

Alex Murshteyn, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

August 13, 2019

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

RE: Notice of Exempt Modification // Site: Killingly CT (ATC: 88011)
1375 North Road, Killingly (Dayville), CT 06241
N 41.8715 // W 71.8215

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 266-foot mount on the existing 287.5-foot ex-AT&T Long Lines lattice tower, located at 1375 North Rd, Killingly, CT. The Council approved Verizon Wireless use of the existing tower in 2005. The tower and property are both owned by American Tower. Verizon Wireless now intends to remove 6 of its existing antennas to replace with 6 and install them on side-by-side mounts for the LTE (700/850/1900/2100 MHz) replacements for its PCS/AWS/LTE upgrade. Additionally, Verizon Wireless will replace all of its remote radio head units (RRUs) and diplexers with 6 new RRUs plus 3 new diplexers, remove 1 over-voltage protector (OVP) and remove and upgrade certain cabling; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and 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 Town of Killingly's chief elected officials, including Chairman of Town Council Jonathan Cesolini and its Town Manager Mary Calorio, its Director of Planning & Development, Ann-Marie L. Aubrey, as well as American Tower, which is the tower and ground owner.

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 August 7, 2019 and a structural analysis dated August 2, 2019 by A.T.

Engineering Service, PLLC and radio frequency (RF) analysis table showing worst-case RF emission calculation 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 analyses by A.T. Engineering Service, PLLC, dated August 2, 2019.

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 Murshiteyn, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (508) 821-0159
AMurshiteyn@centerlinecommunications.com

Attachments

cc: Chairman Jonathan Cesolini, Killingly Town Council - as elected official
Mary Calorio, Killingly Town Manager - c/o elected official
Ann-Marie L. Aubrey, Director of Planning & Development - as P&Z official
American Tower Corporation - as property & tower

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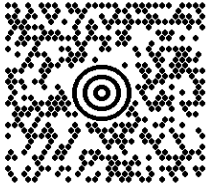

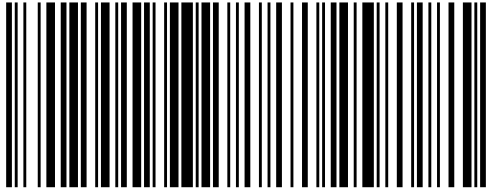
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ALEX MURSHTEYN 508-821-0159 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379	1 LBS	1 OF 1
DWT: 14,11,1		
SHIP TO: KILLINGLY TOWN COUNCIL CHAIRMAN JONATHAN CESOLINI KILLINGLY TOWN HALL 172 MAIN STREET KILLINGLY CT 06239-2822		
	CT 063 0-01 	
UPS GROUND TRACKING #: 1Z 9Y4 503 03 3813 8438		
		
BILLING: P/P		
Reference # 1: 88011 aka Killingly CT Reference # 2: CSC EM - CEO (1 of 2)	CS 21.5.26. WNTNV50 15.0A 07/2019	

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SHIP TO: MARY CALORIO KILLINGLY TOWN MANAGER KILLINGLY TOWN HALL 172 MAIN STREET KILLINGLY CT 06239-2822			
	CT 063 0-01 		
UPS GROUND TRACKING #: 1Z 9Y4 503 03 2945 2829			
			
BILLING: P/P			
Reference # 1: 88011 aka Killingly CT Reference # 2: CSC EM - CEO (2 of 2)			
<small>CS 21.5.26. WNTINV50 15.0A 07/2019</small>			

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ANDREA HOGARTH 5082821475 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 023791518	1 LBS	1 OF 1
DWT: 14,11,1		
SHIP TO: ANN-MARIE L. AUBREY DIRECTOR OF PLANNING & DEVELOPMENT 171 MAIN STREET KILLINGLY CT 06239-2814		
	CT 063 0-01 	
UPS GROUND TRACKING #: 1Z 9Y4 503 03 2116 0211		
		
BILLING: P/P		
Reference # 1: 88011 aka Killingly CT Reference # 2: CSC EM - P&Z	CS 21.5.26. WNTINV50 15.0A 07/2019	 ™

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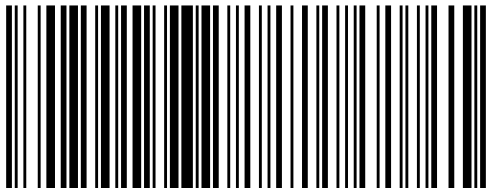

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SHIP TO: KARLA HANNA, PROJECT MANAGER AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053			
	MA 018 9-04 		
UPS GROUND TRACKING #: 1Z 9Y4 503 03 3811 7040			
			
BILLING: P/P			
Reference # 1: 88011 aka Killingly CT Reference # 2: CSC EM - TO & PO			
CS 21.5.26. WNTINV50 15.0A 07/2019			



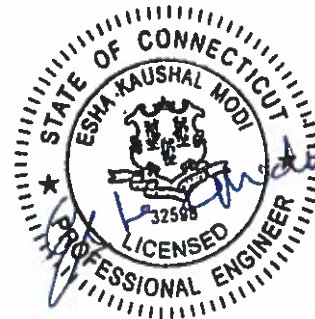
AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 287.5 ft Self Supported Tower
ATC Site Name : EAST KILLINGLY NORTH, CT
ATC Site Number : 88011
Engineering Number : 12973689_C3_01
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : KILLINGLY CT
Carrier Site Number : 15418043
Site Location : 1375 North Road
Killingly, CT 06241-1404
41.871500,-71.821500
County : Windham
Date : August 2, 2019
Max Usage : 99%
Result : Pass

Prepared By:
Annika A. Venning, E.I.
Structural Engineer II

Reviewed By:



Authorized by "EOR"
Aug 2 2019 11:42 AM

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment	2
Structure Usages	3
Foundations	3
Standard Conditions	4
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 287.5 ft self supported tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	CSEI Analysis, ATC Eng. #26726321, dated September 13, 2006
Foundation Drawing	CSEI Analysis, ATC Eng. #26726321, dated September 13, 2006
Geotechnical Report	FDH Velocitel Project #17PXNW1600, dated February 27, 2017
Modifications	ATC Project #45432633, dated July 9, 2010 ATC Project #OAA686695_C6_04, dated November 28, 2016

Analysis

The tower was analyzed using Power Line Systems, Inc.'s tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	101 mph (3-Second Gust, V_{asd}) / 130 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2015 IBC / 2018 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	5*
Crest Height:	0 ft

*Wind speed and topographic effects have been adjusted per site specific wind study in accordance with ASCE 7-10 Section 26.5.3, IBC Section 1609.3, and TIA-222-G Section 2.6.6.2.5

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

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
306.0	3	RFS APXVTM14-ALU-I20	Sector Frame	(4) 1 1/4" Hybriflex Cable (6) 1 5/8" Coax	SPRINT NEXTEL
	3	Alcatel-Lucent 1900 MHz 4X45 RRH			
	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	6	Alcatel-Lucent RRH2x50-08			
	3	Commscope NNVV-65B-R4			
290.0	1	Generic Low Noise Amplifier	Side Arm	(1) 7/8" Coax	SIGFOX S.A.
	1	Procom CXL 900-3LW			
	1	Generic 5" x 3" x 2" Cavity Filter			
277.0	4	RFS APX16DWV-16DWVS-E-A20	Sector Frame	(4) 1 5/8" Hybriflex (1) 1/2" Coax	T-MOBILE
	4	Ericsson AIR32 B66Aa/B2a			
	1	Commscope SHP2-13			
	4	Ericsson RRUS 11 B4			
	4	Ericsson RRUS 11 B12			
	4	Ericsson Radio 4478 B71			
	8	Commscope CBC6AE7LQ-DS-43			
	4	RFS APXVAA24_43-U-A20			
266.0	3	Samsung B2/B66A RRH-BR049	Sector Frame	(1) 1 1/4" Hybriflex Cable (6) 1 5/8" Coax	VERIZON WIRELESS
	4	Commscope JAHH-45B-R3B			
	2	Commscope JAHH-65B-R3B			
	6	Amphenol Antel LPA-80063-4CF-EDIN-X			
	3	Samsung B5/B13 RRH-BR04C			
	1	Raycap RC3DC-3315-PF-48			
246.0	1	Kathrein Scala 800 10766	Sector Frame	(1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6 (12) 2 1/4" Coax (1) 3" conduit	AT&T MOBILITY
	2	KMW AM-X-CD-17-65-00T-RET (96" Height)			
	6	Powerwave Allgon P65-15-XLH-RR			
	3	Ericsson RRUS-11			
	3	Raycap DC2-48-60-0-9E			
	6	Powerwave Allgon TT19-088P111-001			
	1	Raycap FC12-PC6-10E (20.35 lb)			
210.5	1	Andrew DB264	Side Arm	(1) 7/8" Coax	US DEPT OF JUSTICE
50.0	1	MicroPulse GPS-QBW-26N	Stand Off	(1) 1/2" Coax	VERIZON WIRELESS

Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
266.0	1	Raycap RC3DC-3315-PF-48	-	(1) 1 1/4" Hybriflex Cable	VERIZON WIRELESS

Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
266.0	3	Commscope CBC78T-DS-43-2X	Sector Frame	-	VERIZON WIRELESS

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	82%	Pass
Diagonals	98%	Pass
Truss Diagonals	99%	Pass
Horizontals	89%	Pass
Truss Horizontals	99%	Pass
Anchor Bolts	52%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	355.7	76%
Axial (Kips)	478.7	10%

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.



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

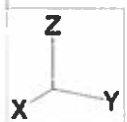
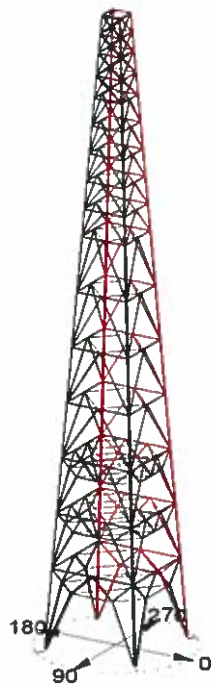
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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 supplied herein.



Project Name : 080219 - East Killingly North, CT
 Project Notes : GAA\20744_C3_02 - T-Mobile
 Project File : \\sdc\projects\080219-VERIZON WIRELESS\12973689_01\02_STRUCT\080219-VERIZON WIRELESS-12973689_C3_01.rvt
 Date run : 10/03/11 AM Friday, August 2, 2010
 by : Tower Version 15.13
 Licensed to : American Tower Corp.

Successfully performed nonlinear analysis

The Model has 0 warnings.

Model check options: ANSI C1A 22-3-1
 Connection rupture check: N T Checked
 Crossing diagonal checks: Fixed
 Included angle checks: None
 Climbing load checks: None
 Restraint member checked with: Actual Force
 Loads from file: \\sdc\projects\080219-VERIZON WIRELESS\12973689_01\02_STRUCT\080219-VERIZON WIRELESS-12973689_C3_01.rvt

*** Analysis Results:

Maximum element usage is 99.351 for Angle "LM 3X" in load case "M -41"

Foundation Design Values For All Load Cases:

Note: loads are factored

Load Case	Promotion Description	axial Force (kips)	Shear Force (kips)	Bending Moment (ft-k)	Foundation Usage %
M 0	CP	342.66	48.98	4.08	0.00
M 0	OX	330.80	48.19	3.94	0.00
M 0	OXY	-19.94	37.66	4.29	0.00
M 0	OY	-19.90	38.12	4.47	0.00
M 103	CP	-216.70	38.03	4.55	0.00
M 103	OX	-16.90	37.53	4.36	0.00
M 103	OXY	336.72	48.16	3.99	0.00
M 103	OY	345.57	48.82	4.13	0.00
M 45	CP	478.73	45.24	2.82	0.00
M 45	OX	60.37	20.21	4.85	0.00
M 45	OXY	435.49	46.72	4.56	0.00
M 45	OY	60.20	20.14	4.83	0.00
M -45	CP	64.09	21.08	5.07	0.00
M -45	OX	41.60	48.85	4.84	0.00
M -45	OXY	59.24	19.65	4.70	0.00
M -45	OY	-154.22	56.80	4.59	0.00
M 90	CP	36.70	48.97	4.39	0.00
M 90	OX	-218.88	38.12	4.48	0.00
M 90	OXY	-219.80	37.64	4.49	0.00
M 90	OY	339.48	48.12	3.93	0.00
M -90	CP	-216.74	38.04	4.56	0.00
M -90	OX	343.77	48.84	4.14	0.00
M -90	OXY	-151.68	48.14	3.89	0.00
M -90	OY	-117.10	37.52	4.33	0.00
M D Ice	CP	383.38	20.15	1.34	0.00
M D Ice	OX	354.74	19.86	1.23	0.00
M D Ice	OXY	35.18	3.48	-1.11	0.00
M D Ice	OY	37.88	3.52	-1.19	0.00
M 180 Ice	CP	41.13	3.82	-2.27	0.00
M 180 Ice	OX	39.43	3.73	-2.20	0.00
M 180 Ice	OXY	156.66	19.78	1.28	0.00
M 180 Ice	OY	159.96	20.00	1.31	0.00
M 45 Ice	CP	191.63	24.33	1.61	0.00
M 45 Ice	OX	98.84	11.94	1.89	0.00
M 45 Ice	OXY	3.79	2.44	2.24	0.00
M 45 Ice	OY	86.68	11.82	1.88	0.00
M -45 Ice	CP	102.26	12.22	1.89	0.00
M -45 Ice	OX	191.36	24.11	1.76	0.00
M -45 Ice	OXY	93.59	11.72	1.83	0.00
M -45 Ice	OY	4.59	2.32	2.31	0.00
M 90 Ice	CP	163.38	20.15	1.34	0.00
M 90 Ice	OX	38.03	3.54	-2.19	0.00
M 90 Ice	OXY	35.18	3.45	-1.11	0.00
M 90 Ice	OY	35.97	3.52	-1.22	0.00
M -90 Ice	CP	41.12	3.82	-2.27	0.00
M -90 Ice	OX	39.43	3.73	-2.20	0.00
M -90 Ice	OXY	156.65	19.77	1.28	0.00
M -90 Ice	OY	159.27	3.71	2.19	0.00

