



Filed by:  
Kri Pelletier, Property Specialist - SBA Communications  
134 Flanders Rd., Suite 125, Westborough, MA 01581  
508.251.0720 x 3804 - [kpelletier@sbsite.com](mailto:kpelletier@sbsite.com)

March 14, 2018

Melanie A. Bachman  
Acting Executive Director  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

**Notice of Exempt Modification**  
**206 Everett Road, Easton, CT 06612**  
**41 17 25.2 N / -73 16 57.6 W**  
**Sprint #: CT03XC362\_DOMU**

**RE: Incomplete-em-sprint-046-180202-incltr-everett rd**

Dear Ms. Bachman:

Per Council's request under Incomplete Notice-EM-Sprint-046-180202-incltr-everett rd, attached, please find an updated Structural Analysis Report.

In accordance with R.C.S.A. § 16.50j-73, a copy of this letter and the Report is being sent to the Town of Easton's First Selectman, Adam Dunsby, and Zoning Enforcement Officer, Phillip Doremus, as well as to the property owner, Joan & David Barney, Dorothy Barney Life Estate. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

Please let us know if you need anything further.

Sincerely,

Kri Pelletier  
Property Specialist  
SBA COMMUNICATIONS CORPORATION  
134 Flanders Rd., Suite 125  
Westborough, MA 01581  
508.251.0720 x3804 + T  
508.366.2610 + F  
203.446.7700 + C  
[kpelletier@sbsite.com](mailto:kpelletier@sbsite.com)

Attachments



cc: Adam Dunsby, First Selectman / with attachments  
*Town of Easton, 225 Center Road, Easton, CT 06612*  
Phillip Doremus, Zoning Enforcement Officer / with attachments  
*Town of Easton, 225 Center Road, Easton, CT 06612*  
Joan & David Barney, Dorothy Barney Life Estate / with attachments  
*108 Hiram Hill Rd., Monroe, CT 06468*

ORIGIN ID:BBFA (508) 614-0399  
RICK WOODS  
SBA NETWORK SERVICES INC  
134 FLANDERS ROAD  
SUITE 125  
WESTBOROUGH MA 01581  
UNITED STATES US

SHIP DATE: 14MAR18  
ACTWGT: 1.00 LB  
CAD: 105843304NET3980

BILL SENDER

TO  
**ADAM DUNSBY, FIRST SELECTMAN**  
**TOWN OF EASTON**  
**225 CENTER ROAD**

**EASTON CT 06612**

(508) 251-0720 X 3804

REF-10-56-92009-6099

PO:

DEPT:



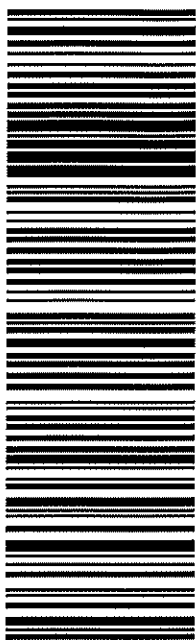
J181110012601uv

TRK# 7800 5143 3386  
0201

THU - 15 MAR 10:30A  
PRIORITY OVERNIGHT

**EB OXCA**

06612  
CT-US BDL



552J1.07F5.DCA5

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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RICK WOODS  
SBA NETWORK SERVICES INC  
134 FLANDERS ROAD  
SUITE 125  
WESTBOROUGH MA 01581  
UNITED STATES US

SHIP DATE: 14MAR18  
ACTWGT: 1.00 LB  
CAD: 105843304M/EI 3980  
BILL SENDER

TO PHILLIP DOREMUS, ZONING OFFICER

TOWN OF EASTON

OFFICE OF ZONING ENFORCEMENT

225 CENTER ROAD

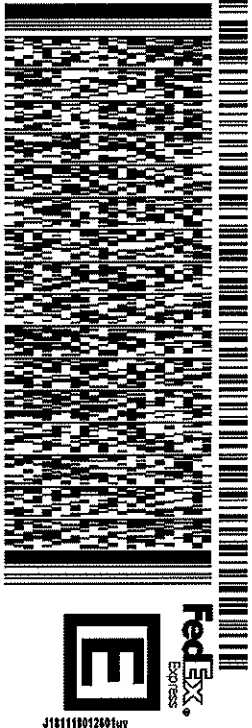
EASTON CT 06612

(508) 251-0720 X 3804

REF: 10-56-92009-8089

PO:

DEPT:

