-35.9	-1038.3	. 0	. 0	16.19		.312
24.25	6.4	.0	11.1	-37.1	-1093.3	.0	. 0	16.33		.315
										· - -

Tue 17-No -98 14:26 SBA BETHEL JOI

JOB: 4071

RESULTS									Fb	
	MIND	FOI	RCES,ki	ps —	MOMEN	TS, ft-k	ips——	STRESS	ALLOW	COMB
X,ft	psf	ShearX	ShearY	AxiaZ	BenďX	BendY	TorqZ			
19.25	6.0	.0	11.2	-38.3	-1148.3	.0	.oʻ	16.44	51.87	.317
14.25	5.5	. 0	11.3	-39.5	-1204.2	.0	. 0	16.54	51.87	.319
9.25	4.9	. 0	11.4	-40.7	-1260.8	.0	. 0	16.63	51.87	.321
4.25	3.9	.0	11.5	-41.9	-1318.3	.0	.0	16.72	51.87	.322
.00	.0	.0	11.5	-41.9	1367.5	.0	.0	16.76	51.87	.323
DISPLAC										

DISPLACEM	IENTS								
		DEFLI		ft. 	RC	TATION	, deg-		MicroW
X,ft.	X	Y	\mathbf{Z}	XY-Result	X	Y	ZX	Y-Res	AlloW
155.00	.00	3.28	05	3.28< 2.12%>	-2.22	.00	.00	2.22	
146.00		2.94	04	2.94< 2.01%>	-2.20	.00	.00	2.20	
136.00	.00	2.56	04	2.56< 1.88%>	-2.15	.00	.00	2.15	
126.00	.00	2.19	03	2.19< 1.74%>	-2.04	.00	.00	2.04	
116.00	.00	1.84	02	1.84< 1.59%>	-1.90	.00	.00	1.90	

SUMMIT MANUFACTURING, LC CUSTOMER: SBA

SITE NAME: BETHEL

17-Nov-98 14:26 REF: 98-4114-r3 JOB:4071

SITE: 4276

LOAD CASE SUMMARIES

BASE REACTIONS:	FO	RCES,kįp	s	MOMENT	S,ft-kips	s —
LOAD CASE	X	Y	\mathbf{z}^{\cdot}	X	Υ -	z '
1 Max Wind Load	.00	33.22	-42.52	3938.3	. 1	.0
2 Max Wind Load x.75	.00	27.01	-63.48	3326.7	.1	.0
3 MicroWave Oper.	.00	11.52	-41.91	1367.5	. 0	.0

L											
STRESS EN	VELOPE		ŀ	——COMI	BINED-	. <u></u>				1,	
BOT-UP	TOP		•	STRESS	STRESS	LOAD					
X,ft.	DOWN			ksi	RATIO	CASE	Qty		APP	URTENAI	NCE
155.00	.00-1	TOP	-P1	.59	.011	2				Platfo	
150.00	5.00			3.09	.060	1					
146.00	9.00-2		-P2	5.40	.104	1	(1)	14'	LΡ	Clamp	Platfor
141.00	14.00			9.99	.193	1				1	
136.00	19.00-3		-P3	14.28	.275	1	(1)	14 '	LΡ	Clamp	Platfor
131.00	24.00			19.80	.382	1				-	
126.00	29.00-4		-P4	24.85	.479	1	(1)	14'	$_{ m LP}$	Clamp	Platfor
124.25	30.75	Slip-B1		27.01	.521	1				-	
120.25	34.75	Slip-T2		25.42	.490	1					
116.00	39.00-5		-P5	29.06	.560	1	(1)	14'	$_{ m LP}$	Clamp	Platfor
111.00	44.00			33.85	.653	1				~	
106.00	49.00			38.08	.734	1					
101.00	54.00			41.83	.806	1					
96.00	59.00			45.12	.870	1					
94.25	60.75	Slip-B2		46.18	.890	1					
89.50	65.50	Slip-T3	}	38.09	.734	1					
84.50	70.50			40.03	.772	1					
79.50	75.50			41.74	.805	1					
74.50	80.50			43.29	.835	1					
69.50	85.50			44.64	.861	1					
64.50	90.50			45.86	.884	1					
59.50	95.50			46.94	.905	1					
54.50	100.50			47.91	.924	1					
50.00	105.00	Slip-B3		48.70	.939	1					
45.00	110.00	#2.L		44.02	.849	1					
44.25	110.75	Slip-T4		44.11	.850	1.					
39.25	115.75			44.67	.861	1					
34.25	120.75			45.18	.871	1					
29.25	125.75			45.62	.880	1					
24.25	130.75			46.00	.887	1					
19.25	135.75			46.34	.893	1					
14.25	140.75			46.62	.899	1					
9.25	145.75			46.88	.904	1					
4.25	150.75			47.10	.908	1					
.00	155.00	BASE		47.24	.911	1					