Summary of Joint Support Reactions For All Load Cases

Load Case	Joint Label	Long Force (kips)	Trans Force (kips)	Vert Force (kips)	Shear Force (kips)	Tran Moment (ft-k)	Long Moment (ft-k)	Vert Moment (ft-k)	Usage %	
M 0	OP	-43.53	-22.81	-343.66	48.98	-1.42	3.92	-2.11	0.00	
M 0	OX	-42.46	22.78	-339.89	48.19	1.28	-3.65	1.84	2.14	0.00
M 0	OXY	-33.41	-17.37	-219.98	37.66	0.29	-4.28	4.29	1.97	0.00
M 0	OY	-34.15	18.98	-219.89	38.12	-0.22	-4.17	4.47	1.97	0.00
M 103	CP	34.15	16.72	116.70	38.03	-0.22	4.55	4.55	1.91	0.00
M 103	OX	33.40	-17.12	216.98	37.53	0.29	4.35	4.36	-1.91	0.00
M 103	OXY	42.70	22.82	-339.86	48.16	1.19	-3.72	3.99	2.12	0.00
M 103	OY	43.48	-22.28	-340.57	48.82	-1.41	3.88	4.13	2.13	0.00
M 45	CP	-48.10	-46.16	-478.73	45.24	-2.08	-1.99	2.82	-3.00	0.00
M 45	OX	-37.36	15.48	-60.37	20.21	3.88	4.73	4.85	-2.45	0.00
M 45	OXY	-43.13	-40.09	-355.69	56.72	3.18	-3.20	4.52	-3.00	0.00
M 45	OY	-10.32	-17.33	-61.20	20.14	2.76	-3.97	4.83	-2.94	0.00
M -45	CP	18.19	16.65	181.89	21.08	-0.16	-2.89	5.07	-2.96	0.00
M -45	OX	45.30	16.81	-474.48	64.85	-2.16	-1.86	2.86	0.00	0.00
M -45	OXY	-9.81	17.03	-59.24	19.65	-2.73	-1.63	4.70	2.98	0.00
M -45	OY	-13.74	-18.11	-58.80	-3.16	-3.12	4.59	0.81	0.00	
M 90	CP	-2.17	-43.57	-343.70	48.97	3.83	4.43	4.68	-2.11	0.00
M 90	OX	16.89	-34.18	-218.88	38.12	4.48	0.21	4.48	1.90	0.00
M 90	OXY	-17.40	-33.38	-219.90	37.64	4.27	-0.29	4.28	-1.91	0.00
M 90	OY	-22.81	-42.41	-219.89	48.12	-3.64	-11.98	3.82	-2.13	0.00
M -90	CP	16.69	34.18	116.74	38.04	-4.55	0.21	4.56	-1.91	0.00
M -90	OX	-22.17	43.52	-340.57	49.84	-3.89	1.42	4.14	-2.15	0.00
M -90	OXY	42.70	22.82	-339.86	48.16	1.19	-3.71	-3.88	2.12	0.00
M -90	OY	-17.16	33.37	-117.10	37.52	-4.34	-0.30	4.35	1.91	0.00
M D Ice	CP	-16.10	-11.71	-163.38	20.15	-1.32	0.20	1.34	-1.46	0.00
M D Ice	OX	-16.00	11.77	-159.74	19.86	1.31	-0.23	1.23	-1.45	0.00
M D Ice	OXY	-0.63	1.39	-35.18	3.45	0.92	-1.90	2.11	0.45	0.00
M D Ice	OY	-0.64	-1.46	-37.88	3.52	-0.99	-1.96	2.19	-0.41	0.00
M 180 Ice	CP	41.13	3.82	-2.27	0.00	0.00	0.00	0.00	0.00	
M 180 Ice	OX	0.65	3.67	-38.43	3.73	0.93	1.99	2.20	-1.46	0.00
M 180 Ice	OXY	16.02	11.59	-156.66	19.78	1.19	-0.13	1.20	-1.46	0.00
M 180 Ice	OY	16.37	-11.48	-159.96	20.00	-1.31	-0.11	1.32	-0.47	0.00
M 45 Ice	CP	-17.20	-17.21	-194.85	24.33	-3.56	0.58	0.82	0.80	0.00
M 45 Ice	OX	-19.99	4.48	-99.84	11.94	1.86	0.32	1.89	0.67	0.00
M 45 Ice	OXY	-11.77	-17.33	-37.97	2.44	1.58	-1.58	2.24	-3.00	0.00
M 45 Ice	OY	4.10	-10.97	-88.68	11.82	-1.82	-1.85	1.88	-1.67	0.00
M -45 Ice	CP	-11.41	-4.36	-102.26	12.22	-1.97	0.29	1.99	-3.69	0.00
M -45 Ice	OX	-18.85	17.25	-181.36	14.31	0.48	0.60	0.76	-0.81	0.00
M -45 Ice	OXY	4.16	10.81	86.87	11.77	0.23	-1.81	1.83	0.69	0.00
M -45 Ice	OY	-1.40	1.68	-6.59	2.32	-1.63	-1.41	2.31	0.02	0.00
M 90 Ice	CP	-11.70	-16.41	-163.38	20.15	-1.20	1.33	1.34	0.46	0.00
M 90 Ice	OX	-3.48	-0.44	-38.03	3.54	1.98	0.98	2.19	-0.43	0.00
M 90 Ice	OXY	1.39	-0.63	-35.18	3.45	1.90	-3.92	2.11	-0.45	0.00
M 90 Ice	OY	11.77	-15.99	-159.57	19.85	-3.22	-1.20	1.22	-0.45	0.00
M -90 Ice	CP	-3.79	0.42	-41.12	3.82	-2.64	0.98	2.27	-0.44	0.00
M -90 Ice	OX	-11.48	16.38	-160.13	20.01	0.13	1.32	1.31	-0.47	0.00
M -90 Ice	OXY	11.61	16.01	-156.65	19.77	0.14	-1.19	1.10	0.46	0.00
M -90 Ice	OY	3.66	0.64	-38.27	3.71	-1.99	-3.92	2.19	0.46	0.00

Summary of Joint Support Reactions For All Load Cases in Direction of Log

Load Case	Support Origin	Log Force in Joint	Residual Log Force	Shear Residual	Residual Shear	Residual Shear	Residual Shear	Residual Shear	Total Long Force	Total Trans Force	Total Vert Force
Joint	Joint Number	Log Dir	Log Dir	To Log	To Log	Res To Log	Res To Log	Res To Log	(kips)	(kips)	(kips)
M 0	OP	1P	L 1P	346.474	22.09	22.055	22.055	0.936	-43.53	-22.81	-343.66
M 0	OX	1P	L 1X	341.627	21.354	21.352	21.352	-1.602	-42.46	22.78	-339.89
M 0	OXY	1X	L 1XY	-20.143	19.948	19.948	19.948	1.631	-34.15	-17.37	-219.94
M 0	OY	1Y	L 1Y	-21.330	20.868	20.721	20.646	-3.251	-34.15	16.93	-219.89
M 103	CP	1P	L 1P	-219.850	-20.805	-20.807	-20.807	-3.176	34.15	16.72	116.70
M 103	OX	1P	L 1X	-219.850	-20.805	-20.807	-20.807	-3.176	34.15	16.72	116.70
M 103	OXY	1X	L 1XY	339.472	-21.872	-21.520	-21.520	-1.619	42.50	22.66	-339.472
M 103	OY	1Y	L 1Y	343.394	-22.275	-22.221	-22.221	0.918	43.48	-22.20	-340.57
M 45	CP	1P	L 1P	482.609	16.181	16.181	16.181	16.245	-48.10	-46.16	-478.73
M 45	OX	1X	L 1X	61.548	19.614	19.614	19.614	14.134	-17.36	-10.36	-60.37
M 45	OXY	1X	L 1XY	-359.130	25.197	25.295	25.295	17.865	-40.13	-40.09	-355.69
M 45	OY	1Y	L 1Y	-61.200	19.532	19.532	19.532	19.532	-10.32	-17.33	-61.20
M -45	CP	1P	L 1P	64.312	20.391	20.394	20.394	-14.652	-18.19	10.45	-64.312
M -45	OX	1X	L 1X	476.462	-22.817	-22.921	-22.921	-14.754	-45.30	46.41	-474.48
M -45	OXY	1X	L 1XY	-19.654	19.532	19.532	19.532	17.865	-40.13	-40.09	-355.69
M -45	OY	1Y	L 1Y	-40.090	25.196	25.493	25.493	-17.641	-40.24	39.70	-354.87
M 90	CP	1P	L 1P	346.474	22.084	22.110	22.110	22.092	-22.57	-43.57	-343.70
M 90	OX	1P	L 1X	341.627	21.352	21.352	21.352	-1.602	-42.46	22.78	-339.89
M 90	OXY	1X	L 1XY	-20.143	19.927	19.927	19.927	1.631	-34.15	-17.37	-219.94
M 90	OY	1Y	L 1Y	-21.330	20.868	20.721	20.721	-3.251	-34.15	16.93	-219.89
M -90	CP	1P	L 1P	-219.850	-20.805	-20.807	-20.807	-3.176	34.15	16.72	116.70
M -90	OX	1P	L 1X	-219.850	-20.805	-20.807	-20.807	-3.176	34.15	16.72	116.70
M -90	OXY	1X	L 1XY	339.472	-21.872	-21.520	-21.520	-1.619	42.50	22.66	-339.472
M -90	OY	1Y	L 1Y	343.394	-22.275	-22.221	-22.221	0.918	43.48	-22.20	-340.57

Lead Case	Maxim Usage	Element Label	Element Type	W 0	W 100	W 45	W 90	W 0 Ice	W 10 Ice	W 45 Ice	W 90 Ice
Lead 07	L 4" x 8" x 0.625"	SAE 67800.63	36.0 63.21	Comp 36.43	L 7X7 113.339	M 45 311.364	0.000	0.000	0.000	0.000	25.097
Lead 08	L 4" x 8" x 0.75"	SAE 67800.75	36.0 62.48	Comp 39.21	L 8X7 98.566	M 45 273.656	0.000	0.000	0.000	0.000	12.549
Lead 09	L 4" x 8" x 0.75"	SAE 67800.75	36.0 62.97	Comp 29.14	L 9X7 79.649	M 45 273.656	0.000	0.000	0.000	0.000	12.549
Lead 10	L 6" x 6" x 0.1621"	SAE 67800.56	36.0 56.07	Comp 30.14	L 10X7 62.790	M 45 208.332	0.000	0.000	0.000	0.000	12.549
Lead 11	L 6" x 6" x 0.1621"	SAE 67800.56	36.0 55.07	Comp 22.09	L 11X7 46.011	M 45 208.332	0.000	0.000	0.000	0.000	12.549
Lead 12	L 6" x 6" x 0.1621"	SAE 67800.44	36.0 43.69	Comp 17.96	L 12X7 29.441	M 45 163.944	0.000	0.000	0.000	0.000	12.549
Lead 13	L 5" x 5" x 0.4375"	SAE 57500.44	36.0 39.44	Comp 16.70	L 13X7 22.732	M 45 135.432	0.000	0.000	0.000	0.000	10.207
Lead 14	L 5" x 5" x 0.4375"	SAE 57500.44	36.0 26.81	Comp 8.19	L 14X7 11.890	M 45 135.432	0.000	0.000	0.000	0.000	10.207
Lead 15	L 5" x 5" x 0.3125"	SAE 57500.35	36.0 16.91	Comp 3.44	L 15X7 3.117	M 45 99.172	0.000	0.000	0.000	0.000	8.616
Lead 16	L 5" x 5" x 0.3125"	SAE 57500.31	36.0 7.17	Comp 0.00	L 16X7 0.888	M 45 99.172	0.000	0.000	0.000	0.000	8.616
Diag 01	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 43.35	Comp 26.51	D 2F 55.985	M +90 196.020	0.000	0.000	0.000	0.000	33.789
Diag 02	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 96.37	Comp 44.76	D 4F 41.749	M +90 93.312	0.000	0.000	0.000	0.000	20.603
Diag 03	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 84.16	Comp 44.19	D 6F 41.232	M +90 93.312	0.000	0.000	0.000	0.000	20.250
Diag 04	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 98.18	Comp 34.74	D 7F 29.599	M +90 85.212	0.000	0.000	0.000	0.000	20.271
Diag 05	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 95.34	Comp 34.89	D 9F 29.734	M +90 85.212	0.000	0.000	0.000	0.000	19.422
Diag 06	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 97.19	Comp 34.15	D 11F 29.102	M +90 85.212	0.000	0.000	0.000	0.000	18.633
Diag 07	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 96.77	Comp 34.16	D 13F 29.109	M +90 85.212	0.000	0.000	0.000	0.000	17.910
Diag 08	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 74.67	Comp 22.07	D 15F 17.018	M +90 77.112	0.000	0.000	0.000	0.000	16.504
Diag 09	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 66.72	Comp 20.63	D 17F 15.978	M +90 77.112	0.000	0.000	0.000	0.000	16.006
Diag 10	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 96.50	Comp 22.27	D 19F 15.367	M +90 69.012	0.000	0.000	0.000	0.000	15.532
Diag 11	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 91.74	Comp 22.17	D 21F 15.392	M +90 69.012	0.000	0.000	0.000	0.000	15.083
Diag 12	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 83.24	Comp 21.60	D 23F 14.905	M +90 69.012	0.000	0.000	0.000	0.000	14.662
Diag 13	L 3.5" x 3.5" x 0.25"	SAE 3.5X3.5X0.25	36.0 45.48	Comp 12.43	D 26X 6.819	M 90 54.756	0.000	0.000	0.000	0.000	16.556
Diag 14	L 3.5" x 3.5" x 0.25"	SAE 3.5X3.5X0.25	36.0 12.07	Comp 12.47	D 28X 6.825	M 90 54.756	0.000	0.000	0.000	0.000	15.574
Diag 15	L 3" x 3" x 0.25"	SAE 3X3X0.25	36.0 11.44	Comp 8.87	D 29F 4.138	M 0 46.656	0.000	0.000	0.000	0.000	13.657
Diag 16	L 3" x 3" x 0.25"	SAE 3X3X0.25	36.0 17.25	Comp 4.73	D 31X 2.206	M 0 46.656	0.000	0.000	0.000	0.000	12.841
W12 1	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 89.53	Comp 43.60	H 1P 40.665	M 90 93.312	0.000	0.000	0.000	0.000	20.110
W12 2	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 82.55	Comp 47.99	H 3X 38.239	M +90 93.312	0.000	0.000	0.000	0.000	12.372
W12 3	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 89.06	Comp 47.53	H 5X 34.533	M +90 85.212	0.000	0.000	0.000	0.000	11.331
W12 4	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 73.68	Comp 19.28	H 7X 16.491	M +90 85.212	0.000	0.000	0.000	0.000	15.494
W12 5	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 59.89	Comp 17.87	H 9X 15.224	M +90 85.212	0.000	0.000	0.000	0.000	13.972
W12 6	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 64.13	Comp 17.31	H 11X 13.346	M +90 77.112	0.000	0.000	0.000	0.000	12.110
W12 7	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 50.72	Comp 16.32	H 13P 12.587	M +90 77.112	0.000	0.000	0.000	0.000	10.748
W12 8	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 40.77	Comp 14.19	H 15X 10.941	M +90 77.112	0.000	0.000	0.000	0.000	9.967
W12 9	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 32.55	Comp 12.93	H 17F 9.969	M 90 77.112	0.000	0.000	0.000	0.000	9.186
W12 10	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 16.22	Comp 11.59	H 19X 8.937	M +90 77.112	0.000	0.000	0.000	0.000	8.425
W12 11	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 23.09	Comp 11.14	H 21P 8.591	M 90 77.112	0.000	0.000	0.000	0.000	7.624
W12 12	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 16.75	Comp 10.64	H 23P 8.293	M 90 77.112	0.000	0.000	0.000	0.000	6.843
W12 13	L 1" x 2.5" x 0.25"	SAE 3X2.5X0.25	36.0 9.10	Ten9 9.10	H 25P 3.861	M 0 42.444	0.000	0.000	0.000	0.000	12.416
W12 14	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 2.72	Ten9 2.72	H 27P 2.319	M 0 55.212	0.000	0.000	0.000	0.000	11.145
W12 15	L 1" x 2.5" x 0.25"	SAE 3X2.5X0.25	36.0 3.00	Ten9 3.00	H 29P 1.936	M 0 42.444	0.000	0.000	0.000	0.000	10.073
W12 16	CR11.5	CRN CR11.5	36.0 1.01	Comp 0.49	H 31X 0.541	M 0 109.512	0.000	0.000	0.000	0.000	9.880
LD 1	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 55.70	Comp 27.19	LD 2F 29.791	M +45 189.512	0.000	0.000	0.000	0.000	13.764
LD 2	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 60.71	Comp 16.42	LD 3F 81.526	M +90 155.320	0.000	0.000	0.000	0.000	13.764
LD 3	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 89.25	Comp 29.85	LD 6F 20.599	M +45 69.812	0.000	0.000	0.000	0.000	11.061
LD 4	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 80.70	Comp 46.73	LD 9F 27.762	M +90 69.012	0.000	0.000	0.000	0.000	10.660
LD 5	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 89.72	Comp 45.38	LD 11X 31.994	M +90 77.112	0.000	0.000	0.000	0.000	9.374
LD 6	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 89.72	Comp 45.38	LD 13X 31.994	M +90 77.112	0.000	0.000	0.000	0.000	8.174
LD 7	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 94.11	Comp 31.90	LD 14X 21.391	M +45 69.812	0.000	0.000	0.000	0.000	10.442
LD 8	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 88.00	Comp 39.69	LD 15F 27.193	M +90 69.812	0.000	0.000	0.000	0.000	9.922
LD 9	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 69.11	Comp 16.38	LD 17X 33.948	M +90 93.312	0.000	0.000	0.000	0.000	9.374
LD 10	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 23.02	Ten9 23.02	LD 19X 17.751	M 0 77.112	0.000	0.000	0.000	0.000	20.120
LD 11	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 89.35	Comp 16.06	LD 21X 22.208	M +45 85.232	0.000	0.000	0.000	0.000	10.104
LD 12	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 86.59	Comp 16.19	LD 23X 22.313	M +45 83.232	0.000	0.000	0.000	0.000	9.297
LD 13	B B L 2.5X2.5X0.25"	DAE 3.5X2.5X0.25	36.0 88.00	Comp 16.00	LD 25X 22.313	M +45 83.232	0.000	0.000	0.000	0.000	8.419

