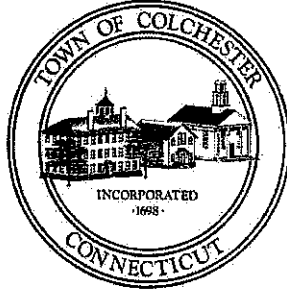


# Town of Colchester

Land Use Department  
127 Norwich Ave, Suite 105  
Colchester, CT 06415  
[www.colchesterct.gov](http://www.colchesterct.gov)



Demian Sorrentino, AICP, Planning Director  
Stacey Churchill, Land Use Assistant  
Isabelle Kisluk, Asst. Planner/ZEO  
Daniel Hickey, Wetlands Agent  
T: (860) 537-7278

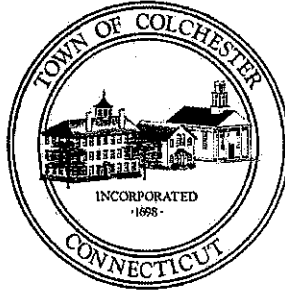
**PLANNING & ZONING COMMISSION  
REGULAR MEETING  
Wednesday, October 4, 2023 – 7:00 PM  
Town Hall Meeting Room 1  
AGENDA**

1. **Call to Order**
2. **Additions or Deletions to the Agenda**
3. **Minutes of Previous Meeting**
  - A. Regular Meeting 9/20/23
4. **Public Hearings**
  - A. **PZC2023-012** of Stephen M. Fedus (Applicant) and Stephen M. Fedus, Trustee of the Stephen M. Fedus Trust Agreement Dated August 15, 2001 (Owner) – Special Permit and Site Plan Review for proposed 19-unit multi-family residential development on 8.5± acres located at 203 Amston Road (Assessor's ID 21-00-003-000) Zoning District: Suburban Use (SU) & APOZ
5. **Five Minute Session for the Public**
6. **Pending Applications**
  - A. **PZC2023-012** of Stephen M. Fedus (Applicant) and Stephen M. Fedus, Trustee of the Stephen M. Fedus Trust Agreement Dated August 15, 2001 (Owner) – Special Permit and Site Plan Review for proposed 19-unit multi-family residential development on 8.5± acres located at 203 Amston Road (Assessor's ID 21-00-003-000) Zoning District: Suburban Use (SU) & APOZ
7. **New Applications**
8. **Preliminary Reviews**
9. **Old Business**
10. **New Business**
11. **Planning Issues and Discussions**
  - A. Zoning Enforcement Status Report
  - B. Jordan Lane Affordable Housing Development
12. **Correspondence**
  - A. Centerline Communications – Notice of Exempt Modification – 355 Route 85
13. **Adjournment**

RECEIVED  
COLCHESTER, CT  
2023 OCT -2 PM 12:34  
*Angela Sturmon*  
OFFICE MANAGER

# Town of Colchester

Land Use Department  
127 Norwich Ave, Suite 105  
Colchester, CT 06415  
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Carol Szymanski, Wetlands Agent  
T: (860) 537-7278

**PLANNING & ZONING COMMISSION  
REGULAR MEETING  
Wednesday, September 20, 2023 – 7:00 PM  
Town Hall Meeting Room 1  
MINUTES**

RECEIVED  
COLCHESTER, CT  
2023 SEP 21 PM 1:26  
CYCLE FURNACE  
TOWN CLERK

**Members Present:** Chairman J. Mathieu; Vice Chair J. Novak; M. Kehogreen; B. Hayn; S. Nadeau; M. Noniewicz; S. Nadeau  
**Absent:** None  
**Also Present:** Planning Director, D. Sorrentino; M. Reynolds, PE; Stephen Fedus; Public

1. **Call to Order** – Chairman Mathieu called the meeting to order at 7:02 PM
2. **Additions or Deletions to the Agenda** - None
3. **Minutes of Previous Meeting**
  - A. Regular Meeting 9/6/23 - Motion by M. Noniewicz to approve the minutes as written. 2<sup>nd</sup> by B. Hayn. All were in favor with S. Nadeau abstaining, motion carried.
4. **Public Hearings**
  - A. **PZC2023-012** of Stephen M. Fedus (Applicant) and Stephen M. Fedus, Trustee of the Stephen M. Fedus Trust Agreement Dated August 15, 2001 (Owner) – Special Permit and Site Plan Review for proposed 19-unit multi-family residential development on 8.5± acres located at 203 Amston Road (Assessor's ID 21-00-003-000) Zoning District: Suburban Use (SU). – Chairman Mathieu asked if anyone in the audience had concerns about commissioners seated. Hearing none, he went over the public hearing process. D. Sorrentino presented the Planning Director's staff report and gave an overview of the permitting requirements and application exhibits. Mark Reynolds, PE spoke on behalf of the applicant and gave the Commission a presentation of the application. He discussed the building layout, drainage, parking, landscaping, utilities and conceptual building architecture. Commissioners asked questions and M. Reynolds provided responses. Chairman Mathieu asked if anyone would like to speak in favor of the proposal. Stephen Fedus, applicant, spoke about the need for quality rental housing in Colchester. Chairman Mathieu asked if anyone would like to speak in opposition. Greg Cerniglia of 163 Amston Road, Colchester spoke of the absence of catch basins, drainage and runoff, environmental impacts, snow removal, traffic, school children and is opposed to rental units. Richard Kowalski of 1 Village Court, Colchester spoke of concerns of traffic speed and weekend traffic volume on Amston Road. Review and provision of comments are still forthcoming from the Planning Director, Public Works and Sewer and Water. Motion by M. Noniewicz to continue the Public Hearing for PZC2023-012, Stephen Fedus, applicant for a multi-

family 19 unit residential development to the next regular meeting of October 4, 2023 to allow continued staff and public comment. 2<sup>nd</sup> by J. Novak. All were in favor, motion carried.