NUMMIT MANUFACTURING, 225 KIWANIS BLVD WEST HAZLETON, PA 18201 USA

CUSTOMER: SBA

SITE NAME: BETHEL

Tu 17-Nov-98 14:26 TEL: (717)454-8730 FAX: (717)454-4851

NET: summitlq@epix.net REF: 98-4114-r3 JOB:4071

SITE: 4276

SHAPE: 18 SIDED POLYGON with FLAT-FLAT ORIENTATION BOLTS QUADRANT SPACED 6.00 in. ON CENTER

DIAMETER = 54.80 in. BASE AXIAL FORCE= -42.5 kips
PLATE = .4375 in. ACTIONS SHEAR X = .0 kips
TAPER = .2100 in/ft SHEAR Y = 33.2 kips
POLE Fy = 65.00 ksi X-AXIS MOM = 2784.4 ft-k
SIGN CASE = 1
Iax Wind Load Z-AXIS TOR = .0 ft-k POLE DATA DESIGN CASE = 1 Max Wind Load Z-AXIS TOR = .0 ft-k Design: ANY Orientation Reactions at 45.00 deg to X-AXIS.

AXIAL - COMPRESSION = 154.55 kips
AXIAL - TENSION = 150.30 kips
SHEAR = 2.35 kips
STRESS = 47.56 ksi
STRESS = .77 ksi STRESS
STRENGTH Fy = 75.00 ksi RATIO BOLT LOAD SHEAR
AXIAL STRESS
SHEAR STRESS YIELD STRENGTH Fy RATIO ALLOW STRENGTH Fa [$.60 \times 1.33$] = 59.85 ksi.795 EIA TENSION AREA REQUIRED = 2.58 in^2 TENSION AREA FURNISHED = 3.25 in^2 ROOT AREA FURNISHED = 3.07 in^2

USE: 20 BOLTS on 62.00 in. BOLT CIRCLE 2.250 in. DIA. 77.46 in. EMBEDDED SHIP 13.55 in. EXPOSED 96.00 in. TOTAL LENGTH 2765 _____ Lbs =

BOND

STRESS --- Fc -----

BASE PLATE [Bend Model: Flat- 17]
YIELD STRENGTH = 50.0 ksi
BEND LINE WIDTH = 33.0 in.
PLATE MOMENT = 1760.0 in-kips
THICKNESS REQD = 2.83 in.
BENDING STRESS = 35.5 ksi
ALLOWABLE = 39.9ksi [Fy x .60 x 1.33]

USE PLATE
3.00 in. THICK
62.00 in. SQUARE
48.0 in. CENTER HOLE SHIP
14.0 in. CORNER CLIP 1397
Lbs ==== Lbs =