*** Maximum Storage Summary for Each Lead Case

Summary of Maximum Usages by Lead Case:

Lead Case	Maxim Usage	Element Label	Element Type
W 0	93.49	D 8F	Angle
W 100	98.16	D 8F	Angle
W 45	96.07	LD 3P	Angle
W +45	99.35	LD 3X	Angle
W 90	97.77	D 7F	Angle
W +90	99.38	D 7X	Angle
W 0 Ice	36.97	D 2P	Angle
W 10 Ice	31.70	D 2F	Angle
W 45 Ice	33.85	L 1P	Angle
W +45 Ice	33.06	L 1X	Angle
W 90 Ice	31.04	D 4F	Angle
W +90 Ice	31.71	D 4X	Angle

*** Weight of Structure (lbs): 33104.8
 Weight of Angles/Struct. ECF: 249.0
 Weight of Equipment: 249.0
 Total: 33602.8

*** End of Report

Site # 08011
Name: East Killingly North, CT

Engineer: AAV
Date: 08/02/19

Wind Speed: No. Ice: 101 mph Ice: 50 mph
Carrier: VERIZON

Eaper: -0.11456
FW @ Base: 44.93 ft

Eaper Change: 287.5 ft
FW @ Top: 9 ft

Label	Symmetry Code	X Coord. (ft)	Y Coord. (ft)	Z Coord. (ft)	X Disp.		Y Disp.		Z Disp.		X Rot. Rest.	Y Rot. Rest.	Z Rot. Rest.	Drop (ft or Blows)	Type	Count	Z Elev. (ft)	FW (ft)	# Sub-Brace	11/12/2014
					Rest.	Free	Rest.	Free	Rest.	Free										
0	XY-Symmetry	22.463	0	0	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop	3	9.375	0	44.936	3	
1	XY-Symmetry	20.12	20.12	37.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	2	7.030	37.5	40.24	3	
2	XY-Symmetry	18.558	18.558	62.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	2	7.030	62.5	37.116	3	
3	XY-Symmetry	16.996	16.996	87.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	4	7.030	87.5	33.992	2	
4	XY-Symmetry	15.434	15.434	112.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	5	7.030	112.5	30.868	2	
5	XY-Symmetry	13.872	13.872	137.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	6	7.030	137.5	27.744	2	
6	XY-Symmetry	12.31	12.31	162.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	7	7.030	162.5	24.62	2	
7	XY-Symmetry	10.748	10.748	187.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	8	7.030	187.5	21.496	2	
8	XY-Symmetry	9.186	9.186	200	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	9	7.030	200	19.934	1	
9	XY-Symmetry	9.186	9.186	212.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	10	7.030	212.5	18.372	1	
10	XY-Symmetry	8.405	8.405	225	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	11	7.030	225	16.81	1	
11	XY-Symmetry	7.624	7.624	237.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	12	7.030	237.5	15.248	1	
12	XY-Symmetry	6.843	6.843	250	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	13	7.030	250	13.686	1	
13	XY-Symmetry	6.20776584	6.20776584	260.167	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	1	10.167	260.167	12.125	1	
14	XY-Symmetry	5.57253168	5.57253168	270.334	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	1	10.167	270.334	10.56336	1	
15	XY-Symmetry	5.03626584	5.03626584	278.917	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	1	8.583	278.917	11.14506336	1	
16	XY-Symmetry	4.5	4.5	287.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Sub-Brace	1	8.583	287.5	10.07253168	1	
A1	Y-Symmetry	20.12	0	37.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A2	X-Symmetry	0	20.12	37.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A3	XY-Symmetry	18.558	6.186	62.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A4	XY-Symmetry	6.186	18.558	62.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A5	XY-Symmetry	16.996	6.665333333	87.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A6	XY-Symmetry	6.665333333	16.996	87.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A7	XY-Symmetry	15.434	0	112.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A8	X-Symmetry	0	15.434	112.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A9	Y-Symmetry	13.872	0	137.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A10	X-Symmetry	0	13.872	137.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A11	Y-Symmetry	12.31	0	162.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A12	X-Symmetry	0	12.31	162.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A13	Y-Symmetry	10.748	0	187.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A14	X-Symmetry	0	10.748	187.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A15	Y-Symmetry	9.186	0	200	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A16	X-Symmetry	0	9.186	200	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A17	Y-Symmetry	9.186	0	212.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A18	X-Symmetry	0	9.186	212.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A19	Y-Symmetry	8.405	0	225	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A20	X-Symmetry	0	8.405	225	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A21	Y-Symmetry	7.624	0	237.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A22	X-Symmetry	0	7.624	237.5	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A23	Y-Symmetry	6.843	0	250	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
A24	X-Symmetry	0	6.843	250	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H1	XY-Symmetry	20.70575	10.06	28.125	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H2	XY-Symmetry	10.06	20.70575	28.125	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H5	XY-Symmetry	18.9972344	10.1042408	55.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H6	XY-Symmetry	10.1042408	18.9972344	55.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H7	Y-Symmetry	18.9972344	0	55.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H8	X-Symmetry	0	18.9972344	55.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H9	XY-Symmetry	17.4352344	9.2907512	80.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H10	XY-Symmetry	9.2907512	17.4352344	80.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H11	Y-Symmetry	17.4352344	0	80.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						
H12	X-Symmetry	0	17.4352344	80.47	Free	Free	Free	Free	Free	Free	Free	Free	Free	Drop						

NOTES:
Types:
1: Built up Horizont. w/A
2: Built up Horizont. w/M
A: Typical A brace
X: Typical X brace
Drop: Use only for types 1 & 2
Sections: 16

Legs

Site No.:	88011
Engineer:	AAV
Date:	08/02/2019
Carrier:	VERIZON

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter or Length (in)	Thickness ^[2] (in)	F _y (ksi)
1	0.000-37.50	L	8	1.125	36
2	37.50-62.50	L	8	1.125	36
3	62.50-87.50	L	8	1	36
4	87.50-112.5	L	8	0.875	36
5	112.5-137.5	L	8	0.875	36
6	137.5-162.5	L	8	0.75	36
7	162.5-187.5	L	8	0.625	36
8	187.5-200.0	L	6	0.75	36
9	200.0-212.5	L	6	0.75	36
10	212.5-225.0	L	6	0.5625	36
11	225.0-237.5	L	6	0.5625	36
12	237.5-250.0	L	6	0.4375	36
13	250.0-260.2	L	5	0.4375	36
14	260.2-270.3	L	5	0.4375	36
15	270.3-278.9	L	5	0.3125	36
16	278.9-287.5	L	5	0.3125	36

Notes:

^[1] Type of Leg Shape: R = Round or P = Bent Plate or S = Schifferized Angle. L = Even Leg

^[2] For Solid Round Leg Shapes Thickness Equals Zero.

^[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Site No.:	88011
Engineer:	AAV
Date:	08/02/2019
Carrier:	VERIZON

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ⁽¹⁾	Diameter ⁽²⁾ (in)	Web Length ⁽³⁾ (in)	Flange Length ⁽³⁾ (in)	Thickness (in)	F _y (ksi)	Is Diag. Tension Only? (Y/N)
1	0.000-37.50	2L		5	5	0.3125	36	
2	37.50-62.50	2L		2.5	3.5	0.25	36	
3	62.50-87.50	2L		2.5	3.5	0.25	36	
4	87.50-112.5	2L		2.5	3	0.25	36	
5	112.5-137.5	2L		2.5	3	0.25	36	
6	137.5-162.5	2L		2.5	3	0.25	36	
7	162.5-187.5	2L		2.5	3	0.25	36	
8	187.5-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2	0.25	36	
11	225.0-237.5	2L		2.5	2	0.25	36	
12	237.5-250.0	2L		2.5	2	0.25	36	
13	250.0-260.2	L		3.5	3.5	0.25	36	
14	260.2-270.3	L		3.5	3.5	0.25	36	
15	270.3-278.9	L		3	3	0.25	36	
16	278.9-287.5	L		3	3	0.25	36	

Notes:

- ⁽¹⁾ Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.
- ⁽²⁾ Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ⁽³⁾ Applies to Single-Angle and Double-Angle Shapes only.
- ⁽⁴⁾ Applies to Double-Angle Shapes only.
- ⁽⁵⁾ Applies to Single-Angle Shapes only.

Horizontals

Site No.:	88011
Engineer:	AAV
Date:	08/02/2019
Carrier:	VERIZON

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ⁽¹⁾	Diameter ⁽²⁾ (in)	Web Length ⁽³⁾ (in)	Flange Length ⁽³⁾ (in)	Thickness (in)	F _y (ksi)	
1	0.000-37.50	2L		3.5	2.5	0.25	36	
2	37.50-62.50	2L		3.5	2.5	0.25	36	
3	62.50-87.50	2L		3	2.5	0.25	36	
4	87.50-112.5	2L		3	2.5	0.25	36	
5	112.5-137.5	2L		3	2.5	0.25	36	
6	137.5-162.5	2L		2.5	2.5	0.25	36	
7	162.5-187.5	2L		2.5	2.5	0.25	36	
8	187.5-200.0	2L		2.5	2.5	0.25	36	
9	200.0-212.5	2L		2.5	2.5	0.25	36	
10	212.5-225.0	2L		2.5	2.5	0.25	36	
11	225.0-237.5	2L		2.5	2.5	0.25	36	
12	237.5-250.0	2L		2.5	2.5	0.25	36	
13	250.0-260.2	L		3	2.5	0.25	36	
14	260.2-270.3	2L		3	2.5	0.25	36	
15	270.3-278.9	L		3	2.5	0.25	36	
16	278.9-287.5	C		8	11.5		36	

Notes:

- ⁽¹⁾ Type of Horizontal Shape: R = Round, L = Single-Angle, 2L = Double-Angle, C = Channel, W = W Shape
- ⁽²⁾ Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ⁽³⁾ Applies to Single-Angle and Double-Angle Shapes only.
- ⁽⁴⁾ Applies to Double-Angle Shapes only.
- ⁽⁵⁾ Applies to Single-Angle Shapes only.

Built-up Diagonals

Site No.:	88011
Engineer:	AAV
Date:	08/02/2019
Carrier:	VERIZON

When inputting thickness values, include all decimal places.
Input diags. from left to center & from base section upward.

Tower Built-up Diag. #	Section Elevations (ft)	Type of Shape ⁽¹⁾	Diameter ⁽²⁾ (in)	Web Length ⁽³⁾ (in)	Flange Length ⁽³⁾ (in)	Thickness (in)	F _y (ksi)
1	0.000-37.50	2L		3.5	3.5	0.25	36
2	0.000-37.50	2L		4	4	0.3125	36
3	37.50-62.50	2L		2.5	2	0.25	36
4	37.50-62.50	2L		2.5	2	0.25	36
5	37.50-62.50	2L		3	2	0.25	36
6	62.50-87.50	2L		2.5	2	0.25	36
7	62.50-87.50	2L		2.5	2	0.25	36
8	62.50-87.50	2L		3	3	0.25	36

Notes:

- ⁽¹⁾ Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.
- ⁽²⁾ Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ⁽³⁾ Applies to Single-Angle and Double-Angle Shapes only.
- ⁽⁴⁾ Applies to Double-Angle Shapes only.
- ⁽⁵⁾ Applies to Single-Angle Shapes only.

Built-up Horizontals

Site No.:	88011
Engineer:	AAV
Date:	08/02/2019
Carrier:	VERIZON

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Horiz. Tension Only? (Y/N)
1	0.000-37.50	2L		2.5	2.5	0.25	36	Y
2	37.50-62.50	2L		2.5	3	0.25	36	
3	62.50-87.50	2L		2.5	3	0.25	36	

Notes:

- ^[1] Type of Horizontal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.
- ^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ^[3] Applies to Single-Angle and Double-Angle Shapes only.
- ^[4] Applies to Double-Angle Shapes only.
- ^[5] Applies to Single-Angle Shapes only.

