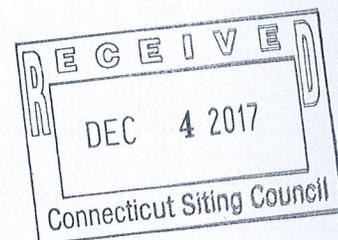


Alex Murshteyn, Site Acquisition
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

November 30, 2017

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



**RE: Notice of Exempt Modification // Site: Mohawk Mtn CT (ATC: 88009)
36 Mohawk Mountain / Trail (aka Toomey, Mattatuck, or Great Hollow Road land
for ski area, Mohawk Mt. State Park), Cornwall, CT 06759
N 41.82130 // W -73.29644**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless, on behalf of its Affiliates currently maintains 12 antennas at the 46.5-foot mount on the existing 65-foot self-supporting lattice observation tower, located at (36) Mohawk Mountain (aka Trail, aka Toomey) Road, Cornwall, CT. The tower is owned by American Tower. The property is owned by the State of Connecticut. Verizon Wireless now intends to replace all 12 of its existing antennas and install side-by-side mounts for 6 LTE (700/850/1900/2100 MHz) and 6 CDMA (850 MHz) replacements for its PCS/AWS/LTE and CDMA and upgrade. Additionally, Verizon Wireless will install 12 new remote radio heads (RRHs) with its new antennas, 2 new over voltage protector (OVP) surge arrestor boxes, as well as 2 new hybrid fiber cables; while removing certain unused coax cabling and updating leased equipment rights, as more fully reflected by the final configuration proposed hereby.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Gordon M. Ridgway, First Selectman for the Town of Cornwall, Karen Nelson, the Town's Administrator, Zoning Enforcement Officer and Clerk of the Land Use Office, American Tower, the tower owner, and the ground owner, Connecticut Department of Energy and Environmental Protection c/o State of Connecticut.

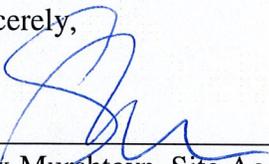
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

Enclosed to accommodate this filing are construction drawings dated November 1, 2017 by A.T. Engineering Service, PLLC, a structural analysis dated October 31, 2017 by Tower Engineering Professionals, Inc. and an Estimated Radiated Emissions Far Field Approximation Analysis tables dated November 6, 2017 by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by Tower Engineering Professionals, Inc., dated October 31, 2017 and July 13, 2017.

For the foregoing reasons, Verizon Wireless respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Alex Murshteyn, Site Acquisition
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

Attachments

cc: Gordon M. Ridgway, First Selectman, Town of Cornwall - as elected official - 1Z9Y45030318050560
Karen Nelson, Town of Cornwall Land Use Office - as P&Z official - 1Z9Y45030308165572
American Tower Corporation - as tower owner - 1Z9Y45030301282583
Connecticut DEEP c/o State of Connecticut - as property owner - 1Z9Y45030317801590



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



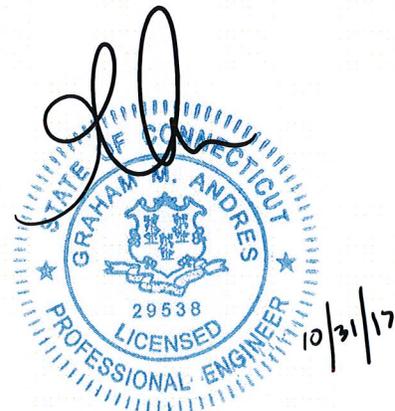
T O W E R
E N G I N E E R I N G
P R O F E S S I O N A L S

Structural Analysis Report

Structure : 65 ft Self Supported Tower
ATC Site Name : Cornwall CT, CT
ATC Site Number : 88009
Engineering Number : OAA715460_C3_01
Proposed Carrier : Alltel
Carrier Site Name : Mohawk_Mtn_Ct / Newest
Carrier Site Number : 181433
Site Location : 36 Toomey Rd.
Cornwall, CT 06759-4232
41.821300,-73.296400
County : Litchfield
Date : October 31, 2017
Max Usage : 92%
Result : Pass

Prepared By:
Aaron T. Rucker
TEP

Reviewed By:



COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
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Structure Usages	3
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Standard Conditions	5
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 65 ft self supported tower to reflect the change in loading by Alltel.

Supporting Documents

Tower Drawings	CSEI ATC Engineering #26472221, dated September 19, 2006
Foundation Drawing	TEP Project #74252-101870, dated November 22, 2016
Geotechnical Report	FDH Project #16PWAQ1600, dated November 30, 2016

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:	90 mph (3-Second Gust, V_{asd}) / 115 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	40 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	3
Crest Height:	214 ft
Spectral Response:	$S_s = 0.18, S_1 = 0.06$
Site Class:	D - Stiff Soil

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 American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
69.0	75.0	1	12' Dipole	Leg	-	Other
	72.0	1	6' Omni			
67.0	67.0	2	CCI HPA-65R-BUU-H6	Sector Frames	(12) 1 1/4" Coax (2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk	AT&T Mobility
		1	Andrew SBNHH-1D65A (33.5 lbs)			
		6	Powerwave 7770.00A			
		3	Ericsson RRUS 32 (50.8 lbs)			
		3	Ericsson RRUS 11 (Band 12)			
		1	Raycap DC6-48-60-18-8F			
	6	Powerwave TT19-08BP111-001				
	65.0	1	Andrew ABT-DFDM-ADB			
63.0	74.0	1	18' Omni	Leg	(2) 7/8" Coax	US Dept Of Homeland Security
	63.0	1	Sinclair SV228-HF2SNM			
60.0	60.0	3	Commscope DT465B-2XR	Stand-Offs	(7) 1 1/4" Hybriflex	Sprint Nextel
		3	Alcatel-Lucent RRH2x50-08			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
		3	Alcatel-Lucent 800MHz RRH			
		3	Alcatel-Lucent RRH2x40 (700)			
		3	RFS APXVSPP18-C-A20			
59.0	59.0	1	10' Std. Dish	Leg	-	Other
		3	10' HP Dish			
56.0	56.0	3	Commscope LNX-6515DS-A1M (50.3 lb)	T-Arms	(2) 1 5/8" Hybriflex (1) 1/2" Coax	T-Mobile
		3	RFS APX16DWV-16DWVS-E-A20			
		3	Ericsson RRUS 11 B2			
		3	Ericsson RRUS 11 B4			
		3	Ericsson RRUS 11 B12			
		1	Symmetricom 58532A			
50.0	-	-	-	Platfrom w/ Handrails	(6) 1 5/8" Coax	Alltel
37.5	37.5	-	-	Access Platform	-	-

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
50.0	46.5	3	Antel BXA-70063-6CF-EDIN-X	-	(6) 1 5/8" Coax	Alltel Comm.
		6	Antel LPA-80063/6CF			
		3	Antel BXA-171063/12CF__2 FP			
		6	RFS FD9R6004/2C-3L			



Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
50.0	46.5	1	RFS DB-C1-12C-24AB-0Z	Platform w/ Handrails	(2) 1 5/8" Fiber	Alltel
		3	Alcatel-Lucent B66a RRH4x45 (AWS-3)			
		3	Alcatel-Lucent B25 RRH4x30-4R			
		3	Alcatel-Lucent B13 RRH4x30-4R			
		3	Nokia B5 RRH4x40-850			
		6	Commscope JAHH-65B-R3B			
		6	Andrew DB846F65ZAXY			

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 Alltel coax.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	55%	Pass
Diagonals	92%	Pass
Horizontals	27%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Overturing Moment (Kip-ft)	2695.2	33%
Axial (Kips)	50.1	4%
Total Shear (Kips)	57.7	22%

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)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
63.0	Sinclair SV228-HF2SNM	US Dept of Homeland	0.167	0.030	0.570
59.0	10' HP Dish	Other	0.091	0.032	0.910
	10' Std. Dish				
50.0	Nokia B5 RRH4x40-850	Alltel	0.015	0.021	1.340
	Alcatel-Lucent B13 RRH4x30-4R				
	Alcatel-Lucent B25 RRH4x30-4R				
	Alcatel-Lucent B66a RRH4x45 (AWS-3)				
	RFS DB-C1-12C-24AB-0Z				
	Andrew DB846F65ZAXY				
Commscope JAHH-65B-R3B					

*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 A.T. Engineering Service, PLLC 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. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

Loads: 90 mph no ice
 40 mph w/ 3/4" radial ice
 Site Class: D Ss: 0.18 S1: 0.06
 60 mph Serviceability

Job Information
 Tower : 88009 Location : CORNWALL CT, CT
 Code : ANS/TTA-222-G Shape : Square Base Width : 20.00 ft
 Client : ALTELL COMMUNICATIONS, LLC Top Width : 7.00 ft

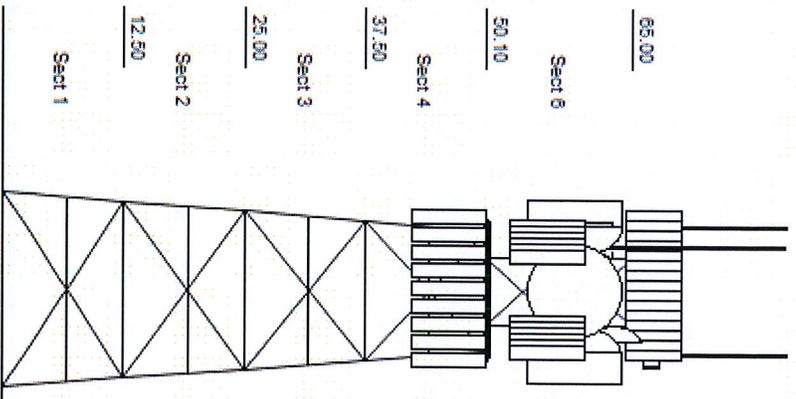
Sections Properties			
Section	Lea Members	Diagonal Members	Horizontal Members
1 - 2	SAE 33 ksi 6X6X0.625	SAU 36 ksi 4X3X0.25	DAL 36 ksi 3X2.5X0.25
3	SAE 33 ksi 6X6X0.5	SAU 36 ksi 3.5X3X0.25	DAL 36 ksi 3.5X3X0.3125
4	SAE 33 ksi 6X6X0.5	SAE 36 ksi 3.5X3.5X0.25	DAL 36 ksi 3.5X3X0.3125
5	SAE 33 ksi 6X6X0.5		
6	SAE 33 ksi 6X6X0.5	SAU 36 ksi 3X2X0.25	DAL 36 ksi 2.5X2X0.25