**5. Five Minute Session for the Public – No comments**

**6. Pending Applications**

- A. **PZC2023-012** of Stephen M. Fedus (Applicant) and Stephen M. Fedus, Trustee of the Stephen M. Fedus Trust Agreement Dated August 15, 2001 (Owner) – Special Permit and Site Plan Review for proposed 19-unit multi-family residential development on 8.5± acres located at 203 Amston Road (Assessor's ID 21-00-003-000) Zoning District: Suburban Use (SU). – Motion by M. Noniewicz to table consideration of PZC2023-012 to the next regular meeting of October 4, 2023 because the Public Hearing is still open. 2<sup>nd</sup> by J. Novak. All were in favor, motion carried.

**7. New Applications - None**

**8. Preliminary Reviews - None**

**9. Old Business - None**

**10. New Business - None**

**11. Planning Issues and Discussions**

- A. PA 23-142 Compliance – CT Office of Policy & Management – D. Sorrentino explained the Public Act and presented I. Kisluk's analysis of Colchester's regulations. The Commission understands that changes will be required to achieve compliance. Staff will recommend that the First Selectman provide a response of current non-compliance with PA 23-142 to CT OPM with an anticipated timeframe of 6-9 months to achieve compliance. These revisions will be grouped with those remaining to gain compliance with Public Acts enacted in 2021 and 2022.
- B. Zoning Enforcement Status Report - ZEO I. Kisluk was not present. D. Sorrentino stated that enforcement efforts continue and I. Kisluk has a good record of achieving compliance.

**12. Correspondence – None**

**13. Adjournment** – Motion by B. Hayn to adjourn. 2<sup>nd</sup> by M. Kehoegreen. All were in favor, meeting adjourned at 8:04 PM

Respectfully submitted by: D. Sorrentino, Planning Director & S. Churchill, Land Use Assistant



 750 West Center Street  
West Bridgewater, MA  
 dmaheux@clinellc.com  
 508.649.2307

September 22, 2023

Andreas Bisbikos  
First Selectman  
127 Norwich Ave  
Colchester, CT 06415

**Re:** Notice of Exempt Modification – Verizon Wireless Site COLCHESTER 2 CT  
Verizon Wireless Telecommunications Facility @ 355 Route 85, Colchester, CT

Dear Mr. Bisbikos

You are receiving a copy of this Connecticut Siting Council Exempt Modification application as an interested party, as required by CSC regulations.

Best Regards,

**Derek Maheux**

*Program Manager – Agent for Verizon Wireless*  
*Centerline Communications LLC*  
750 West Center St. Ste 301  
West Bridgewater, MA 02379  
508-649-2307  
dmaheux@clinellc.com



Derek Maheux Program Manager  
c/o Cellco Partnership d/b/a Verizon Wireless  
Centerline Communications, LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379  
Mobile: (508)649-3407  
[Dmaheux@clinellc.com](mailto:Dmaheux@clinellc.com)

September , 2023

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

**RE: Notice of Exempt Modification // Site: COLCHESTER CT (ATC: 302465)  
355 Route 85, Colchester CT 06415  
N 41.54486136 // W -72.30490542**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains nine (9) antenna at the 163-ft level on the existing 181ft Tower, located at 355 Route 85, Colchester, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of two (2) interference mitigation filters on Verizon Wireless existing antenna platform and mounting assembly.

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 Bethany's Chief Elected Official and Land Use Officer.

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 September 15, 2023, by A.T Engineering Services, LLC, a structural analysis dated September 6, 2023, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated August 2, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated August 27, 2023, by Tower Engineering Professionals.

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 and a structural mount analysis, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings.

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,

*Derek Maheux*

---

Derek Maheux, Program Manager  
c/o Cellco Partnership d/b/a Verizon Wireless  
Centerline Communications, LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379  
Mobile: (508) 649 2307  
[Dmaheux@clinellc.com](mailto:Dmaheux@clinellc.com)

Attachments: Exhibit 1 – Construction Drawings  
Exhibit 2 – Property Card and GIS  
Exhibit 3 – Structural Analysis  
Exhibit 4 – Mount Analysis  
Exhibit 5 – RF Emissions Analysis Report Evaluation  
Exhibit 6 – Available Original Tower Approval Records  
Exhibit 7 – Notice Deliver Confirmations

cc: Andreas Bisbikos – First Selectman – Chief Elected Official  
Demian Sorrentino, Planning Director - as P&Z official  
American Tower Corporation - as tower owner  
M+J Auto Recycling – as ground owner



