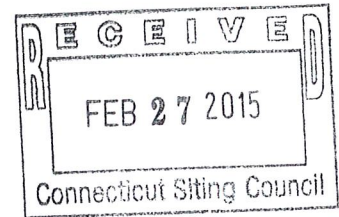


RACHEL A. SCHWARTZMAN

Please Reply To: Bridgeport
Writer's Direct Dial: (203) 337-4110
E-Mail: rschwartzman@cohenandwolf.com

February 26, 2015

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06501



Re: EM-T-MOBILE-091-130531B
T-Mobile Site ID CT11106A
37 Titicus Mountain Road, New Fairfield, CT
Notice of Construction Completion

ORIGINAL

Dear Attorney Bachman:

The Connecticut Siting Council ("Council") acknowledged the above referenced T-Mobile Northeast LLC ("T-Mobile") notice of exempt modification on July 9, 2013. T-Mobile hereby notifies the Council that construction of the acknowledged modifications were complete as of January 16, 2014.

Please don't hesitate to contact me with any questions.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Scht".

Rachel A. Schwartzman

cc: Samuel Simons, T-Mobile
Mark Richard, T-Mobile
Robert Stanford, Vertical Development, LLC
Julie Kehler, Esq.



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

December 24, 2014

Rachel A. Schwartzman, Esq.
Cohen and Wolf, P.C.
P.O. Box 1821
Bridgeport, CT 06601

RE:

EM-T-MOBILE-004-130531	81 Montevideo Road	Avon
EM-T-MOBILE-009-130611	38 Spring Hill Lane	Bethel
EM-T-MOBILE-014-130724	405 Brushy Plain Road	Branford
EM-T-MOBILE-017-130611	2 Willis Street	Bristol
EM-T-MOBILE-017-130729	985 Farmington Avenue	Bristol
EM-T-MOBILE-033-130719	179 Shunpike Road	Cromwell
EM-T-MOBILE-034-130531A	41 Padanaram Road	Danbury
EM-T-MOBILE-034-130531B	303 Boxwood Lane	Danbury
EM-T-MOBILE-034-130726	7 West View Drive	Danbury
EM-T-MOBILE-043-130222	1455 Forbes Street	East Hartford
EM-T-MOBILE-049-130718	1 Ecology Drive	Enfield
EM-T-MOBILE-057-130220	150 Butternut Hollow Road	Greenwich
EM-T-MOBILE-080-130903	11 West Peak Drive	Meriden
EM-T-MOBILE-091-130531A	302 Ball Pond Road	New Fairfield
EM-T-MOBILE-091-130531B	37 Titicus Mountain Road	New Fairfield
EM-T-MOBILE-101-130611	125 Washington Avenue	North Haven
EM-T-MOBILE-110-130621	335 S. Washington Street	Plainville
EM-T-MOBILE-135-130318	555 Main Street	Stamford
EM-T-MOBILE-148-130531	90 N. Plains Industrial Road	Wallingford
EM-T-MOBILE-166-130726	Andrews Road	Wolcott
EM-T-MOBILE-166-130816	Route 322/Meridian Road	Wolcott

Dear Attorney Schwartzman:

The Connecticut Siting Council (Council) is in receipt of your letter dated December 23, 2014, submitted on behalf of T-Mobile, requesting an extension of time to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications.

The Council hereby grants a 60-day extension of time to submit a notice of completion of construction and associated post modification inspection reports for the above-referenced exempt modifications to March 2, 2015.

This extension is granted with the understanding that the Council will be notified should T-Mobile need additional time beyond 60 days to submit a notice of completion and associated post modification inspection reports or decide not to proceed with construction.

Thank you for your attention to this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Melanie A. Bachman". The signature is written in a cursive style with a long, sweeping underline.

Melanie A. Bachman
Acting Executive Director

MAB/cm

RACHEL A. SCHWARTZMAN

Please Reply To: Bridgeport
Writer's Direct Dial: (203) 337-4110
E-Mail: rschwartzman@cohenandwolf.com

December 23, 2014

Via Electronic and Overnight Mail

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

RECEIVED
DEC 23 2014
CONNECTICUT
SITING COUNCIL

**Re: T-Mobile Exempt Modification Compliance Filings
Connecticut Siting Council Audit Letter dated November 3, 2014
Request For Extension of Time**

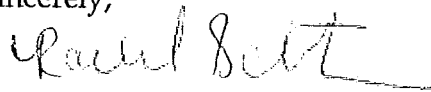
Dear Attorney Bachman:

T-Mobile Northeast, LLC ("T-Mobile") respectfully requests a 60-day extension of time to March 2, 2015 to respond to the Council's request, dated November 3, 2014, for exempt modification compliance data. The attached spreadsheet provides a list of the sites for which T-Mobile seeks a requested extension.

T-Mobile is actively compiling all of the requested information but needs additional time to provide the necessary documentation.

Please do not hesitate to let me know if you have any questions.

Sincerely,

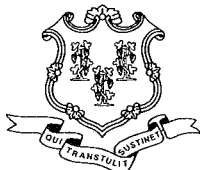


Rachel A. Schwartzman, Esq.

RAS/lcc
Enclosure

cc: Samuel Simons, T-Mobile Northeast, LLC (via electronic mail)
Mark Richard, T-Mobile Northeast, LLC (via electronic mail)
Robert Stanford, Vertical Development, LLC (via electronic mail)
Julie Kohler, Esq.

EM/TS #	Address	Town	Council Additional Conditions	Compliance with Council Additional Conditions Received	Notice of Completion Received	Decision Date
EM-T-MOBILE-043-130222	1455 Forbes Street	East Hartford	Yes	No	No	3/12/2013
EM-T-MOBILE-057-130220	150 Butternut Hollow Road	Greenwich	N/A	N/A	No	3/12/2013
EM-T-MOBILE-135-130318	555 Main Street	Stamford	Yes	No	No	4/9/2013
EM-T-MOBILE-006-130528	60 Rice Lane	Beacon Falls	Yes	No	No	6/26/2013
EM-T-MOBILE-002-130529	401 Wakelee Avenue	Ansonia	N/A	N/A	No	6/27/2013
EM-T-MOBILE-004-130531	81 Montevideo Road	Avon	N/A	N/A	No	7/9/2013
EM-T-MOBILE-034-130531A	41 Padanaran Road	Danbury	Yes	No	No	7/9/2013
EM-T-MOBILE-034-130531B	303 Boxwood Lane	Danbury	N/A	N/A	No	7/9/2013
EM-T-MOBILE-091-130531A	302 Ball Pond Road	New Fairfield	N/A	N/A	No	7/9/2013
EM-T-MOBILE-091-130531B	37 Titicus Mountain Road	New Fairfield	N/A	N/A	No	7/9/2013
EM-T-MOBILE-148-130531	90 N. Plains Industrial Road	Wallingford	N/A	N/A	No	7/9/2013
EM-T-MOBILE-101-130611	125 Washington Avenue	North Haven	N/A	N/A	No	7/10/2013
EM-T-MOBILE-009-130611	38 Spring Hill Lane	Bethel	Yes	No	No	7/11/2013
EM-T-MOBILE-017-130611	2 Walls Street	Bristol	Yes	No	No	7/12/2013
EM-T-MOBILE-110-130621	335 S. Washington Street	Plainville	N/A	N/A	No	7/12/2013
EM-T-MOBILE-033-130719	179 Shampke Road	Cromwell	Yes	No	No	8/7/2013
EM-T-MOBILE-049-130718	1 Ecology Drive	Enfield	N/A	N/A	No	8/7/2013
EM-T-MOBILE-014-130724	405 Brushy Plain Road	Brantford	Yes	No	No	8/13/2013
EM-T-MOBILE-017-130729	985 Farmington Avenue	Bristol	N/A	N/A	No	8/20/2013
EM-T-MOBILE-034-130726	7 West View Drive	Danbury	N/A	N/A	No	8/20/2013
EM-T-MOBILE-166-130726	Andrews Road	Wolcott	Yes	No	No	8/20/2013
EM-T-MOBILE-166-130816	Route 322/Meridian Road	Wolcott	N/A	N/A	No	9/3/2013
EM-T-MOBILE-080-130903	11 West Peak Drive	Meriden	Yes	No	No	9/18/2013



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

July 9, 2013

Chris Bisson
Real Estate Consultant
Transcend Wireless
48 Spruce Street
Oakland, NJ 07436

RE: **EM-T-MOBILE-091-130531B** – T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 37 Titicus Mountain Road, New Fairfield, Connecticut.

Dear Mr. Bisson:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated May 15, 2013. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,

Melanie A. Bachman
Acting Executive Director

MAB/CDM/jb

c: The Honorable John E. Hodge, First Selectman, Town of New Fairfield
Maria Horowitz, Zoning Enforcement Officer, Town of New Fairfield
American Tower



EM-T-MOBILE-091-130531B

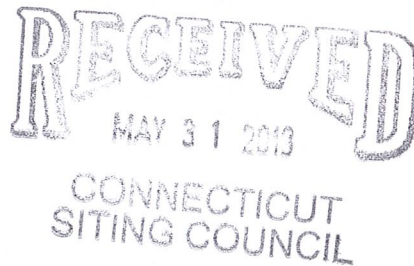
Transcend Wireless
48 Spruce Street
Oakland, NJ 07436
Phone: (203) 217-6200
Chris Bisson
Real Estate Consultant

05/15/2013

ORIGINAL

Hand Delivered

Ms. Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



RE: T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 37 Titicus Mountain Rd, New Fairfield, CT. Known to T-Mobile Northeast LLC as site CT11106A.

Dear Ms. Roberts:

In order to accommodate technological changes, implement Global System for Mobile Communications Access ("GSM") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the state of Connecticut, T-Mobile Northeast LLC plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and its attachments is being sent to the chief elected official of the municipality in which affected cell site is located.

GSM employs Spread-Spectrum technology and special coding scheme to allow multiple users to be multiplexed over the same physical channel. LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

As part of the project the new multi-mode 800/1900 antenna will replace existing antennas. These antennas will provide more flexibility for optimization by allowing fast and easy electrical tilt adjustment from remote location and will enable the transmission of multiple technologies from a single antenna. As T-Mobile Northeast LLC network evolves to meet the demands of its customers, it is essential for T-Mobile Northeast LLC to install modern equipment and antennas in order to provide reliable wireless voice and data services. The proposed equipment will include multi-mode radios that will allow T-Mobile Northeast LLC to transmit at different frequencies using different technologies, including LTE technology. Likewise, the proposed antennas are quad-pole multi-band

high gain antennas that will allow T-Mobile Northeast LLC to operate using its multiple frequency bands and technologies, including LTE technology. The proposed equipment and antennas will improve the reliability, coverage and capacity of T-Mobile Northeast LLC voice and data networks across T-Mobile Northeast LLC various FCC licensed frequency bands and significantly increase the data speeds of T-Mobile Northeast LLC 's network by utilizing the latest LTE technology. Without the proposed modifications T-Mobile Northeast LLC will be unable to provide reliable wireless voice and data service using the latest technologies.

T-Mobile Northeast LLC will have an interim (testing) period during the modification/installation prior to the final configuration. This antenna configuration is shown on the attached drawings of the planned modifications. Also included is the power density calculation reflecting the change in T-Mobile Northeast LLC operations at the site and documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modification as defined Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for the R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will not be affected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.
3. The proposed changes will not increase the noise level at the existing facility by 6 decibels or more.
4. Radio Frequency power density may increase due to the use of one or more GSM transmissions. Moreover, LTE will utilize additional radio frequencies newly licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons T-Mobile Northeast LLC respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (203) 217-6200 or email cbisson@transcendwireless.com with questions concerning this matter.

Thank you for your consideration.

Sincerely,

Chris Bisson
(203) 217-6200

**RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS**

T-Mobile Existing Facility

Site ID: CT11106A

New Fairfield (AT&T)
37 Titicus Mountain Road
New Fairfield, CT 06812

May 22, 2013

EBI Project Number: 62136240

May 22, 2013

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Re: Emissions Values for Site: **CT11106A - New Fairfield (AT&T)**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 37 Titicus Mountain Road, New Fairfield, CT, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the cellular band is $567 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS band is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 37 Titicus Mountain Road, New Fairfield, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, the actual antenna pattern gain value in the direction of the sample area was used. For this report the sample point is a 6 foot person standing at the base of the tower

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (1940.000 MHz—to 1950.000 MHz) were considered for each sector of the proposed installation.
- 2) 2 UMTS channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation
- 3) 2 LTE channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation
- 4) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 5) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 6) The antenna used in this modeling is the Ericsson AIR21 for LTE, UMTS and GSM. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.6 dBd gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications

- 7) The antenna mounting height centerline of the proposed antennas is **193 feet** above ground level (AGL)
- 8) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculation were done with respect to uncontrolled / general public threshold limits

Site ID	CT11106A - New Fairfield (AT&T)
Site Address	37 Titicus Mountain Road, New Fairfield, CT 06812
Site Type	Monopole

Sector 1																	
Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBi)	Antenna Height (ft)	Antenna analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	193	187	None	0	0	48.326044	0.0496826	0.049688%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	0	0	0	-3.95	193	187	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	193	187	1-5/8"	0	0	24.163022	0.248413	0.02484%
2B	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	193	187	1-5/8"	0	0	24.163022	0.248413	0.02484%
														Sector total Power Density Value: 0.0999%			
Sector 2																	
Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBi)	Antenna Height (ft)	Antenna analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	193	187	None	0	0	48.326044	0.0496826	0.049688%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	0	0	0	-3.95	193	187	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	193	187	1-5/8"	0	0	24.163022	0.248413	0.02484%
2B	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	193	187	1-5/8"	0	0	24.163022	0.248413	0.02484%
														Sector total Power Density Value: 0.0999%			
Sector 3																	
Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBi)	Antenna Height (ft)	Antenna analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	193	187	None	0	0	48.326044	0.0496826	0.049688%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	0	0	0	-3.95	193	187	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	193	187	1-5/8"	0	0	24.163022	0.248413	0.02484%
2B	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	193	187	1-5/8"	0	0	24.163022	0.248413	0.02484%
														Sector total Power Density Value: 0.0999%			

Site Composite MPE %	
Carrier	MPE %
T-Mobile	0.2989%
Sprint	5.780%
Cleanwire	0.540%
MediaFLO	13.000%
Verizon Wireless	17.660%
AT&T	7.840%
Homeland Security	12.300%
Total Site MPE %	57.418%

Summary

All calculations performed for this analysis yielded results that were well within the allowable limits for general public exposure to RF Emissions.

The anticipated Maximum Composite contributions from the T-Mobile facility are **0.298% (0.099% from each sector)** of the allowable FCC established general public limit considering all three sectors simultaneously.

The anticipated composite MPE value for this site assuming all carriers present is **57.418%** of the allowable FCC established general public limit. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were within the allowable 100% threshold standard per the federal government.



Scott Heffernan
RF Engineering Director

EBI Consulting

21 B Street
Burlington, MA 01803



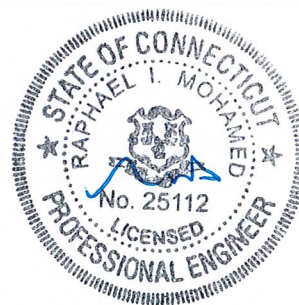
AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 187.5 ft Self Supported Tower
ATC Site Name : New Fairfield, CT
ATC Site Number : 88014
Engineering Number : 53098921
Proposed Carrier : T-Mobile
Carrier Site Name : N/A
Carrier Site Number : CT11106A
Site Location : 22 Titicus Mtn Road
New Fairfield, CT 06812-2565
41.450664, -73.515989
County : Fairfield
Date : May 2, 2013
Max Usage : 100%
Result : Pass

Ahmad Ighwair
Design Engineer

Ahmad Ighwair



5/6/13



Table of Contents

Introduction	1
Supporting Documents	1
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Structure Usages	3
Foundations	3
Deflection, Twist, and Sway.....	3
Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 187.5 ft self supported tower to reflect the change in loading by T-Mobile.

Supporting Documents

Tower Drawings	Analysis by CSEI, ATC Eng. No. 26464321, dated August 21, 2006.
Foundation Drawing	GEI Report #E08-291-F, dated May 19, 2008
Geotechnical Report	GEI Report #E08-291-G, dated May 19, 2008

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	95 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G, Addendum 2 / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
Structure Class:	II
Exposure Category:	B
Topographic Category:	1

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact me via email at ahmad.ighwair@americantower.com or call 919-466-5046.