Discrete Appurtenance		
Elev (ft)	Type	Qty Description

69.00	Whip	1 6' Omni
69.00	Whip	1 12' Dipole
67.00	Mounting Frame	1 Round Sector Frame
67.00	Panel	2 CCI HPA-65R-BUJ-H6
67.00	Panel	1 Andrew SBNHH-1D65A (33.5 lbs)
67.00	Panel	6 Powerwave Alligon 7770.00A
67.00	Panel	3 Ericsson RRUS 32 (50.8 lbs)
67.00	Panel	3 Ericsson RRUS 11 (Band 12)
67.00	Panel	1 Raycap DCS-48-60-18-8F
67.00	Panel	6 Powerwave Alligon TT19-08BP111-
67.00	Panel	1 Andrew ABT-DFDM-ADB
65.01	Other	1 Fire Warden Cab
63.00	Whip	1 18' Omni
63.00	Dish	1 Sinclair SVZ28-HF2SNM
60.00	Panel	3 Commscope DT765B-2XR
60.00	Panel	3 Alcatel-Lucent RHRH2X50-08
60.00	Panel	3 Alcatel-Lucent TD-RRH8x20-25 w
60.00	Panel	3 Alcatel-Lucent 800 MHz RRH
60.00	Panel	3 Alcatel-Lucent RRRH2x40 (700)
60.00	Panel	3 RFS APXVSP18-C-A20
60.00	Straight Arm	6 Stand-Off
59.00	Dish	1 10' Std. Dish
59.00	Dish	3 10' HP Dish
56.00	Panel	3 Commscope LNX-6515DS-A1M
56.00	Panel	3 RFS APX16DWW-16DWS-E-A20
56.00	Panel	3 Ericsson RRUS 11 B2
56.00	Panel	3 Ericsson RRUS 11 B4
56.00	Panel	3 Ericsson RRUS 11 B12
56.00	Panel	1 Symmetricom 58532A
56.00	Panel	1 Flat T-Arm
56.00	Straight Arm	3 RFS DB-C1-12C-24AB-0Z
50.00	Panel	1 Alcatel-Lucent B66a RRH4x45 (A
50.00	Panel	3 Alcatel-Lucent B25 RRH4x30-4R
50.00	Panel	3 Alcatel-Lucent B13 RRH4x30-4R
50.00	Panel	3 Nokia B5 RRH4x40-850
50.00	Panel	6 Commscope JAHH-65B-R3B
50.00	Panel	1 Andrew DB846F65ZAXY
50.00	Platform	1 Platform w/ Handrails
37.50	Platform	1 Access Platform

Linear Appurtenance

From Elev (ft)	To Elev (ft)	Qty	Description
0.00	67.00	1	Waveguide
0.00	67.00	1	Climbing Ladder
0.00	67.00	12	1 1/4" Coax
0.00	67.00	2	0.78" (19.7mm) 8 AWG
0.00	67.00	1	0.39" (10mm) Fiber T
0.00	63.00	1	7/8" Coax
0.00	63.00	1	7/8" Coax
0.00	60.00	4	1 1/4" Hybriflex Cab



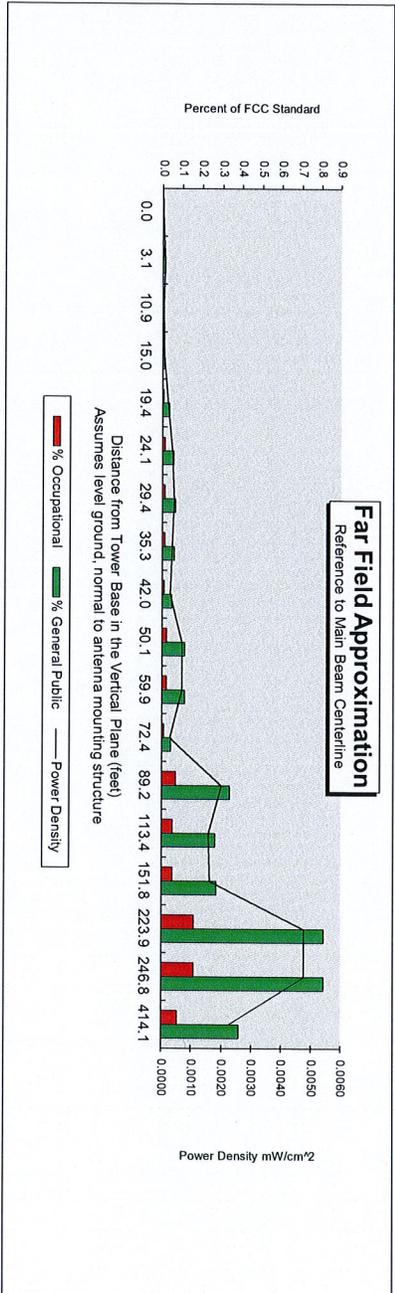


Single Emitter Far Field Model
Dipole / Wire/ Yagi Antenna Types

Location:	Mohawk Wtn CT
Site #:	2-514
Date:	11/08/17
Name:	Maria Moritose
File Name:	p:\vlf_safel2cel0514.xls

Operating Freq. (MHz)	880.0
Antenna Height (ft)	46.5
Antenna Gain (dBi)	16.6
Antenna Size (in.)	72.0
Down tilt (degrees)	6.0
Feedline Loss (dB)	1.9
Power @ J4 (w)	60.0

Number of Channels 3



This approximation is only valid in the far field, which begins at: **64.4 Feet**

Enter Main Beam
Distance in feet below:

Distance from Antenna Structure Base in Horizontal plane	0.0	3.1	10.9	15.0	19.4	24.1	29.4	35.3	42.0	42.0	50.1	59.9	72.4	89.2	113.4	151.8	223.9	246.8	414.1	#NUM!
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	0	0	0
dB down from centerline (referenced to centerline)	39.82	34.35	28.52	25.34	22.54	20.8	19.59	18.63	17.99	17.21	16.29	15.24	14.03	12.3	9.92	2	1.18	0	0	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.0000	0.0000	0.0000	0.0001	0.0002	0.0003	0.0004	0.0003	0.0000	0.0007	0.0007	0.0003	0.0020	0.0016	0.002	0.0048	0.0048	0.0048	0.0048	0.00
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	#NUM!
Percent of General Population Standard	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.3	0.3	0.3	0.3	0.8	0.8	0.4	#NUM!

Antenna Type DB846F65ZAXY - CDMA service

Instructions:

- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
- 2) References to J4 refer to a point where the transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
- 3) Enter Antenna Height (in feet) to bottom of antenna, Antenna Gain (expressed as dBi, add 2.17 to dBd to obtain dBi), Antenna Size (vertical size in inches), Down tilt (in Degrees, enter zero if none), Feedline loss from J4 to Antenna, and J4 Power (in watts).
- 4) From manufacturer's plots, or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
- 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space)
- 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
- 7) An odd distance may be entered in the rightmost column of the lower table.

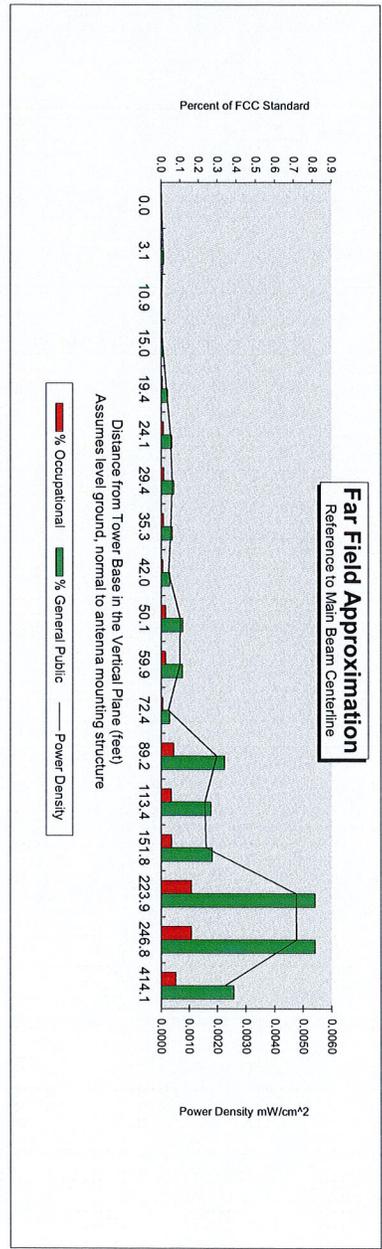
**Estimated Radiated Emission
Single Emitter Far Field Model
Dipole / Yagi Antenna Types**



Location:	Mohawk Min CT
Site #:	2-514
Date:	11/06/17
Name:	Maria Montrose
File Name:	p:\hfr_safel2cel0514.xls

Operating Freq. (MHz):	869.0
Antenna Height (ft):	46.5
Antenna Gain (dBi):	15.8
Antenna Size (in.):	72.0
Downtilt (degrees):	6.0
Feedline Loss (dB):	0.5
Power @ J4 (w):	160.0

Number of Channels: 1



This approximation is only valid in the far field, which begins at: **64.4 Feet**

Enter Main Beam
Distance in feet below:

Distance from Antenna Structure Base in Horizontal plane	0.0	3.1	10.9	15.0	19.4	24.1	29.4	35.3	42.0	50.1	59.9	72.4	89.2	113.4	151.8	223.9	246.8	414.1	#NUM!
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	0	0
dB down from centerline (referenced to centerline)	32.39	29.02	27.98	27.72	26.09	21.72	18.94	22.07	34.53	27.02	19.04	13.3	17.99	9.81	1.47	0.14	0.48	3.9	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.0004	0.001	0.0009	0.0009	0.0013	0.0032	0.0055	0.0024	0.000	0.0005	0.0027	0.0078	0.0019	0.0084	0.034	0.0221	0.0170	0.00	#NUM!
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.1	0.3	0.1	0.3	1.2	0.8	0.6	0.1	#NUM!
Percent of General Population Standard	0.1	0.1	0.2	0.2	0.2	0.6	1.0	0.4	0.0	0.1	0.5	1.3	0.3	1.5	5.9	3.8	2.9	0.5	#NUM!

Antenna Type: JAHH-65B-R3B

- Instructions:
- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
 - 2) References to J4 refer to a point where the transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
 - 3) Enter Antenna Height (in feet to bottom of antenna), Antenna Gain (expressed as dBi, add 2.17 to dBd to obtain dBi), Antenna Size (vertical size in inches), Downtilt (in Degrees, enter zero if none), Feedline loss from J4 to Antenna, and J4 Power (in watts).
 - 4) From manufacturer's plots, or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
 - 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space)
 - 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
 - 7) An odd distance may be entered in the rightmost column of the lower table.