# Town of Colchester, CT

Property Report

Map Block Lot 02-08/003-000

PID 3051

Building # 1 Section # 1

Account M0062200

## Property Information

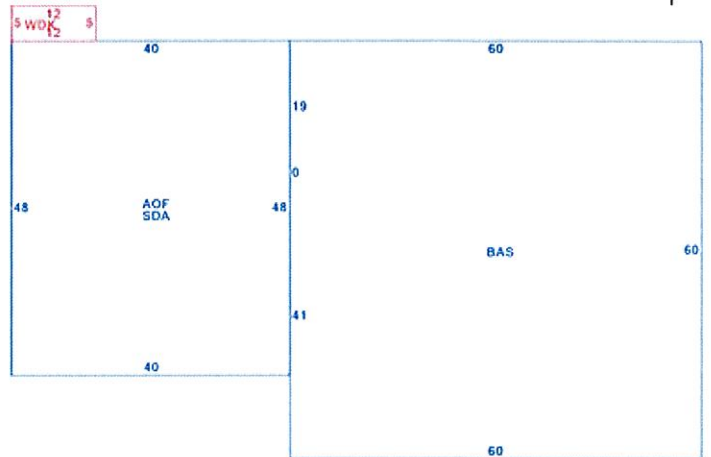
Property Location	355 NEW LONDON RD
Owner	M+J AUTO RECYCLING INC
Co-Owner	na
Mailing Address	PO BOX 908 COLCHESTER CT 06415
Land Use	3320 Auto Repr
Land Class	C
Zoning Code	R60
Census Tract	

Neighborhood	
Acreage	36.1
Utilities	UNKNOWN
Lot Setting/Desc	UNKNOWN UNKNOWN
Additional Info	

## Photo



## Sketch



## Primary Construction Details

Year Built	1981
Stories	2
Building Style	Service Shop
Building Use	Serv Station
Building Condition	
Interior Floors 1	Linoleum
Interior Floors 2	Concrete Slab
Total Rooms	0
Basement Garages	
Occupancy	1.00
Building Grade	

Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Metal/Tin
AC Type	Central
Fireplaces	0

Exterior Walls	Pre-finish Metl
Exterior Walls 2	NA
Interior Walls	Wall Brd/Wood
Interior Walls 2	NA
Heating Type	Forced Air-Duc
Heating Fuel	Gas
Sq. Ft. Basement	
Fin BSMT Quality	
Extra Kitchens	