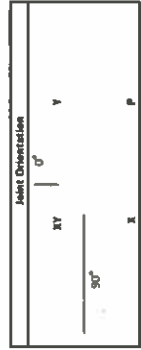
Site No.:	88011
Engineer:	AAV
Date:	08/02/19
Carrier:	VERIZON

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter (in)	Perimeter (in)	Unit Weight (lb/ft)	Part of Face Solidity Ratio (Yes/No)	Include in Wind Load (Yes/No)
1 Ladder	0	287.5	1	Flat	1.5	6.0	6	Yes	Yes
2 COAX CAGE	0.3333	33.3333	2	Round	12	72.0	50	Yes	Yes
3 COAX CAGE	0.3333	33.3333	1	Round	12	72.0	50	Yes	Yes
4 WG1	5	246	1	Flat	1.5	6.0	6	Yes	Yes
5 WG2	5	246	1	Flat	1.5	6.0	6	Yes	Yes
6 WG3	5	277	1	Flat	1.5	6.0	6	Yes	Yes
7 SH1	5	287.5	1	Flat	3.06	16.3	4	Yes	Yes
8 SH2	5	287.5	1	Flat	3.72	25.8	4.92	Yes	Yes
9 TMD1	5	277	1	Flat	3.195	17.0	6.44	Yes	Yes
10 TMD2	5	277	1	Round	0.63	2.5	0.15	No	No
11 VZW1	5	266	1	Round	1.54	4.8	1	Yes	Yes
12 VZW2	5	266	6	Round	1.98	6.2	0.82	Yes	Yes
13 ATT1	5	246	1	Round	0.39	1.2	0.17	Yes	Yes
14 ATT2	5	246	2	Round	0.76	2.5	0.59	Yes	Yes
15 ATT3	5	246	1	Round	3.5	11.0	7.58	Yes	Yes
16 ATT4	5	246	1	Flat	14.46	50.1	43.8	Yes	Yes
17 SIGFOX	5	287.5	1	Round	1.09	4.4	0.31	Yes	Yes

Dishes

Dish Types	
S	Standard
R	Standard w/ Radome
H	High Performance
G	Grid

Dish Number	Dish Elevation (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation	Equipment Status
1	277	2	45	H	X	Proposed
2						
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Site No.:	84011
Engineer:	AAV
Date:	08/02/19
Contract:	VERIZON

Equipment Label	Attach Label	Equipment Property Set	Dish Antenna Orientation Angle (deg)
27 HP 1 @ 277	15XY	2 HP Dish	45

Site #:	88011
Name:	VERIZON

Engineer:	AAV
Date:	08/02/19

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ	
L 1	Leg S1		XY-Symmetry	0P	1P		1	4	0.25	0.25	0.25
L 2	Leg S2		XY-Symmetry	1P	2P		1	4	0.2812	0.2812	0.2812
L 3	Leg S3		XY-Symmetry	2P	3P		1	4	0.2812	0.2812	0.2812
L 4	Leg S4		XY-Symmetry	3P	4P		1	4	0.33333333	0.33333333	0.33333333
L 5	Leg S5		XY-Symmetry	4P	5P		1	4	0.33333333	0.33333333	0.33333333
L 6	Leg S6		XY-Symmetry	5P	6P		1	4	0.33333333	0.33333333	0.33333333
L 7	Leg S7		XY-Symmetry	6P	7P		1	4	0.33333333	0.33333333	0.33333333
L 8	Leg S8		XY-Symmetry	7P	8P		1	4	0.5	0.5	0.5
L 9	Leg S9		XY-Symmetry	8P	9P		1	4	0.5	0.5	0.5
L 10	Leg S10		XY-Symmetry	9P	10P		1	4	0.5	0.5	0.5
L 11	Leg S11		XY-Symmetry	10P	11P		1	4	0.5	0.5	0.5
L 12	Leg S12		XY-Symmetry	11P	12P		1	4	0.5	0.5	0.5
L 13	Leg S13		XY-Symmetry	12P	13P		1	4	0.5	0.5	0.5
L 14	Leg S14		XY-Symmetry	13P	14P		1	4	0.5	0.5	0.5
L 15	Leg S15		XY-Symmetry	14P	15P		1	4	0.5	0.5	0.5
L 16	Leg S16		XY-Symmetry	15P	16P		1	4	0.5	0.5	0.5
D 1	Diag S1		XY-Symmetry	0P	H2P		1	6	0.316	0.316	0.316
D 2	Diag S1		XY-Symmetry	0P	H1P		1	6	0.316	0.316	0.316
D 3	Diag S2		XY-Symmetry	1P	H6P		1	6	0.32	0.32	0.32
D 4	Diag S2		XY-Symmetry	1P	H5P		1	6	0.32	0.32	0.32
D 5	Diag S3		XY-Symmetry	2P	H10P		1	6	0.32	0.32	0.32
D 6	Diag S3		XY-Symmetry	2P	H9P		1	6	0.32	0.32	0.32
D 7	Diag S4		XY-Symmetry	3P	A7P		1	6	0.3	0.3	0.3
D 8	Diag S4		XY-Symmetry	3P	A8P		1	6	0.3	0.3	0.3
D 9	Diag S5		XY-Symmetry	4P	A9P		1	6	0.3	0.3	0.3
D 10	Diag S5		XY-Symmetry	4P	A10P		1	6	0.3	0.3	0.3
D 11	Diag S6		XY-Symmetry	5P	A11P		1	6	0.32	0.32	0.32
D 12	Diag S6		XY-Symmetry	5P	A12P		1	6	0.32	0.32	0.32
D 13	Diag S7		XY-Symmetry	6P	A13P		1	6	0.32	0.64	0.32
D 14	Diag S7		XY-Symmetry	6P	A14P		1	6	0.32	0.64	0.32
D 15	Diag S8		XY-Symmetry	7P	A15P		1	6	0.5	1	0.5
D 16	Diag S8		XY-Symmetry	7P	A16P		1	6	0.5	1	0.5
D 17	Diag S9		XY-Symmetry	8P	A17P		1	6	0.5	1	0.5
D 18	Diag S9		XY-Symmetry	8P	A18P		1	6	0.5	1	0.5
D 19	Diag S10		XY-Symmetry	9P	A19P		1	6	0.5	1	0.5
D 20	Diag S10		XY-Symmetry	9P	A20P		1	6	0.5	1	0.5
D 21	Diag S11		XY-Symmetry	10P	A21P		1	6	0.5	1	0.5
D 22	Diag S11		XY-Symmetry	10P	A22P		1	6	0.5	1	0.5
D 23	Diag S12		XY-Symmetry	11P	A23P		1	6	0.5	1	0.5
D 24	Diag S12		XY-Symmetry	11P	A24P		1	6	0.5	1	0.5
D 25	Diag S13		XY-Symmetry	12P	13Y		2	5	0.52	0.52	0.52
D 26	Diag S13		XY-Symmetry	12P	13X		2	5	0.52	0.52	0.52
D 27	Diag S14		XY-Symmetry	13P	14Y		2	5	0.52	0.52	0.52
D 28	Diag S14		XY-Symmetry	13P	14X		2	5	0.52	0.52	0.52
D 29	Diag S15		XY-Symmetry	14P	15Y		2	5	0.52	0.52	0.52
D 30	Diag S15		XY-Symmetry	14P	15X		2	5	0.52	0.52	0.52
D 31	Diag S16		XY-Symmetry	15P	16Y		2	5	0.52	0.52	0.52
D 32	Diag S16		XY-Symmetry	15P	16X		2	5	0.52	0.52	0.52
H 1	Horiz 1		XY-Symmetry	1P	A1P		1	6	0.5	0.5	0.5
H 2	Horiz 1		XY-Symmetry	1P	A2P		1	6	0.5	0.5	0.5
H 3	Horiz 2		XY-Symmetry	2P	A3P		1	6	0.94	0.94	0.94
H 4	Horiz 2		XY-Symmetry	2P	A4P		1	6	0.94	0.94	0.94
H 5	Horiz 3		XY-Symmetry	3P	A5P		1	6	0.94	0.94	0.94
H 6	Horiz 3		XY-Symmetry	3P	A6P		1	6	0.94	0.94	0.94
H 7	Horiz 4		XY-Symmetry	4P	A7P		1	6	1	1	1
H 8	Horiz 4		XY-Symmetry	4P	A8P		1	6	1	1	1
H 9	Horiz 5		XY-Symmetry	5P	A9P		1	6	1	1	1
H 10	Horiz 5		XY-Symmetry	5P	A10P		1	6	1	1	1
H 11	Horiz 6		XY-Symmetry	6P	A11P		1	6	1	1	1
H 12	Horiz 6		XY-Symmetry	6P	A12P		1	6	1	1	1
H 13	Horiz 7		XY-Symmetry	7P	A13P		1	6	1	1	1
H 14	Horiz 7		XY-Symmetry	7P	A14P		1	6	1	1	1

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
H 15	Horiz 8		XY-Symmetry	8P	A15P		1 6	1	1	1
H 16	Horiz 8		XY-Symmetry	8P	A16P		1 6	1	1	1
H 17	Horiz 9		XY-Symmetry	9P	A17P		1 6	1	1	1
H 18	Horiz 9		XY-Symmetry	9P	A18P		1 6	1	1	1
H 19	Horiz 10		XY-Symmetry	10P	A19P		1 6	1	1	1
H 20	Horiz 10		XY-Symmetry	10P	A20P		1 6	1	1	1
H 21	Horiz 11		XY-Symmetry	11P	A21P		1 6	1	1	1
H 22	Horiz 11		XY-Symmetry	11P	A22P		1 6	1	1	1
H 23	Horiz 12		XY-Symmetry	12P	A23P		1 6	1	1	1
H 24	Horiz 12		XY-Symmetry	12P	A24P		1 6	1	1	1
H 25	Horiz 13		Y-Symmetry	13P	13X		3 5	0.5	0.5	0.5
H 26	Horiz 13		X-Symmetry	13P	13Y		3 5	0.5	0.5	0.5
H 27	Horiz 14		Y-Symmetry	14P	14X		1 6	0.5	0.5	0.5
H 28	Horiz 14		X-Symmetry	14P	14Y		1 6	0.5	0.5	0.5
H 29	Horiz 15		Y-Symmetry	15P	15X		3 5	0.5	0.5	0.5
H 30	Horiz 15		X-Symmetry	15P	15Y		3 5	0.5	0.5	0.5
H 31	Horiz 16		Y-Symmetry	16P	16X		3 5	1	1	1
H 32	Horiz 16		X-Symmetry	16P	16Y		3 5	1	1	1
H 35	Horiz 2		Y-Symmetry	A3P	A3X		1 6	1	1	1
H 36	Horiz 2		X-Symmetry	A4P	A4Y		1 6	1	1	1
H 37	Horiz 3		Y-Symmetry	A5P	A5X		1 6	1	1	1
H 38	Horiz 3		X-Symmetry	A6P	A6Y		1 6	1	1	1
LH 1	LH 1		Y-Symmetry	H1P	H1X		1 6	100	100	100
LH 2	LH 1		X-Symmetry	H2P	H2Y		1 6	100	100	100
LH 3	LH 2		XY-Symmetry	H5P	H7P		1 6	1	2	1
LH 4	LH 2		XY-Symmetry	H6P	H8P		1 6	1	2	1
LH 5	LH 3		XY-Symmetry	H9P	H11P		1 6	1	2	1
LH 6	LH 3		XY-Symmetry	H10P	H12P		1 6	1	2	1
LD 1	LD 1		XY-Symmetry	H1P	1P		1 6	0.92	0.92	0.92
LD 2	LD 1		XY-Symmetry	H2P	1P		1 6	0.92	0.92	0.92
LD 3	LD 2		XY-Symmetry	H1P	A1P		1 6	0.92	0.92	0.92
LD 4	LD 2		XY-Symmetry	H2P	A2P		1 6	0.92	0.92	0.92
LD 7	LD 4		XY-Symmetry	H5P	2P		1 6	0.92	0.92	0.92
LD 8	LD 4		XY-Symmetry	H6P	2P		1 6	0.92	0.92	0.92
LD 9	LD 5		XY-Symmetry	H5P	A3P		1 6	0.92	0.92	0.92
LD 10	LD 5		XY-Symmetry	H6P	A4P		1 6	0.92	0.92	0.92
LD 11	LD 6		XY-Symmetry	A3P	H7P		1 6	0.92	0.92	0.92
LD 12	LD 6		XY-Symmetry	A4P	H8P		1 6	0.92	0.92	0.92
LD 13	LD 7		XY-Symmetry	H9P	3P		1 6	0.92	0.92	0.92
LD 14	LD 7		XY-Symmetry	H10P	3P		1 6	0.92	0.92	0.92
LD 15	LD 8		XY-Symmetry	H9P	A5P		1 6	0.92	0.92	0.92
LD 16	LD 8		XY-Symmetry	H10P	A6P		1 6	0.92	0.92	0.92
LD 17	LD 9		XY-Symmetry	A5P	H11P		1 6	0.92	0.92	0.92
LD 18	LD 9		XY-Symmetry	A6P	H12P		1 6	0.92	0.92	0.92
BR 1	DUM 1		XY-Symmetry	A1P	A2P		1 4	1	1	1
BR 3	DUM 1		XY-Symmetry	A3P	A4P		1 4	1	1	1
BR 4	DUM 1		XY-Symmetry	A3P	A4XY		1 4	1	1	1
BR 5	DUM 1		XY-Symmetry	A5P	A6P		1 4	1	1	1
BR 6	DUM 1		XY-Symmetry	A5P	A6XY		1 4	1	1	1
BR 7	DUM 1		XY-Symmetry	A7P	A8P		1 4	1	1	1
BR 9	DUM 1		XY-Symmetry	A9P	A10P		1 4	1	1	1
BR 11	DUM 1		XY-Symmetry	A11P	A12P		1 4	1	1	1
BR 13	DUM 1		XY-Symmetry	A13P	A14P		1 4	1	1	1
BR 15	DUM 1		XY-Symmetry	A15P	A16P		1 4	1	1	1
BR 17	DUM 1		XY-Symmetry	A17P	A18P		1 4	1	1	1

Member Label	Group Label	Section Label	Symmetry Code	Origin Joint	End Joint	Ecc. Code	Rest. Code	Ratio RLX	Ratio RLY	Ratio RLZ
BR 19	DUM 1		XY-Symmetry	A19P	A20P		1 4	1	1	1
BR 21	DUM 1		XY-Symmetry	A21P	A22P		1 4	1	1	1
BR 23	DUM 1		XY-Symmetry	A23P	A24P		1 4	1	1	1
BR 61	DUM 1		XY-Symmetry	H1P	H2P		1 4	1	1	1
BR 62	DUM 1		XY-Symmetry	H1P	H2XY		1 4	1	1	1
BR 64	DUM 1		XY-Symmetry	H5P	H6P		1 4	1	1	1
BR 65	DUM 1		XY-Symmetry	H5P	H6XY		1 4	1	1	1
BR 66	DUM 1		XY-Symmetry	H7P	H8P		1 4	1	1	1
BR 67	DUM 1		XY-Symmetry	H9P	H10P		1 4	1	1	1
BR 68	DUM 1		XY-Symmetry	H9P	H10XY		1 4	1	1	1
BR 69	DUM 1		XY-Symmetry	H11P	H12P		1 4	1	1	1