Far Field Approximation
with downtilt variation

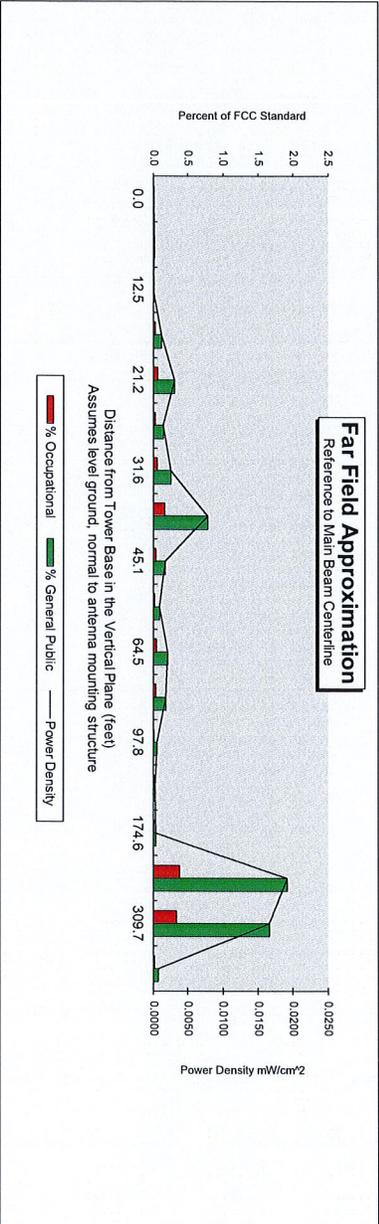
Estimated Radiated Emission
Single Emitter Far Field Model
Dipole / Wire / Yagi Antenna Types



Location:	Mohawk Min CT
Site #:	2-514
Date:	11/06/17
Name:	Maria Montrose
File Name:	p:\nrf_safel2\cell0514.xls

Operating Freq. (MHz):	1970.0
Antenna Height (ft):	46.5
Antenna Gain (dBi):	18.4
Antenna Size (in.):	72.0
Downtilt (degrees):	4.0
Feedline Loss (dB):	0.5
Power @ J4 (w):	120.0

Number of Channels: 1



This approximation is only valid in the far field, which begins at: **64.4 Feet**

Distance from Antenna Structure Base in Horizontal plane	4.6	12.5	16.7	21.2	26.2	31.6	37.8	45.1	53.8	64.5	78.5	97.8	126.4	174.6	274.8	309.7	622.4	#NUM!	
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	0	0
dB down from centerline (referenced to centerline)	40.95	37.64	47.98	28.19	23.48	26.38	23.47	17.92	23.83	25.89	21.09	20.6	23.93	25.87	21.25	0.39	0	7.59	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.0001	0.0001	0.0000	0.0011	0.0031	0.0014	0.0025	0.0079	0.0017	0.0009	0.0021	0.0018	0.0006	0.0002	0.0004	0.0192	0.0166	0.0007	#NUM!
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	#NUM!	#NUM!
Percent of General Population Standard	0.0	0.0	0.0	0.1	0.3	0.1	0.3	0.8	0.2	0.1	0.2	0.2	0.1	0.1	1.9	1.7	0.1	#NUM!	#NUM!

Antenna Type: JAHH-65B-R3B

- Instructions:
- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
 - 2) Reference to J4 refer to a point where the Transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
 - 3) Enter Antenna Height (in feet to bottom of antenna), Antenna Gain (expressed as dBi, add 2.17 to dDb to obtain dBi), Antenna Size (vertical size in inches), Downtilt (in Degrees, enter zero if none), Feedline loss from J4 to Antenna, and J4 Power (in Watts).
 - 4) From manufacturer's plots, or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
 - 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space)
 - 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
 - 7) An odd distance may be entered in the rightmost column of the lower table.

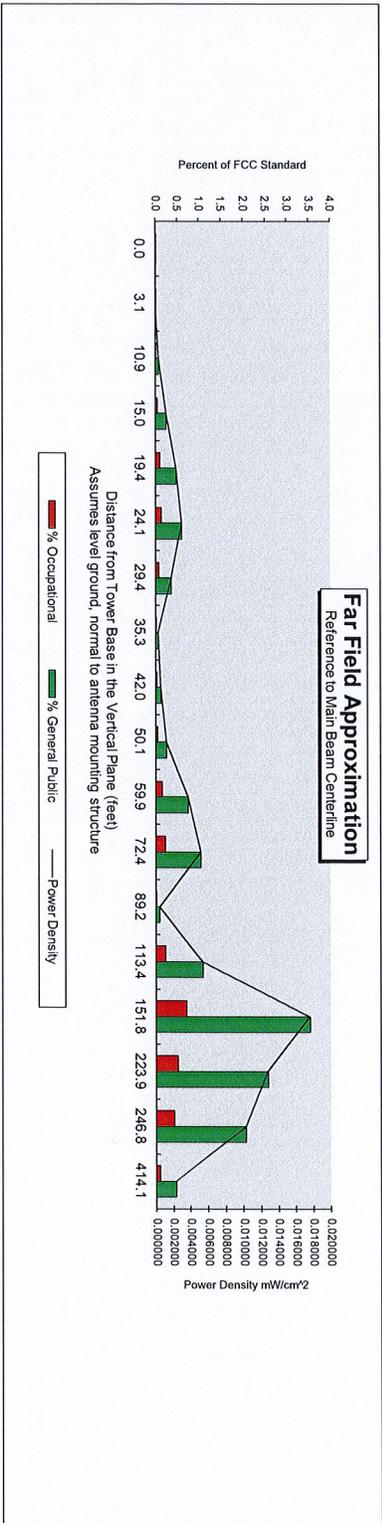
Enter Main Beam
Distance in Feet below:

Far Field Approximation
with downtilt variation

Estimated Radiated Emission
Single Emitter Far Field Model
Dipole / Wire/ Yagi Antenna Types



Location:	Mohawk Min CT
Site #:	2-514
Date:	11/06/17
Name:	Maria Montrose
File Name:	p:\hfrf_safefield\0514.xls
Operating Freq. (MHz)	745.0
Antenna Height (ft):	46.5
Antenna Gain (dBi):	14.5
Antenna Size (in.):	72.0
Downtilt (degrees):	6.0
Feedline Loss (dB):	0.5
Power @ J4 (w):	120.0
Number of Channels	1



This approximation is only valid in the far field, which begins at: **64.4 Feet**

Distance from Antenna Structure Base in Horizontal plane	0.0	3.1	10.9	15.0	19.4	24.1	29.4	35.3	42.0	50.1	59.9	72.4	89.2	113.4	151.8	223.9	246.8	414.1	Enter Main Beam Distance in feet below:
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	0	#NUM!
dB down from centerline (referenced to centerline)	36.89	47.17	29.39	24.2	20.86	19.43	21.31	28.26	25.25	21	15.09	12.5	21.83	9.2	1.79	0	0.12	2.24	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.000072	0.000007	0.000379	0.001187	0.002391	0.003047	0.001775	0.000315	0.000539	0.001194	0.003737	0.005208	0.000440	0.005391	0.017566	0.012711	0.010241	0.002277	#NUM!
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.2	0.2	0.0	0.2	0.7	0.5	0.4	0.1	#NUM!
Percent of General Population Standard	0.0	0.0	0.1	0.2	0.5	0.6	0.4	0.1	0.1	0.2	0.8	1.0	0.1	1.1	3.5	2.6	2.1	0.5	#NUM!

Antenna Type: JHH-55B-R38

- Instructions:
- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
 - 2) References to J4 refer to a point where the transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
 - 3) Enter Antenna Height (in feet to bottom of antenna), Antenna Gain (expressed as dBi; add 2.17 to dBD to obtain dBi), Antenna Size (vertical size in inches), Downtilt (in Degrees, enter zero if none), Feedline loss from J4 to Antenna, and J4 Power (in Watts).
 - 4) From manufacturer's plots or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
 - 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space)
 - 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
 - 7) An odd distance may be entered in the rightmost column of the lower table.

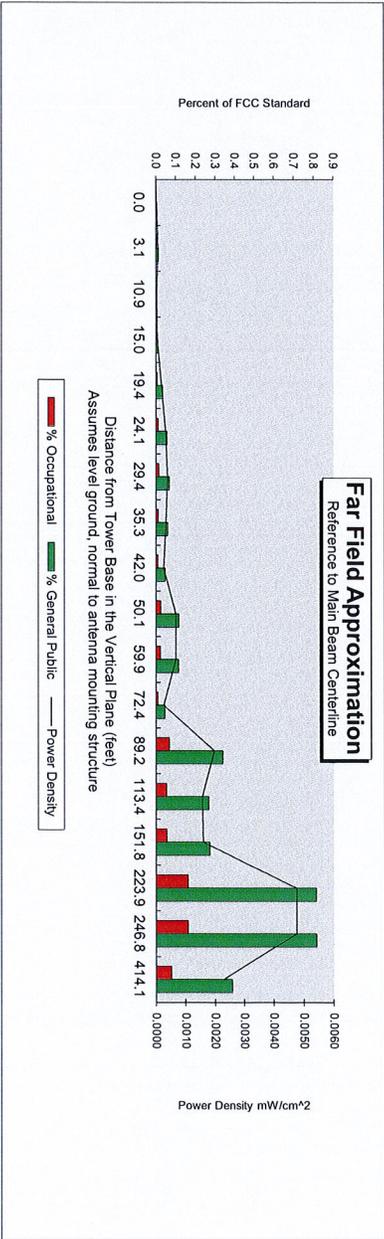
Estimated Radiated Emission
Single Emitter Far Field Model
Dipole / Wire/ Yagi Antenna Types



Location:	Mohawk Min CT
Site #:	2-514
Date:	11/06/17
Name:	Maria Montrose
File Name:	p:\trf_safel2ce10514.xls

Operating Freq. (MHz)	2145.0
Antenna Height (ft)	46.5
Antenna Gain (dBi)	18.5
Antenna Size (in.)	72.0
Downtilt (degrees)	4.0
Feedline Loss (dB)	0.5
Power @ J4 (w)	180.0

Number of Channels: 1



This approximation is only valid in the far field, which begins at: 64.4 Feet

Distance from Antenna Structure Base in Horizontal plane	4.6	12.5	16.7	21.2	26.2	31.6	37.8	45.1	53.8	64.5	78.5	97.8	126.4	174.6	274.8	309.7	622.4	
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	0
dB down from centerline (referenced to centerline)	50.27	41.34	35.67	31.72	28.95	26.2	24.83	24.83	24.83	26.72	28.32	29.19	31.04	31.83	33.74	35.67	37.59	39.50
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.0000	0.0001	0.0003	0.0008	0.0004	0.001	0.0036	0.0025	0.0042	0.001	0.0006	0.0004	0.0002	0.0001	0.0033	0.027	0.025	0.00
Percent of Occupational Standard	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.2	0.4	0.1	0.0	0.0	0.0	0.1	0.5	0.5	0.0	
Percent of General Population Standard	0.0	0.0	0.0	0.0	0.1	0.4	0.2	0.4	0.1	0.1	0.0	0.0	0.1	0.3	2.7	2.5	0.1	

Antenna Type: JAHH-55B-R3B

Instructions:

- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
- 2) References to J4 refer to a point where the transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
- 3) Enter Antenna Height (in feet to bottom of antenna), Antenna Gain (expressed as dBi, add 2.17 to dBi to obtain dB), Antenna Size (vertical size in inches), Downtilt (in Degrees, enter zero if none), Feedline loss from J4 to Antenna, and J4 Power (in watts).
- 4) From manufacturer's plots, or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
- 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space)
- 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
- 7) An odd distance may be entered in the rightmost column of the lower table.