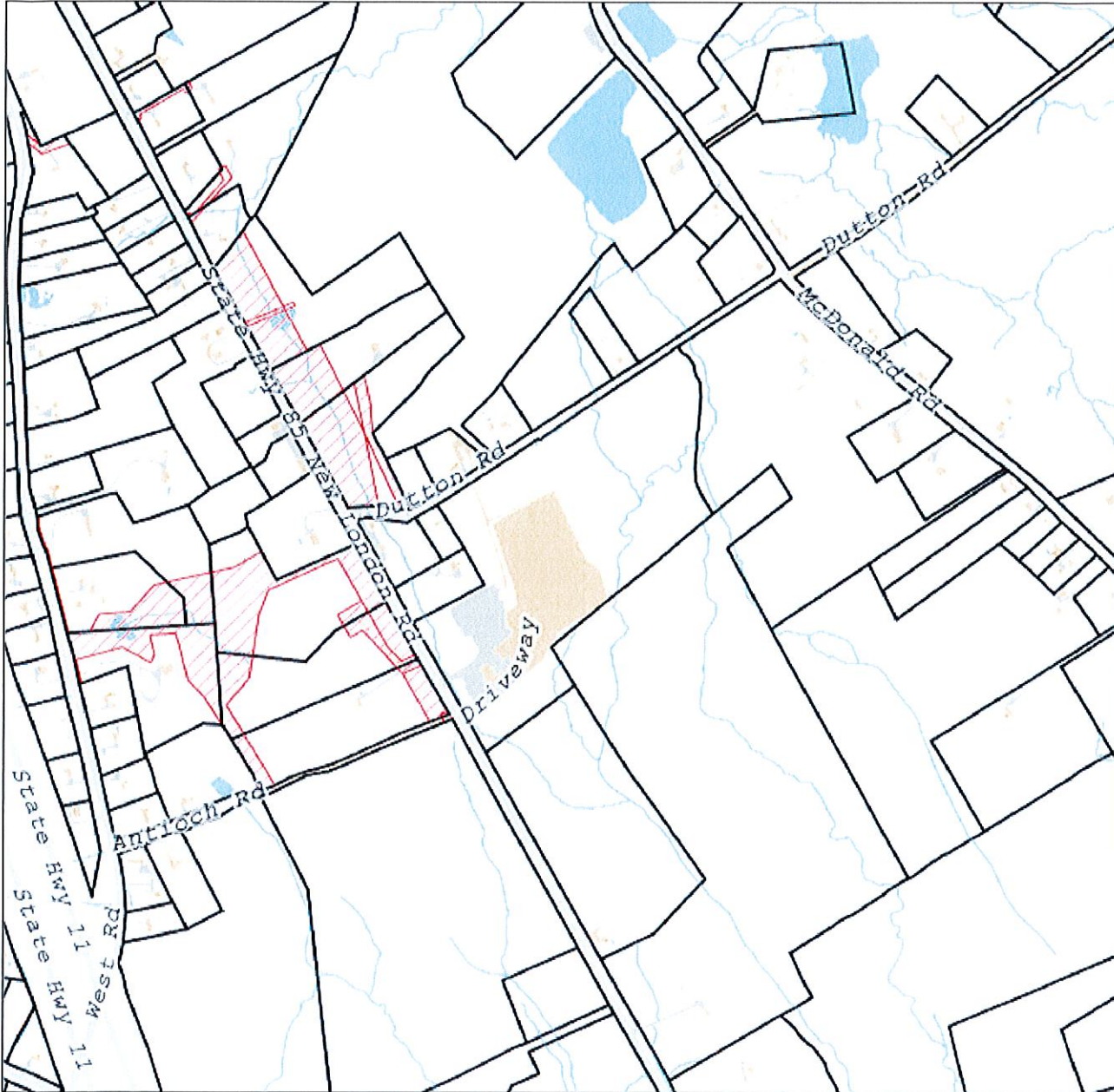


# Town of Colchester

Geographic Information System (GIS)



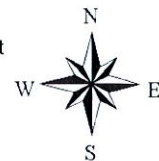
Date Printed: 7/12/2021



**MAP DISCLAIMER - NOTICE OF LIABILITY**

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Colchester and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 800 feet

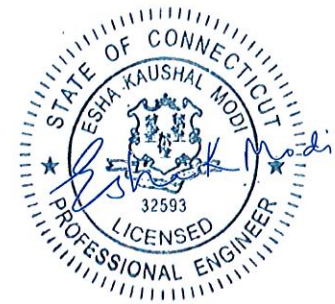




**AMERICAN TOWER®**  
CORPORATION

## Structural Analysis Report

**Structure** : 180 ft Monopole  
**ATC Asset Name** : Colchester CT 6  
**ATC Asset Number** : 302465  
**Engineering Number** : 14535640\_C3\_01  
**Proposed Carrier** : VERIZON WIRELESS  
**Carrier Site Name** : COLCHESTER S 2 CT  
**Carrier Site Number** : 5000245762  
**Site Location** : 355 Route 85  
Colchester, CT 06415-1825  
41.5449° N, 72.3049° W  
**County** : New London  
**Date** : September 6, 2023  
**Max Usage** : 67%  
**Analysis Result** : Pass



**Esha  
Modi**

Digitally signed  
by Esha Modi  
Date: 2023.09.07  
08:41:06 -04'00'

**COA: PEC.0001553**





## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

## Supporting Documents

<b>Tower:</b>	Valmont order #17494-98, dated June 8, 1998
<b>Foundation:</b>	Valmont drawing #17494-S-01, dated July 10, 1998
<b>Geotechnical:</b>	Tectonic Engineering Consultants Project #1170.C877, dated June 5, 1998
<b>Modification:</b>	ATC Project #13711921_C8_03, dated August 19, 2021

## 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.

<b>Basic Wind Speed:</b>	125 mph (3-second gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-second gust) w/ 1.00" radial ice concurrent
<b>Code(s):</b>	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
<b>Exposure Category:</b>	B
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 1
<b>Topographic Category:</b>	1
<b>Spectral Response:</b>	$S_s = 0.21$ , $S_i = 0.06$
<b>Site Class:</b>	D - Stiff Soil - Default

## 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 Engineering via email at [Engineering@americantower.com](mailto:Engineering@americantower.com). Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.



### Structure Usages

Structural Component	Usage	Control	Result
Pole Shaft	67.7%	1.2D + 1.0W	Pass
Base Plate @ 0.0 ft	50.8%	Rods	Pass
Mat & Pier	58.4%	Flexure [Steel (Pier)]	Pass

### Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	4,336.4	61.8	36.7

*\*Reactions shown reflect the results from the Load Case with maximum Moment*

Structure base reactions were analyzed using available geotechnical and foundation information.





**VERIZON WIRELESS Final Loading**

Elev (ft)	Qty	Equipment	Lines
	1	Platform with Handrails	
	2	Kaelus KA-6030	
	2	RFS DB-B1-6C-12AB-0Z	
163.0	3	Samsung B2/B66A RRH-BR049	(2) 1 5/8" Hybriflex
	3	Samsung B5/B13 RRH-BR04C	
	3	Samsung MT6407-77A	
	6	Commscope JAHH-65B-R3B	