FORCES—MOMENTS—ABolt-Str Plate-Str BOND— LOAD AXIAL SHEAR -X- -Y- TorQ Act Allow Act Allow Design CASE kips kips ft-k ft-k ksi ksi ksi ksi psi psi Code 50.% of Cap. 1939.4 1939.4 32.7 75.0 24.4 50.0 147 294 1 -42.5 33.2 3938.3 .1 .0 47.6 59.9 35.5 39.9 235 262 EIA 2 -63.5 27.0 3326.7 .1 .0 40.6 59.9 30.3 39.9 194 262 EIA 3 -41.9 11.5 1367.5 .0 .0 16.9 59.9 12.6 39.9 53 262 EIA



PLANNING & ZONING DEPARTMENT

Bethel Municipal Center, 1 School Street Bethel, Connecticut 06801 (203) 794-8519

Mr. S. Derek Phelps Connecticut Siting Council Ten Franklin Square New Britain, CT 06051 RECEIVEDS, 2002

SEP - 6 2002

CONNECTICUT SITING COUNCIL

Re:

EM-SBA-009-020809 - SBA, Inc.

Co-location on tower to be constructed at 11 Francis J. Clarke Circle

Bethel, Connecticut

Dear Mr. Phelps:

The Planning and Zoning Commission, at its meeting held on August 27, 2002, reviewed the proposal of SBA, Inc. to "modify an existing telecommunications facility located at 11 Francis J. Clarke Circle" in the Town of Bethel, to allow co-location of additional carriers AT&T and Sprint.

Please be advised that the Planning and Zoning Commission has no objection to the proposal for co-location of additional antenna, provided that all equipment and facilities are constructed within the previously approved "lease area" as shown on drawings presented to the Planning and Zoning Commission, which approval was renewed on April 9, 2002.

Please also note that, to our knowledge, the tower is not an "existing facility" because it has not yet been constructed.

Thank you for this opportunity to comment on the proposal.

Very truly yours,

Betty Brosius

Planning & Zoning Official

Michael J. Mannion, Chairman, Planning and Zoning Commission Judith Novachek, First Selectwoman

Connecticut Siting Council



Approved by Council	_	•	File I.D. <u>~///~ S</u>	BA-009-020	<i>70</i> 9
Date Complete:	_			ids D. Clarke	~
Site visit required?	- -		Beth	el	
Cha	-				
Cne	ecklist for Exempt Mod	lifications and To	ower Sharing		
1. Tower Owner <u>SA</u>					
2. Proposed Carrier ATOT	ATAT-6 parel 8	Higon 7250.03	A-125		
Number of antennas _	$\frac{G_{0}}{A} = \frac{1}{1}$ Type 1) B	<u> 180690 </u>	ght Exten	sion	
Other proposed equip					
Proposed size/location	n of equipment building/ca	binets: <u>eapmo</u>	CADS on C	une pads w	Componi
Proposed site clearing	g/grading:				v
Fence fine modificatio					
Other proposed items	· 				
3. Current carriers:	Height:	157	Power density	%:	<i>つ</i> る
				·	
4 Devember de la					
4. Power density calculation:).
5. Town approval date (if nec	essary): 4/1/7 40	Town application	date (if necessary):		
6. Structural analysis:	mods no	OCS			
7. Coordinates Latit	tude: $41-21-36.8$	Longitude: 1	3-25-30.03	Elevation:	411)
8. Town(s) CEO notified of ap			· · · · · · · · ·	, · · · · · .	
Site Visit Information		3/28/02		· ·	
9. Description of site features Afte behind of	, surrounding land uses, a	nd sight lines:			
Arte behind the	= conto in the	us sarte.	100 55 \$ 100 0	a list	
4 14 2 %		Policy	ronjathce	is in signer	
				· ·	
Issues:	ha An 1-10	and lit	to antilly	a confunt	in /
I all all all	John Jake	alors m	in way vi	V CANDION OF	× * /
Issues: tower approved lityation resolve	ed/construct	- to begn	- Som/	reapproved 4	/a/oz
Filing Documentation for N	leeting				

Betty Brosiue, Planning and Zoning Official Town of Bethel Municipal Center 1 School Street Bethel, CT 05801