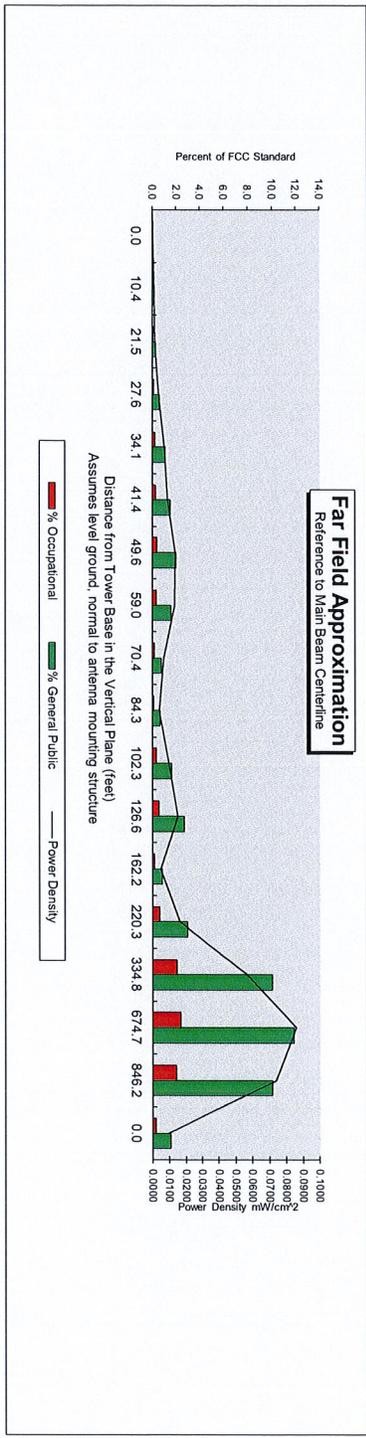
Enter Main Beam Distance in feet below:

Far Field Approximation
with downtilt variation

Estimated Radiated Emission
Single Emitter Far Field Model
Dipole / Wire / Yagi Antenna Types



Location:	Mohawk Minn CT
Site #:	2-514
Date:	11/06/17
Name:	Maria Montrose
File Name:	p:\nfr_safefield\0514.xls
Operating Freq. (MHz)	
Antenna Height (ft):	
Antenna Gain (dBi):	
Antenna Size (in.):	
Downtilt (degrees):	
Feeding Loss (dB):	
Power @ J4 (W):	
Number of Channels:	ALL



This approximation is only valid in the far field, which begins at: **0.0 Feet**

Enter Main Beam
Distance in feet below:

Distance from Antenna Structure Base in Horizontal Plan (ft)	0.0	10.4	21.5	27.6	34.1	41.4	49.6	59.0	70.4	84.3	102.3	126.6	162.2	220.3	334.8	674.7	846.2	#D/V/OI	23.8
Angle from Main Beam (reference to horizontal plane)	90	80	70	65	60	55	50	45	40	35	30	25	20	15	10	5	4	0	0
dB down from centerline (referenced to centerline)	30	29	34	31	26	25	27	32	24	32	19	30	1	0	15	4	2	0	0
Reflection Coefficient (1 to 4, 2.56 typical)	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Power Density (mW/cm ²)	0.0005	0.0011	0.0017	0.0041	0.0073	0.0093	0.0139	0.0134	0.0069	0.0044	0.0098	0.0154	0.0051	0.0165	0.0568	0.0860	0.0740	0.0091	0.00
Percent of Occupational Standard	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.3	0.2	0.1	0.3	0.5	0.2	0.6	2.0	2.4	2.0	0.3	0.0
Percent of General Population Standard	0.1	0.2	0.3	0.6	1.1	1.5	2.0	1.6	0.8	0.6	1.6	2.6	0.8	2.9	10.0	11.8	10.0	1.5	0.0

Cumulative All Antennas

- Instructions:
- 1) Fill in Site Location, Site number, Date, Name of Person Responsible for Date, and enter File Name to be saved as.
 - 2) References to J4 refer to a point where the transmission line exits the equipment shelter and proceeds to the antenna(s). There is typically a connector located here where power measurements are made.
 - 3) Enter Antenna Height (in feet to bottom of antenna), Antenna Gain (expressed as dBi; add 2, 17 to dBi to obtain dB), Antenna Size (vertical size in inches), Downtilt (in Degrees, enter zero if none), Feeding Loss from J4 to Antenna, and J4 Power (in Watts).
 - 4) From manufacturer's plots, or data sheet, input Angle from mainbeam and dB below mainbeam centerline.
 - 5) Enter Reflection coefficient (2.56 would be typical, 1 for free space).
 - 6) Spreadsheet calculates actual power density, then relates as Occupational or General Population percentage of FCC Standard.
 - 7) An odd distance may be entered in the rightmost column of the lower table.

PD

8c 2.165E-05 7.59E-05 2.75E-05 5.43E-05 0.000193 0.000332 0.000394 0.000343 0.00027

8L	0.0004	0.0008	0.0009	0.0009	0.0013	0.0032	0.0055	0.0024	0.0001
p	0.0001	0.0001	0.0000	0.0011	0.0031	0.0014	0.0025	0.0079	0.0017

7 0.000072 0.000007 0.000379 0.001187 0.002391 0.003047 0.001775 0.000315 0.000539

a	0.0000	0.0001	0.0003	0.0008	0.0004	0.0012	0.0036	0.0025	0.0042
tl	0.0005	0.0011	0.0017	0.0041	0.0073	0.0093	0.0139	0.0134	0.0069

o 0.000738 0.002587 0.000937 0.00185 0.006565 0.011309 0.013424 0.011687 0.009216

0.013	0.027	0.033	0.033	0.045	0.112	0.190	0.081	0.004
0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.0
0.003	0.000	0.015	0.048	0.096	0.123	0.071	0.013	0.022
0.000	0.002	0.007	0.015	0.007	0.025	0.073	0.049	0.084

tl 0.0 0.0 0.1 0.1 0.2 0.3 0.4 0.3 0.2

g 0.0036898 0.012937 0.004685 0.00925 0.032827 0.056543 0.067121 0.058437 0.046082

0.063	0.135	0.163	0.164	0.223	0.558	0.951	0.407	0.020
0.0	0.0	0.0	0.1	0.3	0.1	0.3	0.8	0.2
0.014	0.001	0.076	0.239	0.481	0.613	0.357	0.063	0.108
0.001	0.010	0.033	0.077	0.037	0.123	0.365	0.246	0.421

tl 0.1 0.2 0.3 0.6 1.1 1.5 2.0 1.6 0.8

0.000676	0.000671	0.000261	0.001985	0.001569	0.001606	0.004766	0.004768	0.002267
0.0005	0.0027	0.0078	0.0019	0.0084	0.0340	0.0221	0.0170	0.00
0.0009	0.0021	0.0018	0.0006	0.0002	0.0004	0.0192	0.0166	0.0007
0.001194	0.003737	0.005208	0.000440	0.005391	0.017566	0.012711	0.010241	0.002277
0.0011	0.0006	0.0004	0.0002	0.0009	0.0033	0.0272	0.0255	0.00
0.0044	0.0098	0.0154	0.0051	0.0165	0.0568	0.0860	0.0740	0.0091

0.023044	0.022861	0.008898	0.067656	0.05349	0.054737	0.162478	0.162531	0.077279
0.019	0.093	0.269	0.066	0.291	1.174	0.764	0.585	0.096
0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0
0.048	0.150	0.209	0.018	0.217	0.706	0.511	0.412	0.092
0.022	0.012	0.007	0.003	0.018	0.065	0.544	0.510	0.020
0.1	0.3	0.5	0.2	0.6	2.0	2.4	2.0	0.3

0.115219	0.114303	0.044492	0.33828	0.267448	0.273684	0.81239	0.812655	0.386395
0.093	0.467	1.345	0.331	1.454	5.871	3.821	2.926	0.482
0.1	0.2	0.2	0.1	0.0	0.0	1.9	1.7	0.1
0.240	0.751	1.047	0.089	1.084	3.532	2.556	2.059	0.458
0.111	0.061	0.037	0.017	0.091	0.325	2.721	2.548	0.102
0.6	1.6	2.6	0.8	2.9	10.0	11.8	10.0	1.5

DB846F6ZAXY		JAHH-65B (700)		JAHH-65B (850)		JAHH-65B (AWS)		JAHH-65B (PCS)	
Angle	dB down	Angle	dB down	Angle	dB down	Angle	dB down	Angle	dB down
0	0	0	2.24	0	3.9	0	7.99	0	7.59
4	1.18	4	0.12	4	0.48	4	0	4	0
5	2	5	0	5	0.14	5	0.73	5	0.39
10	9.92	10	1.79	10	1.47	10	13.74	10	21.25
15	12.3	15	9.2	15	9.81	15	21.83	15	25.87
20	13.03	20	21.83	20	17.99	20	31.04	20	23.93
25	23.24	25	12.5	25	13.3	25	29.19	25	20.6
30	20.29	30	15.09	30	19.04	30	28.32	30	21.09
35	21.21	35	21	35	27.02	35	26.72	35	25.89
40	25.99	40	25.25	40	34.53	40	21.78	40	23.83
45	25.63	45	28.26	45	22.07	45	24.83	45	17.92
50	25.59	50	21.31	50	18.94	50	23.73	50	23.47
55	26.8	55	19.43	55	21.72	55	28.95	55	26.38
60	29.54	60	20.86	60	26.09	60	34.62	60	23.48
65	35.34	65	24.2	65	27.72	65	31.72	65	28.19
70	38.52	70	29.39	70	27.98	70	35.67	70	47.98
80	34.35	80	47.17	80	29.02	80	41.34	80	37.64
90	39.82	90	36.89	90	32.39	90	50.27	90	40.95

CONSTRUCTION DETAIL

CONSTRUCTION DETAIL (CONTINUED)

Element	Cd	Ch. Description	Element	Cd	Ch. Description
Model	00	Vacant			

MIXED USE	
Code	Description
5-1	VAC LAND
	Percentage
	100

COST/MARKET VALUATION

Adj. Base Rate:	0.00
Replace Cost	0
AYB	0
EYB	0
Dep Code	
Remodel Rating	
Year Remodeled	
Dep %	
Functional Obshnc	
External Obshnc	
Cost Trend Factor	
Condition	
% Complete	
Overall % Cond	
Apprais Val	
Dep % Ovr	0
Dep Ovr Comment	
Misc Imp Ovr	0
Misc Imp Ovr Comment	
Cost to Cure Ovr	0
Cost to Cure Ovr Comment	

OB-OUTBUILDING & YARD ITEMS(D) /XF-BUILDING EXTRA FEATURES(B)

Code	Description	Sub	Sub Descripr	L/B	Units	Unit Price	Yr	Gde	Dp	Rt	Cond	%Cond	App	Value
BUILDING SUB-AREA SUMMARY SECTION														
Code	Description			Living Area	Gross Area	Eff. Area	Unit Cost	Undepec. Value						
					0	0								