**Other Existing/Reserved Loading**

Elev (ft)	Qty	Equipment	Lines	Carrier
	1	Platform with Handrails		
	3	Commscope VV-65A-R1B		
180.0	3	Ericsson 4460 BAND 2/25	(3) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Ericsson 4480 BAND 71		
	3	Ericsson AIR 6419 B41		
	3	RFS APXVAALL24 43-U-NA20		
172.6	2	6' Omni	-	SENET, INC.
169.0	2	Side Arm	-	SENET, INC.
	1	CCI HPA65R-BU6A		
	1	Platform with Handrails		
	1	Kathrein Scala 80010965		
	2	CCI HPA65R-BU8A	(2) 0.39" (10mm) Fiber Trunk (2) 0.65" (16.4mm) 8 AWG 2C (2) 0.78" (19.7mm) 8 AWG 6 (12) 1 1/4" Coax	AT&T MOBILITY
150.0	2	Kathrein Scala 80010966		
	2	Raycap DC6-48-60-18-8F (23.5" Height)		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson Radio 8843 - B2 + B66A		
	3	Powerwave Allgon 7770.00		
	6	LGP Allgon LGP21903		
	6	Powerwave Allgon LGP21401		
	1	Commscope RDIDC-9181-PF-48		
	1	Platform with Handrails		
120.0	3	Fujitsu TA08025-B604	(1) 1.60" (40.6mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B605		
	3	JMA Wireless MX08FRO665-21		

*(If table breaks across pages, please see previous page for data in merged cells)*



### **Standard Conditions**

All engineering services performed by A.T. Engineering Services LLC 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 Services LLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Services LLC 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 Services LLC, 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 Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



Colliers Engineering & Design CT, PC  
1055 Washington Boulevard  
Stamford, CT 06901  
203.324.0800  
Peter.albano@collierseng.com

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## Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208055  
Colliers Engineering & Design CT, PC Project #: 23777210

August 2, 2023

### Site Information

Site ID: 5000245762-VZW / COLCHESTER S 2 CT  
ATC monopole  
Site Name: COLCHESTER S 2 CT - ATC monopole  
Carrier Name: Verizon Wireless  
Address: 355 Route 85  
Colchester, Connecticut 06415  
New London County  
Latitude: 41.544820°  
Longitude: -72.304891°

### Structure Information

Tower Type: 180-Ft Monopole  
Mount Type: 12.58-Ft Platform

FUZE ID # 17123860

### Analysis Results

Platform: 99.4 % Pass w/ Hardware Upgrades\*

\* Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

### \*\*\*Contractor PMI Requirements:

Included at the end of this MA report  
Available & Submitted via portal at <https://pmi.vzwsmart.com>  
For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

Report Prepared By: Lauren Luzier



**Executive Summary:**

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

**Sources of Information:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 1930401, dated March 16, 2021
Mount Mapping Report	RKS Design & Engineering LLC., Site ID: ATC:302465, dated March 27, 2021
Post Modification Inspection Report	Colliers Engineering & Design Project #: 21777428, dated June 19, 2023
Filter Add Scope	Provided by Verizon Wireless

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC),	Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : Ice Wind Speed (3-sec. Gust): Design Ice Thickness: Risk Category: Exposure Category: Topographic Category: Topographic Feature Considered: Topographic Method: Ground Elevation Factor, $K_e$ :	125 mph 50 mph 1.00 in II B 1 N/A N/A 0.980
Seismic Parameters:	$S_s$ : $S_1$ :	0.205 g 0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): Maintenance Live Load, $L_v$ : Maintenance Live Load, $L_m$ :	30 mph 250 lbs. 500 lbs.
Analysis Software:	RISA-3D (V17)	

**Final Loading Configuration:**

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
160.75	162.00	2	KAelus	KA-6030	Added
		3	Commscope	CBC78T-DS-43-2X	Retained
		3	Samsung	MT6407-77A	
		6	Commscope	JAHH-65B-R3B	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	Raycap	RRFDC-3315-PF-48	

The recent PMI reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

**Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.



5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts     ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

**Analysis Results:**

Component	Utilization %	Pass/Fail
Standoff Arm	23.7 %	Pass
Standoff Horizontal	99.4 %	Pass
Platform Support	83.3 %	Pass
Platform Angle	44.8 %	Pass
Face Horizontal	13.0 %	Pass
Support Rail	27.7 %	Pass
Antenna pipe	21.1 %	Pass
Corner Angle	40.7 %	Pass
Support rail corner	1.9 %	Pass
Mod SFS kit	11.9 %	Pass
Mount Connection	15.2 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>99.4%</b>
---	--------------

\* Results valid after hardware upgrades noted in the PMI Requirements are installed.

**Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:**

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	32.9	32.8	45.7	45.6
0.5	43.1	43.0	61.3	61.2
1	52.4	52.4	76.1	76.0

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).

- Ka factors included in (EPA)a calculations

### **Requirements:**

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

Contractor shall remove the existing equipment pipe to pipe in position 4 on all sectors.

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Contractor shall inspect support rail corners and install missing U-bolts as needed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

### **Attachments:**

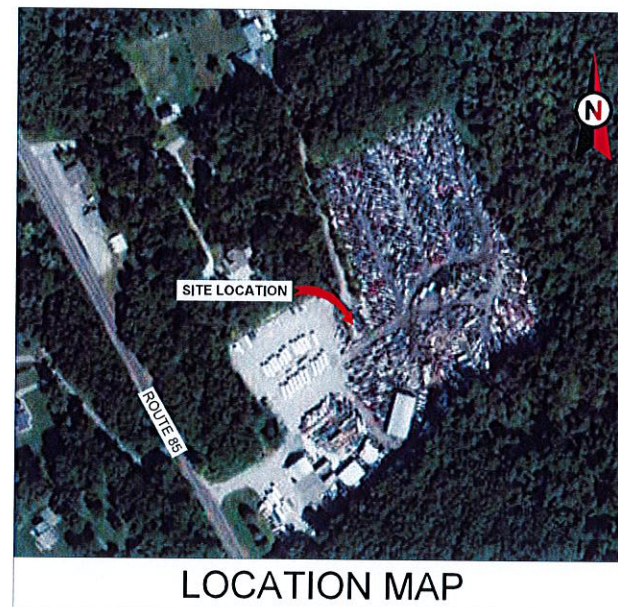
1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations





**AMERICAN TOWER®**

ATC SITE NAME: COLCHESTER CT 6  
 ATC SITE NUMBER: 302465  
 VERIZON SITE NAME: COLCHESTER S 2 CT  
 VERIZON SITE NUMBER: 5000245762  
 VERIZON FUZE PID: 17123860  
 SITE ADDRESS: 355 ROUTE 85  
 COLCHESTER, CT 06415



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

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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	AP	09/15/23

ATC SITE NUMBER:  
302465  
 ATC SITE NAME:  
COLCHESTER CT 6  
 VERIZON SITE NAME:  
COLCHESTER S 2 CT  
 SITE ADDRESS:  
355 ROUTE 85  
COLCHESTER, CT 06415



Digitally signed by Scott Wirgau  
 Date: 2023.09.15 16:01:24 -04'00'



ATC JOB NO: 14519481\_G0  
 CUSTOMER ID: COLCHESTER S 2 CT  
 CUSTOMER #: 5000245762

TITLE SHEET

SHEET NUMBER: G-001  
 REVISION: 0

**VERIZON AMENDMENT DRAWINGS**

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. 2020 NFPA 70 NATIONAL ELECTRIC CODE (NEC) 2. 2022 CONNECTICUT STATE BUILDING CODE 3. 2021 INTERNATIONAL BUILDING CODE (IBC)  <b>DESIGN CRITERIA FROM TOWER STRUCTURAL ANALYSIS:</b> BASIC WIND SPEED: 125 MPH (3-SECOND GUST) BASIC WIND SPEED W/ ICE: 50 MPH (3-SECOND GUST) W/ 1.00" RADIAL ICE CONCURRENT CODE(S): ANSI TIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE  EXPOSURE CATEGORY: B RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 1 TOPOGRAPHIC CATEGORY: 1 SPECTRAL RESPONSE: S <sub>e</sub> =0.21, S <sub>w</sub> =0.06 SITE CLASS: D - STIFF SOIL- DEFAULT  INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 08/07/23.	<b>SITE ADDRESS:</b> 355 ROUTE 85 COLCHESTER, CT 06415 COUNTY: NEW LONDON  <b>GEOGRAPHIC COORDINATES:</b> LATITUDE: 41.54486136 LONGITUDE: -72.30490542 GROUND ELEVATION: 559' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:  INSTALL MOUNT MODIFICATION(S) AND (2) FILTER(S)  EXISTING (9) ANTENNA(S), (6) RRH(S), (3) DIPLEXER(S), (2) OVP(S), AND (2) 1-5/8" HYBRID CABLE(S) TO REMAIN	SHEET NO.	DESCRIPTION	REV.	DATE	BY:
	<b>PROJECT TEAM</b>  <b>TOWER OWNER:</b> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801  <b>ENGINEER:</b> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518  <b>PROPERTY OWNER:</b> M & J AUTO RECYCLING INC 355 ROUTE 85 COLCHESTER, CT 06415	<b>PROJECT NOTES</b> 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. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001	TITLE SHEET	0	09/15/23	AP
<b>UTILITY COMPANIES</b>  POWER COMPANY: EVER SOURCE PHONE: (877) 659-6326  TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843	<b>PROJECT LOCATION DIRECTIONS</b>  FROM NEW LONDON, TAKE I 395 NORTH TO RT 2 WEST. FOLLOW RT WEST TO RT 85 SOUTH. FOLLOW RT 2 SOUTH TO DUTTON RD. TURN ON TO DUTTON RD AND ROAD GATE ON RIGHT.	C-002	GENERAL NOTES	0	09/15/23	AP	
			C-101	DETAILED SITE PLAN	0	09/15/23	AP
			C-201	TOWER ELEVATION	0	09/15/23	AP
			C-401	ANTENNA INFORMATION & SCHEDULE	0	09/15/23	AP
			C-501	CONSTRUCTION DETAILS	0	09/15/23	AP
			E-501	GROUNDING DETAILS	0	09/15/23	AP
			R-601	SUPPLEMENTAL			
			<b>CONTRACTOR PMI REQUIREMENTS</b>				
			PMI ACCESSED AT:	HTTPS://PML.VZWSMART.COM			
			SMART TOOL VENDOR PROJECT NUMBER	10208055			
			VZW LOCATION CODE (PSLC):	5000245762			
			***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT				
			MOUNT MODIFICATION REQUIRED:	YES			
			VZW APPROVED SMART KIT VENDORS	REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS			