No.	Elevation (ft)	C _u A _c (ft ²)	C _u A _c (ft ²)	Force (lb)	Force (ft)	Weight (lb)	Weight (ft)	60 Ast Mult.	Force mom	F (ft)	Height ft	Sum of Forces (No)	
												60 Ast	180 Ast
1	287.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00			
2	287.5	80.00	108.00	1207.921	647.328	10800	14240	1.00	1764.96	867.89	1.5034783	3207.921154	
3	270	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5034793		
4	270	70.00	94.50	2757.015	571.528	9600	12480	1.00	1516.56	816.40	1.5037027	2757.015007	
5	217.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037047		
6	217.5	15.00	20.25	569.512	118.477	600	780	1.00	93.24	48.16	1.5042105	569.518722	
7	200	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5042115		
8	200	45.00	60.75	1626.730	338.401	6000	7800	1.00	694.70	386.12	1.5050000	1626.729704	
9	187.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5050010		
10	187.5	15.00	20.25	512.316	110.739	600	780	1.00	282.78	80.91	1.5051333	512.3161207	
11	117.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5051343		
12	117.5	15.00	20.25	487.193	101.348	600	780	1.00	267.86	85.74	1.5072727	487.1925188	
13	87.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5072737		
14	87.5	45.00	60.75	1294.511	267.211	6000	7800	1.00	796.48	346.97	1.5114286	1294.510619	
15	37.5	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5114296		
16	37.5	15.00	20.25	316.109	69.919	600	780	1.00	184.86	88.46	1.5266667	316.1090005	
17	287.5	4.08	5.82	161.684	35.957	381	522	1.00	90.03	39.78			
18	287.5	3.48	4.70	111.636	23.223	216	281	1.00	61.40	32.77			275.319833
19	287.5	4.85	6.47	194.665	39.992	251	411	1.00	107.07	22.00			
20	287.5	12.61	17.03	404.602	84.167	202	263	1.00	222.93	46.28			874.5867718
21	287.5	18.85	23.16	715.803	143.101	279	710	1.00	415.89	78.71			
22	287.5	32.40	43.74	974.406	201.701	1080	1404	1.00	538.92	114.49	1.5034783	2604.796155	
23	277	2.29	3.11	90.724	19.629	227	300	1.00	48.80	30.80	1.5034793		
24	277	3.30	4.46	104.742	21.789	284	374	1.00	57.81	31.90	1.5034793	195.4655759	
25	277	4.47	6.10	177.162	37.299	243	383	1.00	97.44	26.51	1.5034803		
26	277	5.58	7.53	177.109	36.843	243	374	1.00	97.41	26.26	1.5036101	549.7370135	
27	277	16.25	20.30	644.645	134.122	635	965	1.00	354.57	68.27	1.5036111	1780.068928	
28	277	18.45	24.91	585.667	121.811	195	254	1.00	322.32	67.01	1.5036101		
29	277	46.69	59.69	1852.601	340.480	487	1179	1.00	1018.93	187.26	1.5036111	5060.137347	
30	277	47.87	64.76	1427.467	296.949	1920	2496	1.00	783.13	163.32	1.5036101		
31	246	1.33	1.78	50.878	12.890	115	161	1.00	27.96	7.09	1.5036111		
32	246	1.32	1.78	40.500	8.425	72	94	1.00	22.27	4.63	1.5040650	91.37790467	
33	246	0.84	1.18	32.299	6.955	28	37	1.00	17.76	5.81	1.5040660		
34	246	5.69	7.67	174.426	36.285	216	281	1.00	95.93	19.96	1.5040650	298.1025482	
35	246	17.10	21.81	659.811	129.008	295	528	1.00	363.90	78.93	1.5040660		
36	246	7.60	10.38	215.967	49.087	72	94	1.00	128.75	27.00	1.5040650	1193.880616	
37	246	12.31	13.82	471.981	81.702	183	496	1.00	299.99	44.94	1.5040660		
38	246	35.88	48.57	1034.905	215.286	1440	1872	1.00	569.29	116.41	1.5040650	2700.766116	
39	210	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5040660		
40	210	5.63	7.60	206.179	42.932	48	62	1.00	115.51	21.61	1.5047619	206.3789133	
41	210	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5047629		
42	210	6.30	8.51	230.919	48.041	180	234	1.00	227.82	38.42	1.5047619	437.1180594	
43	210	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5047629		
44	210	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5200000		
45	210	2.50	3.38	60.817	12.651	96	125	1.00	33.45	6.96	1.5200010	63.00652198	
46	290	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5200000		
47	290	0.13	0.18	5.226	1.087	2	2	1.00	2.87	0.60	1.5200010	5.225783087	
48	290	0.14	0.31	5.681	1.925	2	9	1.00	3.12	1.06	1.5034493		
49	290	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5034483	10.90714727	
50	290	0.17	0.35	6.700	2.153	2	10	1.00	2.88	1.18	1.5034493		
51	290	6.30	8.51	253.249	52.682	180	234	1.00	339.29	28.98	1.5034483	270.8563572	
52	266	2.25	3.18	88.241	19.195	304	432	1.00	48.53	16.56	1.5034493		
53	266	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037594	88.24123635	
54	266	2.25	3.18	88.241	19.195	253	368	1.00	48.53	16.56	1.5037604		
55	266	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037594	176.4824727	
56	266	4.05	5.45	158.964	32.933	77	227	1.00	87.43	18.11	1.5037604		
57	266	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037594	335.4469553	
58	266	22.11	28.54	847.096	172.729	144	407	1.00	476.90	95.08	1.5037604		
59	266	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037594	1202.543255	
60	266	10.06	12.07	394.580	72.941	145	466	1.00	217.82	46.22	1.5037604		
61	266	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037594	1597.123552	
62	266	22.98	28.09	901.331	169.765	402	827	1.00	495.73	93.97	1.5037604		
63	266	35.98	48.57	1058.277	220.148	1440	1872	1.00	582.95	121.08	1.5037594	3556.731984	
64	266	0.72	1.09	28.112	6.574	75	114	1.00	13.46	3.62	1.5037604		
65	266	0.00	0.00	0.000	0.000	0	0	1.00	0.00	0.00	1.5037594	3584.843681	
66								1.00			1.5037604		
67								1.00					
68								1.00					
69								1.00					
70								1.00					
71								1.00					
72								1.00					
73								1.00					
74								1.00					
75								1.00					
76								1.00					
77								1.00					
78								1.00					
79								1.00					
80								1.00					

Foundation

Design Loads (Factored)

Compression/Leg	478.73	k
Uplift/Leg	355.69	k
Shear/Leg	65.24	k

Face Width @ Top of Pier (d_1):	3.50	ft
Face Width @ Bottom of Pier (d_2):	7.50	ft
Total Length of Pier (l):	8.50	ft
Height of Pedestal Above Ground (h):	0.50	ft
Width of Pad (W):	14.75	ft
Length of Pad (L):	14.75	ft
Thickness of Pad (t):	3.25	ft
Water Table Depth (w):	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	120.0	pcf
Unit Weight of Soil (Below Water Table):	57.6	pcf
Friction Angle of Uplift (A):	30	°
Ultimate Compressive Bearing Pressure:	30000	psf
Ultimate Skin Friction:	1007	psf

Volume Pier (Total):	268.46	ft ³
Volume Pad (Total):	707.08	ft ³
Volume Soil (Total):	2747.35	ft ³
Volume Pier (Buoyant):	0.00	ft ³
Volume Pad (Buoyant):	0.00	ft ³
Volume Soil (Buoyant):	0.00	ft ³
Weight Pier:	40.27	k
Weight Pad:	106.06	k
Weight Soil:	329.68	k
Uplift Skin Friction:	144.82	k

Uplift Check

ϕ_s Uplift Resistance (k)	Ratio	Result
465.62	0.76	OK

Axial Check

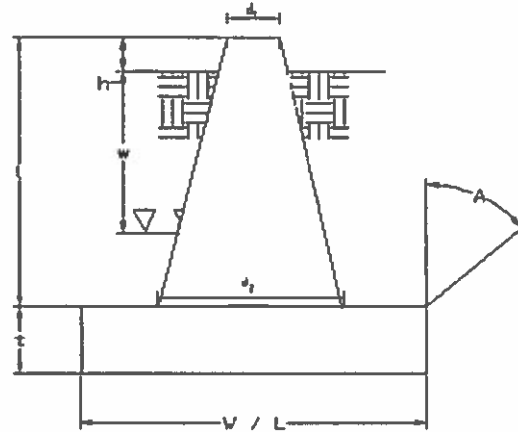
ϕ_s Axial Resistance (k)	Ratio	Result
4895.16	0.10	OK

Anchor Bolt Check

Bolt Diameter (in)	2.25
# of Bolts	6
Steel Grade	A36
Steel Fy	36
Steel Fu	58
Detail Type	C

Usage Ratio	Result
0.52	OK

Site No.:	88011
Engineer:	AAV
Date:	08/02/19
Carrier:	VERIZON



Site Name: Killingly CT
 Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW 700	746	4	977	3908.92	266	0.0199	0.4973333333	3.99%
VZW Cellular CDMA	869	1	1089	1088.8	266	0.0055	0.5793333333	0.96%
VZW Cellular LTE	880	4	491	1963.16	266	0.0100	0.5866666667	1.70%
VZW PCS	1970	4	2155	8621.04	266	0.0438	1.0	4.38%
VZW AWS	2145	4	2525	10100.88	266	0.0513	1.0	5.13%

Total Percentage of Maximum Permissible Exposure 16.17%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Section 1.13101 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used, including the following assumptions:

1. closest accessible point is distance from antenna to base of pole;
2. continuous transmission from all available channels at full power for indefinite time period; and,
3. all RF energy is assumed to be directed solely to the base of the pole



Killingly, CT

Contact



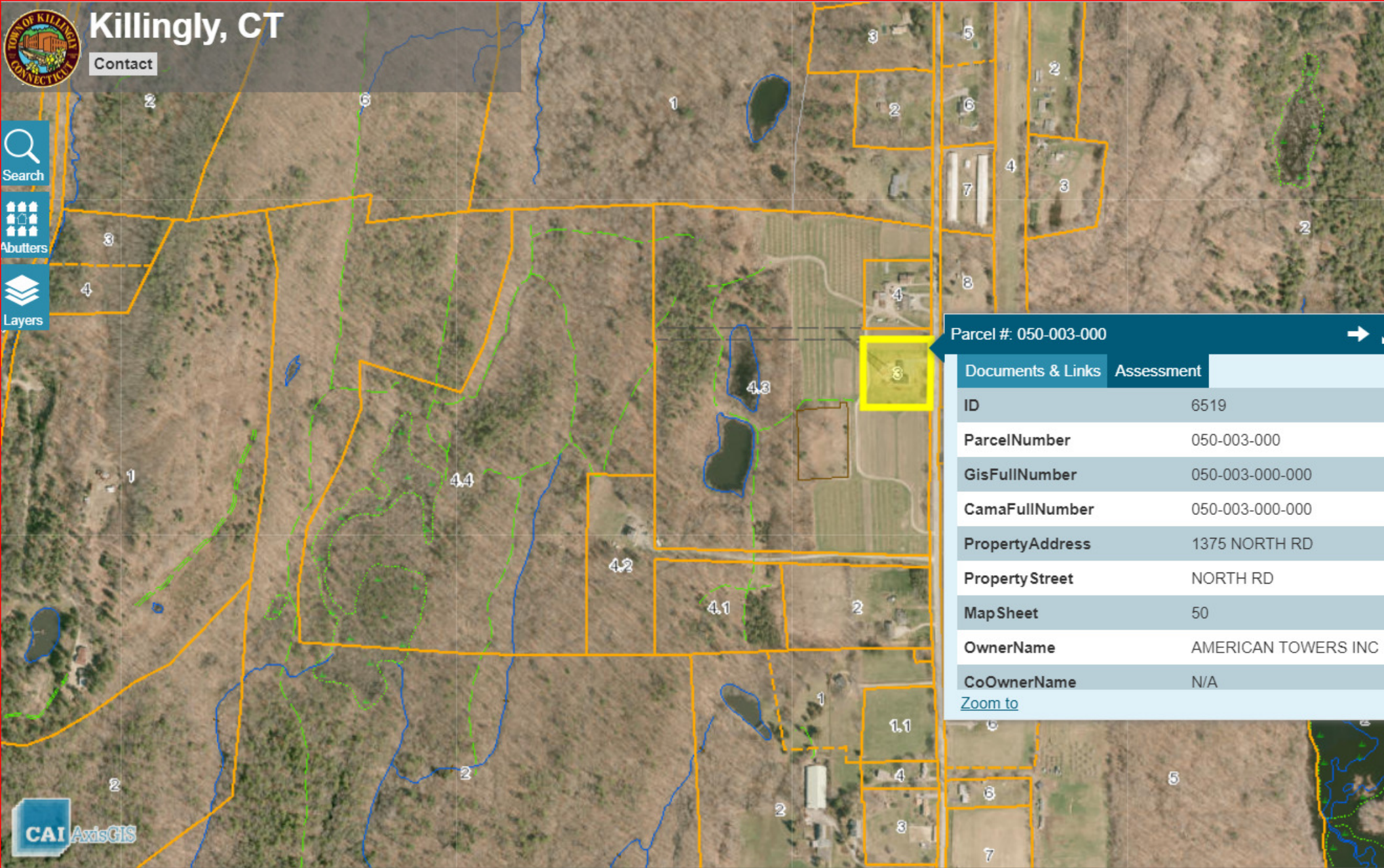
Search



Abutters



Layers



Parcel #: 050-003-000

Documents & Links

Assessment

ID	6519
ParcelNumber	050-003-000
GisFullNumber	050-003-000-000
CamaFullNumber	050-003-000-000
PropertyAddress	1375 NORTH RD
Property Street	NORTH RD
Map Sheet	50
OwnerName	AMERICAN TOWERS INC
CoOwnerName	N/A

[Zoom to](#)

CAI AxisGIS

Situs : 1375 NORTH RD

Map ID: 000072

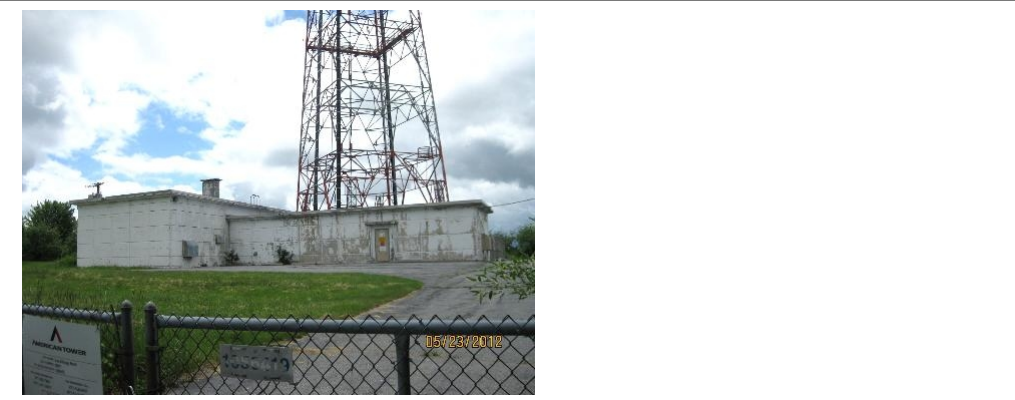
Class: Communication Towers

Card: 1 of 1

Printed: April 27, 2017

CURRENT OWNER
AMERICAN TOWERS INC
PO BOX 723597
ATLANTA GA 31139

GENERAL INFORMATION
Living Units
Neighborhood 117
Alternate Id 50-3
Vol / Pg 772/5
District 4
Zoning RURAL DEVELOPMENT
Class COMMERCIAL