No Photo On Record

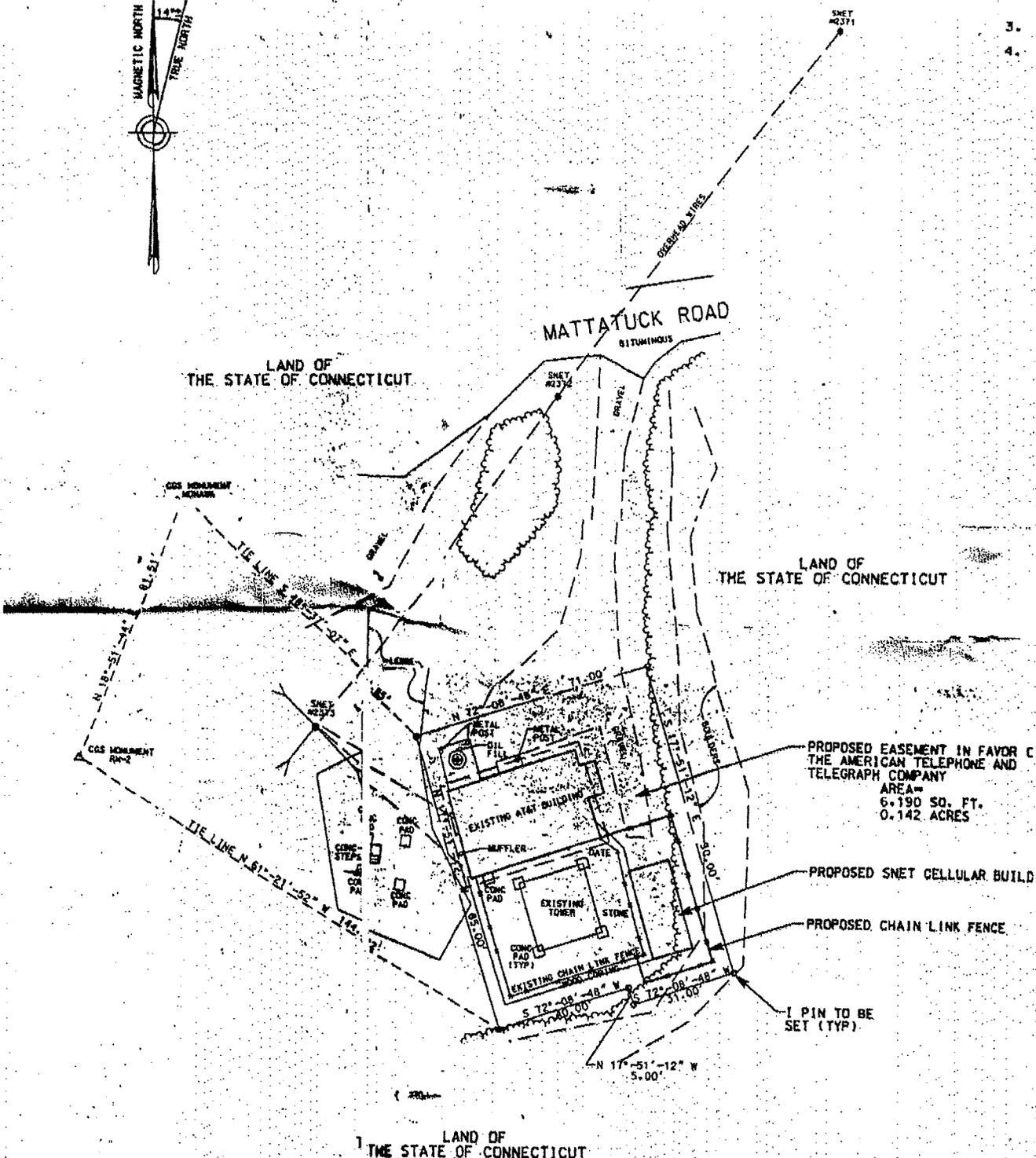
Ttl. Gross Liv/Lease Area:

0

0



3.
4.



PROPOSED EASEMENT IN FAVOR OF
THE AMERICAN TELEPHONE AND
TELEGRAPH COMPANY
AREA=
6,190 SQ. FT.
0.142 ACRES

PROPOSED SNET CELLULAR BUILD.

PROPOSED CHAIN LINK FENCE

1 PIN TO BE SET (TYP)

LAND OF THE STATE OF CONNECTICUT

ANY



TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON

MICHAEL G. WILMES LICENSE NO. 14201

TRUE AND VALID COPIES OF THIS MAP OR PLAN MUST BEAR THE SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR



PROPERTY DETAIL REPORT

Prepared Exclusively for Eric Proulx

Created: 9/16/2016
Expires: 10/16/2016



TARGET PROPERTY

36 MOHAWK MOUNTAIN RD CORNWALL, CT 06753-

Owner Information

Owner Name: AMERICAN TOWER MGMT INC
Mailing Address: PO BOX 723597 ATLANTA GA 31139-0597 B006
Phone Number:
Owner Occupied Indicator: UNKNOWN
Corporate Owner:
Vesting Codes:
Pending Record Indicator:

Location Information

Legal Description:
County: LITCHFIELD APN: CORN-000004-000001-F000000
Census Tract / Block: 2632.00 Alternate APN: 804122
Township-Range-Sect:
Legal Book - Page:
Legal Lot:
Legal Block:
Market Area:
Neighbor Code:
Subdivision:
Map Reference: /
Tract #:
School District:
Munic / Township: CORNWALL

Owner Transfer Information

Recording / Sale Date:
Document #:
Instrument #:
Book - Page:
Sale Price:
Deed Type:
1st Mtg Document #:

Last Market Sale Information

Recording / Sale Date: /
Sale Price:
Sale Type:
Document #:
Instrument #:
Book - Page:
Deed Type:
Transfer Document #:
New Construction:
Multi / Split Sale:
Cash Down Payment:
Title Company:
Lender:
Seller Name:
1st Mtg Amount / Type: /
1st Mtg Int. Rate / Type: /
1st Mtg Term:
1st Mtg Document #:
1st Mtg Instrument #:
1st Mtg Book - Page:
2nd Mtg Amount / Type: /
2nd Mtg Int. Rate / Type: /
2nd Mtg Term:
Price per SqFt:
Stamps Amount:

Prior Sale Information

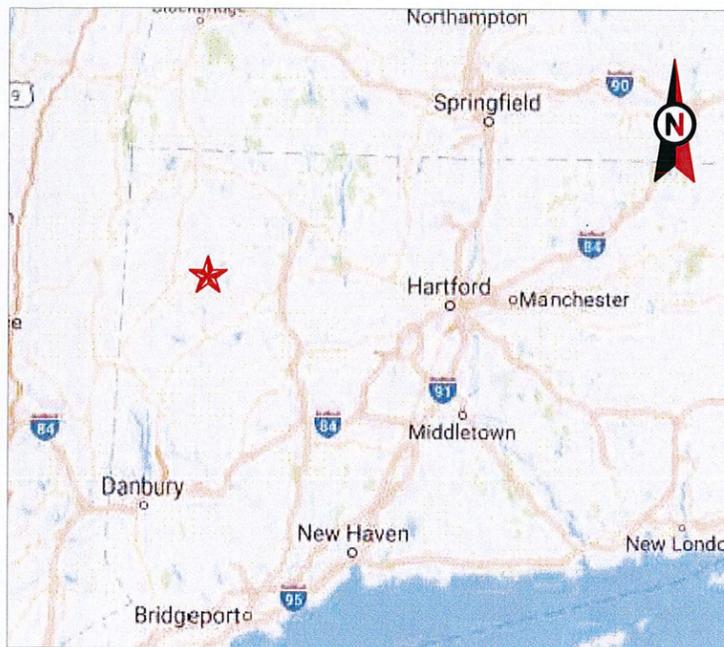
Prior Rec / Sale Date: /
Prior Sale Price:
Prior Sale Type:
Prior Doc #:
Prior Instrument #:
Prior Book - Page:
Prior Deed Type:
Prior Lender:
Prior 1stMtg Amount/Type: /
Prior 1stMtg Int. Rate/Type: /
Prior Stamps Amount:

Site Information

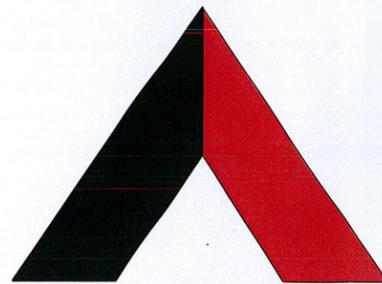
Land Use: COMMERCIAL BUILDING Acres:
County Use:
Flood Zone: Lot Area: 1 State Use: COMMERCIAL LAND
Flood Zone Map: Lot Width / Depth: / Site Influence:
Flood Panel Date: Usable Lot: Sewer Type:
Res / Comm Units: Lot Shape: Topography:

# of Buildings:	1	Bldg Width / Depth:	/	Water Type:		
Zoning:		Building Class:		Water District:		
Tax Information						
Total Value:	\$36,300.00	Assessed Year:	2016	Property Tax:	\$556.00	
Land Value:		Improve %:		Tax Area:	210	
Improvement Value:	\$36,300.00	Dist:		Tax Year:	2016	
Total Taxable Value:		Fire Dist:		Tax Exemption:		
Market Value:		Garbage Dist:		Equal Rate:		
		Delinquent Date:		Equal Year:		
Property Characteristics						
Gross Area:		Parking Type:		Construction:		
Living Area:		Garage Area:		Heat Type:		
Tot Adj Area:		Garage 2 Area:		Heat Fuel:		
Above Grade:		Garage Capacity:		Parcel Fuel:		
Ground Floor Area:		Parking Spaces:		Exterior Wall:		
Base / Main Area:	/	Carport:		Interior Wall:		
Upper Area:		Basement Area:		Foundation:		
2nd Floor Area:		Finish Bsmnt Area:		Air Cond:		
3rd Floor Area:		Basement Type:		Roof Type:		
Rentable Area:		Attic Type:		Roof Shape:		
Additional Area:		Porch Type:		Roof Frame:		
Total Rooms:		Porch 1 Area:		Roof Material:		
Bedrooms:		Porch 2 Area:		Floor Type:		
Bath (F/H):	/	Patio Type:		Floor Cover:		
Total Baths / Fixtures:	/	Patio 1 Area:		Style:		
Year Built / Eff:	/	Pool:		Quality:		
Fireplace:		Pool Area:		Condition:		
Fireplace Description:				# of Stories:		
Basement Description:				Other Rooms:		
Other Improvements:						
Bldg Comments:						
Parcel Comments:						
Extra Features						
Description:	Unit:	Size / Qty:	Width:	Depth:	Year Built:	Improvement Value:
L						

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VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: CORNWALL CT
 ATC SITE NUMBER: 88009
 VERIZON SITE NAME: MOHAWK MTN CT
 SITE ADDRESS: 36 MOHAWK TRAIL RD
 CORNWALL, CT 06753



LOCATION MAP

**VERIZON WIRELESS
 ANTENNA AMENDMENT DRAWINGS**

AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NW	11/01/17

ATC SITE NUMBER:
88009
 ATC SITE NAME:
CORNWALL CT
 SITE ADDRESS:
 36 MOHAWK TRAIL RD
 CORNWALL, CT 06753



Nov 2 2017 4:43 PM cosign



DRAWN BY:	NW
APPROVED BY:	KRF
DATE DRAWN:	11/01/17
ATC JOB NO:	12162881
CUSTOMER ID:	MOHAWK MTN CT

COVER SHEET

SHEET NUMBER:	REVISION:
G-001	0

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX					
<p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <ol style="list-style-type: none"> INTERNATIONAL BUILDING CODE (IBC) NATIONAL ELECTRIC CODE (NEC) LOCAL BUILDING CODE CITY/COUNTY ORDINANCES 	<p><u>SITE ADDRESS:</u> 36 MOHAWK TRAIL RD CORNWALL, CT 06753 COUNTY: LITCHFIELD</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.82130 LONGITUDE: -73.29644 GROUND ELEVATION: 1678' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:</p> <p>REMOVE (12) PANELS AND (6) 1-5/8" COAX</p> <p>INSTALL (12) NEW PANELS, (12) RRUs, (2) 1-5/8" HYBRID CABLES, AND (1) OVPs</p> <p>EXISTING (6) 1-5/8" TO REMAIN</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
			G-001	COVER SHEET	0	11/01/17	NW	
			G-002	GENERAL NOTES	0	11/01/17	NW	
			C-101	DETAILED SITE PLAN AND TOWER ELEVATION	0	11/01/17	NW	
			C-501	RF SCHEDULE AND ANTENNA INSTALLATION	0	11/01/17	NW	
			C-502	CONSTRUCTION DETAILS	0	11/01/17	NW	
		<p>PROJECT NOTES</p> <ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. 						
	<p><u>UTILITY COMPANIES</u></p> <p>POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326</p> <p>TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843</p>	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518</p> <p><u>PROPERTY OWNER:</u> AMERICAN TOWER 116 HUNTINGTON AVE BOSTON, MA 02116</p> <p><u>APPLICANT:</u> VERIZON WIRELESS 99 EAST RIVER DRIVE, 9TH FLOOR EAST HARTFORD, CT 06108</p>	<p>PROJECT LOCATION DIRECTIONS</p> <p>FROM HARTFORD, CT:</p> <p>TAKE I-84 WEST TO RT 4 WEST. FOLLOW RT 4 TO GOSHEN, CT. GO PAST THE GOSHEN MOTEL AND TAKE A LEFT ONTO ALLYN ROAD. ALLYN ROAD WILL TURN INTO MOHAWK MOUNTAIN ROAD WHERE THE STATE FOREST BEGINS. FOLLOW THIS TO THE TOP OF THE MOUNTAIN. ATC TOWER IS THE FIRST ONE ON THE LEFT AT THE TOP.</p>					



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GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC MASTER SPECIFICATIONS.
2. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
4. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
6. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
7. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
9. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON WIRELESS REP PRIOR TO PROCEEDING.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON WIRELESS REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
13. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON WIRELESS REP IMMEDIATELY.
15. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
16. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
17. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
18. CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
19. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
20. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
21. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
22. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
23. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
24. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
25. CONTRACTOR SHALL NOTIFY VERIZON WIRELESS REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.

27. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
28. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON WIRELESS REP. ANY WORK FOUND BY THE VERIZON WIRELESS REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
29. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
 - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.



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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NW	11/01/17

ATC SITE NUMBER:

88009

ATC SITE NAME:

CORNWALL CT

SITE ADDRESS:

36 MOHAWK TRAIL RD
 CORNWALL, CT 06753

SEAL:



Nov 2 2017 4:43 PM cosign



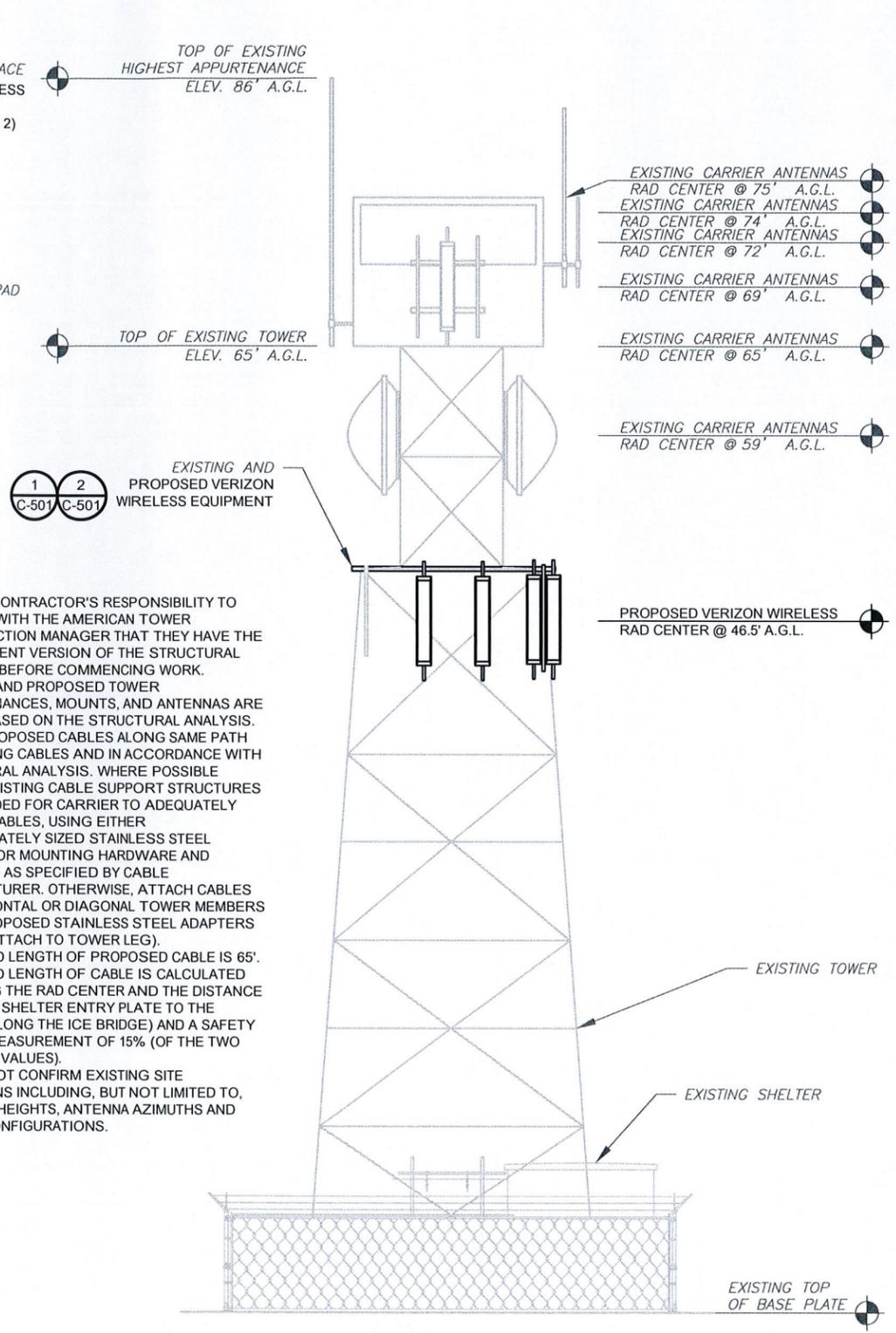
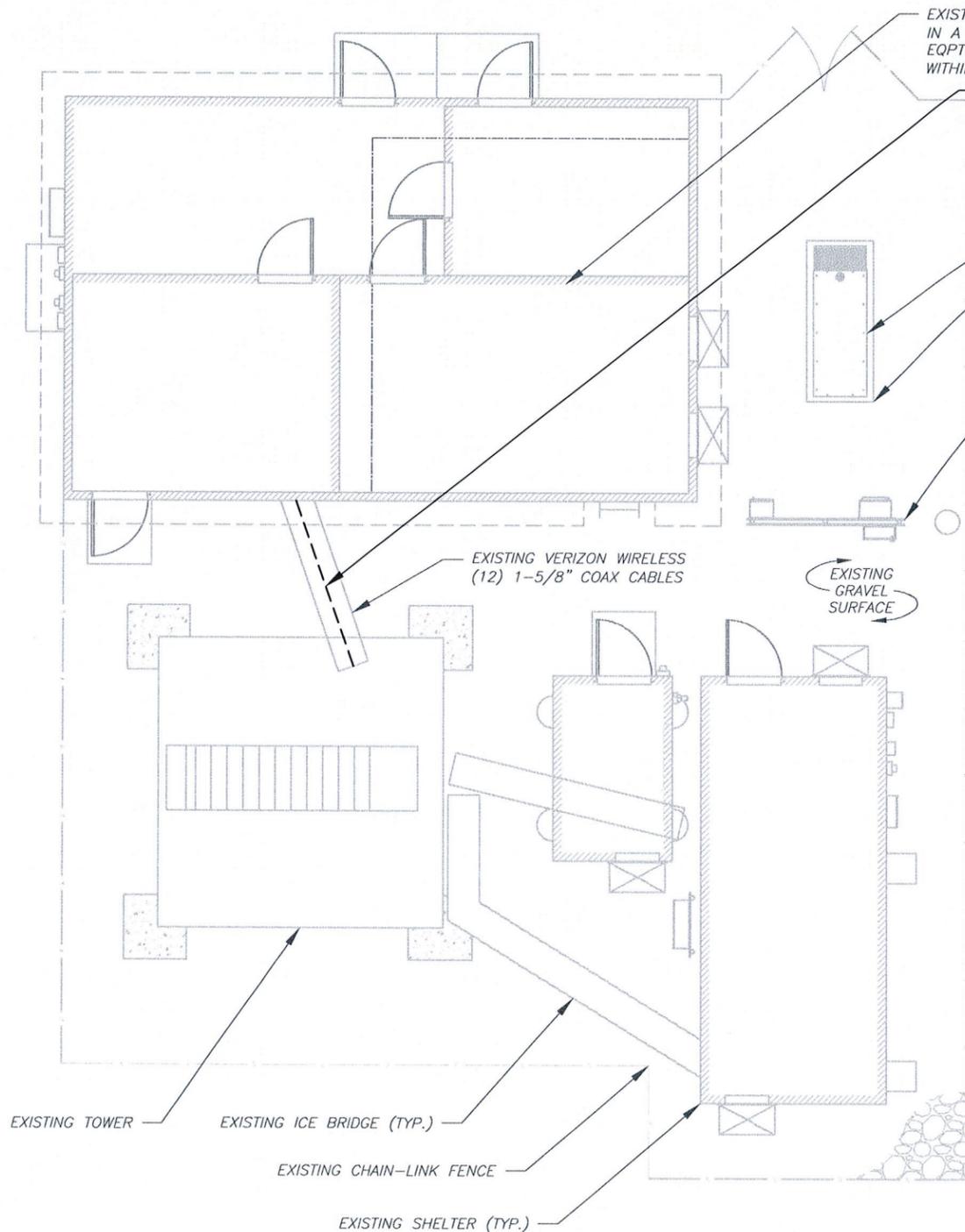
DRAWN BY:	NW
APPROVED BY:	KRF
DATE DRAWN:	11/01/17
ATC JOB NO:	12162881
CUSTOMER ID:	MOHAWK MTN CT

GENERAL NOTES

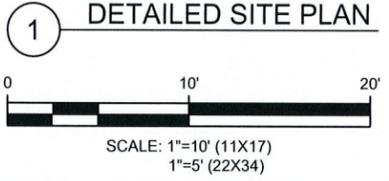
SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, CABLE SUPPORTS, AND CABLES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE INSTALLING NEW CABLE SUPPORT STRUCTURES, COAX PORTS, OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ATC CONSTRUCTION MANAGER AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.



- TOWER NOTE:**
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
 2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
 3. ESTIMATED LENGTH OF PROPOSED CABLE IS 65'. ESTIMATED LENGTH OF CABLE IS CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES).
 4. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS AND MOUNT CONFIGURATIONS.