**GENERAL CONSTRUCTION NOTES:**

1. OWNER FURNISHED MATERIALS: VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/COLOCATE ONLY)
  - B. AC/TELCO INTERFACE BOX (PFC)
  - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/COLOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING BUT NOT LIMITED TO SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER CLAD OR NY CHEMICAL GROUND RODS, BUS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE AND LOCAL CODES INCLUDING ANSI/EIA/TIA-222 AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS, DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN, SET CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON 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.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS AND AS SHOWN IN THESE PLANS.
26. 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.
27. CONTRACTOR SHALL NOTIFY VERIZON 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.
28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT. IS VISUALLY TAUT. THESE MANUFACTURER INSTALLATION SPECIFICATIONS AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. 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.
31. 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.
32. 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 REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. 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.
34. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED UP AT THE VERIZON WAREHOUSE NO LATER THAN 48-HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL AFFURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

- G. ANTENNA AND COAXIAL CABLE GROUNDING
2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPlice WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

**SPECIAL CONSTRUCTION  
ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
  - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
  - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
  - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRIZUPACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER (FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING" RECOMMENDED FOR ANTENNA AND HELIX COAXIAL CABLE SYSTEMS, DATED 10/5/23. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
  - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.




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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AP	09/15/23

ATC SITE NUMBER:  
302465  
 ATC SITE NAME:  
COLCHESTER CT 6  
 VERIZON SITE NAME:  
COLCHESTER S 2 CT  
 SITE ADDRESS:  
355 ROUTE 85  
COLCHESTER, CT 06415

SEAL:



Digitally Signed: 2023-09-15



ATC JOB NO:	14519481_G0
CUSTOMER ID:	COLCHESTER S 2 CT
CUSTOMER #:	5000245762

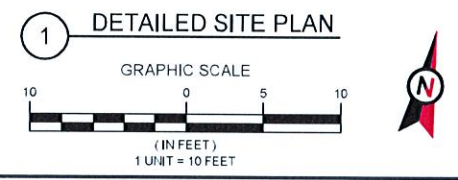
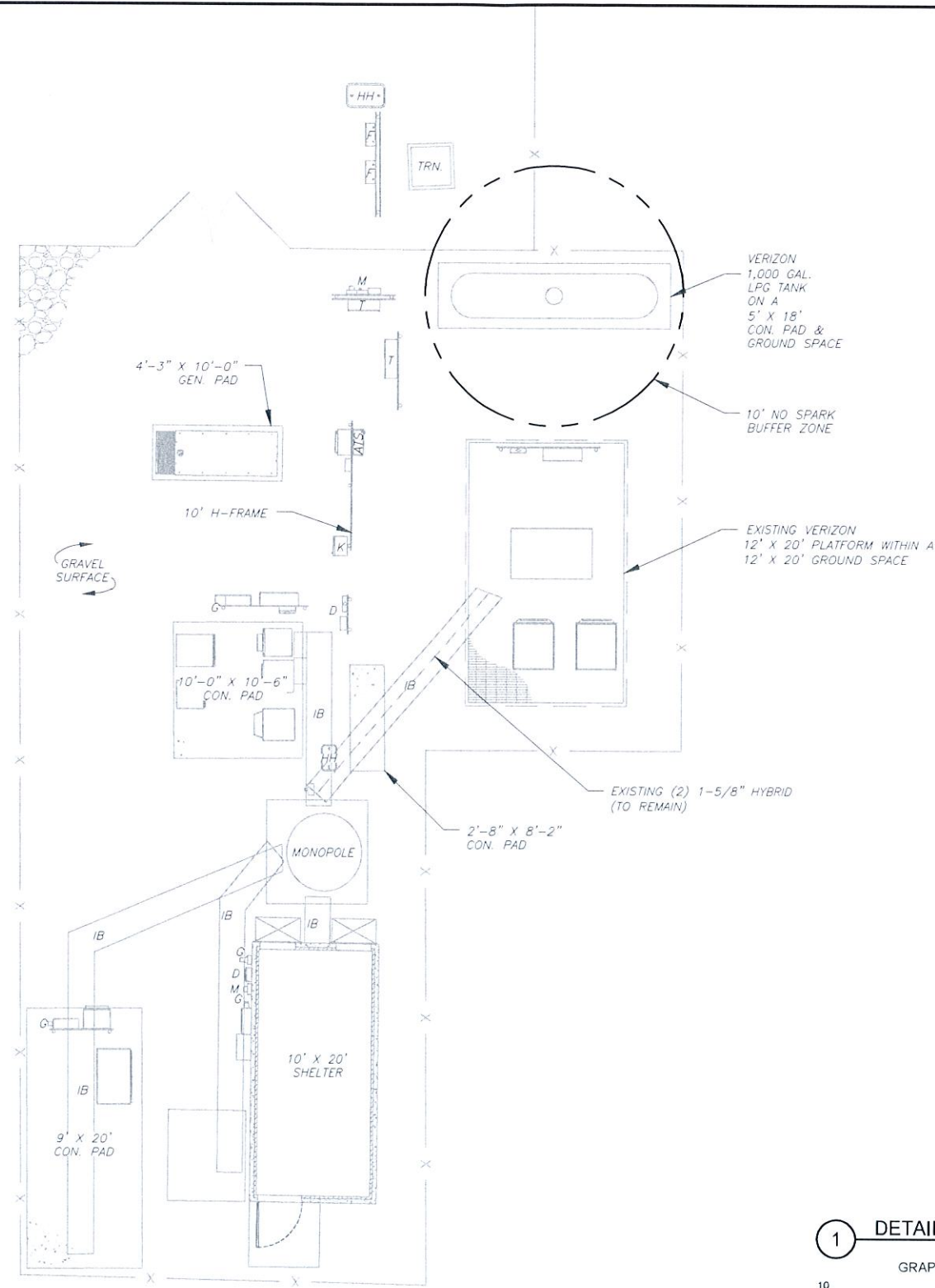
GENERAL NOTES	
SHEET NUMBER.	REVISION
G-002	0