Existing and Reserved Equipment

Mount Elev. ¹ (ft)	Qty.	Antenna	Mount Type	Lines	Carrier
187.5	3	Ericsson KRY 112 144/1	Platform	(12) 1 5/8" Coax	T-Mobile
185.0	1	DragonWave A-ANT-23G-2.5-C	Side Arms	(6) 5/16" Coax (2) 1/2" Coax (1) 2" Conduit	Clearwire
	3	Argus LLPX310R			
	2	DragonWave Horizon Compact			
	1	DragonWave A-ANT-11G-4-C			
182.0	3	NextNet BTS-2500	Sector Frames	(12) 1 5/8" Coax (3) 1 1/4" Hybriflex	Sprint Nextel
	3	Alcatel-Lucent 4x40W RRH			
	3	Alcatel-Lucent 2X50W RRH			
	3	RFS APXVSP18-C-A20			
	6	Decibel DB844H90E-A			
170.3	-	-	Catwalk	-	-
160.0	6	Ericsson RRUS 11 (Band 12)	Sector Frames	(2) 0.74" 8 AWG 7 (12) 1 5/8" Coax (1) 3" Conduit (1) 0.28" RG6	AT&T Mobility
	3	Powerwave P65-16-XLH-RR			
	6	Powerwave 7770.00			
	1	Raycap DC6-48-60-18-8F			
	6	Powerwave LGP21401			
142.0	3	Antel BXA-171085-8BF-EDIN-X	Sector Frames	(12) 1 5/8" Coax	Verizon
	2	Antel LPA-80080/4CF			
	3	Antel BXA-70063/6CF			
	6	RFS FD9R6004/2C-3L			
	4	Antel LPA-80063/4CF			
137.5	-	-	Rest Platform	-	-
122.0	1	Dielectric TLP-16A-1E	Side Arm	(1) 3 1/8" HL	Qualcomm
100.0	-	-	Platform	-	-
87.5	-	-	Rest Platform	-	-
70.0	1	Andrew DB616E-BC	Side Arm	(1) 7/8" Coax	US Treasury
50.0	-	-	Rest Platform	-	-
18.3	-	-	-	(4) Coax Cage	-

Proposed Equipment

Elevation ¹ (ft)		Qty.	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
187.5	193.0	3	Ericsson AIR 21, 1.3M, B2A B4P	Platform	(1) 1 5/8" Fiber	T-Mobile
		3	Ericsson AIR 21, 1.3M, B4A B2P			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax alongside existing T-Mobile coax.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	59%	Pass
Diagonals	100%	Pass
Horizontals	49%	Pass
Anchor Bolts	31%	Pass

Foundations

Reaction Component	Analysis Reactions
Uplift (Kips)	184.3
Axial (Kips)	235.9
Shear (Kips)	33.0

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
187.5	0.105	0.205	0.116

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G



Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

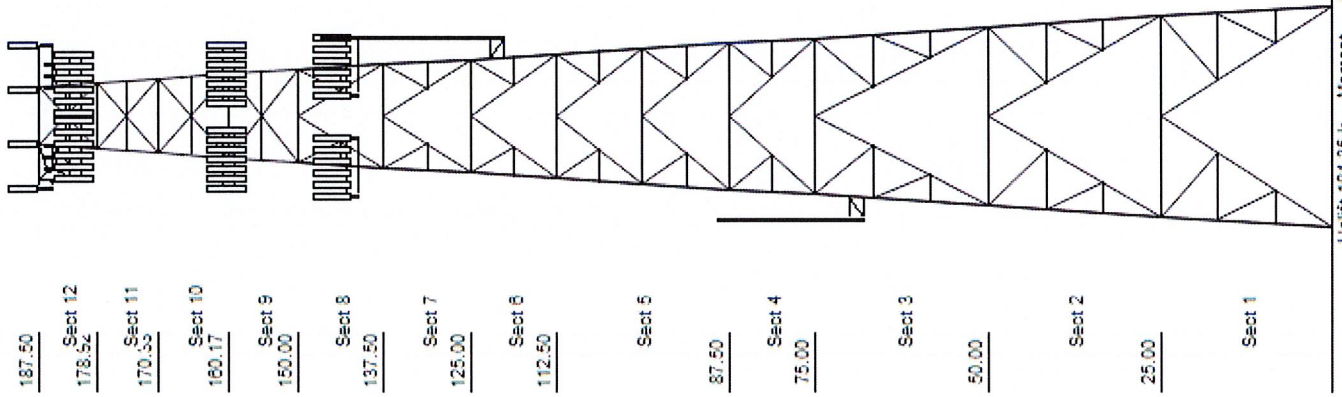
It is the responsibility of the client to ensure that the information provided to ATC Tower Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Job Information		
Tower : 88014	Location : New Fairfield, CT	Base Width : 32.45 ft
Code : ANSI/TIA-222 Rev G	Shape : Square	Top Width : 9.00 ft
Client : T-Mobile		

Copyright Semacon Engineering Solutions, Inc
 Loads: 95 mph no ice
 50 mph w/ 3/4" radial ice
 60 mph Serviceability
 60 mph no ice



187.50	
Sect 12	178.52
Sect 11	170.33
Sect 10	160.17
Sect 9	150.00
Sect 8	137.50
Sect 7	125.00
Sect 6	112.50
Sect 5	87.50
Sect 4	75.00
Sect 3	50.00
Sect 2	25.00
Sect 1	

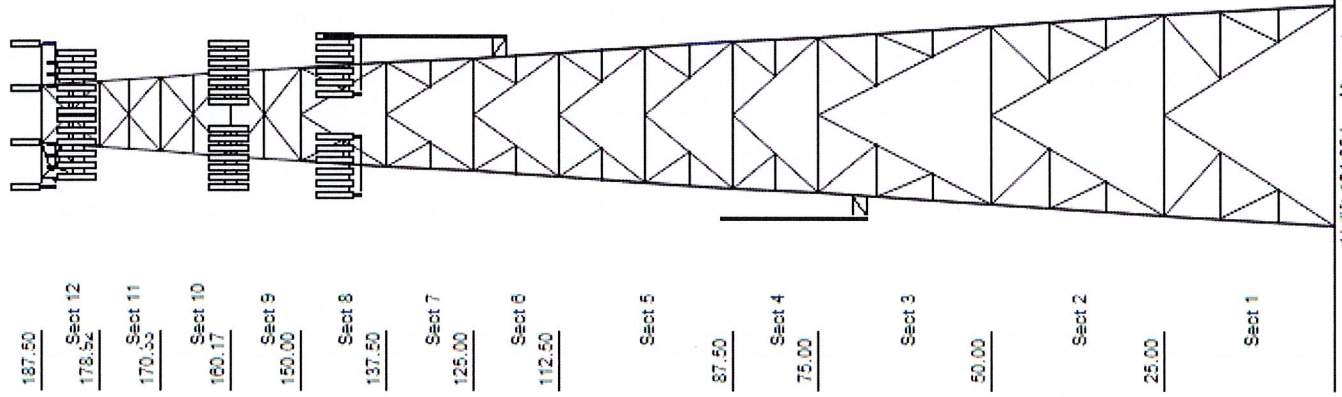
Uplift 184.35 k Moment 9,475.48 ft-k
 Vert 235.90 k Total Down 117.57 k
 Horiz 33.04 k Total Shear 83.78 k

Section	Leg Members	Diagonal Members	Horizontal Members
1	SAE 36 ksi 8X8X0.875	DAS 36 ksi 3.5X3X0.25	DAL 36 ksi 3X2.5X0.3125
2	SAE 36 ksi 8X8X0.775	DAS 36 ksi 3X2.5X0.25	DAE 36 ksi 3X2.5X0.25
3	SAE 36 ksi 8X8X0.775	DAS 36 ksi 3X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
4	SAE 36 ksi 6X6X0.875	DAE 36 ksi 2.5X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
5	SAE 36 ksi 6X6X0.775	DAL 36 ksi 2.5X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
6-7	SAE 36 ksi 6X6X0.5625	DAL 36 ksi 2.5X2X0.25	DAE 36 ksi 2.5X2.5X0.25
8	SAE 36 ksi 6X6X0.4375	SAE 36 ksi 3.5X3.5X0.25	SAU 36 ksi 3X2.5X0.25
9	SAE 36 ksi 5X5X0.4375	SAE 36 ksi 3.5X3.5X0.25	DAL 36 ksi 3X2.5X0.25
10	SAE 36 ksi 5X5X0.4375	SAE 36 ksi 3X3X0.25	SAU 36 ksi 3X2.5X0.25
11	SAE 36 ksi 5X5X0.3125	SAE 36 ksi 3X3X0.25	CHN 36 ksi C8 x 11.5
12	SAE 36 ksi 5X5X0.3125		

Elev (ft)	Type	Qty	Description
187.50	Panel	3	Ericsson AIR 21, 1.3M, B2AB4P
187.50	Panel	3	Ericsson AIR 21, 1.3M, B4AB2P
187.50	Panel	3	Ericsson KRY112 144/1
187.50	Straight Arm	6	Pipe Mount
187.50	Platform	1	Platform
185.00	Dish	1	DragonWave A-ANT-23G-2.5-C
185.00	Straight Arm	3	Round Side Arm
185.00	Panel	3	Argus LLPX310R
185.00	Panel	2	DragonWave Horizon Compact
185.00	Dish	1	DragonWave A-ANT-11G-4-C
185.00	Panel	3	NextNet BTS-2500
182.00	Panel	3	Alcatel-Lucent 4x40W RRH
182.00	Panel	3	Alcatel-Lucent 2X50W RRH
182.00	Panel	3	RFS APXV5PP18-C-A20
182.00	Panel	6	Decibel DB844H90E-A
182.00	Mounting Frame	3	Flat Light Sector Frames
182.00	Panel	3	EMS RR90-17-04DPL2
170.33	Platform	1	Catwalk
160.00	Panel	6	Ericsson RRUS 11 (Band 12)
160.00	Panel	3	Powerwave P65-16-XLH-RR
160.00	Panel	6	Powerwave 7770.00
160.00	Whip	1	Raycap DC6-48-60-18-8F
160.00	Panel	6	Powerwave LGP21401
160.00	Mounting Frame	3	Flat Light Sector Frames
142.00	Panel	3	Antel BXA-171085-8BF-EDIN-X
142.00	Panel	2	Antel LPA-80080/4CF
142.00	Panel	3	Antel BXA-70063/6CF
142.00	Panel	6	RFS FD9R6004/2C-3L
142.00	Panel	4	Antel LPA-80063/4CF
142.00	Mounting Frame	3	Flat Light Sector Frames
137.50	Mounting Frame	1	Rest Platform
122.00	Straight Arm	1	Flat Side Arm
122.00	Whip	1	Dielectric TLP-16A-1E
100.00	Platform	1	Platform
87.50	Mounting Frame	1	Rest Platform
70.00	Whip	1	Andrew DB616E-BC
70.00	Straight Arm	1	Round Side Arm
50.00	Mounting Frame	1	Rest Platform

Linear Appearance				
Elev (ft)	From	To	Qty	Description
5,000	187.50	1	Wave Guide	
5,000	187.50	1	Climbing Ladder	
5,000	187.50	1	1 5/8" Fiber	
5,000	187.50	6	1 5/8" Coax	

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Uplift 184.35 k Moment 9,475.45 ft-k
 Vert 235.90 k Total Down 117.57 k
 Horiz 33.04 k Total Shear 83.78 k

Job Information			
Tower : 88014	Location : New Fairfield, CT	Base Width : 32.45 ft	Top Width : 9.00 ft
Code : ANSI/TIA-222 Rev G	Shape : Square		
Client : T- Mobile			
5.000	187.50	6	1 5/8" Coax
5.000	185.00	6	5/16" Coax
5.000	185.00	1	2" Conduit
5.000	185.00	2	1/2" Coax
5.000	182.00	1	Wave Guide
5.000	182.00	12	1 5/8" Coax
5.000	182.00	3	1 1/4" Hybriflex
5.000	160.00	1	Wave Guide
5.000	160.00	1	3" Conduit
5.000	160.00	12	1 5/8" Coax
5.000	160.00	2	0.74" 8 AWG 7
5.000	160.00	1	0.28" RG6
5.000	142.00	12	1 5/8" Coax
5.000	139.99	1	Wave Guide
5.000	122.00	1	3 1/8" Hard Line
0.000	70.000	1	7/8" Coax
10.000	18.333	4	Coax Cage

187.50

Sect 12
178.52

Sect 11
170.33

Sect 10
160.17

Sect 9
150.00

Sect 8
137.50

Sect 7
125.00

Sect 6
112.50

Sect 5
87.50

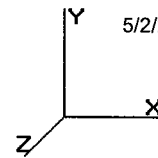
Sect 4
75.00

Sect 3
50.00

Sect 2
25.00

Sect 1

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Section Forces

LoadCase 1.2D + 1.6W Normal

95.00 mph Normal to Face with No Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	qz (psf)	Total	Total	Ice	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)													
12	183.2	23.07	21.73	0.00	0.00	0.25	2.76	1.00	1.00	0.00	21.73	22.35	0.00	2,476.2	0.0	1,880.87	569.77	2,450.64
11	174.6	22.76	18.88	0.00	0.00	0.20	2.98	1.00	1.00	0.00	18.88	29.77	0.00	2,170.3	0.0	1,742.54	761.22	2,503.76
10	165.2	22.40	23.09	0.00	0.00	0.19	3.04	1.00	1.00	0.00	23.09	35.27	0.00	3,276.6	0.0	2,138.57	887.54	3,026.11
9	155.0	22.00	24.22	0.00	0.00	0.18	3.08	1.00	1.00	0.00	24.22	49.75	0.00	3,265.3	0.0	2,233.15	1,260.8	3,493.98
8	143.7	21.53	26.82	0.00	0.00	0.14	3.24	1.00	1.00	0.00	26.82	70.79	0.00	5,040.9	0.0	2,541.22	1,727.1	4,268.40
7	131.2	20.98	27.59	0.00	0.00	0.13	3.28	1.00	1.00	0.00	27.59	88.30	0.00	5,699.9	0.0	2,584.57	2,065.3	4,649.88
6	118.7	20.38	28.39	0.00	0.00	0.13	3.32	1.00	1.00	0.00	28.39	90.92	0.00	5,910.9	0.0	2,614.76	2,059.3	4,674.14
5	100.0	19.41	59.23	0.00	0.00	0.12	3.37	1.00	1.00	0.00	59.23	183.49	0.00	13,622.6	0.0	5,268.18	3,952.8	9,221.05
4	81.25	18.29	30.84	0.00	0.00	0.11	3.41	1.00	1.00	0.00	30.84	91.74	0.00	7,404.5	0.0	2,614.10	1,862.5	4,476.69
3	62.50	16.97	68.39	0.00	0.00	0.11	3.41	1.00	1.00	0.00	68.39	185.31	0.00	13,726.2	0.0	5,380.10	3,486.3	8,866.43
2	37.50	14.66	71.64	0.00	0.00	0.10	3.45	1.00	1.00	0.00	71.64	185.76	0.00	14,414.1	0.0	4,923.37	3,019.4	7,942.79
1	12.50	13.75	76.58	0.00	0.00	0.10	3.46	1.00	1.00	0.00	76.58	190.73	0.00	18,401.9	0.0	4,960.66	2,737.9	6,698.57
														95,409.4	0.0			

LoadCase 1.2D + 1.6W 45 deg

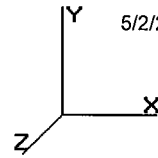
95.00 mph 45 deg with No Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	qz (psf)	Total	Total	Ice	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)													
12	183.2	23.07	21.73	0.00	0.00	0.25	2.76	1.19	1.19	0.00	25.88	22.35	0.00	2,476.2	0.0	2,239.76	569.77	2,809.52
11	174.6	22.76	18.88	0.00	0.00	0.20	2.98	1.15	1.15	0.00	21.70	29.77	0.00	2,170.3	0.0	2,003.23	761.22	2,764.45
10	165.2	22.40	23.09	0.00	0.00	0.19	3.04	1.14	1.14	0.00	26.31	35.27	0.00	3,276.6	0.0	2,437.15	887.54	3,324.69
9	155.0	22.00	24.22	0.00	0.00	0.18	3.08	1.13	1.13	0.00	27.43	49.75	0.00	3,265.3	0.0	2,529.37	1,260.8	3,790.20
8	143.7	21.53	26.82	0.00	0.00	0.14	3.24	1.11	1.11	0.00	29.70	70.79	0.00	5,040.9	0.0	2,814.35	1,727.1	4,541.52
7	131.2	20.98	27.59	0.00	0.00	0.13	3.28	1.10	1.10	0.00	30.36	88.30	0.00	5,699.9	0.0	2,843.37	2,065.3	4,908.68
6	118.7	20.38	28.39	0.00	0.00	0.13	3.32	1.09	1.09	0.00	31.06	90.92	0.00	5,910.9	0.0	2,860.86	2,059.3	4,920.24
5	100.0	19.41	59.23	0.00	0.00	0.12	3.37	1.09	1.09	0.00	64.38	183.49	0.00	13,622.6	0.0	5,726.13	3,952.8	9,679.00
4	81.25	18.29	30.84	0.00	0.00	0.11	3.41	1.08	1.08	0.00	33.34	91.74	0.00	7,404.5	0.0	2,826.36	1,862.5	4,688.95
3	62.50	16.97	68.39	0.00	0.00	0.11	3.41	1.08	1.08	0.00	73.94	185.31	0.00	13,726.2	0.0	5,816.47	3,486.3	9,302.80
2	37.50	14.66	71.64	0.00	0.00	0.10	3.45	1.08	1.08	0.00	77.06	185.76	0.00	14,414.1	0.0	5,295.66	3,019.4	8,315.08
1	12.50	13.75	76.58	0.00	0.00	0.10	3.46	1.07	1.07	0.00	82.16	190.73	0.00	18,401.9	0.0	5,321.89	2,737.9	8,059.80
														95,409.4	0.0			

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Section Forces

LoadCase 0.9D + 1.6W 45 deg

95.00 mph 45 deg with No Ice (Reduced DL)

Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Wind Sect Seq	Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
12	183.2	23.07	21.73	0.00	0.00	0.25	2.76	1.19	1.19	0.00	25.88	22.35	0.00	1,857.2	0.0	2,239.76	569.77	2,809.52
11	174.6	22.76	18.88	0.00	0.00	0.20	2.98	1.15	1.15	0.00	21.70	29.77	0.00	1,627.8	0.0	2,003.23	761.22	2,764.45
10	165.2	22.40	23.09	0.00	0.00	0.19	3.04	1.14	1.14	0.00	26.31	35.27	0.00	2,457.4	0.0	2,437.15	887.54	3,324.69
9	155.0	22.00	24.22	0.00	0.00	0.18	3.08	1.13	1.13	0.00	27.43	49.75	0.00	2,449.0	0.0	2,529.37	1,260.8	3,790.20
8	143.7	21.53	26.82	0.00	0.00	0.14	3.24	1.11	1.11	0.00	29.70	70.79	0.00	3,780.7	0.0	2,814.35	1,727.1	4,541.52
7	131.2	20.98	27.59	0.00	0.00	0.13	3.28	1.10	1.10	0.00	30.36	88.30	0.00	4,274.9	0.0	2,843.37	2,065.3	4,908.68
6	118.7	20.38	28.39	0.00	0.00	0.13	3.32	1.09	1.09	0.00	31.06	90.92	0.00	4,433.1	0.0	2,860.86	2,059.3	4,920.24
5	100.0	19.41	59.23	0.00	0.00	0.12	3.37	1.09	1.09	0.00	64.38	183.49	0.00	10,217.0	0.0	5,726.13	3,952.8	9,679.00
4	81.25	18.29	30.84	0.00	0.00	0.11	3.41	1.08	1.08	0.00	33.34	91.74	0.00	5,553.4	0.0	2,826.36	1,862.5	4,688.95
3	62.50	16.97	68.39	0.00	0.00	0.11	3.41	1.08	1.08	0.00	73.94	185.31	0.00	10,294.7	0.0	5,816.47	3,486.3	9,302.80
2	37.50	14.66	71.64	0.00	0.00	0.10	3.45	1.08	1.08	0.00	77.06	185.76	0.00	10,810.5	0.0	5,295.66	3,019.4	8,315.08
1	12.50	13.75	76.58	0.00	0.00	0.10	3.46	1.07	1.07	0.00	82.16	190.73	0.00	13,801.4	0.0	5,321.89	2,737.9	8,059.80
														71,557.1	0.0			67,104.94

LoadCase 1.2D + 1.0Di + 1.0Wi Normal

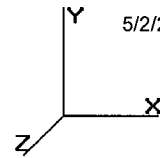
50.00 mph Normal with 0.75 in Radial Ice

Gust Response Factor : 0.85
 Dead Load Factor : 1.20
 Wind Load Factor : 1.00
 Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
 Ice Importance Factor : 1.00

Wind Sect Seq	Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
12	183.2	6.39	21.73	15.41	15.41	0.42	2.22	1.00	1.00	1.78	37.14	29.28	39.37	6,971.1	4,494.9	448.36	241.24	689.60
11	174.6	6.30	18.88	16.13	16.13	0.36	2.39	1.00	1.00	1.77	35.01	39.91	50.70	6,802.2	4,631.9	449.04	340.15	789.19
10	165.2	6.21	23.09	18.42	18.42	0.33	2.50	1.00	1.00	1.76	41.51	47.21	59.72	9,288.4	6,011.8	547.13	408.40	955.53
9	155.0	6.09	24.22	19.25	19.25	0.31	2.55	1.00	1.00	1.75	43.47	67.45	62.26	9,618.1	6,352.8	574.84	518.98	1,093.82
8	143.7	5.96	26.82	19.73	19.73	0.24	2.80	1.00	1.00	1.74	46.55	93.23	91.67	14,503.5	9,462.6	660.25	777.39	1,437.64
7	131.2	5.81	27.59	20.24	20.24	0.23	2.86	1.00	1.00	1.72	47.83	113.41	118.39	16,227.7	10,527.	676.76	989.55	1,666.31
6	118.7	5.65	28.39	20.74	20.74	0.21	2.92	1.00	1.00	1.70	49.13	115.78	119.91	16,715.5	10,804.	688.80	991.90	1,680.70
5	100.0	5.38	59.23	42.89	42.89	0.20	2.99	1.00	1.00	1.68	102.12	232.37	237.41	35,919.2	22,296.	1,396.33	1,912.6	3,309.00
4	81.25	5.07	30.84	22.06	22.06	0.18	3.05	1.00	1.00	1.64	52.90	115.68	116.27	18,716.7	11,312.	695.26	901.28	1,596.55
3	62.50	4.70	68.39	34.59	34.59	0.16	3.15	1.00	1.00	1.60	102.98	231.94	231.84	33,879.0	20,152.	1,297.36	1,708.5	3,005.90
2	37.50	4.06	71.64	34.04	34.04	0.15	3.22	1.00	1.00	1.52	105.68	230.07	221.56	34,215.4	19,801.	1,173.97	1,457.6	2,631.58
1	12.50	3.81	76.58	31.58	31.58	0.14	3.27	1.00	1.00	1.36	108.16	222.49	167.51	36,182.0	17,780.	1,145.10	1,209.9	2,355.03
														239,038.8	143,629.			21,210.86

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Section Forces

LoadCase 1.2D + 1.0Di + 1.0Wi 45 deg

50.00 mph 45 deg with 0.75 in Radial Ice

Gust Response Factor : 0.85

Dead Load Factor : 1.20

Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00

Ice Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total	Total	Ice	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Total Weight (lb)				Weight Ice (lb)
12	183.2	6.39	21.73	15.41	15.41	0.42	2.22	1.20	1.20	1.78	44.57	29.28	39.37	6,971.1	4,494.9	538.03	241.24	779.27
11	174.6	6.30	18.88	16.13	16.13	0.36	2.39	1.20	1.20	1.77	42.01	39.91	50.70	6,802.2	4,631.9	538.85	340.15	879.00
10	165.2	6.21	23.09	18.42	18.42	0.33	2.50	1.20	1.20	1.76	49.81	47.21	59.72	9,288.4	6,011.8	656.55	408.40	1,064.96
9	155.0	6.09	24.22	19.25	19.25	0.31	2.55	1.20	1.20	1.75	52.16	67.45	62.26	9,618.1	6,352.8	689.81	518.98	1,208.79
8	143.7	5.96	26.82	19.73	19.73	0.24	2.80	1.18	1.18	1.74	55.06	93.23	91.67	14,503.5	9,462.6	781.08	777.39	1,558.47
7	131.2	5.81	27.59	20.24	20.24	0.23	2.86	1.17	1.17	1.72	55.99	113.41	118.39	16,227.7	10,527.	792.23	989.55	1,781.78
6	118.7	5.65	28.39	20.74	20.74	0.21	2.92	1.16	1.16	1.70	57.00	115.78	119.91	16,715.5	10,804.	799.25	991.90	1,791.15
5	100.0	5.38	59.23	42.89	42.89	0.20	2.99	1.15	1.15	1.68	117.21	232.37	237.41	35,919.2	22,296.	1,602.78	1,912.6	3,515.45
4	81.25	5.07	30.84	22.06	22.06	0.18	3.05	1.14	1.14	1.64	60.18	115.68	116.27	18,716.7	11,312.	790.97	901.28	1,692.25
3	62.50	4.70	68.39	34.59	34.59	0.16	3.15	1.12	1.12	1.60	115.43	231.94	231.84	33,879.0	20,152.	1,454.15	1,708.5	3,162.69
2	37.50	4.06	71.64	34.04	34.04	0.15	3.22	1.11	1.11	1.52	117.37	230.07	231.56	34,215.4	19,801.	1,303.76	1,457.6	2,761.38
1	12.50	3.81	76.58	31.58	31.58	0.14	3.27	1.10	1.10	1.36	119.20	222.49	167.51	36,182.0	17,780.	1,262.03	1,209.9	2,471.96
														239,038.8	143,629.			22,667.15

LoadCase 1.0D + 1.0W Service Normal

Serviceability - 60.00 Wind Normal

Gust Response Factor : 0.85

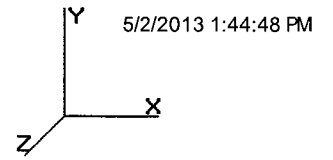
Dead Load Factor : 1.00

Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total	Total	Ice	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Total Weight (lb)				Weight Ice (lb)
12	183.2	9.20	21.73	0.00	0.00	0.25	2.76	1.00	1.00	0.00	21.73	22.35	0.00	2,063.5	0.0	468.92	142.05	610.96
11	174.6	9.08	18.88	0.00	0.00	0.20	2.98	1.00	1.00	0.00	18.88	29.77	0.00	1,808.6	0.0	434.43	189.78	624.21
10	165.2	8.94	23.09	0.00	0.00	0.19	3.04	1.00	1.00	0.00	23.09	35.27	0.00	2,730.5	0.0	533.16	221.27	754.43
9	155.0	8.78	24.22	0.00	0.00	0.18	3.08	1.00	1.00	0.00	24.22	49.75	0.00	2,721.1	0.0	556.74	314.34	871.08
8	143.7	8.59	26.82	0.00	0.00	0.14	3.24	1.00	1.00	0.00	26.82	70.79	0.00	4,200.8	0.0	633.55	430.60	1,064.14
7	131.2	8.37	27.59	0.00	0.00	0.13	3.28	1.00	1.00	0.00	27.59	88.30	0.00	4,749.9	0.0	644.35	514.90	1,159.25
6	118.7	8.13	28.39	0.00	0.00	0.13	3.32	1.00	1.00	0.00	28.39	90.92	0.00	4,925.7	0.0	651.88	513.42	1,165.30
5	100.0	7.74	59.23	0.00	0.00	0.12	3.37	1.00	1.00	0.00	59.23	183.49	0.00	11,352.2	0.0	1,313.40	985.48	2,298.88
4	81.25	7.30	30.84	0.00	0.00	0.11	3.41	1.00	1.00	0.00	30.84	91.74	0.00	6,170.4	0.0	651.71	464.36	1,116.07
3	62.50	6.77	68.39	0.00	0.00	0.11	3.41	1.00	1.00	0.00	68.39	185.31	0.00	11,438.5	0.0	1,341.30	869.17	2,210.47
2	37.50	5.85	71.64	0.00	0.00	0.10	3.45	1.00	1.00	0.00	71.64	185.76	0.00	12,011.7	0.0	1,227.43	752.76	1,980.20
1	12.50	5.48	76.58	0.00	0.00	0.10	3.46	1.00	1.00	0.00	76.58	190.73	0.00	15,334.9	0.0	1,236.73	684.90	1,921.63
														79,507.8	0.0			15,776.62

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Section Forces

LoadCase 1.0D + 1.0W Service 45 deg

Serviceability - 60.00 Wind 45 deg

Gust Response Factor : 0.85
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total	Total	Ice		Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)														
12	183.2	9.20	21.73	0.00	0.00	0.25	2.76	1.19	1.19	0.00	25.88	22.35	0.00	2,063.5	0.0	558.39	142.05	700.44	
11	174.6	9.08	18.88	0.00	0.00	0.20	2.98	1.15	1.15	0.00	21.70	29.77	0.00	1,808.6	0.0	499.42	189.78	689.20	
10	165.2	8.94	23.09	0.00	0.00	0.19	3.04	1.14	1.14	0.00	26.31	35.27	0.00	2,730.5	0.0	607.60	221.27	828.87	
9	155.0	8.78	24.22	0.00	0.00	0.18	3.08	1.13	1.13	0.00	27.43	49.75	0.00	2,721.1	0.0	630.59	314.34	944.93	
8	143.7	8.59	26.82	0.00	0.00	0.14	3.24	1.11	1.11	0.00	29.70	70.79	0.00	4,200.8	0.0	701.64	430.60	1,132.24	
7	131.2	8.37	27.59	0.00	0.00	0.13	3.28	1.10	1.10	0.00	30.36	88.30	0.00	4,749.9	0.0	708.87	514.90	1,223.77	
6	118.7	8.13	28.39	0.00	0.00	0.13	3.32	1.09	1.09	0.00	31.06	90.92	0.00	4,925.7	0.0	713.23	513.42	1,226.65	
5	100.0	7.74	59.23	0.00	0.00	0.12	3.37	1.09	1.09	0.00	64.38	183.49	0.00	11,352.2	0.0	1,427.57	985.48	2,413.05	
4	81.25	7.30	30.84	0.00	0.00	0.11	3.41	1.08	1.08	0.00	33.34	91.74	0.00	6,170.4	0.0	704.63	464.36	1,168.99	
3	62.50	6.77	68.39	0.00	0.00	0.11	3.41	1.08	1.08	0.00	73.94	185.31	0.00	11,438.5	0.0	1,450.09	869.17	2,319.26	
2	37.50	5.85	71.64	0.00	0.00	0.10	3.45	1.08	1.08	0.00	77.06	185.76	0.00	12,011.7	0.0	1,320.25	752.76	2,073.01	
1	12.50	5.48	76.58	0.00	0.00	0.10	3.46	1.07	1.07	0.00	82.16	190.73	0.00	15,334.9	0.0	1,326.79	684.90	2,011.69	
															79,507.8	0.0			16,732.08

LoadCase 0.9D + 1.6W Normal

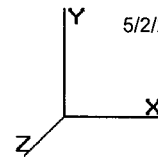
95.00 mph Normal to Face with No Ice (Reduced DL)

Gust Response Factor : 0.85
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Sect Seq	Height (ft)	Wind qz (psf)	Total	Total	Ice		Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)														
12	183.2	23.07	21.73	0.00	0.00	0.25	2.76	1.00	1.00	0.00	21.73	22.35	0.00	1,857.2	0.0	1,880.87	569.77	2,450.64	
11	174.6	22.76	18.88	0.00	0.00	0.20	2.98	1.00	1.00	0.00	18.88	29.77	0.00	1,627.8	0.0	1,742.54	761.22	2,503.76	
10	165.2	22.40	23.09	0.00	0.00	0.19	3.04	1.00	1.00	0.00	23.09	35.27	0.00	2,457.4	0.0	2,138.57	887.54	3,026.11	
9	155.0	22.00	24.22	0.00	0.00	0.18	3.08	1.00	1.00	0.00	24.22	49.75	0.00	2,449.0	0.0	2,233.15	1,260.8	3,493.98	
8	143.7	21.53	26.82	0.00	0.00	0.14	3.24	1.00	1.00	0.00	26.82	70.79	0.00	3,780.7	0.0	2,541.22	1,727.1	4,268.40	
7	131.2	20.98	27.59	0.00	0.00	0.13	3.28	1.00	1.00	0.00	27.59	88.30	0.00	4,274.9	0.0	2,584.57	2,065.3	4,649.88	
6	118.7	20.38	28.39	0.00	0.00	0.13	3.32	1.00	1.00	0.00	28.39	90.92	0.00	4,433.1	0.0	2,614.76	2,059.3	4,674.14	
5	100.0	19.41	59.23	0.00	0.00	0.12	3.37	1.00	1.00	0.00	59.23	183.49	0.00	10,217.0	0.0	5,268.18	3,952.8	9,221.05	
4	81.25	18.29	30.84	0.00	0.00	0.11	3.41	1.00	1.00	0.00	30.84	91.74	0.00	5,553.4	0.0	2,614.10	1,862.5	4,476.69	
3	62.50	16.97	68.39	0.00	0.00	0.11	3.41	1.00	1.00	0.00	68.39	185.31	0.00	10,294.7	0.0	5,380.10	3,486.3	8,866.43	
2	37.50	14.66	71.64	0.00	0.00	0.10	3.45	1.00	1.00	0.00	71.64	185.76	0.00	10,810.5	0.0	4,923.37	3,019.4	7,942.79	
1	12.50	13.75	76.58	0.00	0.00	0.10	3.46	1.00	1.00	0.00	76.58	190.73	0.00	13,801.4	0.0	4,960.66	2,737.9	7,698.57	
															71,557.1	0.0			63,272.44