2 TOWER ELEVATION
SCALE: NOT TO SCALE



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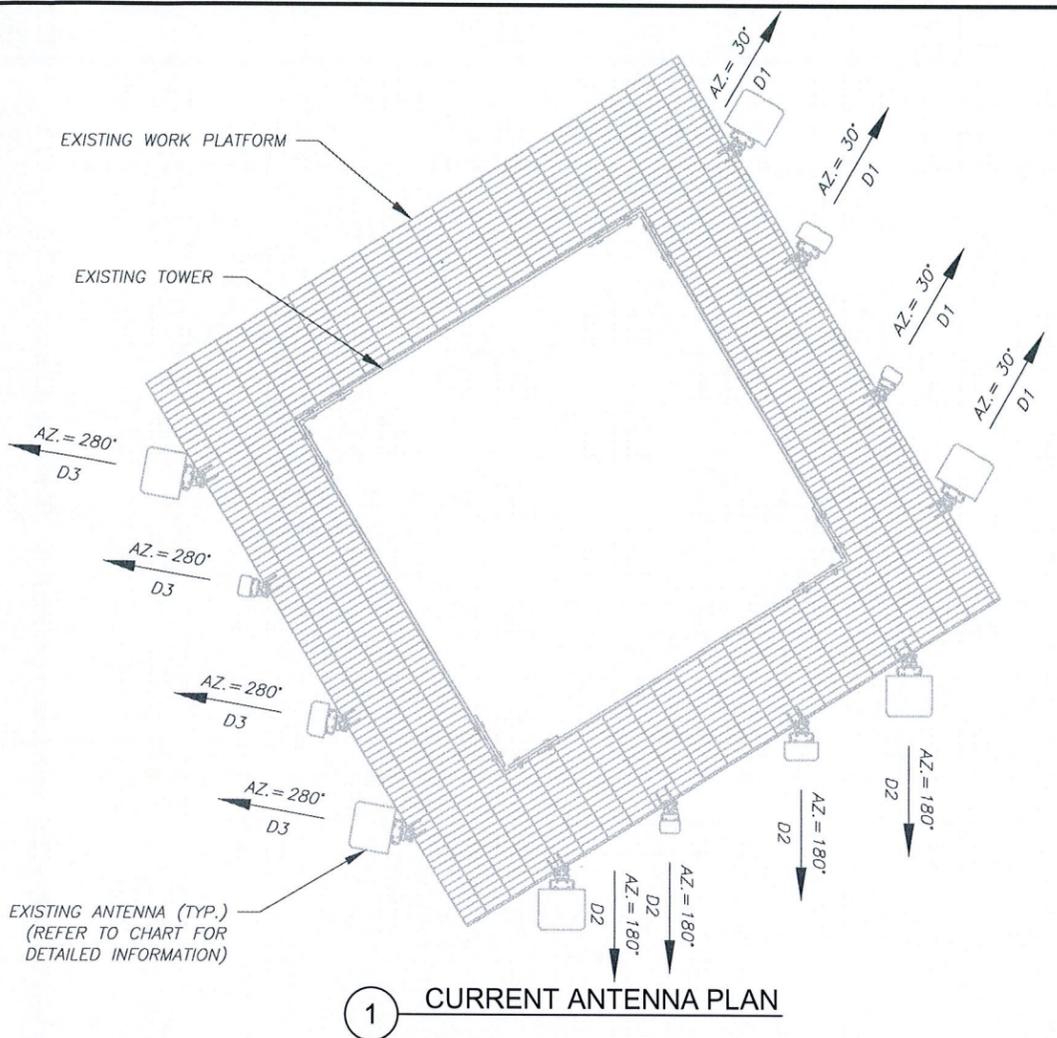
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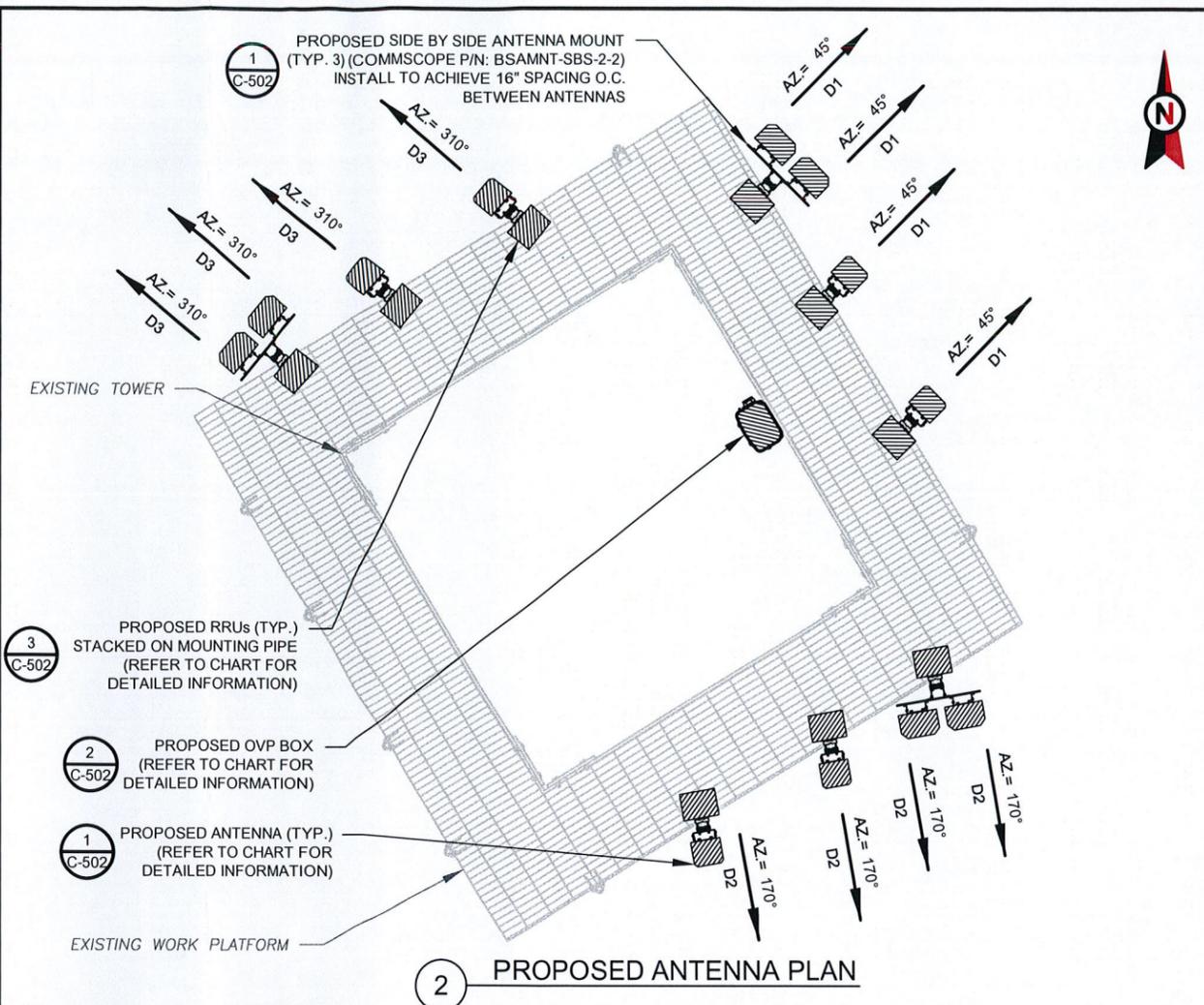
DRAWN BY:	NW
APPROVED BY:	KRF
DATE DRAWN:	11/01/17
ATC JOB NO:	12162881
CUSTOMER ID:	MOHAWK MTN CT

DETAILED SITE PLAN AND TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-101	0



1 CURRENT ANTENNA PLAN



2 PROPOSED ANTENNA PLAN

CURRENT ANTENNA AND RF EQUIPMENT SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	BAND	MODEL NUMBER	STATUS	POS	MODEL NUMBER	STATUS
D1	46.5'	30°	1	-	LPA-80063-6CF	RMV	1	-	-
			2	700 LTE	BXA-70063-6CF	RMV	2	-	-
			3	1900 CDMA	BXA-171063-12CF	RMV	3	-	-
			4	-	LPA-80063-6CF	RMV	4	-	-
D2	46.5'	180°	1	-	LPA-80063-6CF	RMV	1	-	-
			2	700 LTE	BXA-70063-6CF	RMV	2	-	-
			3	1900 CDMA	BXA-171063-12CF	RMV	3	-	-
			4	-	LPA-80063-6CF	RMV	4	-	-
D3	46.5'	280°	1	-	LPA-80063-6CF	RMV	1	-	-
			2	700 LTE	BXA-70063-6CF	RMV	2	-	-
			3	1900 CDMA	BXA-171063-12CF	RMV	3	-	-
			4	-	LPA-80063-6CF	RMV	4	-	-

CURRENT FIBER DISTRIBUTION / OVP BOX					CURRENT CABLING SUMMARY		
LOCATION	POS	BAND	MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	-	-	(6) 1-5/8"	-	RMN
-	-	-	-	-	(6) 1-5/8"	-	RMV

- NOTES
- BASED ON APPROVED ATC APPLICATION OAA715460, DATED 10/16/17. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS.
 - ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIGURATION OR MOUNT CONFIGURATION. CONTRACTOR TO VERIFY MOUNT CONFIGURATION HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (I.E. CLEARANCES, MOUNT PIPE OR SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
 - ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC CM.
 - CONFIRM SPACING OF PROPOSED EQUIPMENT DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 - POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).
 - CABLE LENGTHS SHOWN ESTIMATE MAXIMUM TYPICAL RUN AND INCORPORATE A 15% SAFETY FACTOR.

PROPOSED ANTENNA AND RF EQUIPMENT SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	BAND	MODEL NUMBER	STATUS	POS	MODEL NUMBER	STATUS
D1	46.5'	45°	1	700 / 850 / 1900 / 2100 LTE	(2) JAHH-65B-R3B	ADD	1	B25 RRH4X30-4R	ADD
			2	850 CDMA	DB846F65ZAXY	ADD	1	B66A RRH4X45 (AWS-3)	ADD
			3	850 CDMA	DB846F65ZAXY	ADD	2	B13 RRH4X30-4R	ADD
			4	-	-	-	3	B5 RRH4X40-850	ADD
D2	46.5'	170°	1	700 / 850 / 1900 / 2100 LTE	(2) JAHH-65B-R3B	ADD	1	B25 RRH4X30-4R	ADD
			2	850 CDMA	DB846F65ZAXY	ADD	1	B66A RRH4X45 (AWS-3)	ADD
			3	850 CDMA	DB846F65ZAXY	ADD	2	B13 RRH4X30-4R	ADD
			4	-	-	-	3	B5 RRH4X40-850	ADD
D3	46.5'	310°	1	700 / 850 / 1900 / 2100 LTE	(2) JAHH-65B-R3B	ADD	1	B25 RRH4X30-4R	ADD
			2	850 CDMA	DB846F65ZAXY	ADD	1	B66A RRH4X45 (AWS-3)	ADD
			3	850 CDMA	DB846F65ZAXY	ADD	2	B13 RRH4X30-4R	ADD
			4	-	-	-	3	B5 RRH4X40-850	ADD

PROPOSED FIBER DISTRIBUTION / OVP BOX					PROPOSED CABLING SUMMARY		
LOCATION	POS	BAND	MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
TOWER	-	-	DB-C1-12C-24AB-0Z	ADD	-	(2) 1-5/8"	ADD
-	-	-	-	-	(6) 1-5/8"	-	RMN

3 ANTENNA AND RF EQUIPMENT SCHEDULES

STATUS ABBREVIATIONS
 RMV: TO BE REMOVED DSC: TO BE DISCONNECTED
 RMN: TO REMAIN AND TO REMAIN
 REL: TO BE RELOCATED

CABLE LENGTHS FOR FIBER AND DC JUMPERS
 FROM FIBER DISTRIBUTION / OVP BOX TO RRU: 40' JUMPERS
 FROM RRU TO ANTENNA: 10' JUMPERS
 SEE NOTE ON C-502

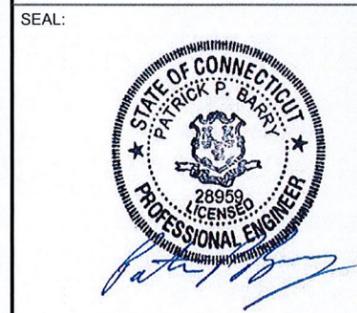


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 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NW	11/01/17