Property Notes
AT&T TRANSFER STATION

Land Information

Type	Size	Influence Factors	Influence %	Value
Primary	AC 2.0700			49,870

Total Acres: 2.07
Spot: Location:

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	34,930	49,900	49,900	0	0
Building	188,160	268,800	268,800	0	0
Total	223,090	318,700	318,700	0	0

Manual Override Reason
Base Date of Value 10/01/2013
Effective Date of Value 10/01/2017

Value Flag COST APPROACH
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/17/12	DB	View ed	Other
05/16/12	DB	View ed	Other
12/11/06	DH	Exterior	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete
11/30/12	22122	25,000	BLDG Add 13 New Antennas & 6 Rh'S (996
11/12/10	20889	12,000	52 CADD Build Out Of Rm For Cellular Equip	100
08/31/10	20753	50,000	52 CADD Addn 6 Antennas & Assoc Equip I	100
06/07/07	18646	25,000	52 CADD Install Antennas	100
08/27/98	13234	4,000	BLDG Nvc Tank Out	100

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee
02/16/00	186,528	Land & Bldg	Love And Affection Sale	772/5		AMERICAN TOWERS INC

Inspection Witnessed By _____

Situs : 1375 NORTH RD

Parcel Id: 000072

Class: Communication Towers

Card: 1 of 1

Printed: April 27, 2017

Building Information

Year Built/Eff Year 1960 /
 Building # 1
 Structure Type Radio/Tv Transmitter
 Identical Units 1
 Total Units
 Grade B-
 # Covered Parking
 # Uncovered Parking
 DBA AMERICAN TOWER

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident	Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident	Units
------	------	-----	-------	-------	---------	-------	-------	------	------	-----	-------	-------	---------	-------	-------

Interior/Exterior Information

Line	Level From	To	Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	01	01	100	2,048	158	Light Manufacturin	16	Concrete Bl	Wood Frame/Joist/B	Normal	None	None	Normal	4	4
2	01	01	100	1,575	151	Light Manufacturin	12	Concrete Bl	Wood Frame/Joist/B	Normal	None	None	Normal	4	4

Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	2,048	Light Manufacturing	60		73,210
2	1,575	Light Manufacturing	60		54,770

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy	Fun	Value
1	Fence Chai	1960	6	240	1	1,440	C	3	3	1,780
2	Asph Pav	1960	1	3,700	1	3,700	C	3	3	4,000
3	Tow er Cell	1960	1	300	1	300	C	3	3	135,000

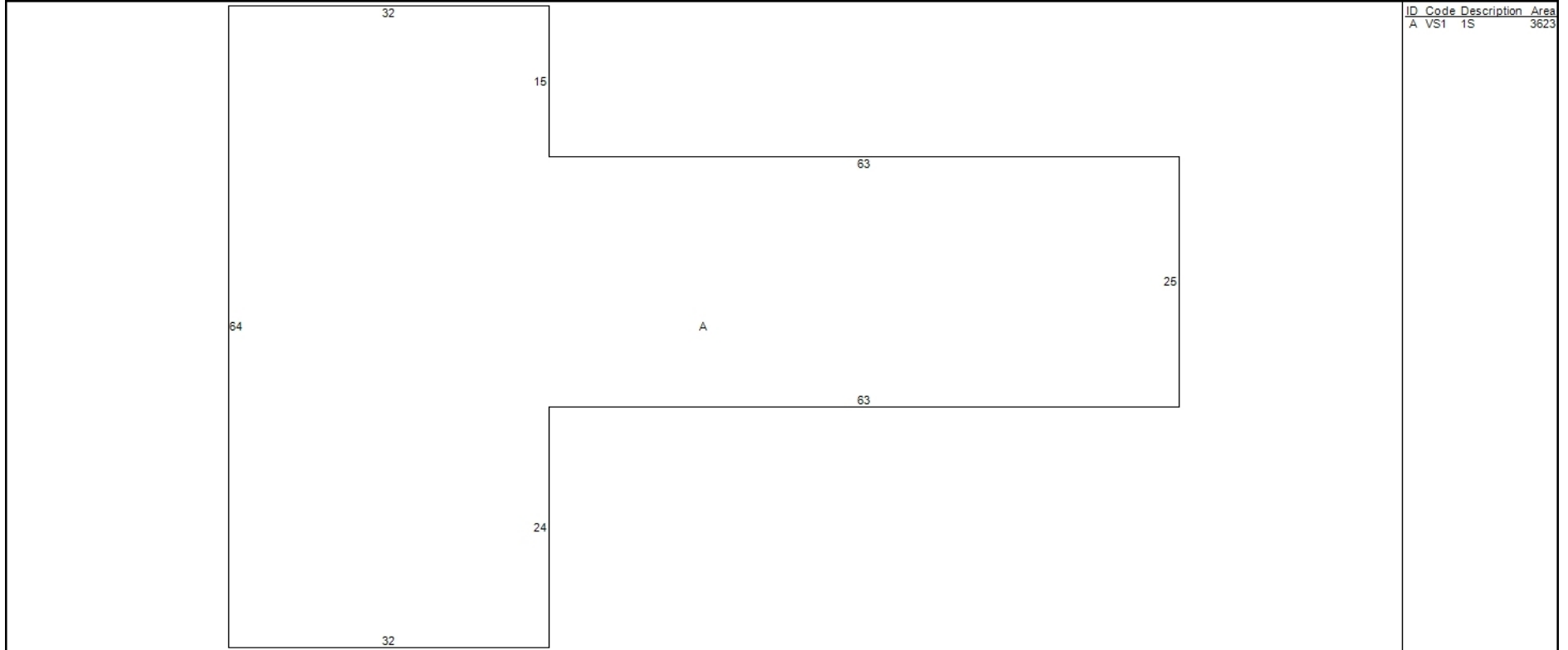
Situs : 1375 NORTH RD

Parcel Id: 000072

Class: Communication Towers

Card: 1 of 1

Printed: April 27, 2017



Additional Property Photos



Situs : 1375 NORTH RD

Parcel Id: 000072

Class: Communication Towers

Card: 1 of 1

Printed: April 27, 2017

Income Detail (Includes all Buildings on Parcel)

Use Mod Grp	Inc Type	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
07	S	Light Manuf/Warehouse	0	3,623						0							

Apartment Detail - Building 1 of 1

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 1 of 1

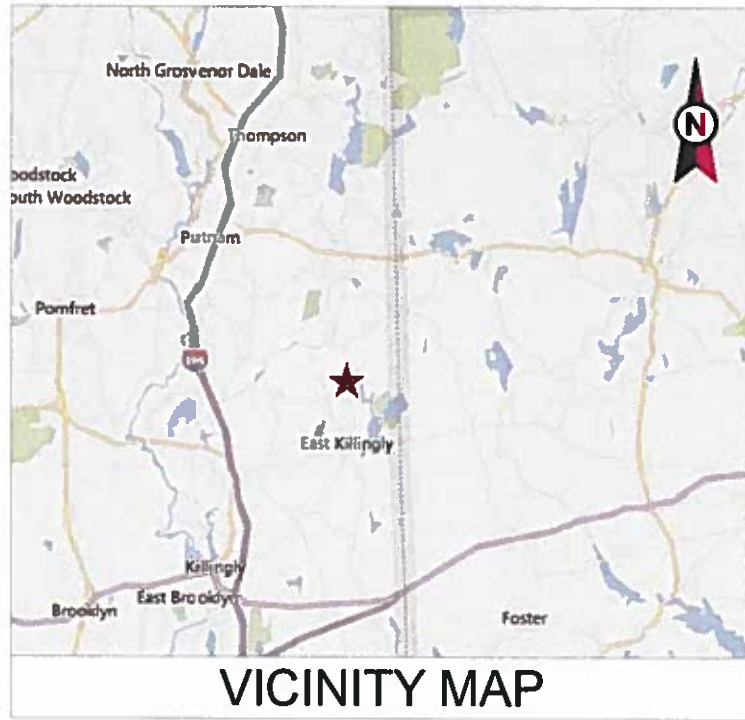
Total Gross Building Area	3,623
Replace, Cost New Less Depr	127,980
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	127,980
Value per SF	35.32

Notes - Building 1 of 1

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Income Summary (Includes all Building on Parcel)

Total Net Income	
Capitalization Rate	0.000000
Sub total	
Residual Land Value	
Final Income Value	
Total Gross Rent Area	3,623
Total Gross Building Area	3,623



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: EAST KILLINGLY NORTH
 ATC SITE NUMBER: 88011
 VERIZON SITE NAME: KILLINGLY CT
 VERIZON SITE NUMBER: 467465
 SITE ADDRESS: 1375 NORTH ROAD
 DAYVILLE, CT 06241



LOCATION MAP



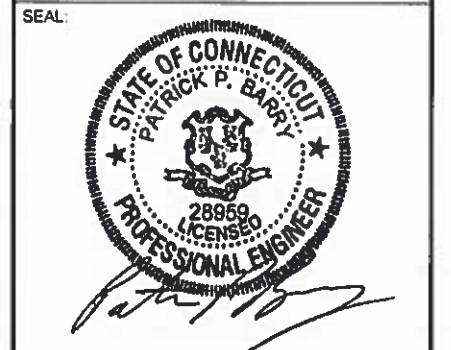
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 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TR	06/12/19
2	NEW RFDS	TR	08/07/19

ATC SITE NUMBER:
88011
 ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS
 1375 NORTH ROAD
 DAYVILLE, CT 06241



Authorized by "EOP"
 August 8, 2019
verizon design

DRAWN BY:	TR
APPROVED BY:	PBB
DATE DRAWN:	06/12/19
ATC JOB NO:	12962757
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

COVER SHEET

SHEET NUMBER:	REVISION:
G-001	2

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX					
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. 1. 2015 INTERNATIONAL BUILDING CODE (IBC) 2. 2017 NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 1375 NORTH ROAD DAYVILLE, CT 06241 COUNTY: WINDHAM <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.871525 LONGITUDE: -71.82154444 GROUND ELEVATION: 745' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: REMOVE (6) PANELS, (6) RRU's, (1) OVP, (6) DIPLEXERS, (1) 1-1/4" HYBRID CABLE, AND (4) 1-5/8" COAX CABLES INSTALL (6) NEW PANELS, (3) DIPLEXERS, AND (6) RRU's EXISTING (6) PANELS, (6) 1-5/8" COAX CABLES, (1) 1-1/4" HYBRID CABLES, AND (1) OVP TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> AMERICAN TOWER 116 HUNTINGTON AVE BOSTON, MA 02116 <u>APPLICANT:</u> VERIZON WIRELESS 20 ALEXANDER DRIVE, 2ND FLOOR WALLINGFORD, CT 06492	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.						
	<u>UTILITY COMPANIES</u> POWER COMPANY: CT LIGHT & POWER PHONE: (800) 286-2000 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 921-8102	<u>PROJECT LOCATION DIRECTIONS</u> TAKE ROUTE 395 TO EXIT 97. AT END OF THE RAMP, TAKE A LEFT ONTO 44 EAST. AFTER YOU CROSS FIVE MILE RIVER, GO ABOUT ANOTHER .5 MILES AND TAKE A RIGHT ONTO EAST PUTNUM ROAD. AT THE 3RD STOP SIGN, TAKE A LEFT. LOOK FOR NORTH ROAD ON YOUR RIGHT. TAKE NORTH ROAD TOWER IS ON THE RIGHT.						



Know what's below.
 Call before you dig.

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIATIA-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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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 1/8" 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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 3500 REGENCY PARKWAY
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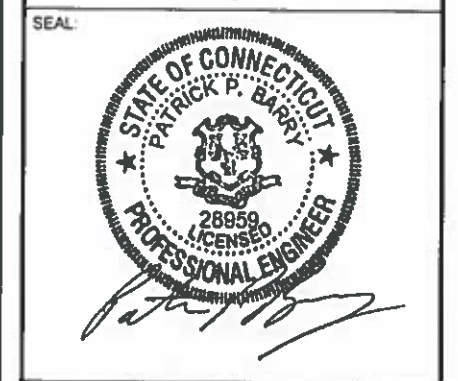
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REV	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TR	06/12/19

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241



DRAWN BY:	TR
APPROVED BY:	PBB
DATE DRAWN:	06/12/19
ATC JOB NO:	12962757
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

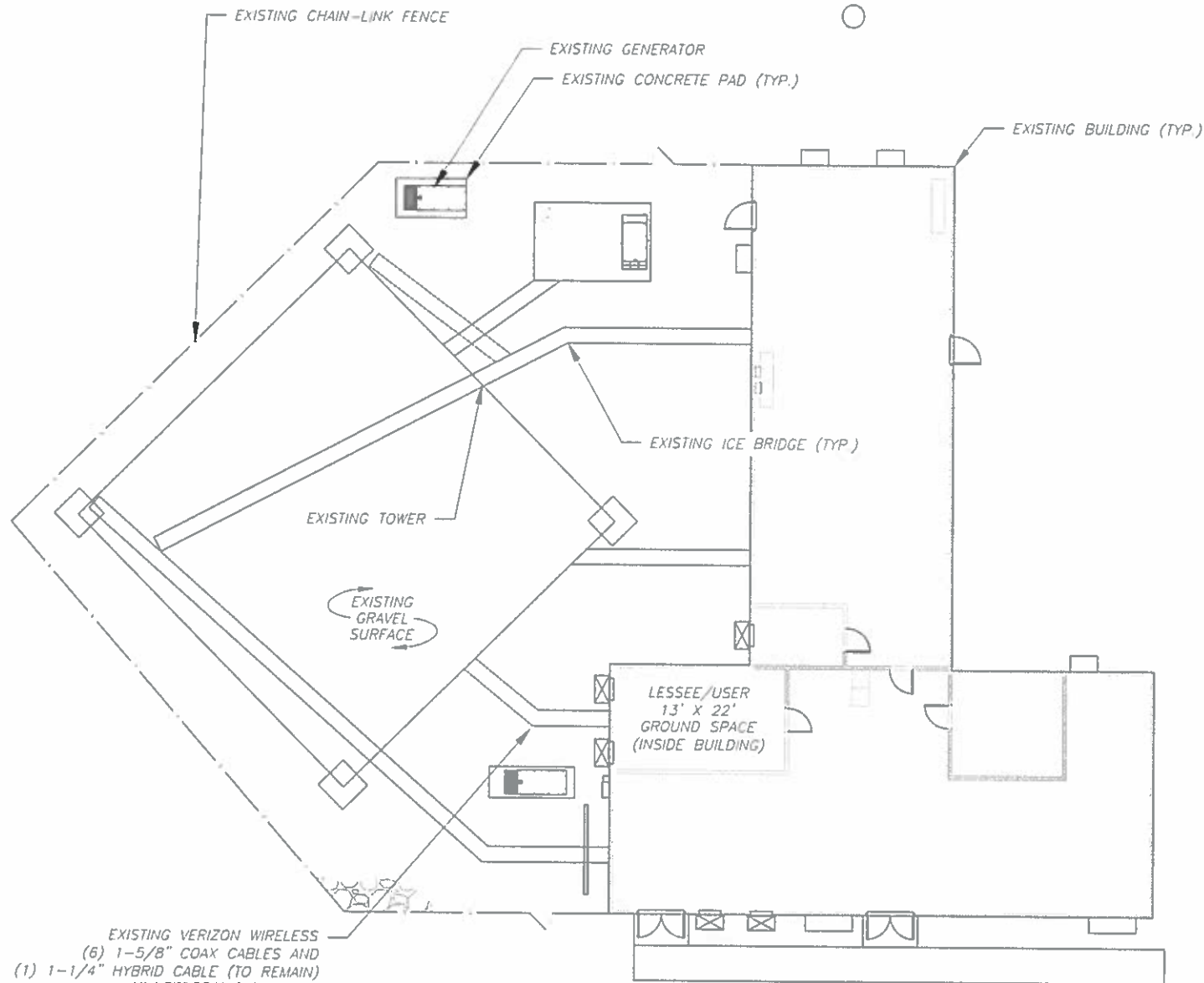
GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

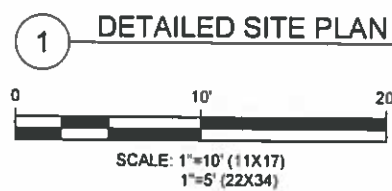
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SITE PLAN NOTES:

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.