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Tower Loading

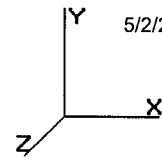
Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (ft)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
187.5	Ericsson AIR 21, 1.3M, B2A	3	83.00	6.050	256.13	7.172	4.670	12.00	8.000	0.80	0.71	5.500
187.5	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	254.58	7.217	4.670	12.10	7.900	0.80	0.70	5.500
187.5	Ericsson KRY 112 144/1	3	11.00	0.410	27.91	0.641	0.580	6.100	2.700	0.80	0.33	5.500
187.5	Pipe Mount	6	150.00	3.300	417.07	5.650	6.000	6.000	6.000	1.00	1.00	3.000
187.5	Platform	1	4000.00	70.000	6934.21	101.40	0.000	0.000	0.000	1.00	1.00	0.000
185.0	DragonWave A-ANT-23G-2.5-	1	47.60	8.430	222.83	10.771	2.920	35.00	0.000	0.80	0.80	0.000
185.0	Round Side Arm	3	150.00	5.200	224.78	7.978	0.000	0.000	0.000	1.00	0.67	0.000
185.0	Argus LLPX310R	3	28.60	4.290	139.15	5.209	3.500	11.80	4.500	0.80	0.73	0.000
185.0	DragonWave Horizon	2	10.60	0.430	41.66	0.666	0.390	9.300	9.300	0.80	0.50	0.000
185.0	DragonWave A-ANT-11G-4-C	1	121.00	17.760	566.44	22.693	4.230	50.80	0.000	0.80	1.00	0.000
185.0	NextNet BTS-2500	3	35.00	1.820	94.36	2.411	1.610	11.30	5.100	0.80	0.73	0.000
182.0	Alcatel-Lucent 4x40W RRH	3	91.00	3.290	219.23	3.148	1.900	13.00	17.30	0.80	0.67	0.000
182.0	Alcatel-Lucent 2X50W RRH	3	64.00	2.060	196.12	4.172	2.580	13.00	12.20	0.80	0.67	0.000
182.0	RFS APXVSP18-C-A20	3	57.00	8.020	260.34	9.336	6.000	11.80	7.000	0.80	0.69	0.000
182.0	Decibel DB844H90E-A	6	10.00	3.800	122.67	4.717	4.000	8.500	6.000	0.80	0.72	0.000
182.0	Flat Light Sector Frames	3	400.00	17.900	706.19	33.251	0.000	0.000	0.000	0.75	0.75	0.000
182.0	EMS RR90-17-04DPL2	3	18.00	4.356	118.27	5.363	4.667	8.000	2.750	0.80	0.73	0.000
170.3	Catwalk	1	3000.00	55.000	5156.91	82.525	0.000	0.000	0.000	1.00	1.00	0.000
160.0	Ericsson RRUS 11 (Band 12)	6	55.00	2.520	135.74	3.167	1.480	17.00	7.200	0.80	0.50	0.000
160.0	Powerwave P65-16-XLH-RR	3	53.00	8.130	245.42	9.434	6.000	12.00	6.000	0.80	0.67	0.000
160.0	Powerwave 7770.00	6	35.00	5.510	170.64	6.564	4.580	11.00	5.000	0.80	0.65	0.000
160.0	Raycap DC6-48-60-18-8F	1	31.80	1.470	125.13	1.939	2.000	11.00	11.00	0.80	1.00	0.000
160.0	Powerwave LGP21401	6	14.10	1.100	47.90	1.565	1.200	9.200	2.600	0.80	0.50	0.000
160.0	Flat Light Sector Frames	3	400.00	17.900	702.58	33.070	0.000	0.000	0.000	0.75	0.75	0.000
142.0	Antel BXA-171085-8BF-EDIN-X	3	10.00	2.944	85.85	3.803	4.063	6.060	3.150	0.80	0.87	4.000
142.0	Antel LPA-80080/4CF	2	12.00	5.400	145.28	6.384	3.933	13.20	5.500	0.80	0.74	4.000
142.0	Antel BXA-70063/6CF	3	17.00	7.570	181.52	8.801	5.910	11.20	4.500	0.80	0.75	4.000
142.0	RFS FD9R6004/2C-3L	6	3.10	0.370	15.99	0.578	0.483	6.500	1.500	0.80	0.50	4.000
142.0	Antel LPA-80063/4CF	4	20.00	6.140	223.18	7.174	3.953	15.20	13.19	0.80	0.94	4.000
142.0	Flat Light Sector Frames	3	400.00	17.900	697.57	32.819	0.000	0.000	0.000	0.75	0.75	0.000
137.5	Rest Platform	1	400.00	17.900	697.57	32.819	0.000	0.000	0.000	1.00	1.00	0.000
122.0	Flat Side Arm	1	150.00	6.300	221.61	8.706	0.000	0.000	0.000	1.00	1.00	0.000
122.0	Dielectric TLP-16A-1E	1	290.00	23.700	1076.62	31.864	24.70	10.00	10.00	1.00	1.00	12.35
100.0	Platform	1	2000.00	40.000	3367.50	59.038	0.000	0.000	0.000	1.00	1.00	0.000
87.50	Rest Platform	1	400.00	17.900	683.64	32.120	0.000	0.000	0.000	1.00	1.00	0.000
70.00	Andrew DB616E-BC	1	51.00	6.730	299.78	13.072	19.25	3.500	3.500	1.00	1.00	10.00
70.00	Round Side Arm	1	150.00	5.200	217.15	7.694	0.000	0.000	0.000	1.00	1.00	0.000
50.00	Rest Platform	1	400.00	17.900	662.53	31.062	0.000	0.000	0.000	1.00	1.00	0.000
Totals		105	18467.10		40188.62					Number of Appurtenances : 38		

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
5.00	187.5	1 5/8" Coax	6	1.98	0.82	50	3	Block	0.00	N	0.00	1.00	0.00
5.00	187.5	1 5/8" Coax	6	1.98	0.82	0	Lin App	Individual	0.00	N	0.00	1.00	0.00
5.00	187.5	1 5/8" Fiber	1	1.63	1.61	0	Lin App	Individual	0.00	N	1.00	1.00	0.00

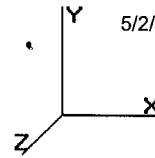
Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Tower Loading

5.00	187.5	Climbing Ladder	1	2.00	6.90	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
5.00	187.5	Wave Guide	1	2.00	6.00	0	3	Individual	0.00	N	1.00	1.00	0.00
5.00	185.0	1/2" Coax	2	0.63	0.15	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
5.00	185.0	2" Conduit	1	2.38	3.65	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
5.00	185.0	5/16" Coax	6	0.00	0.04	0	Lin App	Individual	0.00	N	0.00	1.00	0.01
5.00	182.0	1 1/4" Hybriflex	3	1.54	1.00	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
5.00	182.0	1 5/8" Coax	12	1.98	0.82	33	4	Block	0.00	N	0.00	1.00	0.00
5.00	182.0	Wave Guide	1	2.00	6.00	0	4	Individual	0.00	N	1.00	1.00	0.00
5.00	160.0	0.28" RG6	1	0.28	0.03	0	Lin App	Individual	0.00	N	1.00	0.00	0.01
5.00	160.0	0.74" 8 AWG 7	2	0.74	0.49	0	Lin App	Individual	0.00	N	1.00	0.00	0.01
5.00	160.0	1 5/8" Coax	12	1.98	0.82	50	3	Block	0.00	N	0.00	1.00	0.00
5.00	160.0	3" Conduit	1	3.50	7.58	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
5.00	160.0	Wave Guide	1	2.00	6.00	0	3	Individual	0.00	N	1.00	1.00	0.00
5.00	142.0	1 5/8" Coax	12	1.98	0.82	0	1	Individual	0.00	N	1.00	1.00	0.00
5.00	139.9	Wave Guide	1	2.00	6.00	0	1	Individual	0.00	N	1.00	1.00	0.00
5.00	122.0	3 1/8" Hard Line	1	3.31	1.13	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	70.00	7/8" Coax	1	1.09	0.33	0	Lin App	Individual	0.00	N	1.00	1.00	0.00
10.00	18.33	Coax Cage	4	15.0	50.0	0	2,4	Individual	0.00	N	1.00	1.00	0.00

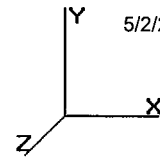
Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Force/Stress Summary

Section: 1		1		Bot Elev (ft): 0.00				Height (ft): 25.000								
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 8X8X0.875	-206.78	1.2D + 1.6W 45	25.10	33	33	33	63.3	36.0	347.12	0	0	0.00	0.00	59	Member Z
HORIZ	DAL - 3X2.5X0.3125	-10.81	1.2D + 1.6W	14.66	100	100	25	171.7	36.0	24.84	0	0	0.00	0.00	43	Member X
DIAG	DAS - 3.5X3X0.25	-22.54	1.2D + 1.6W	29.84	33	66	8	145.0	36.0	33.61	0	0	0.00	0.00	67	Member Y
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls				
LEG	SAE - 8X8X0.875	160.40	0.9D + 1.6W 45	36	58	428.65	0	0	0.00	0.00	37	Member				
HORIZ	DAL - 3X2.5X0.3125	11.41	1.2D + 1.6W	36	58	104.98	0	0	0.00	0.00	10	Member				
DIAG	DAS - 3.5X3X0.25	20.70	1.2D + 1.6W	36	58	101.41	0	0	0.00	0.00	20	Member				
Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type									
Top Tension		159.39	0.9D + 1.6W 45	0.00	0	0										
Top Compression		205.71	1.2D + 1.6W 45	0.00	0											
Bot Tension		187.17	0.9D + 1.6W 45	602.76	31	4	2 1/4 A36									
Bot Compression		236.30	1.2D + 1.6W 45	0.00	0											
Section: 2		2		Bot Elev (ft): 25.00				Height (ft): 25.000								
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 8X8X0.75	-173.53	1.2D + 1.6W 45	25.10	33	33	33	62.9	36.0	300.96	0	0	0.00	0.00	57	Member Z
HORIZ	DAL - 3X2.5X0.25	-10.61	0.9D + 1.6W	13.09	100	100	25	155.3	36.0	24.63	0	0	0.00	0.00	43	Member X
DIAG	DAS - 3X2.5X0.25	-24.32	1.2D + 1.6W	29.02	33	65	8	156.7	36.0	24.19	0	0	0.00	0.00	100	Member Y
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls				
LEG	SAE - 8X8X0.75	133.06	0.9D + 1.6W 45	36	58	370.66	0	0	0.00	0.00	35	Member				
HORIZ	DAL - 3X2.5X0.25	10.99	1.2D + 1.6W	36	58	85.21	0	0	0.00	0.00	12	Member				
DIAG	DAS - 3X2.5X0.25	22.23	1.2D + 1.6W	36	58	85.21	0	0	0.00	0.00	26	Member				
Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type									
Top Tension		132.08	0.9D + 1.6W 45	0.00	0	0										
Top Compression		172.51	1.2D + 1.6W 45	0.00	0											
Bot Tension		159.39	0.9D + 1.6W 45	0.00	0											
Bot Compression		205.71	1.2D + 1.6W 45	0.00	0											

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Force/Stress Summary

Section: 3 3 Bot Elev (ft): 50.00 Height (ft): 25.000

		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member					X	Y	Z	KL/R							
LEG	SAE - 8X8X0.75	-138.62	1.2D + 1.6W 45	25.10	33	33	33	62.9	36.0	300.96	0	0	0.00	0.00	46 Member Z
HORIZ	DAE - 2.5X2.5X0.25	-9.60	1.2D + 1.6W	11.53	100	100	25	165.7	36.0	19.57	0	0	0.00	0.00	49 Member X
DIAG	DAS - 3X2.5X0.25	-24.69	1.2D + 1.6W	28.26	33	66	8	155.0	36.0	24.73	0	0	0.00	0.00	99 Member Y

		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
Max Tension Member													
LEG	SAE - 8X8X0.75	104.59	0.9D + 1.6W 45	36	58	370.66	0	0	0	0.00	0.00	28	Member
HORIZ	DAE - 2.5X2.5X0.25	10.16	1.2D + 1.6W	36	58	77.11	0	0	0	0.00	0.00	13	Member
DIAG	DAS - 3X2.5X0.25	22.76	1.2D + 1.6W	36	58	85.21	0	0	0	0.00	0.00	26	Member

		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Max Splice Forces							
Top Tension		103.70	0.9D + 1.6W 45	0.00	0	0	
Top Compression		137.67	1.2D + 1.6W 45	0.00	0		
Bot Tension		132.08	0.9D + 1.6W 45	0.00	0		
Bot Compression		172.51	1.2D + 1.6W 45	0.00	0		

Section: 4 4 Bot Elev (ft): 75.00 Height (ft): 12.500

		Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member					X	Y	Z	KL/R							
LEG	SAE - 6X6X0.875	-120.81	1.2D + 1.6W 45	12.55	50	50	50	64.4	36.0	253.50	0	0	0.00	0.00	47 Member Z
HORIZ	DAE - 2.5X2.5X0.25	-8.54	1.2D + 1.6W	10.75	100	100	50	165.8	36.0	19.56	0	0	0.00	0.00	43 Member Y
DIAG	DAE - 2.5X2.5X0.25	-14.45	1.2D + 1.6W	17.02	50	100	12	167.1	36.0	19.26	0	0	0.00	0.00	75 Member Y

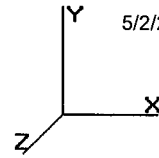
		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi	Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
Max Tension Member													
LEG	SAE - 6X6X0.875	91.52	0.9D + 1.6W 45	36	58	315.25	0	0	0	0.00	0.00	29	Member
HORIZ	DAE - 2.5X2.5X0.25	9.06	1.2D + 1.6W	36	58	77.11	0	0	0	0.00	0.00	11	Member
DIAG	DAE - 2.5X2.5X0.25	13.19	1.2D + 1.6W	36	58	77.11	0	0	0	0.00	0.00	17	Member

		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Max Splice Forces							
Top Tension		90.73	0.9D + 1.6W 45	0.00	0	0	
Top Compression		119.96	1.2D + 1.6W 45	0.00	0		
Bot Tension		103.70	0.9D + 1.6W 45	0.00	0		
Bot Compression		137.67	1.2D + 1.6W 45	0.00	0		

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1

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Force/Stress Summary

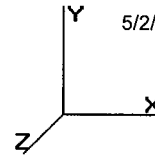
Section: 5		5		Bot Elev (ft): 87.50				Height (ft): 25.000							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 6X6X0.75	-103.74	1.2D + 1.6W 45	12.55	50	50	50	64.4	36.0	219.89	0	0	0.00	0.00	47 Member Z
HORIZ	DAE - 2.5X2.5X0.25	-7.95	1.2D + 1.6W	9.971	100	100	50	154.6	36.0	22.51	0	0	0.00	0.00	35 Member Y
DIAG	DAE - 2.5X2.5X0.25	-13.97	1.2D + 1.6W	16.50	50	100	12	162.8	36.0	20.29	0	0	0.00	0.00	68 Member Y
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	SAE - 6X6X0.75	77.80	0.9D + 1.6W 45	36	58	273.46	0	0	0.00	0.00	28	Member			
HORIZ	DAE - 2.5X2.5X0.25	8.37	1.2D + 1.6W	36	58	77.11	0	0	0.00	0.00	10	Member			
DIAG	DAE - 2.5X2.5X0.25	12.85	1.2D + 1.6W	36	58	77.11	0	0	0.00	0.00	16	Member			
Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type								
Top Tension		63.98	0.9D + 1.6W 45	0.00	0	0									
Top Compression		85.83	1.2D + 1.6W 45	0.00	0										
Bot Tension		90.73	0.9D + 1.6W 45	0.00	0										
Bot Compression		119.96	1.2D + 1.6W 45	0.00	0										

Section: 6		6		Bot Elev (ft): 112.5				Height (ft): 12.500							
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 6X6X0.5625	-69.84	1.2D + 1.6W 45	12.55	50	50	50	63.8	36.0	168.14	0	0	0.00	0.00	41 Member Z
HORIZ	DAE - 2.5X2.5X0.25	-6.77	1.2D + 1.6W	8.408	100	100	50	132.1	36.0	30.76	0	0	0.00	0.00	22 Member Y
DIAG	DAL - 2.5X2X0.25	-13.16	1.2D + 1.6W	15.53	50	100	12	188.1	36.0	13.60	0	0	0.00	0.00	96 Member Y
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls			
LEG	SAE - 6X6X0.5625	50.76	0.9D + 1.6W 45	36	58	208.33	0	0	0.00	0.00	24	Member			
HORIZ	DAE - 2.5X2.5X0.25	7.08	1.2D + 1.6W	36	58	77.11	0	0	0.00	0.00	9	Member			
DIAG	DAL - 2.5X2X0.25	12.24	1.2D + 1.6W	36	58	69.01	0	0	0.00	0.00	17	Member			
Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type								
Top Tension		50.14	0.9D + 1.6W 45	0.00	0	0									
Top Compression		69.19	1.2D + 1.6W 45	0.00	0										
Bot Tension		63.98	0.9D + 1.6W 45	0.00	0										
Bot Compression		85.83	1.2D + 1.6W 45	0.00	0										

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1

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Force/Stress Summary

Section: 7 6 Bot Elev (ft): 125.0 Height (ft): 12.500

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
				X	Y	Z								
LEG SAE - 6X6X0.5625	-53.42	1.2D + 1.6W 45	12.55	50	50	50	63.8	36.0	168.14	0	0	0.00	0.00	31 Member Z
HORIZ DAE - 2.5X2.5X0.25	-6.18	1.2D + 1.6W	7.626	100	120	50	131.2	36.0	31.18	0	0	0.00	0.00	19 Member Y
DIAG DAL - 2.5X2X0.25	-12.72	1.2D + 1.6W	15.08	50	100	12	183.4	36.0	14.30	0	0	0.00	0.00	88 Member Y

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG SAE - 6X6X0.5625	37.13	0.9D + 1.6W 45	36	58	208.33	0	0	0.00	0.00	17	Member
HORIZ DAE - 2.5X2.5X0.25	6.36	1.2D + 1.6W	36	58	77.11	0	0	0.00	0.00	8	Member
DIAG DAL - 2.5X2X0.25	11.86	1.2D + 1.6W	36	58	69.01	0	0	0.00	0.00	17	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	36.58	0.9D + 1.6W 45	0.00	0	0	
Top Compression	52.85	1.2D + 1.6W 45	0.00	0		
Bot Tension	50.14	0.9D + 1.6W 45	0.00	0		
Bot Compression	69.19	1.2D + 1.6W 45	0.00	0		

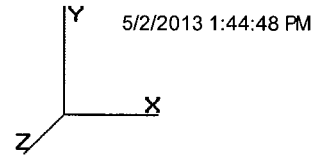
Section: 8 7 Bot Elev (ft): 137.5 Height (ft): 12.500

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
				X	Y	Z								
LEG SAE - 6X6X0.4375	-38.28	1.2D + 1.6W 45	12.55	50	50	50	63.3	36.0	132.79	0	0	0.00	0.00	28 Member Z
HORIZ DAE - 2.5X2.5X0.25	-4.45	1.2D + 1.6W	6.845	100	107	50	111.6	36.0	40.04	0	0	0.00	0.00	11 Member Y
DIAG DAL - 2.5X2X0.25	-10.78	1.2D + 1.6W	14.66	50	100	12	179.1	36.0	15.01	0	0	0.00	0.00	71 Member Y