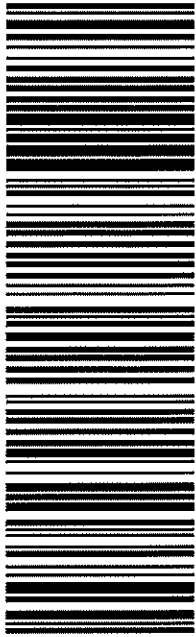


TRK# 7800 5147 5934  
0201

THU - 15 MAR 10:30A  
PRIORITY OVERNIGHT

EB OXCA

06612  
BDL  
CT-US



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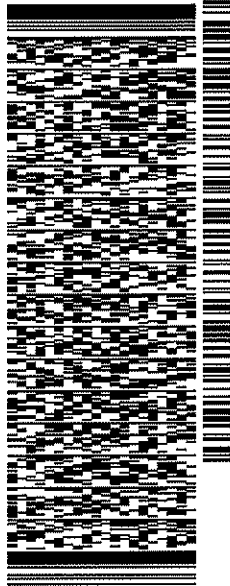
ORIGIN ID:BBFA (508) 614-0389  
RICK WOODS  
SBA NETWORK SERVICES INC  
134 FLANDERS ROAD  
SUITE 125  
WESTBOROUGH MA 01581  
UNITED STATES US

SHIP DATE: 14MAR 18  
ACTWGT: 1.00 LB  
CAD: 105843304N/EI3980  
BILL SENDER

TO **JOAN & DAVID BARNEY**  
**DOROTHY BARNEY LIFE ESTATE**  
**108 HIRAM HILL RD.**

**MONROE CT 06468**  
(508) 251-0720 X 3804 REF: 10-56-92009-6099  
INVT: DEPT:

552J1A07F5IDCA5

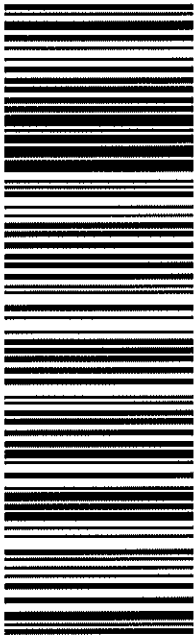


J181116012261uy

TRK# 7800 5150 2173 THU - 15 MAR 10:30A  
0201 PRIORITY OVERNIGHT

**EB BCCA**

CT-US 06468  
BDL



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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

www.ct.gov/csc

February 14, 2018

Kri Pelletier
Property Specialist
SBA Communications
134 Flanders Road, Suite 125
Westborough, MA 01581

RE: EM-SPRINT-046-180202 - Sprint notice of intent to modify an existing telecommunications facility located at 206 Everett Road, Easton, Connecticut.

Dear Ms. Pelletier:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on February 2, 2018.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a discrepancy between the Structural Analysis Report dated October 25, 2017 and the site plan sheet numbers A-2 and S-1 and Mount Augmentation site plan that are dated January 26 and January 16, 2018, respectively. Provide an Updated Structural Analysis Report that accounts for the data referenced in the above referenced site plans which requires installing additional mount hardware.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that SBA provide an Updated Structural Analysis Report including the additional mount hardware on or before March 19, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to March 19, 2018.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

[Handwritten signature of Melanie Bachman]

Melanie Bachman
Executive Director

MAB/FC

- c: The Honorable Adam W. Dunsby, First Selectman, Town of Easton
Phillip Doremus, Zoning Enforcement Officer, Town of Easton
Joan and David Barney, Property owner





**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
8445 Freeport Parkway, Suite 375, Irving, Texas 75063

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## Structural Analysis Report

**Existing 158 ft PennSummit Monopole**

**Customer Name: SBA Communications Corp.**

**Customer Site Number: CT46131-A**

**Customer Site Name: Easton-Everetts Rd**

**Carrier Name: Sprint Nextel**

**Carrier Site ID / Name: CT03XC362 / Easton-Everetts Rd**

**Site Location: 206 Everett Road**

**Easton, Connecticut**

**Fairfield County**

**Latitude: 41.290333**

**Longitude: -73.282666**

**Analysis Result:**

**Max Structural Usage: 100.0% [Pass]**

**Max Foundation Usage: 92.0% [Pass]**

**Additional Usage Caused by Mount Modification: + 3.6%**



*Handwritten signature and date:*  
3/8/18

**Report Prepared by: Matthew Baker**

## Introduction

The purpose of this report is to summarize the analysis results on the 158 ft PennSummit Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Paul J. Ford for PennSummit Tubular, Job #29202-0378, Design #5951, Dated 12/19/02
<b>Foundation Drawing</b>	Paul J. Ford for PennSummit Tubular, Job #29202-0378, Design #5951, Dated 12/19/02
<b>Geotechnical Report</b>	Tectonic Engineering Consultants W.O. #1170.C912, Dated 03/30/00
<b>Modification Drawings</b>	Vertical Solutions Project #131141.01 As-Built, Dated 11/06/2013

## Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the ANSI/TIA/EIA 222-G. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

<b>Wind Speed Used in the Analysis:</b>	Ultimate Design Wind Speed $V_{ult} = 130.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 101.0$ mph (3-Sec. Gust)
<b>Wind Speed with Ice:</b>	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
<b>Operational Wind Speed:</b>	60 mph + 0" Radial ice
<b>Standard/Codes:</b>	ANSI/TIA/EIA 222-G / 2012 IBC / 2016 Connecticut State Building Code
<b>Exposure Category:</b>	C
<b>Structure Class:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_s = 0.212$ , $S_1 = 0.066$

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.



## Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
-	158.5	3	KMW - ETCR-654L12H6 - Panel	Low Profile Platform w/ Collar Mount	(4) 1 1/4" Fiber	Sprint Nextel
-		3	RFS - ACU-A20-N - RET			
-		3	ALU - 1900 MHz - RRU			
-		6	ALU - 800 MHz - RRU			
-		3	ALU - TD-RRH8x20-25 - RRU			
-		3	Alu - 800 Filters			
-	149.0	12	Decibel - DB844H90E-XY - Panel	Low Profile Platform	(12) 1 1/4"	
9	138.0	6	RFS - APX16DWV-16DWVS-E-A20 - Panel	Low Profile Platform w/ Handrail and V-Brace tie-back	(12) 1 1/4"	T-Mobile
10		3	RFS - APXV18-206516S-A20 - Panel			
11		3	Commscope - LNX-6515DS-A1M - Panel			
12		3	Ericsson - KRY 112 144/1 - TMA			
13		3	Kathrein - 782 11056 - Bias T			
14	128.0	6	Andrew - DB846F65ZAXY - Panel	Low Profile Platform	(6) 1 5/8" (2) 1 5/8" Fiber	Verizon
15		6	Andrew - JAHH-65B-R3B - Panel			
16		3	Alcatel Lucent - RRH2x60-700 - RRH			
17		3	Alcatel Lucent - RRH4X45-AWS - RRH			
18		2	RFS - DB-T1-6Z-8AB-OZ - SP			
19	118.0	3	Powerwave - P65-16-XLH-RR - Panel	Low Profile Platform	(12) 1 1/4" (1) 3/8" RET (2) 5/8" DC inside (1) 3" Innerduct	AT&T
20		6	Powerwave - 7770 - Panel			
21		6	Powerwave - LGP21401 - TMA			
22		3	Powerwave - TT19-08BP111-001 - TMA			
23		6	Ericsson - RRUS-11 - RRU			
24		1	Raycap - DC6-48-60-18 - SP			
-	75.0	1	GPS	Pipe Mount	(1) 1/2"	Sprint

## Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	158.5	3	RFS - APXVSP18-C-A20 - Panel	Low Profile Platform w/ Collar Mount, Handrail Kit (SitePro HRK14-U) and Platform Reinforcement Kit (SitePro PRK-1245L)	(4) 1 1/4" Fiber	Sprint Nextel
2		3	Commscope - DT465B-2XR - Panel			
3		3	RFS - ACU-A20-N - RET			
4		3	ALU - 1900 MHz - RRU			
5		6	ALU - 800 MHz - RRU			
6		3	ALU - TD-RRH8x20-25 - RRU			
7		3	Alu - 800 Filters			
8	149.0	12	Decibel - DB844H90E-XY - Panel*	Low Profile Platform*	(12) 1 1/4"*	
25	75.0	1	GPS	Pipe Mount	(1) 1/2"	

\*Equipment has been decommissioned but remains installed.

See the attached coax layout for the line placement considered in the analysis.

## Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	100.0%	81.0%	74.3%
Pass/Fail	Pass	Pass	Pass

## Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	5165.1	43.2	56.9

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

## Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by ANSI/TIA/EIA 222-G for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.6562 degrees under the operational wind speed as specified in the Analysis Criteria.

## **Conclusions**

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the ANSI/TIA/EIA 222-G Standard under the design basic wind speed as specified in the Analysis Criteria.

## Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The analysis is based on the presumption that the tower members and components along with any existing reinforcement items have been correctly and properly designed, manufactured, installed and maintained.
3. All the existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion.
4. An initial tension of 10% of the break strength on all the existing guy wires was assumed in all the structural analyses of guyed towers unless different values were provided by the client. **TES** cannot take responsibility for the deviations in the analysis results because of differences in the initial tension forces of the existing guy wires.
5. Secondary component or connection secondary components, welds and bolts are assumed to be able to carry their intended original design loads. **TES** cannot take responsibility for verification of the adequacy on the connections, bolts and welds present in the structure.
6. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the EIA/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
7. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
8. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
9. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.