EXISTING VERIZON WIRELESS
 (6) 1-5/8" COAX CABLES AND
 (1) 1-1/4" HYBRID CABLE (TO REMAIN)
 (4) 1-5/8" COAX CABLES AND
 (1) 1-1/4" HYBRID CABLE
 (2) (TO BE REMOVED)



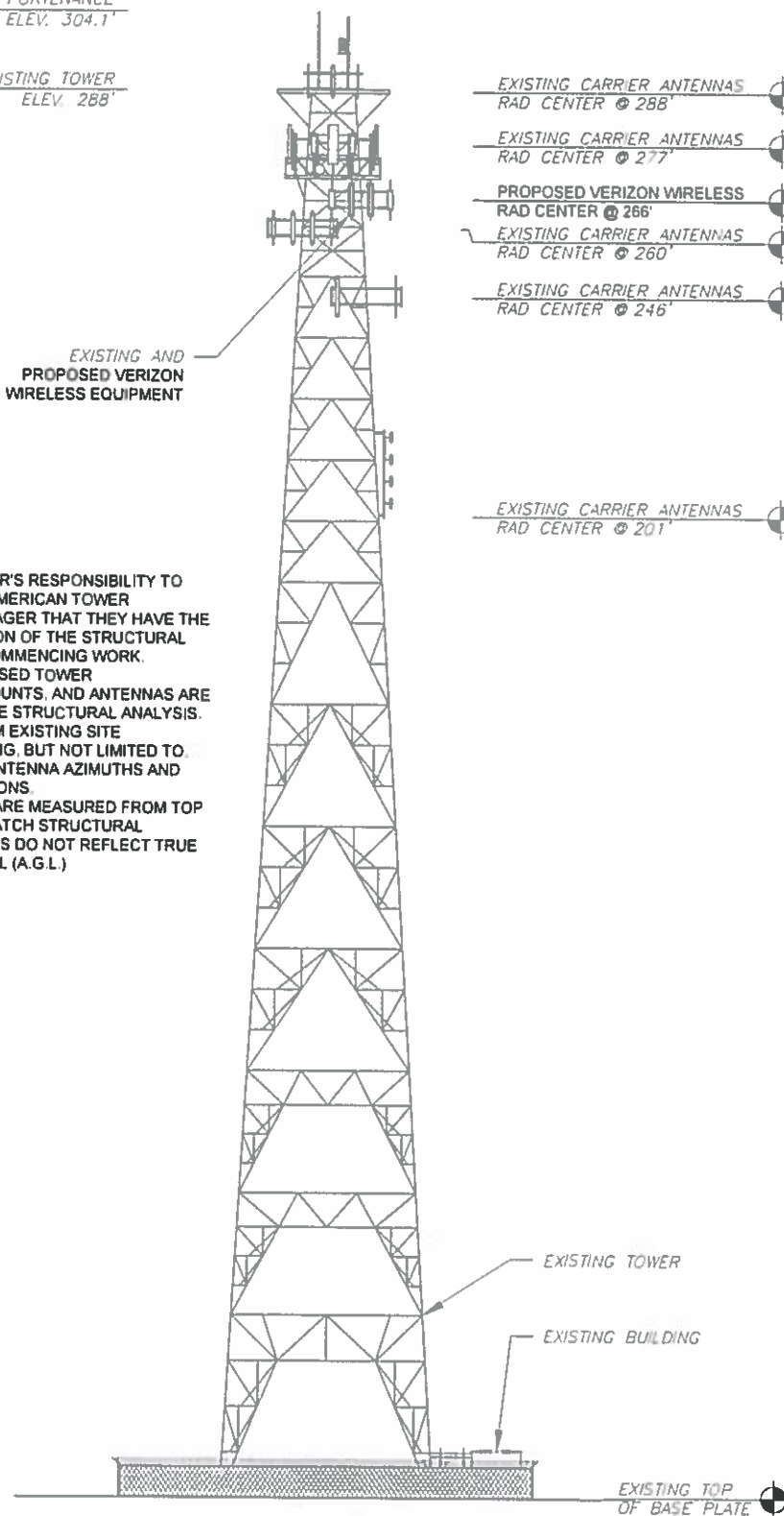
TOP OF EXISTING
 HIGHEST APPURTENANCE
 ELEV. 304.1'

TOP OF EXISTING TOWER
 ELEV. 288'

1 2
 C-501 C-501
 EXISTING AND
 PROPOSED VERIZON
 WIRELESS EQUIPMENT

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. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS AND MOUNT CONFIGURATIONS.
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



2 TOWER ELEVATION
 SCALE: NOT TO SCALE

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TR	06/12/19

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241

SEAL:

Authorized by "FOR"
 August 8, 2019

DRAWN BY:	TR
APPROVED BY:	PBB
DATE DRAWN:	06/12/19
ATC JOB NO:	12962757
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

DETAILED SITE PLAN AND TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-101	0

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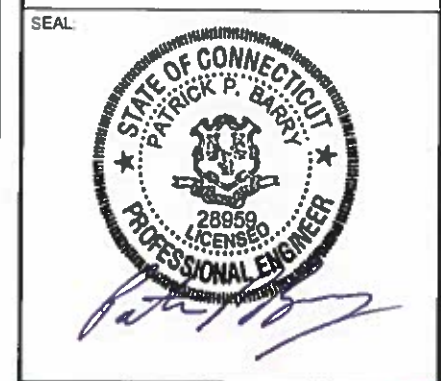


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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TR	06/12/19
1	FIXED MODEL NUMBER	TR	06/25/19
2	NEW RFDS	TR	08/07/19

ATC SITE NUMBER:
88011
 ATC SITE NAME:
EAST KILLINGLY NORTH
 SITE ADDRESS:
 1375 NORTH ROAD
 DAYVILLE, CT 06241

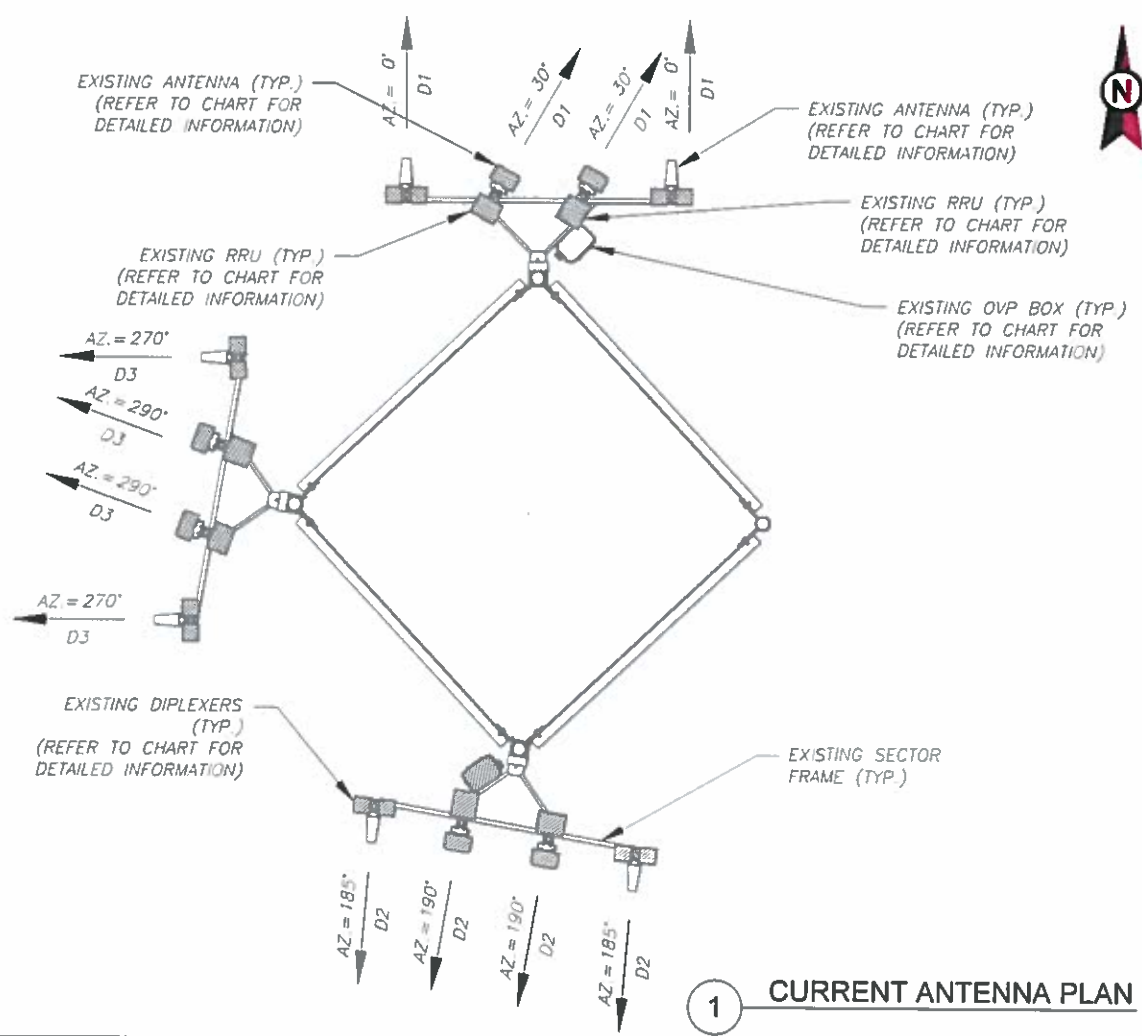


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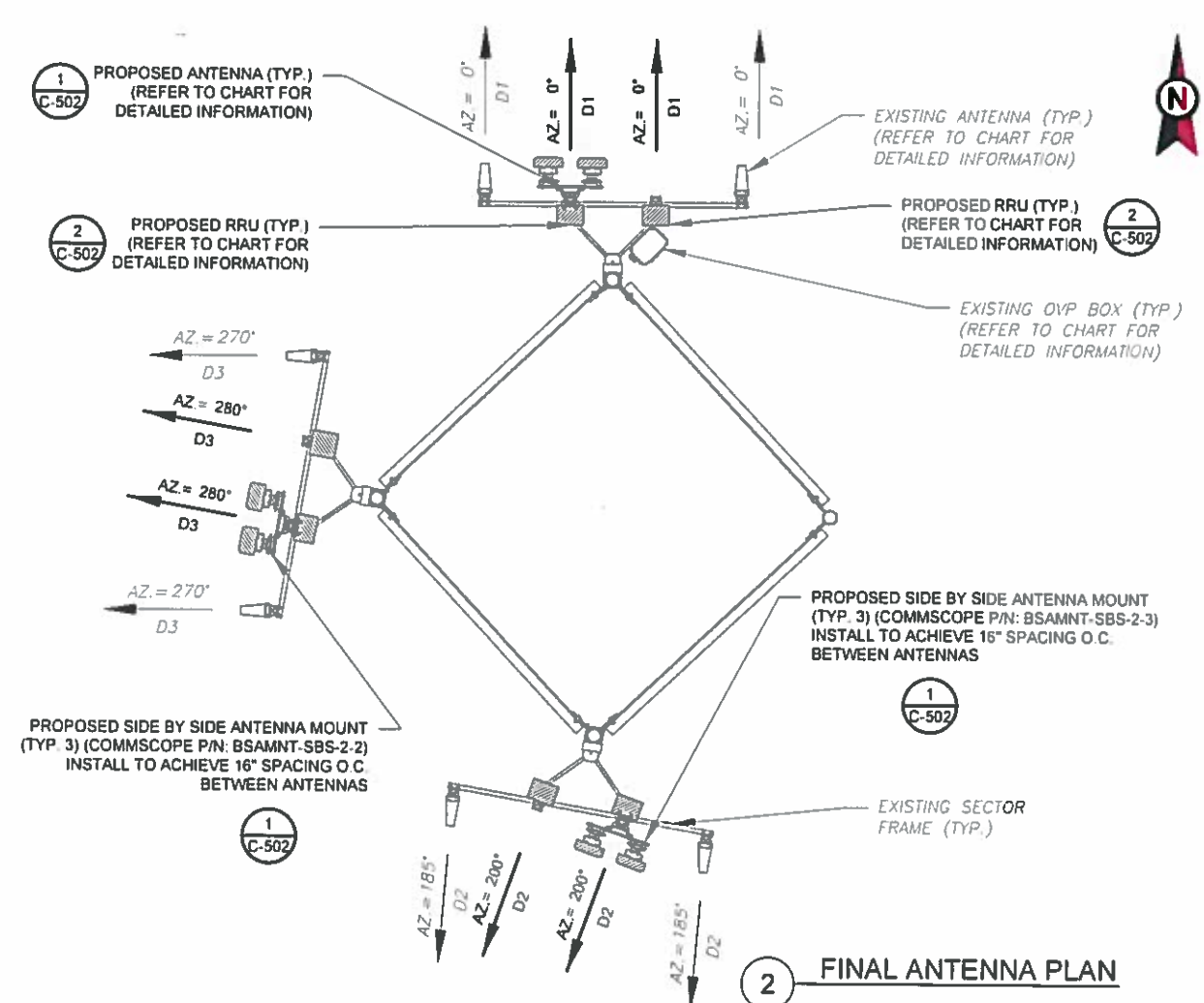
DRAWN BY:	TR
APPROVED BY:	PBB
DATE DRAWN:	06/12/19
ATC JOB NO:	12962757
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:
C-501
 REVISION:
2