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG SAE - 6X6X0.4375	25.30	0.9D + 1.6W 45	36	58	163.94	0	0	0.00	0.00	15	Member
HORIZ DAE - 2.5X2.5X0.25	5.31	1.2D + 1.6W	36	58	77.11	0	0	0.00	0.00	6	Member
DIAG DAL - 2.5X2X0.25	10.04	1.2D + 1.6W	36	58	69.01	0	0	0.00	0.00	14	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	24.79	0.9D + 1.6W 45	0.00	0	0	
Top Compression	37.67	1.2D + 1.6W 45	0.00	0		
Bot Tension	36.58	0.9D + 1.6W 45	0.00	0		
Bot Compression	52.85	1.2D + 1.6W 45	0.00	0		

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Force/Stress Summary

Section: 9 8 - lower Bot Elev (ft): 150.0 Height (ft): 10.167

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear (kip)	Bear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
				X	Y	Z									
LEG SAE - 5X5X0.4375	-30.19	1.2D + 1.6W 45	10.21	50	50	50	62.1	36.0	110.54	0	0	0.00	0.00	27	Member Z
HORIZ SAU - 3X2.5X0.25	-1.51	0.9D + 1.6W	12.41	50	100	50	167.9	36.0	10.50	0	0	0.00	0.00	14	Member Y
DIAG SAE - 3.5X3.5X0.25	-6.36	1.2D + 1.6W	16.55	50	50	50	137.7	36.0	20.14	0	0	0.00	0.00	31	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG SAE - 5X5X0.4375	19.69	0.9D + 1.6W 45	36	58	135.43	0	0	0.00	0.00	14	Member
HORIZ SAU - 3X2.5X0.25	2.37	1.2D + 1.6W	36	58	42.44	0	0	0.00	0.00	5	Member
DIAG SAE - 3.5X3.5X0.25	5.10	1.2D + 1.6W	36	58	54.76	0	0	0.00	0.00	9	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	14.76	0.9D + 1.6W 45	0.00	0	0	
Top Compression	26.55	1.2D + 1.6W 45	0.00	0		
Bot Tension	24.79	0.9D + 1.6W 45	0.00	0		
Bot Compression	37.67	1.2D + 1.6W 45	0.00	0		

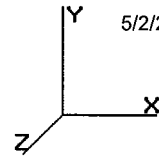
Section: 10 8 - upper Bot Elev (ft): 160.1 Height (ft): 10.167

Max Compression Member	Force (kip)	Load Case	Len (ft)	Bracing %			Fy (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear (kip)	Bear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
				X	Y	Z									
LEG SAE - 5X5X0.4375	-19.49	1.2D + 1.6W 45	10.21	50	50	50	62.1	36.0	110.54	0	0	0.00	0.00	17	Member Z
HORIZ DAL - 3X2.5X0.25	-0.86	0.9D + 1.6W	11.14	50	100	50	172.4	36.0	19.99	0	0	0.00	0.00	4	Member Y
DIAG SAE - 3.5X3.5X0.25	-5.24	1.2D + 1.6W	15.57	50	50	50	131.2	36.0	22.12	0	0	0.00	0.00	23	Member Z

Max Tension Member	Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG SAE - 5X5X0.4375	11.39	0.9D + 1.6W 45	36	58	135.43	0	0	0.00	0.00	8	Member
HORIZ DAL - 3X2.5X0.25	1.52	1.2D + 1.6W	36	58	85.21	0	0	0.00	0.00	1	Member
DIAG SAE - 3.5X3.5X0.25	4.13	1.2D + 1.6W	36	58	54.76	0	0	0.00	0.00	7	Member

Max Splice Forces	Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension	6.76	0.9D + 1.6W 45	0.00	0	0	
Top Compression	16.08	1.2D + 1.6W 45	0.00	0		
Bot Tension	14.76	0.9D + 1.6W 45	0.00	0		
Bot Compression	26.55	1.2D + 1.6W 45	0.00	0		

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Force/Stress Summary

Section: 11 9 - lower Bot Elev (ft): 170.3 Height (ft): 8.583

Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 5X5X0.3125	-10.43	1.2D + 1.6W 45	8.62	50	50	50	52.0	35.9	84.92	0	0	0.00	0.00	12 Member Z
HORIZ	SAU - 3X2.5X0.25	-0.29	1.2D + 1.6W	10.07	50	100	50	144.9	36.0	14.09	0	0	0.00	0.00	2 Member Y
DIAG	SAE - 3X3X0.25	-3.79	1.2D + 1.6W	13.65	50	50	50	134.1	36.0	18.10	0	0	0.00	0.00	20 Member Z

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SAE - 5X5X0.3125	5.01	0.9D + 1.6W 45	36	58	98.17	0	0	0.00	0.00	5	Member
HORIZ	SAU - 3X2.5X0.25	0.90	1.2D + 1.6W	36	58	42.44	0	0	0.00	0.00	2	Member
DIAG	SAE - 3X3X0.25	2.94	1.2D + 1.6W	36	58	46.66	0	0	0.00	0.00	6	Member

Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		1.67	0.9D + 1.6W 45	0.00	0	0	
Top Compression		9.60	1.2D + 1.0Di +	0.00	0		
Bot Tension		6.76	0.9D + 1.6W 45	0.00	0		
Bot Compression		16.08	1.2D + 1.6W 45	0.00	0		

Section: 12 9 - upper Bot Elev (ft): 178.9 Height (ft): 8.583

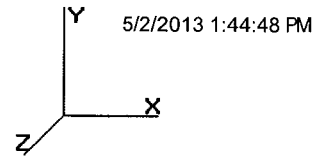
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 5X5X0.3125	-4.84	1.2D + 1.0Di +	8.62	50	50	50	52.0	35.9	84.92	0	0	0.00	0.00	5 Member Z
HORIZ	CHN - C8 x 11.5	-0.06	1.2D + 1.6W	9.000	100	100	100	160.3	36.0	29.73	0	0	0.00	0.00	0 Member Y
DIAG	SAE - 3X3X0.25	-2.92	1.2D + 1.6W	12.84	50	50	50	127.8	36.0	19.75	0	0	0.00	0.00	14 Member Z

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Fu (ksi)	phi Pn (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SAE - 5X5X0.3125	0.13	1.2D + 1.6W 45	36	58	98.17	0	0	0.00	0.00	0	Member
HORIZ	CHN - C8 x 11.5	0.06	1.2D + 1.6W	36	58	109.51	0	0	0.00	0.00	0	Member
DIAG	SAE - 3X3X0.25	2.24	1.2D + 1.6W	36	58	46.66	0	0	0.00	0.00	4	Member

Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		0.00		0.00	0	0	
Top Compression		5.47	1.2D + 1.0Di +	0.00	0		
Bot Tension		1.67	0.9D + 1.6W 45	0.00	0		
Bot Compression		9.60	1.2D + 1.0Di +	0.00	0		

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1

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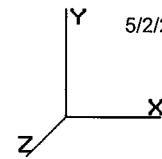


Support Forces Summary

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
0.9D + 1.6W Normal	1c	10.35	161.45	-21.55	
	1b	-7.06	-117.37	-18.42	
	1a	7.06	-117.37	-18.42	
	1	-10.35	161.45	-21.55	
1.0D + 1.0W Service 45 deg	1c	-0.26	24.61	-3.92	
	1b	-3.48	-26.97	-3.48	
	1a	-3.91	24.38	-0.26	
	1	-7.12	75.96	-7.12	
1.0D + 1.0W Service Normal	1c	4.00	59.25	-6.80	
	1b	-0.34	-10.27	-3.16	
	1a	0.34	-10.27	-3.16	
	1	-4.00	59.25	-6.80	
1.2D + 1.0Di + 1.0Wi 45 deg	1c	2.40	70.84	-7.84	
	1b	-1.70	5.40	-1.70	
	1a	-7.84	70.62	2.39	
	1	-11.92	136.06	-11.91	
1.2D + 1.0Di + 1.0Wi Normal	1c	7.85	114.40	-11.48	
	1b	2.39	27.06	-1.26	
	1a	-2.39	27.06	-1.26	
	1	-7.85	114.40	-11.48	
0.9D + 1.6W 45 deg	1c	-6.70	22.50	-10.03	
	1b	-19.72	-184.35	-19.69	
	1a	-10.00	21.59	-6.73	
	1	-22.82	228.44	-22.80	
1.2D + 1.6W 45 deg	1c	-6.15	29.85	-10.58	
	1b	-19.17	-177.11	-19.14	
	1a	-10.55	28.93	-6.18	
	1	-23.38	235.90	-23.35	
1.2D + 1.6W Normal	1c	10.91	168.88	-22.10	
	1b	-6.52	-110.09	-17.87	
	1a	6.52	-110.09	-17.87	
	1	-10.91	168.88	-22.10	

Max Uplift:	184.35 (kip)	Moment:	9,475.46 (ft-kip)	1.2D + 1.6W 45 deg
Max Down:	235.90 (kip)	Total Down:	117.57 (kip)	
Max Shear:	33.04 (kip)	Total Shear:	83.78 (kip)	

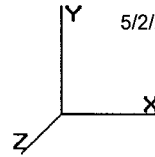
Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
Serviceability - 60.00 Wind 45 deg	50.00	0.0121	0.0332	0.0236
	75.00	0.0239	0.0507	0.0288
	87.50	0.0301	0.0684	0.0301
	100.00	0.0371	0.0885	0.0349
	125.00	0.0535	0.1347	0.0487
	137.50	0.0630	0.1484	0.0486
	160.17	0.0817	0.1652	0.0510
	170.33	0.0904	0.1765	0.0533
	178.92	0.0980	0.1923	0.0549
	187.50	0.1055	0.2053	0.0973
Serviceability - 60.00 Wind Normal	50.00	0.0116	0.0200	0.0231
	75.00	0.0228	0.0310	0.0318
	87.50	0.0288	0.0424	0.0302
	100.00	0.0354	0.0551	0.0373
	125.00	0.0512	0.0847	0.0630
	137.50	0.0603	0.0930	0.0578
	160.17	0.0780	0.1019	0.0533
	170.33	0.0864	0.1086	0.0589
	178.92	0.0937	0.1187	0.0432
	187.50	0.1009	0.1274	0.1158
50.00 mph 45 deg with 0.75 in Radial Ice	50.00	0.0190	0.0315	0.0313
	75.00	0.0337	0.0481	0.0373
	87.50	0.0413	0.0643	0.0377
	100.00	0.0498	0.0824	0.0433
	125.00	0.0697	0.1243	0.0565
	137.50	0.0811	0.1365	0.0569
	160.17	0.1027	0.1527	0.0599
	170.33	0.1130	0.1636	0.0622
	178.92	0.1218	0.1787	0.0630
	187.50	0.1306	0.1912	0.0996
50.00 mph Normal with 0.75 in Radial Ice	50.00	0.0173	0.0186	0.0297
	75.00	0.0312	0.0290	0.0403
	87.50	0.0385	0.0393	0.0366
	100.00	0.0465	0.0506	0.0447
	125.00	0.0654	0.0773	0.0704
	137.50	0.0762	0.0846	0.0636
	160.17	0.0967	0.0933	0.0609
	170.33	0.1065	0.0997	0.0667
	178.92	0.1149	0.1095	0.0508
	187.50	0.1233	0.1178	0.1209
95.00 mph 45 deg with No Ice (Reduced DL)	50.00	0.0485	0.1623	0.0945
	75.00	0.0957	0.2480	0.1158
	87.50	0.1207	0.3352	0.1214
	100.00	0.1487	0.4330	0.1416
	125.00	0.2147	0.6551	0.1960
	137.50	0.2528	0.7274	0.1999
	160.17	0.3274	0.8346	0.2103
	170.33	0.3623	0.8974	0.2210

Site Number: 88014
 Location: New Fairfield, CT
 Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure : B
 Topo : 1



	178.92	0.3927	0.9750	0.2250
	187.50	0.4229	1.0352	0.3929
95.00 mph 45 deg with No Ice	50.00	0.0485	0.1623	0.0946
	75.00	0.0958	0.2480	0.1160
	87.50	0.1208	0.3352	0.1216
	100.00	0.1488	0.4331	0.1418
	125.00	0.2148	0.6552	0.1962
	137.50	0.2530	0.7274	0.2001
	160.17	0.3276	0.8347	0.2105
	170.33	0.3625	0.8975	0.2212
	178.92	0.3930	0.9751	0.2252
	187.50	0.4232	1.0352	0.3931
95.00 mph Normal to Face with No Ice (Reduced DL)	50.00	0.0463	0.1028	0.0933
	75.00	0.0914	0.1589	0.1295
	87.50	0.1152	0.2168	0.1239
	100.00	0.1420	0.2811	0.1532
	125.00	0.2051	0.4279	0.2589
	137.50	0.2417	0.4748	0.2390
	160.17	0.3128	0.5431	0.2229
	170.33	0.3464	0.5838	0.2464
	178.92	0.3755	0.6353	0.1865
	187.50	0.4048	0.6759	0.4775
95.00 mph Normal to Face with No Ice	50.00	0.0463	0.1028	0.0934
	75.00	0.0914	0.1589	0.1296
	87.50	0.1153	0.2168	0.1240
	100.00	0.1421	0.2811	0.1533
	125.00	0.2052	0.4279	0.2591
	137.50	0.2419	0.4748	0.2392
	160.17	0.3130	0.5431	0.2231
	170.33	0.3467	0.5838	0.2466
	178.92	0.3758	0.6354	0.1867
	187.50	0.4051	0.6759	0.4779
	187.50	0.0000	0.0000	0.0000

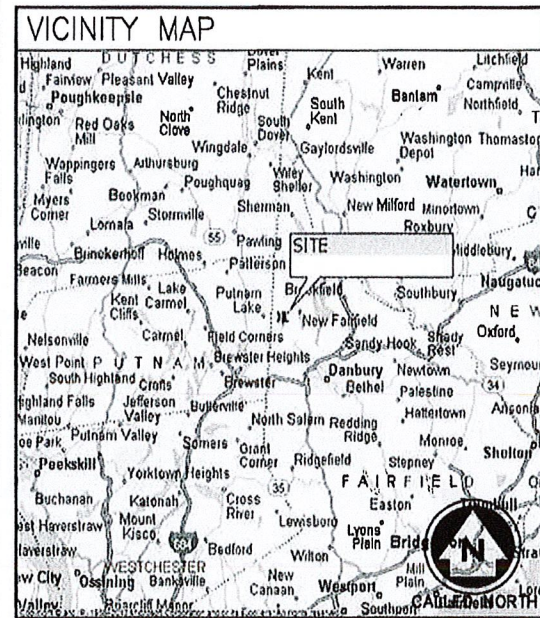
T-MOBILE NORTHEAST LLC

CT11106A

NEW FAIRFIELD (AT&T)

37 TITICUS MOUNTAIN RD.
NEW FAIRFIELD, CT 06812

(2C CONFIGURATION)



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL:
'CALL BEFORE YOU DIG'
WWW.CBYD.COM
CALL 811 OR 1-800-922-4455

CALL THREE WORKING DAYS PRIOR TO DIGGING

SAFETY PRECAUTIONS SHALL BE IMPLEMENTED BY CONTRACTORS AT ALL TRENCHES IN ACCORDANCE WITH CURRENT OSHA STANDARDS.

COLOR CODE FOR UTILITY LOCATIONS

ELECTRIC - RED	SEWER SURVEY - PINK	- GREEN
GAS/OIL - YELLOW	PROPOSED EXCAVATION - WHITE	- PINK
TEL/CATV - ORANGE	RECLAIMED WATER - PURPLE	- WHITE
WATER - BLUE		- PURPLE

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONSTRUCT BIDDING THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE T-MOBILE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXPENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND INSPECTIONS WHICH ARE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC., DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS, AS WELL AS THE LATEST EDITIONS OF ANY PERTINENT STATE SAFETY REGULATIONS.
14. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE T-MOBILE REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC., ON THE JOB.
16. THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF WORK.

PROJECT SUMMARY

SITE NUMBER:	CT11106A	APPLICANT:	T-MOBILE NORTHEAST LLC 400 STREET RD BENSALEM, PA 19020
SITE NAME:	NEW FAIRFIELD (AT&T)	PROJECT MANAGER:	AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBBURN, MA 01801
SITE ADDRESS:	37 TITICUS MOUNTAIN RD. NEW FAIRFIELD, CT 06812	CONTACT:	TARA RUSSO 717-895-2942
PROPERTY OWNER:	TBD	ARCHITECT/ENGINEER:	INFINIGY ENGINEERING 11 HERBERT DRIVE LATHAM, NY 12110
PARCEL:	TBD	CONTACT:	AJ DESANTIS 518-690-0790
CURRENT ZONING:	TBD		
JURISDICTION:	TBD		
ATC SITE NUMBER:	BB014		
LAT./LONG.:	N 41.45070' / W 73.51597'		
CONSTRUCTION TYPE:	-		
USE GROUP:	-		

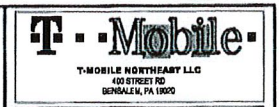
PROJECT DESCRIPTION

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> EXISTING MONOPOLE | <input checked="" type="checkbox"/> EXISTING CABINET(S) | <input checked="" type="checkbox"/> OUTDOOR |
| <input type="checkbox"/> EXISTING LATTICE TOWER | <input type="checkbox"/> EXISTING RBS 2106 | <input type="checkbox"/> INDOOR |
| <input type="checkbox"/> EXISTING TRANSMISSION TOWER | <input type="checkbox"/> EXISTING RBS 3106 | <input checked="" type="checkbox"/> EXISTING CONCRETE PAD |
| <input type="checkbox"/> EXISTING WATER TANK | <input type="checkbox"/> PROPOSED RBS 6102 | <input type="checkbox"/> EXISTING STEEL PLATFORM |
| <input type="checkbox"/> EXISTING BUILDING | <input type="checkbox"/> SITE SUPPORT KIT | <input type="checkbox"/> EXISTING PPC |
| <input type="checkbox"/> EXISTING FLAGPOLE | <input type="checkbox"/> SITE SUPPORT CABINET | <input checked="" type="checkbox"/> EXISTING PPC |
| <input type="checkbox"/> EXISTING FORT WORTH | <input checked="" type="checkbox"/> GPS | <input type="checkbox"/> PANELBOARD |

T-MOBILE NORTHEAST LLC PROPOSES THE MODIFICATION OF AN UNMANNED WIRELESS BROADBAND FACILITY. REPLACEMENT OF EXISTING PANEL ANTENNAS & TIA'S WITH PROPOSED AIR21 PANEL ANTENNAS AND ASSOCIATED CABLING. REUSE EXISTING GPS ANTENNA AND EXISTING EQUIPMENT CABINETS.