Phone 203-794-8519 FAX 203-794-8595







SEP -5 2002

CONNECTICUT SITING COUNCIL

TO:	S. Derek Pheips	•·····································	From:	Betty Brosius, P&	Z Official
Fax:	860-827-2950		Pages:		
Phone:	860-827-2935		Date:	9/5/2002	
Re:	11 Francis J. Clarke Circ	de - SBA	CCi	none	
□ Urge	nt 🗆 For Review	□ Pleaso Co	mment	□ Please Reply	☐ Please Recycle
• Comm	ments:				
If possit neeting.	ble, we would like these	brief comment	is included i	n the review of SE	BA proposal for today's
Thank yo	ou.	- ·			



PLANNING & ZONING DEPARTMENT

Bethel Municipal Center, 1 School Street Bethel, Connecticut 06801 (203) 794-8519



September 5, 2002

Mr. S. Derek Phelps CONNECTICUT Connecticut Siting Cosciling COUNCIL Ten Franklin Square New Britain, CT 06051

Re:

EM-SBA-009-020809 - SBA, Inc.

Co-location on tower to be constructed at 11 Francis J. Clarke Circle

Bethel, Connecticut

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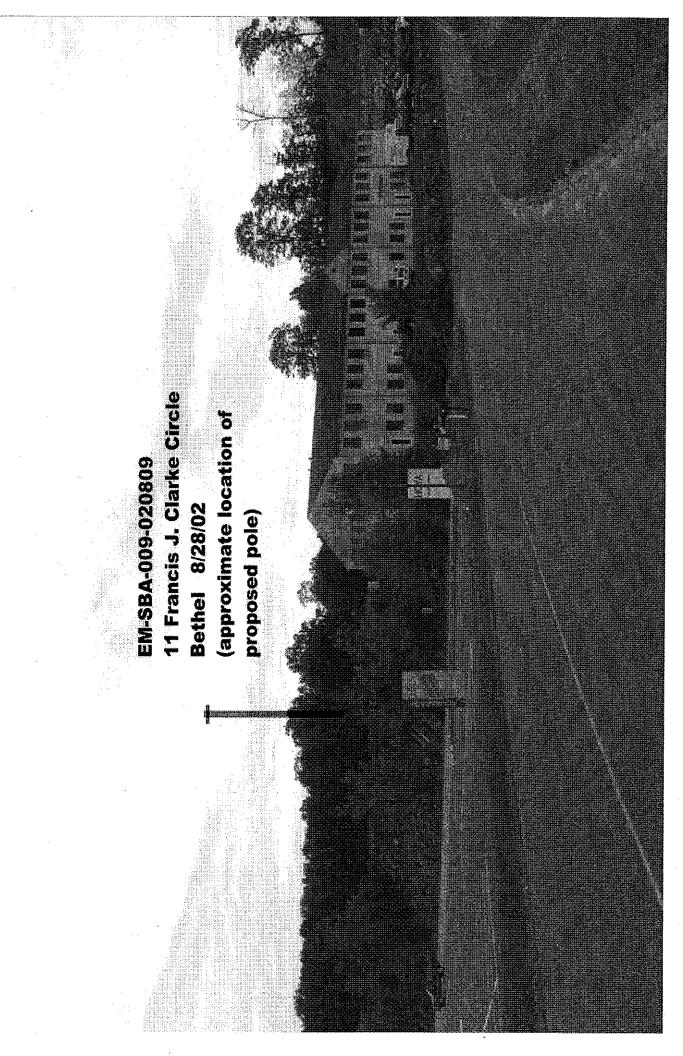
Thank you for this opportunity to comment on the proposal.

Very truly yours,

Betty Brosius

Planning & Zoning Official

Michael J. Mannion, Chairman, Planning and Zoning Commission CC: Judith Novachek, First Selectwoman



RECEIVED

66 Ridgedale Road Bethel, CT 06801 August 19, 2002

AUG 2 2 7002

CONNECTICUT SITING COUNCIL

Mr. Derek Phelps, Executive Director Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

Dear Mr. Phelps:

Realizing what I do about the authority of the Siting Council to review and approve sites for telecommunications towers, I have just two brief points to make regarding two recently installed towers in the Town of Bethel: one at Sky Edge Lane and the other at Chimney Drive.