1 CURRENT ANTENNA PLAN



2 FINAL ANTENNA PLAN

EXISTING ANTENNA SCHEDULE							
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
D1	266'	0°	A1	LPA-80063-4CF-EDIN-6	CDMA850	RMN	FD9R6004/2C-3L
		30°	A2	SBNHH1D65B	L700, L2100	RMV	UHBA B13 RRH 4x30
		30°	A3	SBNHH1D65B	L700, L2100	RMV	UHIE B66A RRH 4x45
		0°	A4	LPA-80063-4CF-EDIN-6	CDMA850	RMN	FD9R6004/2C-3L
D2	266'	185°	B1	LPA-80063-4CF-EDIN-6	CDMA850	RMN	FD9R6004/2C-3L
		190°	B2	SBNHH1D65B	L700, L2100	RMV	UHBA B13 RRH 4x30
		190°	B3	SBNHH1D65B	L700, L2100	RMV	UHIE B66A RRH 4x45
		185°	B4	LPA-80063-4CF-EDIN-6	CDMA850	RMN	FD9R6004/2C-3L
D3	266'	270°	C1	LPA-80063-4CF-EDIN-6	CDMA850	RMN	FD9R6004/2C-3L
		290°	C2	SBNHH1D65B	L700, L2100	RMV	UHBA B13 RRH 4x30
		290°	C3	SBNHH1D65B	L700, L2100	RMV	UHIE B66A RRH 4x45
		270°	C4	LPA-80063-4CF-EDIN-6	CDMA850	RMN	FD9R6004/2C-3L

NOTES

- BASED ON APPROVED ATC APPLICATION 12913129, DATED 04/24/19. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
- ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
- CONFIRM SPACING OF PROPOSED EQUIP 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).

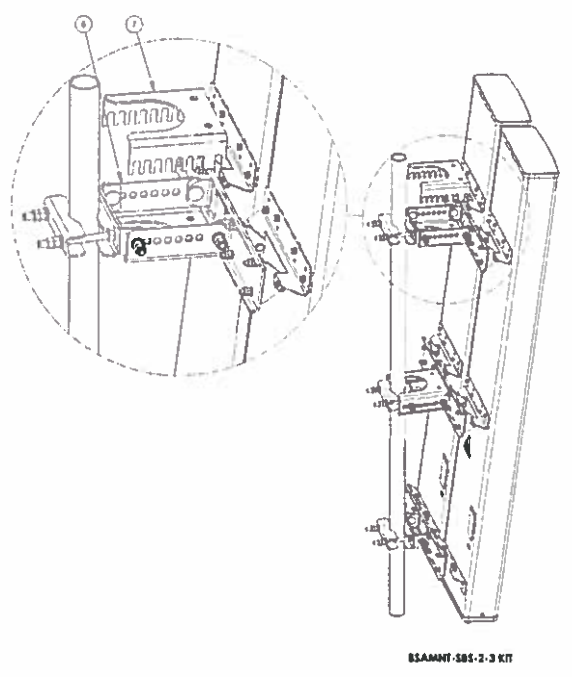
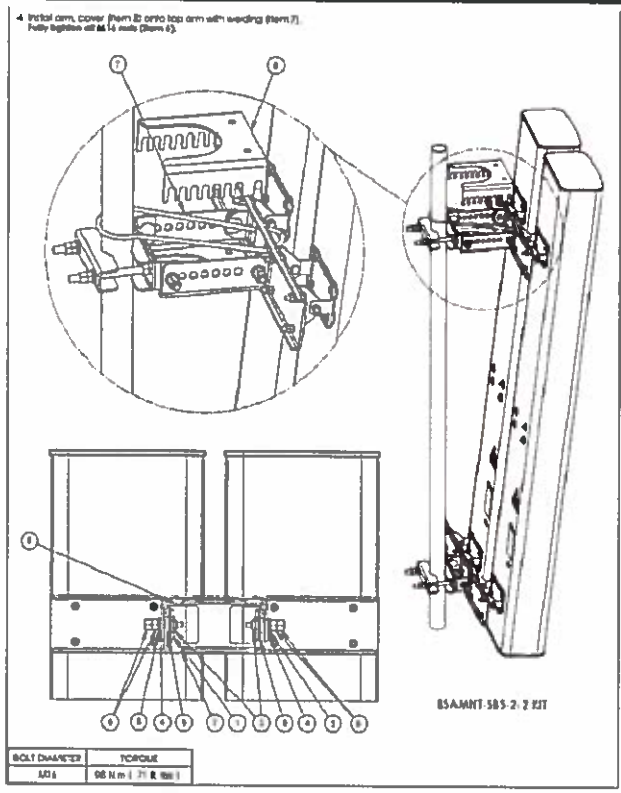
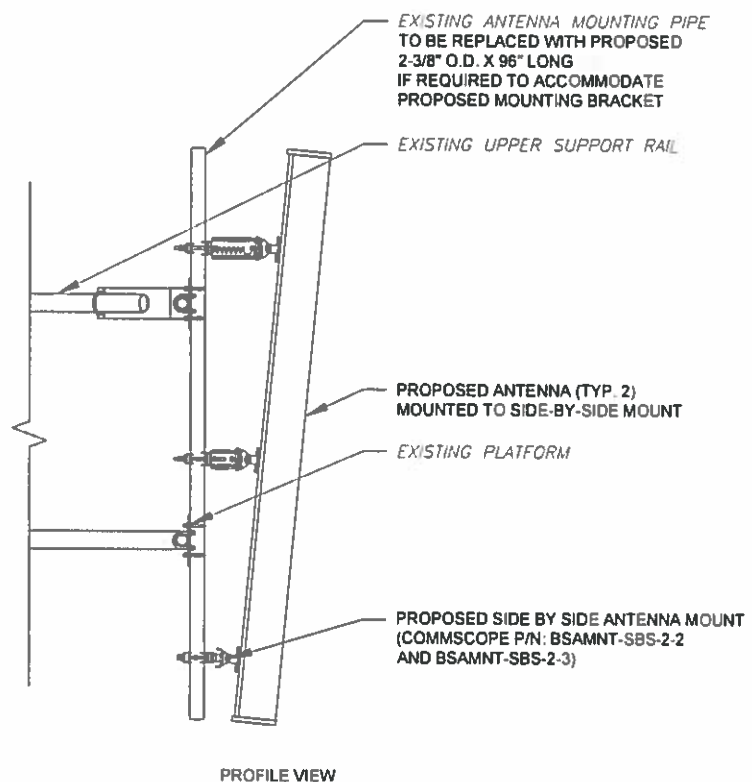
FINAL ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY			
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
D1	266'	0°	A1	LPA-80063-4CF-EDIN-6	CDMA850	RMN	-	-	
		0°	A2	(2) JAHH-45BR3B	L700, L850, L1900, L2100	ADD	B2/B66A RRHBR049 CBC78T-DS-43-2X	ADD	
		0°	A3	-	L700, L850, L1900, L2100	ADD	B5/B13 RRHBR04C	ADD	
		0°	A4	LPA-80063-4CF-EDIN-6	CDMA850	RMN	-	-	
D2	266'	185°	B1	LPA-80063-4CF-EDIN-6	CDMA850	RMN	-	-	
		200°	B2	(2) JAHH-45BR3B	L700, L850, L1900, L2100	ADD	B2/B66A RRHBR049 CBC78T-DS-43-2X	ADD	
		200°	B3	-	L700, L850, L1900, L2100	ADD	B5/B13 RRHBR04C	ADD	
		185°	B4	LPA-80063-4CF-EDIN-6	CDMA850	RMN	-	-	
D3	266'	270°	C1	LPA-80063-4CF-EDIN-6	CDMA850	RMN	-	-	
		280°	C2	(2) JAHH-65BR3B	L700, L850, L1900, L2100	ADD	B2/B66A RRHBR049 CBC78T-DS-43-2X	ADD	
		280°	C3	-	L700, L850, L1900, L2100	ADD	B5/B13 RRHBR04C	ADD	
		270°	C4	LPA-80063-4CF-EDIN-6	CDMA850	RMN	-	-	

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY			STATUS ABBREVIATIONS		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS	RMV: TO BE REMOVED	RMN: TO REMAIN	REL: TO BE RELOCATED
(1) RC3DC-3315-PF-48	RMN	(6) 1-5/8"	(1) 1-1/4"	RMN	DSC: TO BE DISCONNECTED & REMAIN	ADD: TO BE ADDED	
(1) RC3DC-3315-PF-48	RMV	(4) 1-5/8"	(1) 1-1/4"	RMV			

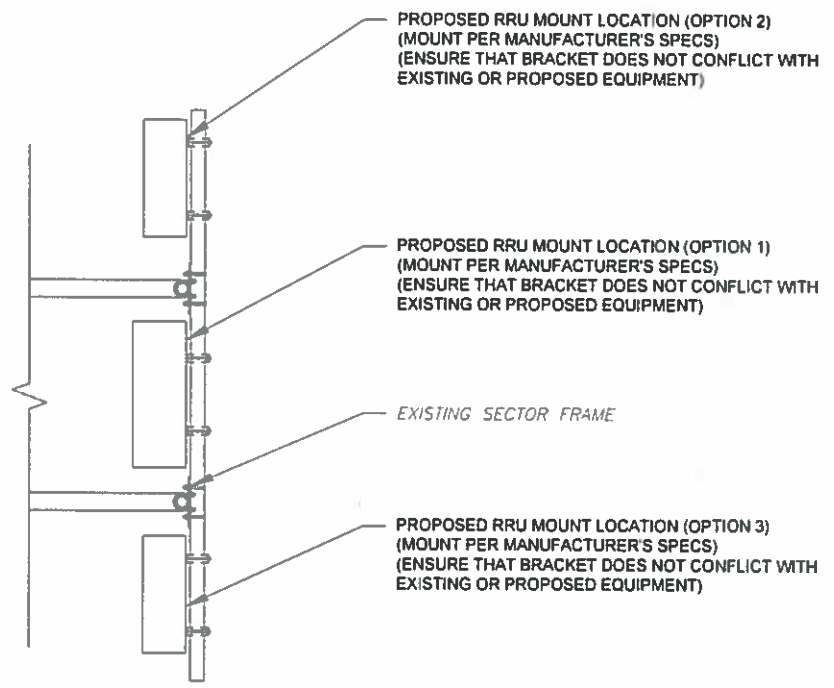
3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION/OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) RC3DC-3315-PF-48	RMN	(6) 1-5/8"	(1) 1-1/4"	RMN

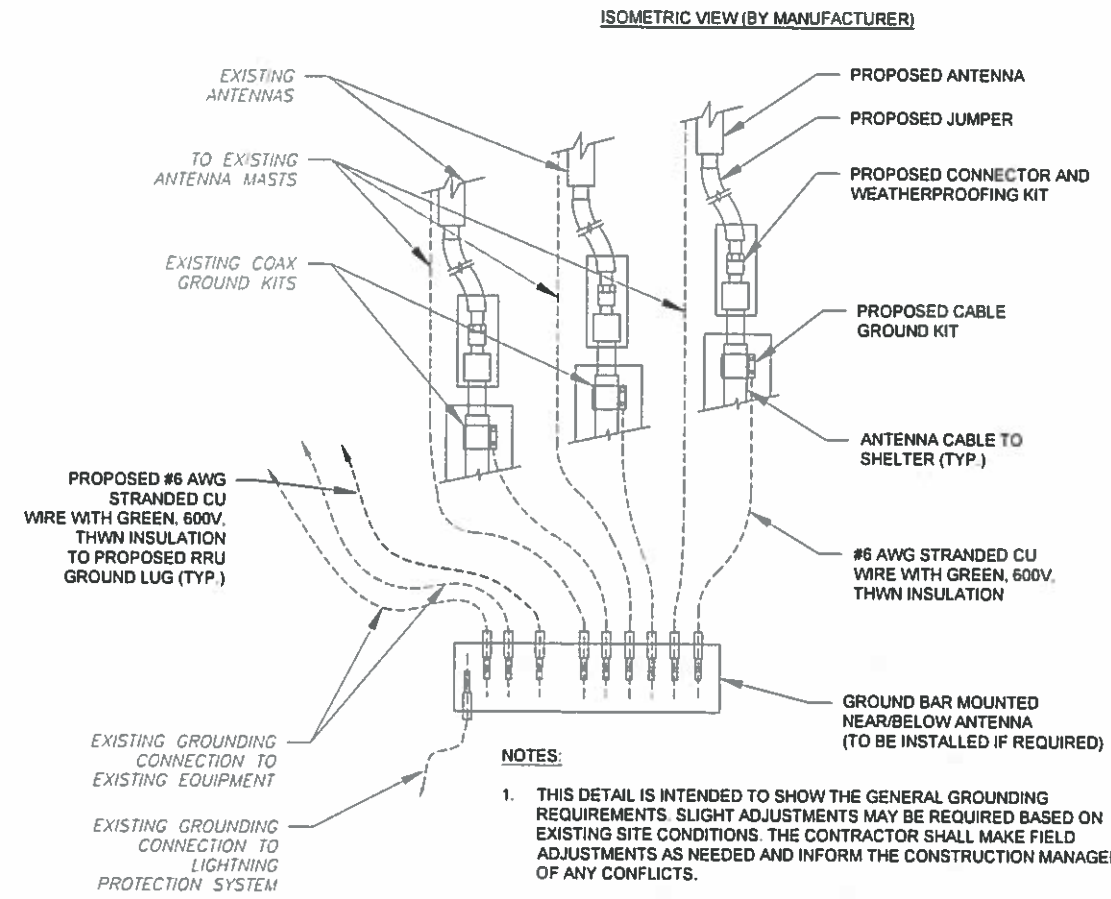
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1 PROPOSED ANTENNA MOUNTING DETAILS - TYPICAL
SCALE: NOT TO SCALE



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



3 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

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	TR	06/12/19

ATC SITE NUMBER:
88011

ATC SITE NAME:
EAST KILLINGLY NORTH

SITE ADDRESS:
1375 NORTH ROAD
DAYVILLE CT 06241

SEAL

Authorized by "FOR" Verizon
Aug 27 & 28 2019

DRAWN BY:	TR
APPROVED BY:	PBB
DATE DRAWN:	06/12/19
ATC JOB NO:	12962757
CUSTOMER ID:	KILLINGLY CT
CUSTOMER #:	467465

CONSTRUCTION DETAILS

SHEET NUMBER:
C-502

REVISION:
0