SHEET INDEX

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C-3	ANTENNA DETAIL & RF SCHEDULE	1
S-1	EQUIPMENT SPECIFICATIONS	1
E-1	GROUNDING AND POWER DIAGRAMS	1
E-2	COAX/FIBER PLUMBING DIAGRAM	1
N-1	GENERAL AND ELECTRICAL NOTES	1

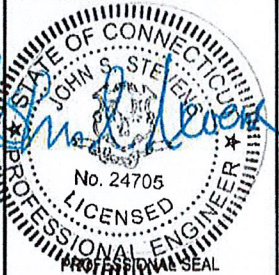


INFINIGY
11 HERBERT DRIVE
LATHAM, NY 12110
OFFICE: (518) 690-0790
FAX: (518) 690-0793

SUBMITTALS		
DATE	DESCRIPTION	REVISION
04/18/13	REVIEW	A
04/23/13	FOR PERMIT	0
05/3/13	REVISED PER COMMENTS	1

DEPT.	DATE	APP'D	REVISIONS
R/E			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AG.			

PROJECT NO: 317-0880
DRAWN BY: SKB
CHECKED BY: AJD



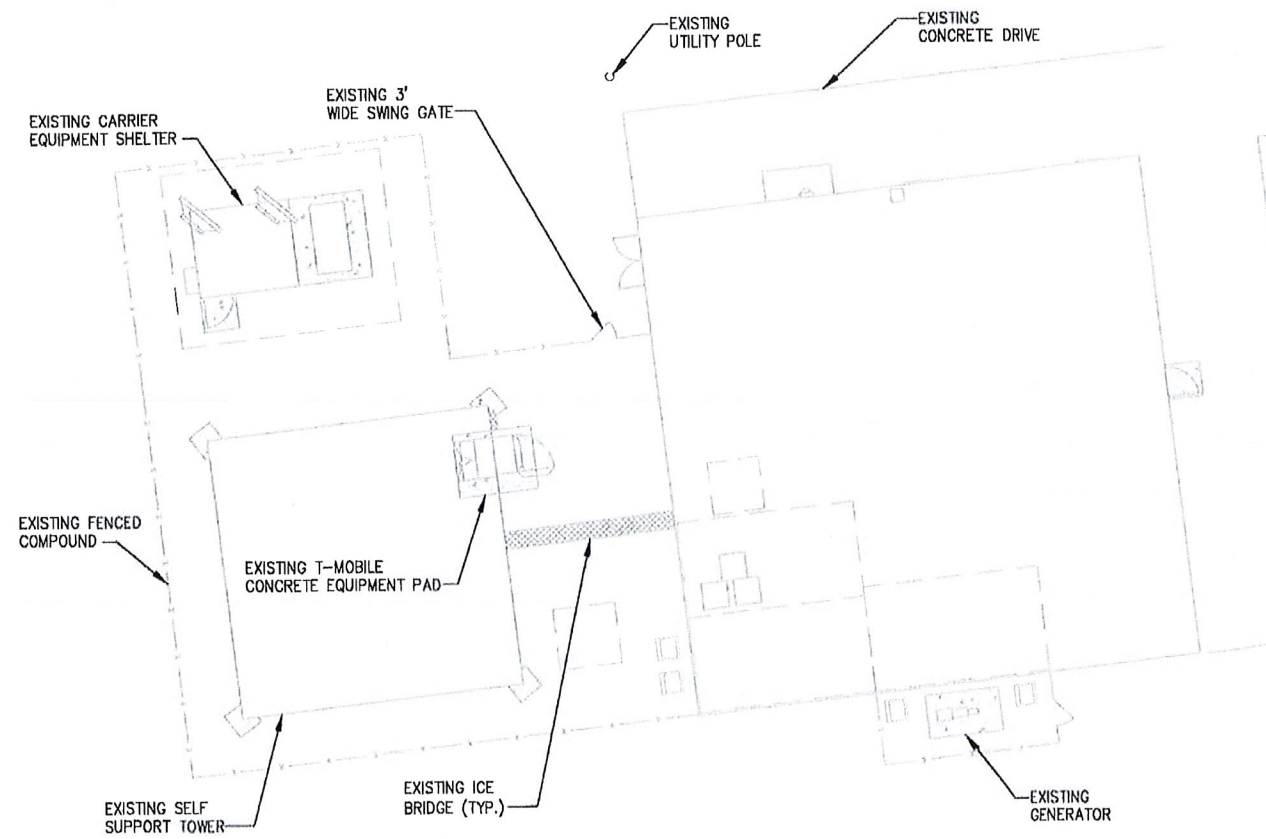
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SITE NAME
CT11106A
NEW FAIRFIELD (AT&T)
37 TITICUS MOUNTAIN RD.
NEW FAIRFIELD, CT 06812

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1
SHEET 1 OF 8 SHEETS



GENERAL SITE NOTES:

1. A COMPLETE BOUNDARY SURVEY OF THE HOST PARCEL HAS NOT BEEN PERFORMED BY INFINIGY ENGINEERING. BOUNDARY INFORMATION WAS OBTAINED FROM INFORMATION PROVIDED BY OTHERS. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
2. BASEMAPPING INFORMATION BASED ON PROVIDED INFORMATION.
3. CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.
4. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.
5. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.
6. NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS SHOWN.
7. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
8. UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
9. ALL OBSOLETE OR UNUSED FACILITIES SHALL BE REMOVED WITHIN 12 MONTHS OF CESSATION OF OPERATIONS.



T-MOBILE NORTHEAST LLC
400 STREET RD
DOUGLALEN, PA 15201

INFINIGY
 Design, Build, Deliver.
 11 HERBERT DRIVE
 LATHAM, NY 12110
 OFFICE: (518) 890-2790
 FAX: (518) 890-0785

SUBMITTALS

DATE	DESCRIPTION	REVISION
04/18/13	REVIEW	A
04/25/13	FOR PERMIT	0
05/13/13	REVISED PER COMMENTS	1

SITE LEGEND

- SITE PROPERTY LINE
- STREET OR ROAD
- - - CHAIN LINK FENCE
- OPAQUE WOODEN FENCE
- BOARD ON BOARD FENCE
- ☉ DECIDUOUS TREES/SHRUBS
- ☿ EVERGREEN TREES/SHRUBS
- TREE LINE
- ⊗ UTILITY POLE
- (E) EXISTING
- (N) NEW
- (P) PROPOSED
- (F) FUTURE
- ◐ PROP. GSM ANTENNA
- ◑ PROP. UMTS ANTENNA
- ◒ EX. GSM ANTENNA
- ◓ EX. UMTS ANTENNA

DEPT.	DATE	APP'D	REVISIONS
RFI			
RFI MARK			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: 317-0880
DRAWN BY: SKB
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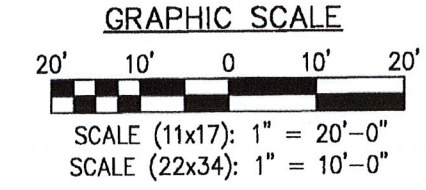
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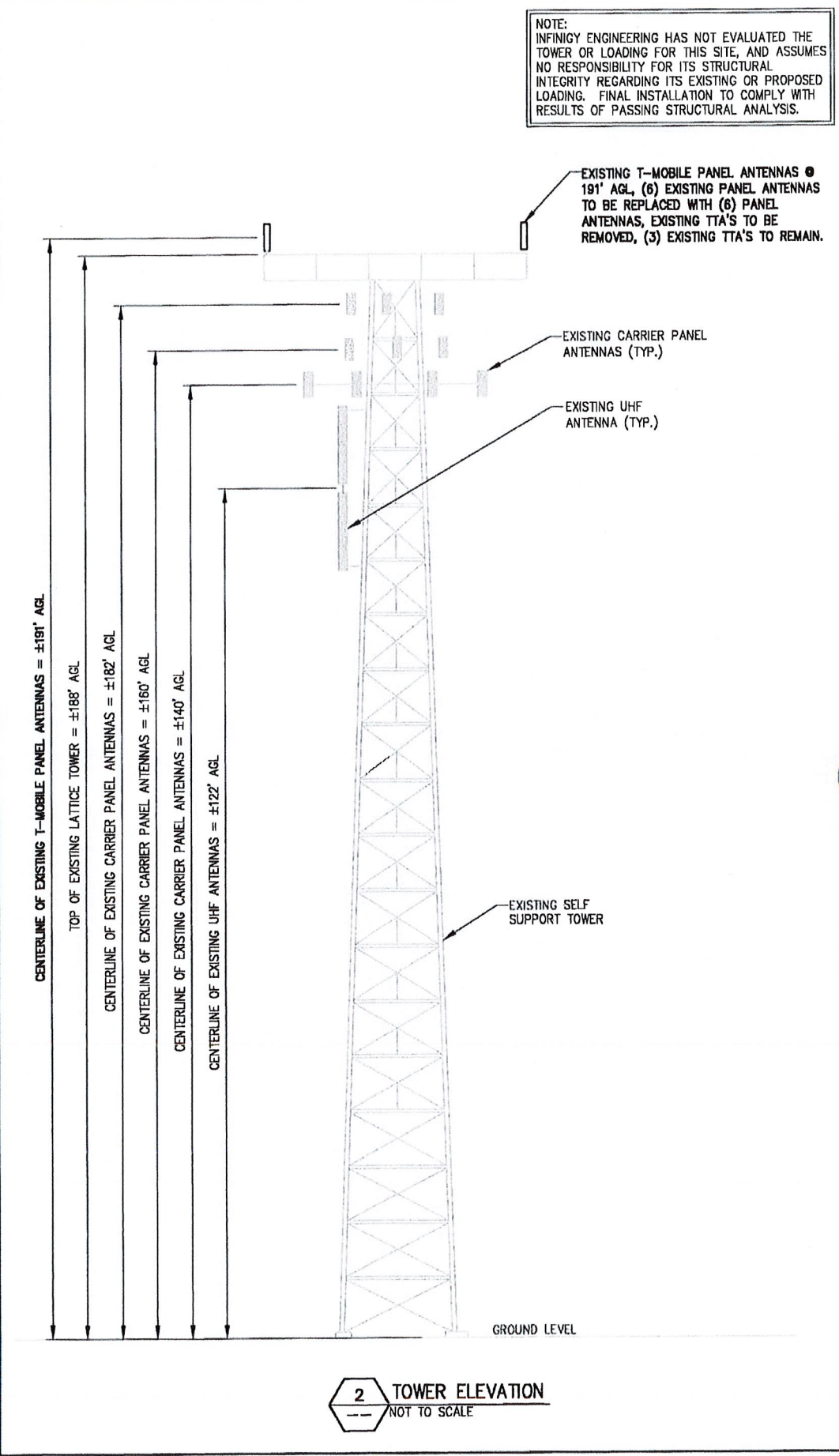
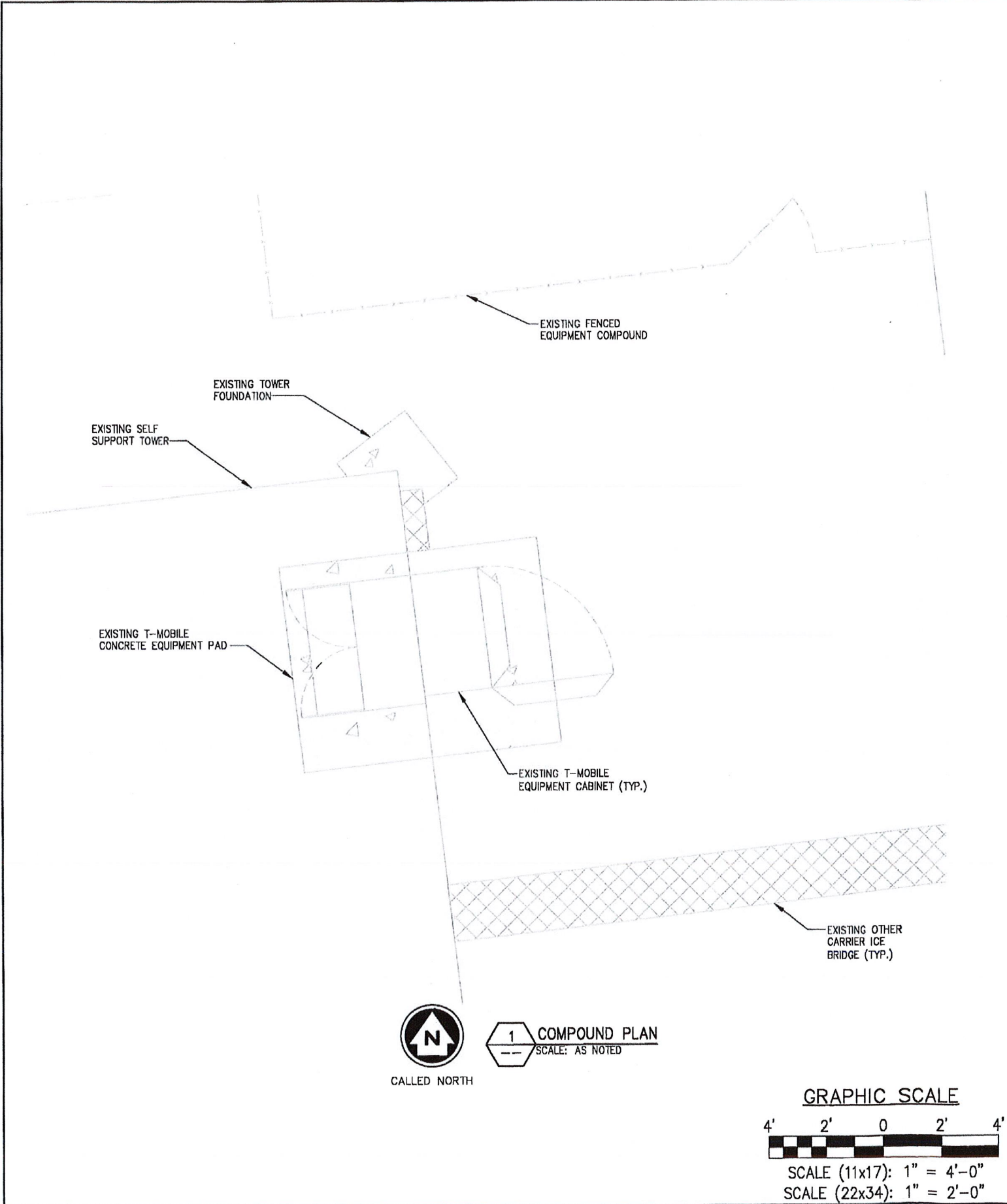
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SITE NAME
CT11106A
 NEW FAIRFIELD (AT&T)
 37 TITICUS MOUNTAIN RD.
 NEW FAIRFIELD, CT 06812

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1
 SHEET 2 OF 8 SHEETS



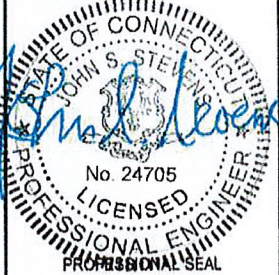


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SUBMITTALS		
DATE	DESCRIPTION	REVISION
04/19/13	REVIEW	A
04/22/13	FOR PERMIT	B
04/23/13	REVISED PER COMMENTS	1

DEPT.	DATE	APP'D	REVISIONS
EST			
RF MAN			
ZONING			
OPS			
CONSTR.			
SITE AC.			