First, work on both of these installations occurred on weekends. As an adjacent property owner, I wonder why noisy construction work had to be done on weekends, particularly on Sundays. The Siting Council, with its authority, should insist on the observance of local practices avoiding construction on Sundays for any reason.

Second, there are now three towers located on three consecutive 345kv power lines. Although I comprehend the desirability of utilizing existing "towers", I question the advisability of three consecutive installations in a residential area. When I look north at the parade of 345kv "towers", I don't see any installations through the industrial park and on into less residential areas. Given the concerns about the health and esthetic factors regarding these towers,

the Siting Council should be more careful about the placement of so many power lines and telecommunications towers in residential areas.

Local Planning and Zoning Commissions, of course, would be more protective of their local residents. The Siting Council must now assume much of that responsibility. I am anxious about this being the case given my most recent observations.

Sincerely,

CC:

Joan Gereg-Bradley

Joan Gereg-Bradley

State Senator David Cappiello

State Representative David Scribner

Bethel Planning and Zoning Official Betty Brosius

HURWITZ & SAGARIN, LLC

Facsimile Cover Sheet

RECEIVED

AUG 23 2002

CONNECTICUT SITING COUNCIL

To: Mr. David Martin

Staff Analyst

Telephone: Connecticut Siting Council

860-827-2935

Fax: 860-827-2950

From: Julie M. Donaldson, Esq.

Company: Hurwitz & Sagarin, LLC

Phone: 203-877-8000

Fax: 203-878-9800

Date: 8/9/02

SUPPLEMENTAL MESSAGE:

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please notice us immediately by telephone and return the original message to us at the above address via the U.S. Postal Service. Thank you.

CONNECTICUT

SITING COUNCIL

HURWITZ & SAGARIN LLC

August 23, 2002

Via Facsimile and First Class Mail

Mr. David Martin Staff Analyst Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Re:

Notice of Exempt Modification 11 Francis J. Clarke Circle Bethel, Connecticut

Dear Mr. Martin

As you requested, enclosed please find a "2C" letter dated September 5, 2000 that includes the latitude and longtitude of the above referenced site.

Please let me know if you have any other questions.

Sincerely,

Julie M. Donaldson

JMD/rr

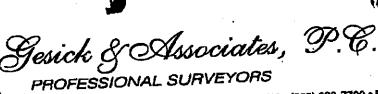
cc: Mark Roberts, SBA

Network Services, Inc.;

860 659 9140;

Aug-23-02 10:45AM;





SUBVEYORS

18 CEDAR ISLAND AVENUE - CLINTON, CT 06413 - (850) 869-7799 - Fax (860) 869-5833 - www.gasickeurveyors.com

September 5, 2000

Mr. Eric Pearson SBA, Inc. 80 Eastern Bivd. Glastonbury, CT 06033

RE: 11 Francis J. Clarke Circle - Bethel, Connecticut

Dear Mr. Pearson,

This letter is in reference to a proposed cellular site located at 11 Francis J. Clarke Circle in Bethel, Connecticut.

I hereby certify to "2-C" tolerances the following information:

NAD 83 State Plane

N 692648

E 814697

Latitude

N 41°-21'-36.27"

Longitude

W 73°-25'-30.03"

NGVD 1929

411'

Latitude/Longitude/Elevations were obtained utilizing Total Stations referenced to Conn DOT Baseline Station. Latitude/Longitude are referenced to NAD83 Connecticut zone. Coordinates shown, if any, are expressed in US feet. Elevations are referenced to NGVD 1929.