ATC SITE NUMBER:
88009
 ATC SITE NAME:
CORNWALL CT
 SITE ADDRESS:
 36 MOHAWK TRAIL RD
 CORNWALL, CT 06753



Nov 2 2017 4:43 PM cosign



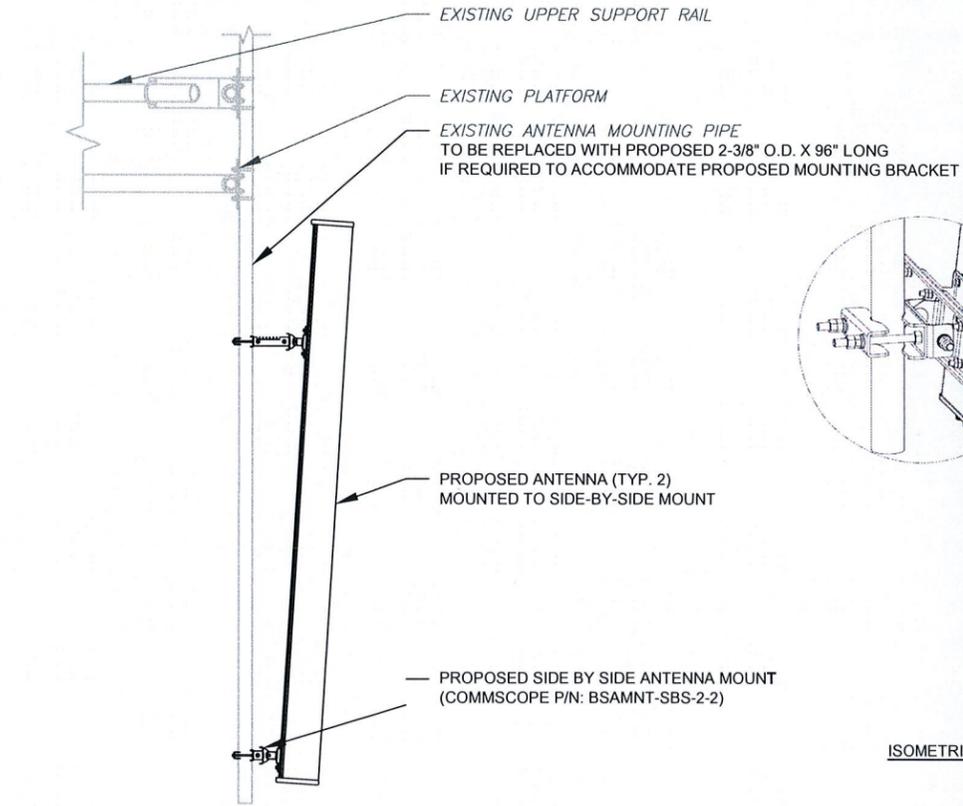
DRAWN BY:	NW
APPROVED BY:	KRF
DATE DRAWN:	11/01/17
ATC JOB NO:	12162881
CUSTOMER ID:	MOHAWK MTN CT

RF SCHEDULE AND ANTENNA INSTALLATION

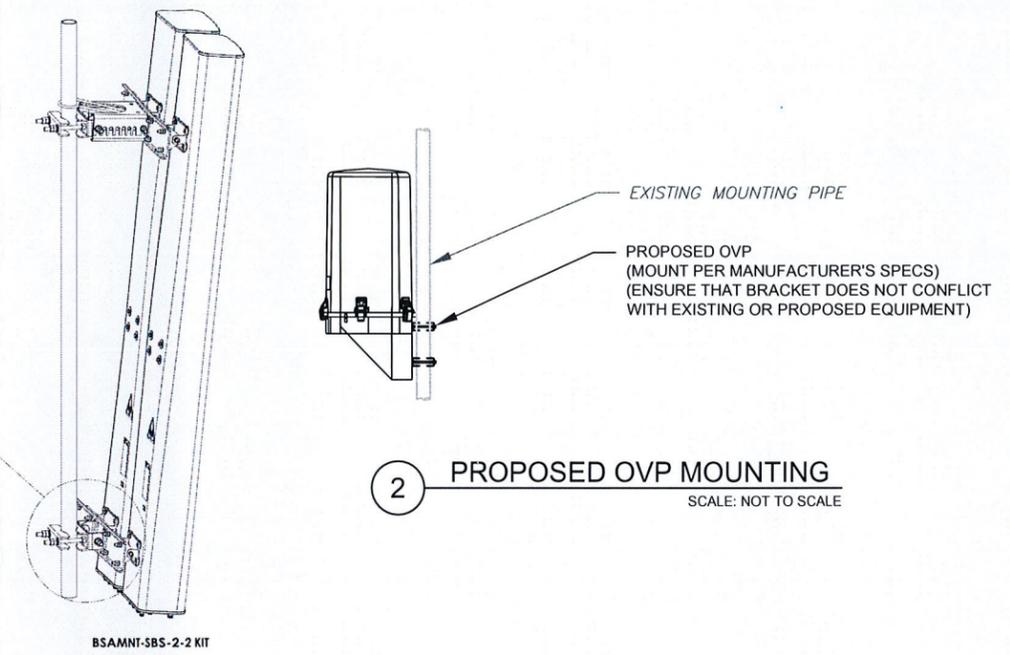
SHEET NUMBER:
C-501
 REVISION:
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CABLE LENGTHS FOR FIBER AND DC JUMPERS
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FROM RRU TO ANTENNA: 10' JUMPERS

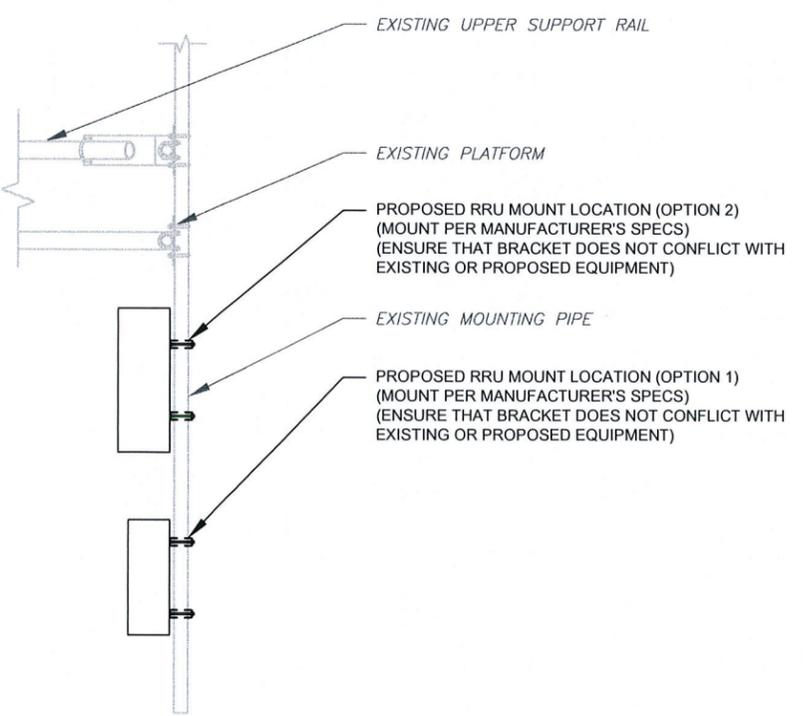
THE EXISTING SITE CONDITIONS AND RF EQUIPMENT CONFIGURATIONS SHOWN IN THESE PLANS IS BASED ON A FUTURE PROJECT PROPOSED BY THE CARRIER. CONTRACTOR SHALL VERIFY THE COMPLETION OF THE PREVIOUS PROJECT PRIOR TO COMMENCING AND NOTIFY THE ENGINEER OF RECORD IF ANY DISCREPANCIES IMPACT THE DESIGN OF THE CURRENT SCOPE OF WORK.



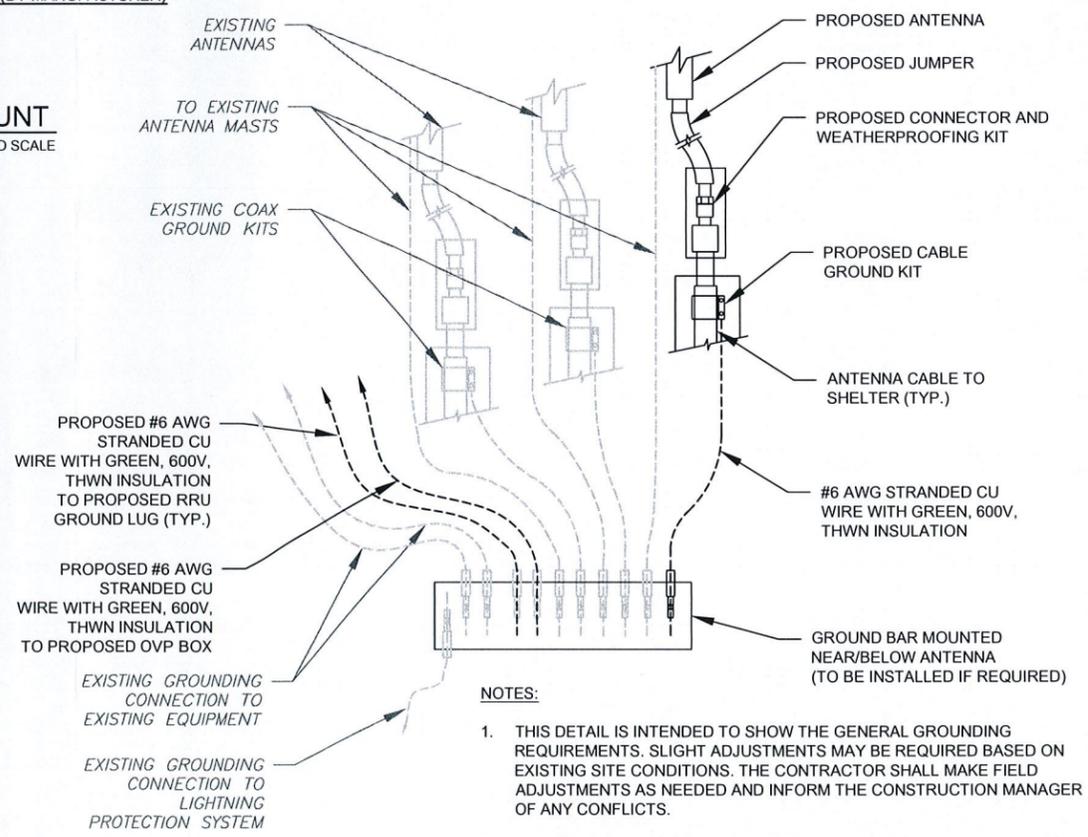
1 PROPOSED SIDE-BY-SIDE MOUNT
SCALE: NOT TO SCALE



2 PROPOSED OVP MOUNTING
SCALE: NOT TO SCALE



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: NOT TO SCALE



NOTES:
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

4 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

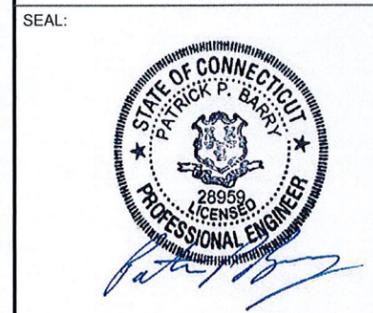


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**CONSTRUCTION
DETAILS**

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