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CT11106A
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37 TITICUS MOUNTAIN RD.
NEW FAIRFIELD, CT 06812

SHEET TITLE
COMPOUND PLAN & ELEVATION

SHEET NUMBER
C-2
SHEET 3 OF 8 SHEETS

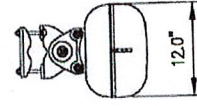
RF SYSTEM SCHEDULE (2C CONFIGURATION)

SECTOR	TECHNOLOGY	ANTENNA PORT	BAND	ANTENNA MODEL #	VENDOR	AZIMUTH	M-TILT	E-TILT	ANTENNA CENTERLINE	TMA MODEL #	VENDOR	CABLE LENGTH	CABLE DIAMETER	CABLE TYPE	CABLE MODEL #	VENDOR	CABLE TAGGING	COLOR CODING	JUMPER TYPE	JUMPER TAGGING	COLOR CODING							
A	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	60°	0°	2'	191'-0"	ATMAA1412D	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS A1	B	COAX	UMTS AWS A1	B							
		EXISTING										1-5/8"	COAX	EXISTING	N/A	UMTS AWS A2	B	COAX	UMTS AWS A2	B								
	LMU	LMU #1	-							EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU A1	-	COAX	LMU A1	-									
		LMU #2								EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU A2	-	COAX	LMU A2	-									
	GSM	OPTICAL #1	B2A							210±	-	HYBRID	MASTERLINE EXTREME HYBRID (3x6)	ERICSSON	FIBER 1	0	FIBER	GSM 1900 A1	R									
		OPTICAL #2								FIBER	UMTS 1900 A2	G																
	LTE AWS	OPTICAL #1	B4A							AIR21	ERICSSON	60°	0°	2'	191'-0"	-	-	-	-	HYBRID	LTE FIBER 1	Y						
	B	UMTS AWS	RF #1							B4P	AIR21	ERICSSON	180°	0°	2'	191'-0"	ATMAA1412D	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS B1	BB	COAX	UMTS AWS B1	BB
			EXISTING																1-5/8"	COAX	EXISTING	N/A	UMTS AWS B2	BB	COAX	UMTS AWS B2	BB	
		LMU	LMU #1							-							EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU B1	-	COAX	LMU B1	-		
LMU #2			EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU B2	-								COAX	LMU B2	-									
GSM		OPTICAL #1	B2A	(ANTENNA CONNECTED VIA SINGLE SHARED MLE HYBRID GEN2 CABLE. SEE SECTOR "A")													HYBRID	GSM 1900 B1	RR									
		OPTICAL #2		HYBRID	UMTS 1900 B2	GG																						
LTE AWS		OPTICAL #1	B4A	AIR21	ERICSSON	180°	0°	2'	191'-0"	-							-	-	-	HYBRID	LTE FIBER 2	YY						
C		UMTS AWS	RF #1	B4P	AIR21	ERICSSON	300°	0°	6'	191'-0"							ATMAA1412D	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS C1	BBB	COAX	UMTS AWS C1	BBB
			EXISTING																1-5/8"	COAX	EXISTING	N/A	UMTS AWS C2	BBB	COAX	UMTS AWS C2	BBB	
		LMU	LMU #1	-													EXISTING	1-5/8"	COAX	EXISTING	N/A	LMU C1	-	COAX	LMU C1	-		
	LMU #2		EXISTING								1-5/8"	COAX	EXISTING	N/A	LMU C2	-	COAX	LMU C2	-									
	GSM	OPTICAL #1	B2A	(ANTENNA CONNECTED VIA SINGLE SHARED MLE HYBRID GEN2 CABLE. SEE SECTOR "A")										HYBRID	GSM 1900 C1	RRR												
		OPTICAL #2		HYBRID							UMTS 1900 C2	GGG																
	LTE AWS	OPTICAL #1	B4A	AIR21							ERICSSON	300°	0°	6'	191'-0"	-	-	-	-	HYBRID	LTE FIBER 3	YYY						

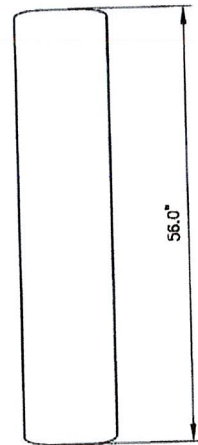
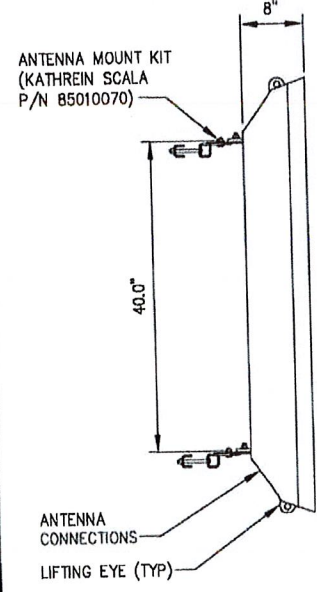
1 RF SCHEDULE NOT TO SCALE

KEY

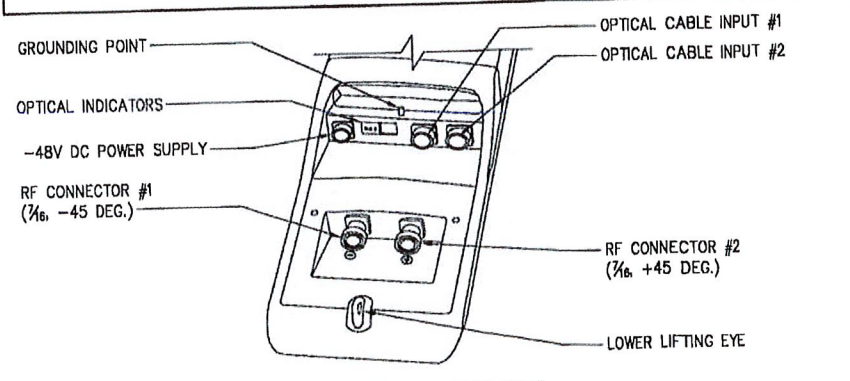
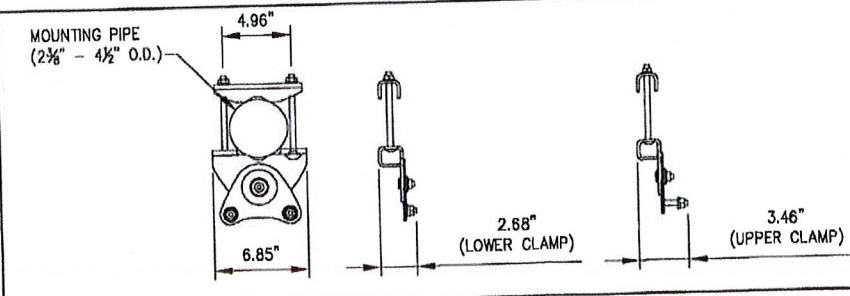
EXISTING	R - RED - GSM
PROPOSED	G - GREEN - UMTS 1900
FIBER CONNECTION	B - BLUE - UMTS AWS
	Y - YELLOW - LTE
	O - ORANGE - FIBER CABLE



AIR21 "ANTENNA INTEGRATED RADIO"
(PCS & AWS VERSIONS)
WEIGHT: 83LBS (MAX)



2 ANTENNA DETAIL NOT TO SCALE



ANTENNA CONNECTION INTERFACE DETAIL NOT TO SCALE



METALLIC TAG NOTES:

- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN (3) THREE FEET.
- CABLES LESS THAN (3) THREE FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.
- TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.
- STANDARDIZED METALLIC TAG KITS WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL CONFIGURATIONS.

3 METALLIC TAG DETAIL NOT TO SCALE



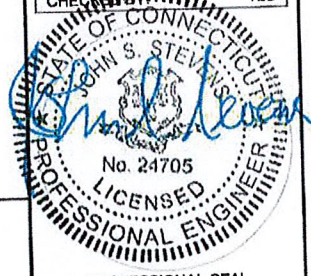
INFINIGY8
11 HERBERT DRIVE
OPTICAL CENTER
BENSALEM, PA 19020
TEL: (610) 680-0790
FAX: (610) 680-0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
04/18/13	REVIEW	A
04/25/13	FOR PERMIT	0
08/13/13	REVISED PER COMMENTS	1

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC			

PROJECT NO: 317-0980
DRAWN BY: SKB
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PROFESSIONAL SEAL

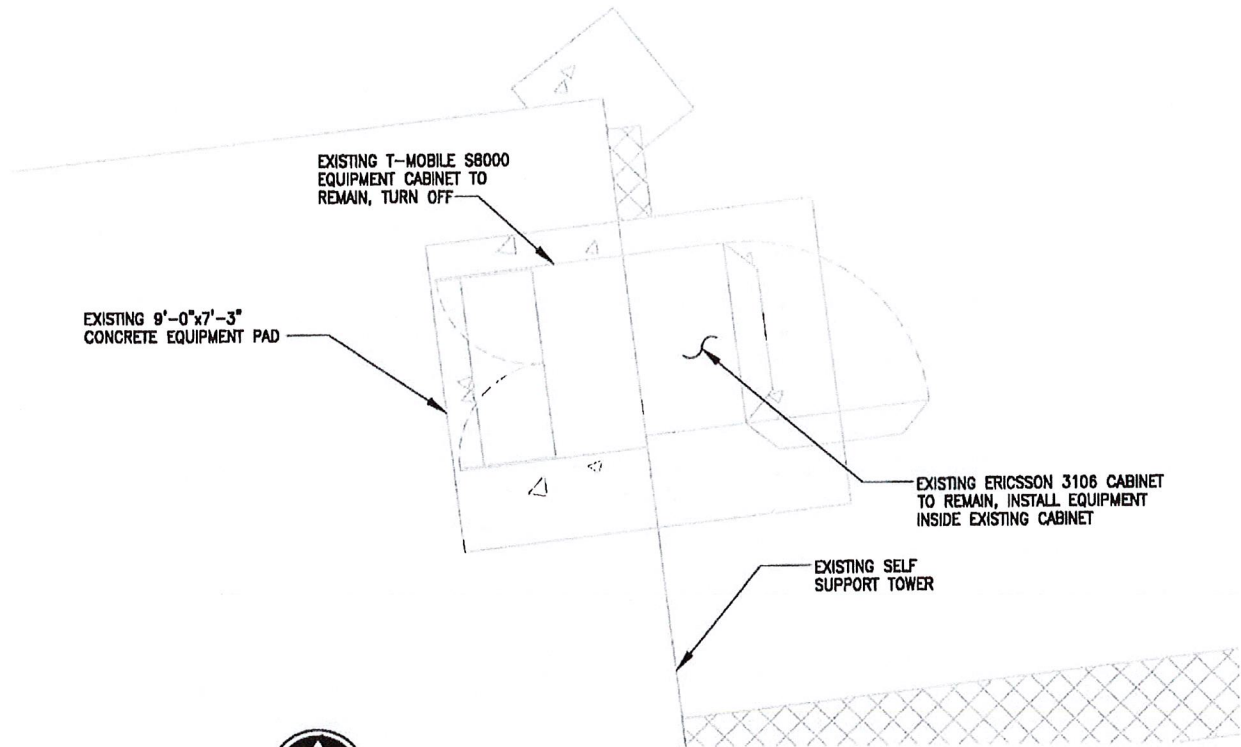
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SITE NAME
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NEW FAIRFIELD (AT&T)
37 TITICUS MOUNTAIN RD.
NEW FAIRFIELD, CT 06812

SHEET TITLE
ANTENNA DETAIL & RF SCHEDULE

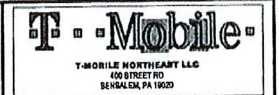
SHEET NUMBER
C-3
SHEET 4 OF 8 SHEETS



1 EQUIPMENT PAD LAYOUT PLAN
NOT TO SCALE

2 NOT USED
NOT TO SCALE

- STRUCTURAL NOTES:
- SPECIFICATIONS / CODES:
 - CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
 - STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 9TH EDITION.
 - WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-92 "STRUCTURAL WELDING" CODE-STEEL.
 - REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE."
 - MATERIALS:
 - CONCRETE: f_c' - 3000psi. (MIN. U.N.O.)
 - REINFORCING STEEL: ASTM A615, GRADE 60.
 - WIRE MESH: ASTM A185.
 - STRUCTURAL STEEL: ASTM A36.
 - ELECTRODES FOR WELDING: E 70xx.
 - GALVANIZING: ASTM A153 (BOLTS) OR ASTM A123 (SHAPES, PLATES).
 - EXPANSION BOLTS: HILTI KWIK BOLT II, STAINLESS STEEL, 3/4"Øx43/4" EMBEDMENT OR AN APPROVED EQUAL.



Design: Mark Duffner

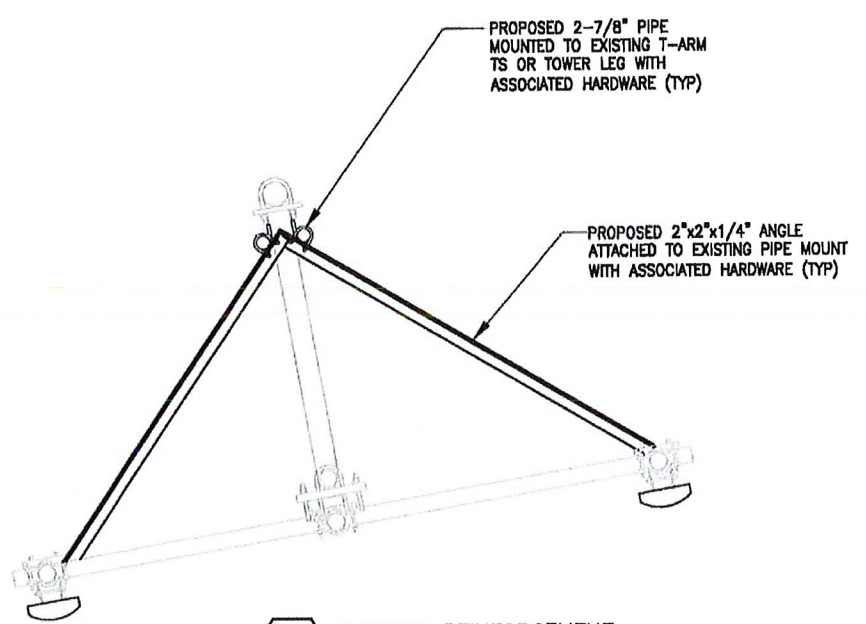
INFINIGY

11 HERBERT DRIVE
LATHAM, NY 12110
OFFICE: (518) 680-0790
FAX: (518) 680-0755

SUBMITTALS		
DATE	DESCRIPTION	REVISION
04/18/13	REVIEW	A
04/28/13	FOR PERMIT	0
05/21/13	REVISED PER COMMENTS	1

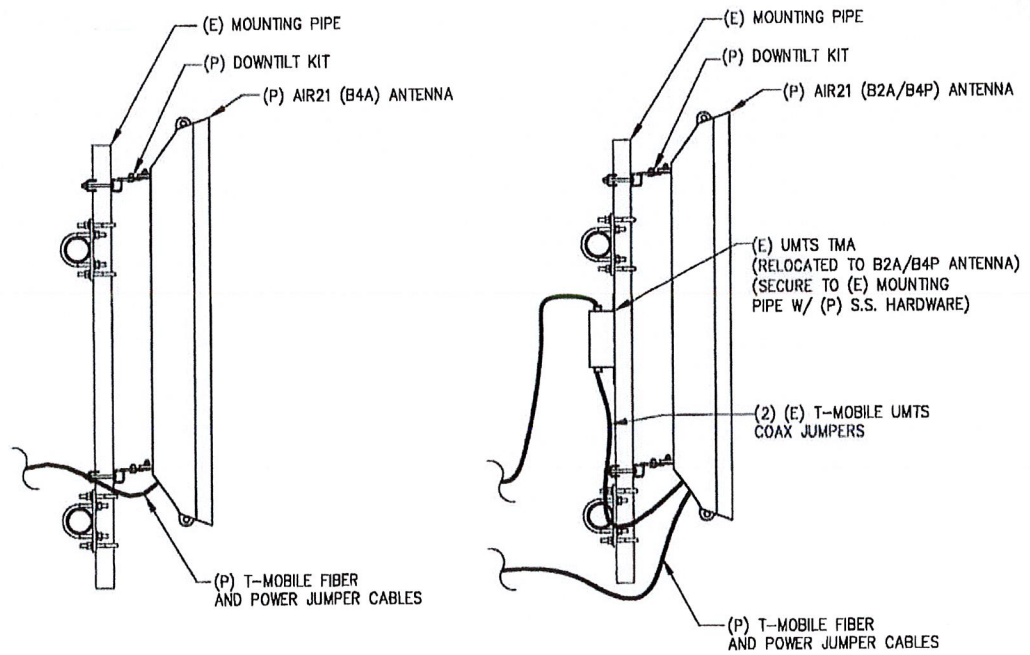
DEPT.	DATE	APP'D	REVISION
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AG.			