Ü

Donald



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

August 15, 2002

Via Facsimile

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

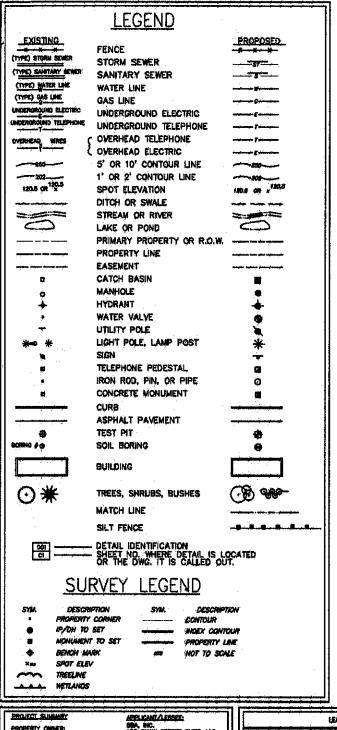
RE: EM-SBA-009-020809 - Notice of Exempt Modification for Telecommunications Tower at 11 Francis J. Clarke Circle, Bethel, Connecticut

Dear Atty. Donaldson:

For the above referenced filing, please provide the latitude and longitude coordinates for the proposed tower.

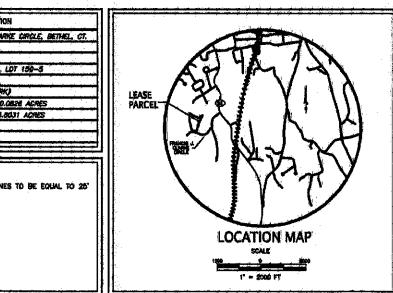
Should you have any questions on this request, feel free to call me at the above number. Thank you for your assistance in this matter.

David Martin Siting Analyst I



#4276 BETHEL (COSTA PROPERTY II)

11 FRANCIS J. CLARKE CIRCLE BETHEL, CONNECTICUT





Drawing Index

RAWING	TITLE
T1	TITLE SHEET & INDEX
C1	COMPREHENSIVE SITE PLAN
C2	SITE PLAN
C4	GENERAL NOTES & EROSION CONTROL NARRATIVE

Gesick & Associates P.C.

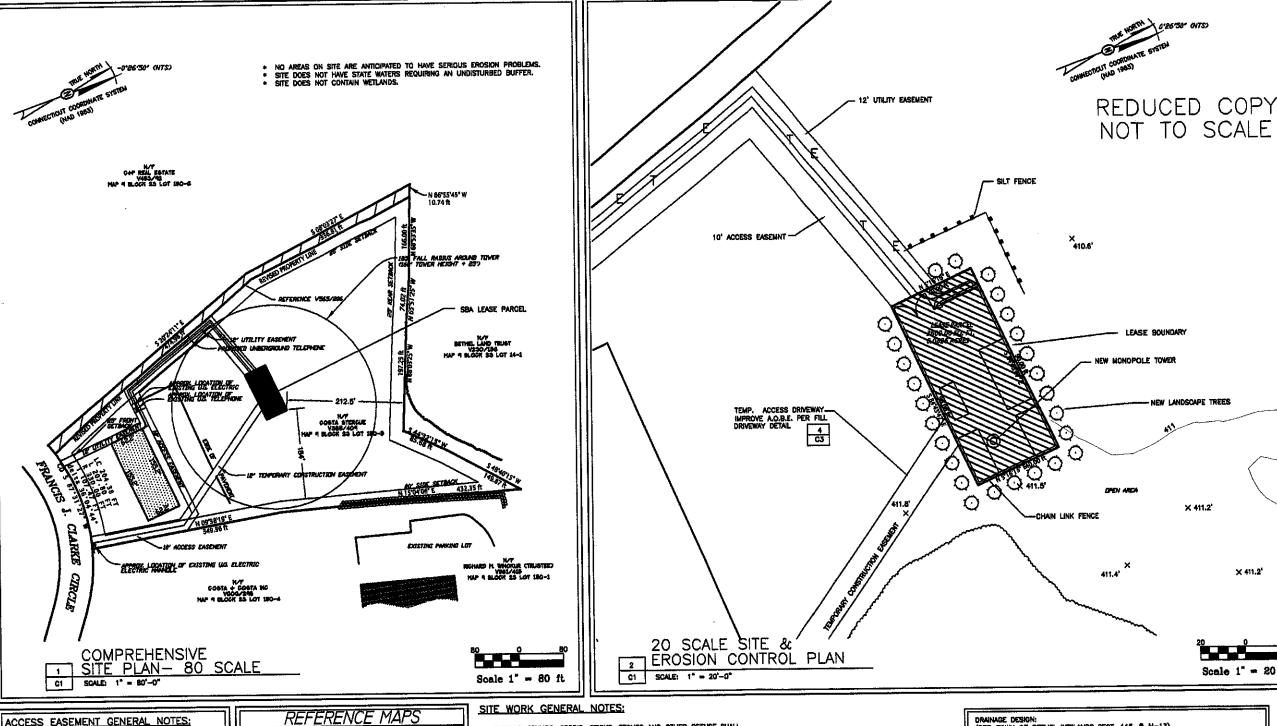
DATE: 2.17.98 DRAWN BY: SK

(COSTA PROPERTY

SBA Site: #4276 BETHEL (

Title Sheet & Index

PROPERTY OWNER: COSTA STERQUE 8 COROTHY ROAD REDDING, CONNECTO 11 FRANCIS J. CLARKE CIRCLE, BETHEL, CT.



ACCESS EASEMENT GENERAL NOTES: ACCESS EASEMENT GENERAL MOTES.

1. ACCESS DAVE TO BE IMPROVED TO A MINIMUM OF 10' IN WIDTH, THE ACCESS SHALL BE MAINTAINED AND OR IMPROVED TO ALLOW CONSTRUCTION AND MAINTENANCE EQUIPMENT TO THE SITE, GRADES OF THE ACCESS SHALL MATCH EXISTING GRADES WITH MINOR GRADE MODIFICATIONS.

2. WHERE ACCESS DRIVE REQUIRES IMPROVEMENTS
DETERMINED BY THE OWNERS CONSTRUCTION REPRESENTATIVE
IN THE FIELD THE ACCESS SHALL BE IMPROVED TO BE 10' IN
WIGHTH, CONSTRUCTION SHALL CONSIST OF A MINIMUM OF 8"
OF COMPACTED GRAVEL MATERIAL OVER A GEOTEXTILE FABRIC
WITH A MINIMUM 180 MIL THICKNESS. THE DRIVE SHALL BE
INSTALLED TO MATCH EXISTING GRADE WITH MINOR GRADE
MODIFICATIONS.

3. GRAVEL MATERIAL SHALL BE AN EVENLY GRADED MIXTURE OF PROCESSED CRUSHED STONE WITH 100% PASSING THE A 1-1/2" SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE OR AS DITHERWISE SHOWN ON THE CONTRACT

4. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE STATE OF CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

5, THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

8. AUTHORIZATION FOR ACCESS TO AND WORK WITHIN PUBLIC ROAD R.O.W. SHALL BE OBTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL ADHERE TO ALL SPECIAL REQUIREMENTS SPECIFIED IN THE AUTHORIZATION.

PREMIED BY LOND-WOOD, LARSON ASSOC. INC. & KASPER ASSOC DATE 7/4/M- SOLE 1 100

NOTES

THIS SUMMEY AND HAP HAS BEEN PROPARED IN ACCORDANCE WITH SECTIONS 20—200—1 THRY 20—200—20 OF THE RESULATIONS OF COMMISSION STATE AND HAPS IN THE STATE OF COMMISSION FOR SUMMERS AND HAPS IN THE STATE COMMISSION AS ENGINEER OF THE SOURCE BY THE COMMISSION OF UNIT OF UNITS.