PROJECT NO: 317-0880
DRAWN BY: SKB
CHECKED BY: AJD

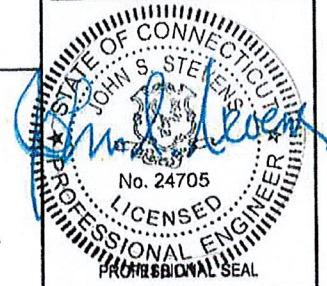


3 ANTENNA REINFORCEMENT
NOT TO SCALE

*USE WHEN EXISTING ANTENNA PIPE MOUNT HAS ONLY ONE POINT OF ATTACHMENT



4 ANTENNA MOUNTING DETAIL
NOT TO SCALE



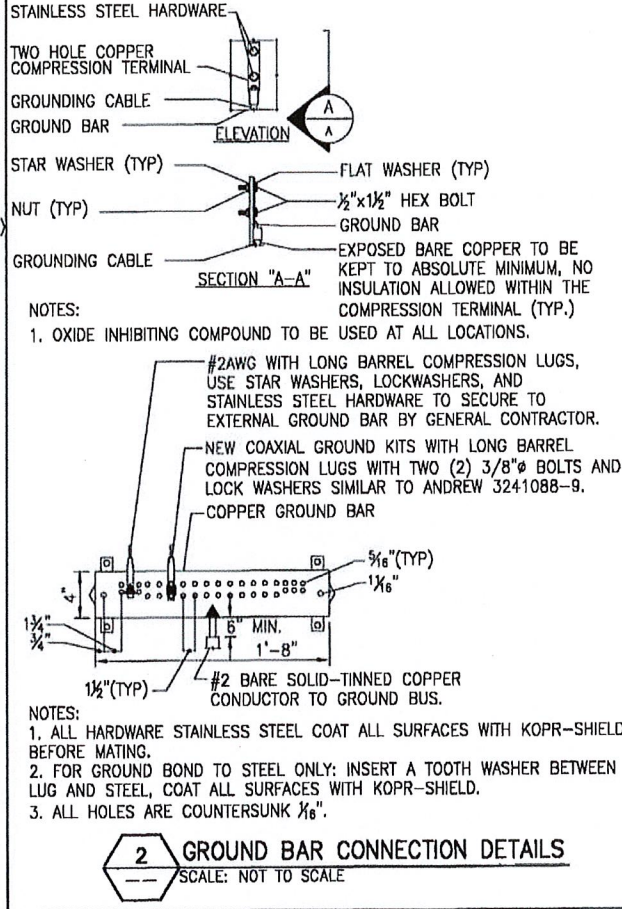
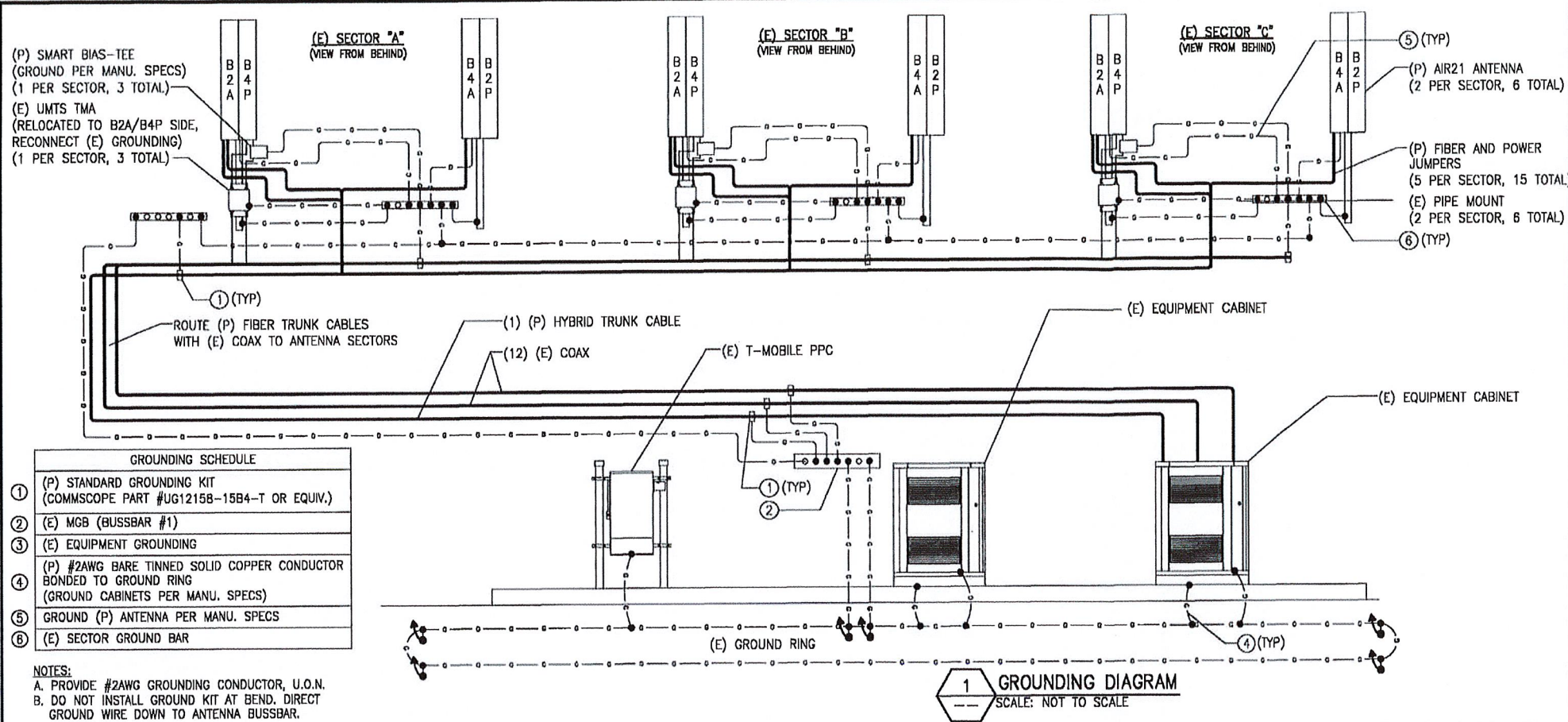
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CT11106A
NEW FAIRFIELD (AT&T)
37 TITICUS MOUNTAIN RD.
NEW FAIRFIELD, CT 08812

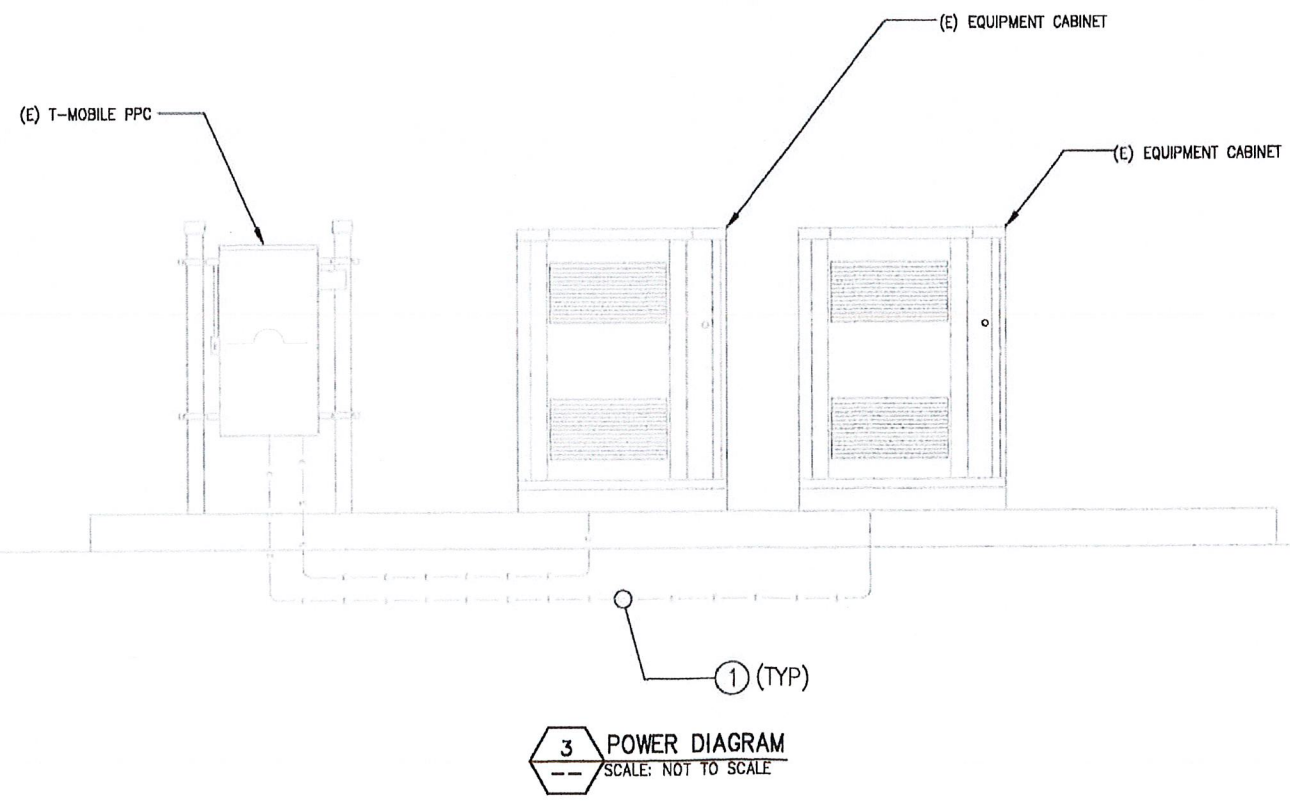
SHEET TITLE
EQUIPMENT SPECIFICATIONS

SHEET NUMBER
S-1
SHEET 5 OF 8 SHEETS



CONDUIT SCHEDULE

①	(E) POWER CONDUIT
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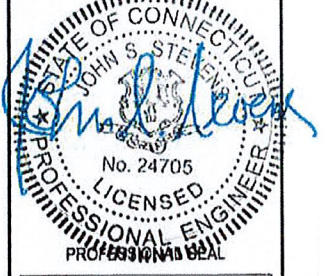
INFINIGY
 Design & Drafting
 11 HERBERT DRIVE
 LUTHER, NY 12110
 OFFICE: (518) 682-0790
 FAX: (518) 682-0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
04/18/13		A
04/25/13	FOR PERMIT	0
05/2/13	REVISED PER COMMENTS	1

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: 317-0880
 DRAWN BY: SKB
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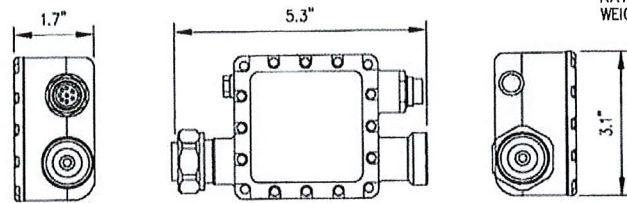
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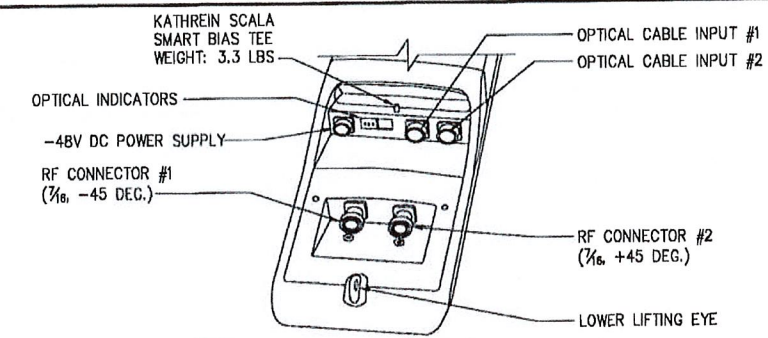
SITE NAME
CT11106A
 NEW FAIRFIELD (AT&T)
 37 TITIGUS MOUNTAIN RD.
 NEW FAIRFIELD, CT 06812

SHEET TITLE
GROUNDING & POWER DIAGRAMS

SHEET NUMBER
E-1
 SHEET 6 OF 8 SHEETS



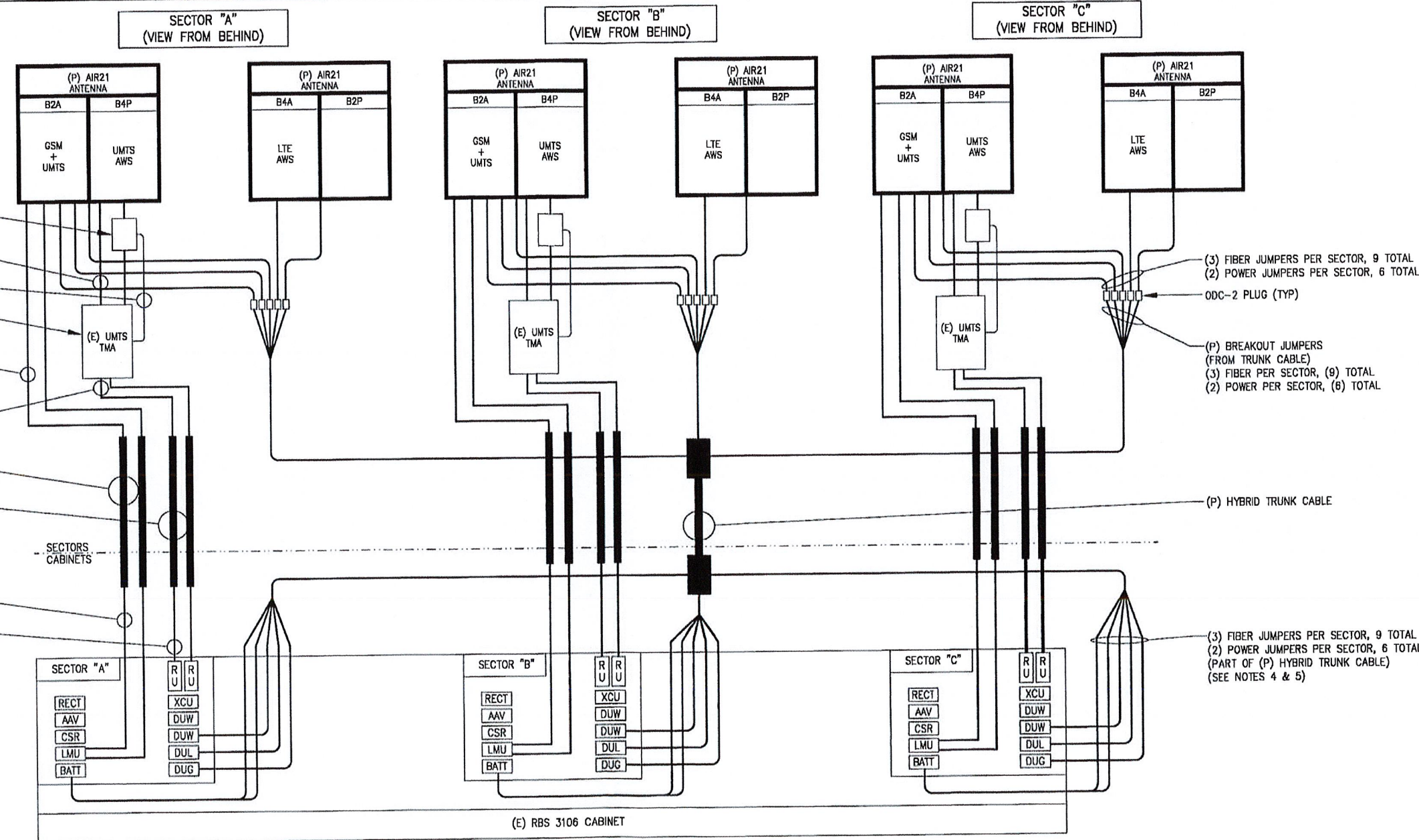
1 SMART BIAS-TEE DETAIL
NOT TO SCALE



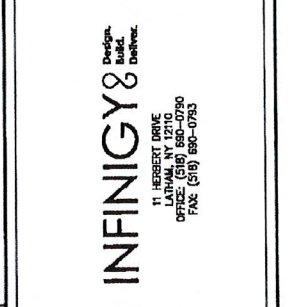
2 ANTENNA CONNECTION INTERFACE
NOT TO SCALE

- NOTES:**
- TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS PER T-MOBILE SPECIFICATIONS (SEE RF SCHEDULE/C-3)
 - SEE RF SCHEDULE/C-3 FOR CABLE AND JUMPER LENGTHS.
 - IF NEW GPS ADDED TO SITE, CAP AND WEATHERPROOF ANY UNUSED COAX FOR FUTURE USE.
 - TRIM POWER JUMPERS PER MANU. SPECS TO CORRECT LENGTH FOR CONNECTION.
 - COIL EXCESS FIBER IN CABINET BASE.

- (P) SMART BIAS-TEE
(1) PER SECTOR, (3) TOTAL
- (E) UMTS JUMPERS (TO ANTENNA)
(2) PER SECTOR, (6) TOTAL
- (P) AISG CABLE
(1) PER SECTOR, (3) TOTAL
- (E) UMTS TMA
(1) PER SECTOR, (3) TOTAL
- (E) COAX JUMPERS (TO FEED LMUs AS NECESSARY, SEE NOTE 3)
(2) PER SECTOR, (6) TOTAL
- (E) UMTS JUMPERS (TO TMA)
(2) PER SECTOR, (6) TOTAL
- (E) COAX (TO FEED LMUs AS NECESSARY, SEE NOTE 3)
(2) PER SECTOR, (6) TOTAL
- (E) UMTS COAX
(2) PER SECTOR, (6) TOTAL
- (E) JUMPER (TO FEED LMUs AS NECESSARY, SEE NOTE 3)
(2) PER SECTOR, (6) TOTAL
- (E) UMTS JUMPERS (TO COAX)
(2) PER SECTOR, (6) TOTAL



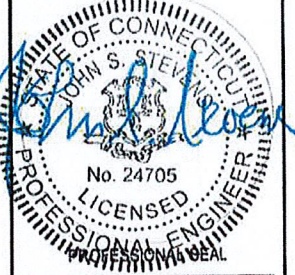
3 2C CONFIGURATION COAX/FIBER PLUMBING DIAGRAM
NOT TO SCALE



SUBMITTALS		
DATE	DESCRIPTION	REVISION
04/18/13	REVIEW	A
04/23/13	FOR PERMIT	0
05/2/13	REVISED PER COMMENTS	1

DEPT.	DATE	APP'D	REVISIONS
RF			
RF MGR.			
ZONING			
GPS			
CONSTR.			
SITE AD.			

PROJECT NO: 317-0880
DRAWN BY: SKB
CHECKED BY: AJD



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NEW FAIRFIELD (AT&T)
37 TITICUS MOUNTAIN RD.
NEW FAIRFIELD, CT 06812

SHEET TITLE
COAX/FIBER PLUMBING DIAGRAM

SHEET NUMBER
E-2
SHEET 7 OF 8 SHEETS