AGENCES — THIMMEN STRUMENT PER CONNECTION ASSOCIATION OF LAND COMMERCIONS ASS. BENOMED OF THE COMMERCION ASSOCIATION OF LAND SUMEROUS, M.O. IF SA PROPERTY BUMEY ON REF MAP §1) CONFORMED ON A DEPONDENT RESERVEY (ONCE ON REF MAP §1) CONFORMED TO A-2 MORECIMENT ACCURACY MIO T-2 TOPOCOMPRIC ACCURACY AND RESIDENT TO DESITAL STRUCTURES ON PARCEL.

WITH RESPECT TO DESIRAL STRUCTURES ON PRICES.
THE STREET IS SUBJECT TO SUCH FIGTS AS AN INDEPENDENT RESURREY MY DECLOSE.
ANOTH IS BREED ON THE COMMERCENT COMMENTE SYSTEM (NAM AS)
A BREE WANDONS BREED ON HORO TERM.
BREE WANDONS BREED ON HORO TERM.
FIGURE PROPERTY OF SERVICE ASSOCIATES PC
FIGUR A FEB 2, 1000 FIELD SURFAY.
SUBJECT TO ALL HOMES, SENDEMINS, COMMENTS OR RESTRUCTIONS OF RECORD.
TO LENGE PARCEL LOCATED IN FLOOR ZONE C FER FRAN COMMENTY ORGOOT GOOTS
HAMEL TO OF TO OWE FEB. 15 1804
LIGHSE PARCEL LOCATED IN ZONE P MOUSTRUL FAMILY.

- RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCANATING OF PIER DIRLLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORDSHID. ENGINEERS
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF AN ENGINEER.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, AND SEEDED.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. ERGISION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH STATE AND LOCAL GUIDELINES FOR ERGISION AND SEDIMENT CONTROL, AND COORDINATED WITH THE LOCAL CODE ENFORCEMENT OFFICE.
- B. UTILITY EASEMENT SHALL BE CLEARED AS REQUIRED BY LOCAL UTILITY. MAXIMUM WIDTH SHALL BE 40' CLEAR.
- ACTUAL LOCATIONS OF EXISTING UTILITIES ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE INITIATION OF THE SITE WORK.

ORANAGE DESIGN: (REF: TOWN OF BETHEL WETLANDS SECT. 115-8 H-13)

THE EXISTING SITE CONDITIONS PRIOR TO THE PROPOSED CONSTRUCTION OF THE PROJECT CONSTRUCTION CONSISTS OF SPARSE VEGETATION OVER A SANDY LOAM FILL WITH LESS THAN A 2% SLOPE.

NEW LANDSCAPE TREES

X 411.2

X 411.2

Scale 1" = 20 ft

POST CONSTRUCTION CONDITION:

THE PROPOSED PROJECT WILL INVOLVE MINIMAL GRADING, THE LEASE PARCEL WILL BE SURFACED WITH A PERMEABLE GRAVEL AT A LEVEL GRADE. THE ONLY IMPERVIOUS SURFACE WILL BE A 10"X20" (200SF) EQUIPMENT SHELTER.

AS THE SURFACE CONDITIONS IN THE POST CONSTRUCTON CONDITION ARE AS OR MORE PERMIDUS THAN THE PRECONSTRUCTION CONDITION AND AS THE NET IMPERMIQUE AREA IS OMINIMUS IT IS THE ENGINEERS OPINION THAT THERE WILL BE NO NET INCREASE IN STORM WATER RUNOFF DUE TO THE PROJECT CONSTRUCTION.

EROSION & SEDIMENT CONTROL:

SEE EROSION AND SEDIMENT CONTROL NARRATIVE ON SHEET C-4.

Gesick & Associates P.C. 18 Cedar Island Avc. Clinton, CT 98418 (860) 619-1708 RLZ (860) 628-5285 DATE: 2.17.98 DRAWN BY: SK SCALE: AS SHOWN

Marie or Wall

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Circl PROPERTY onnecticu arke COSTA Ċ Site (C el, Fran SBA S #4276

Sheet title:

Comprehensive Site Plan