**SITE PLAN NOTES:**

- 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.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
- - - - -	CHAINLINK FENCE

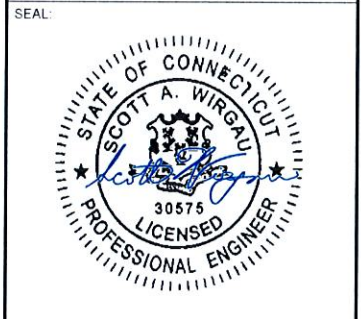



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△			
△			
△			

ATC SITE NUMBER:  
**302465**  
 ATC SITE NAME:  
**COLCHESTER CT 6**  
 VERIZON SITE NAME:  
**COLCHESTER S 2 CT**  
LEASE AREA = 100' X 100'  
 355 ROUTE 85  
 COLCHESTER, CT 06415



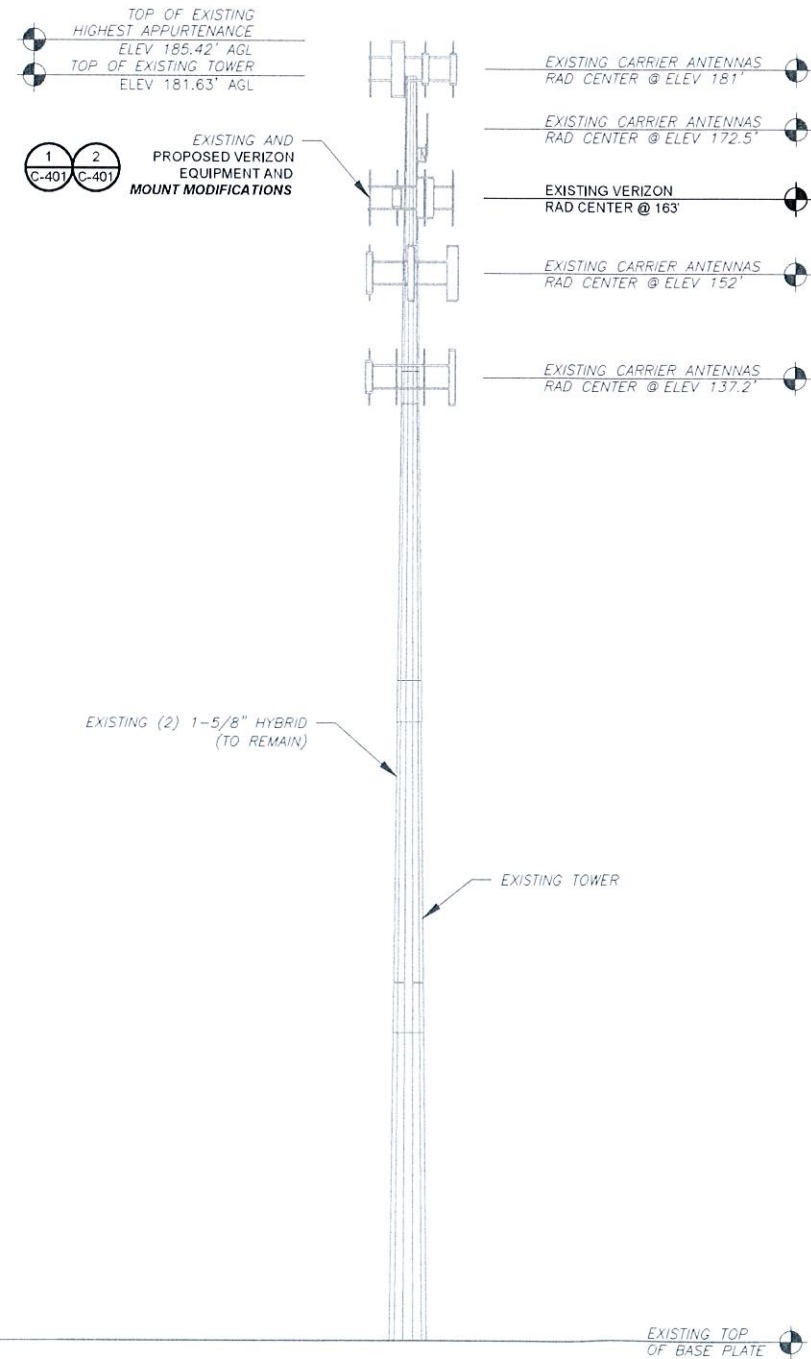
Digitally Signed: 2023-09-15



ATC JOB NO.	14519481_G0
CUSTOMER ID.	COLCHESTER S 2 CT
CUSTOMER #.	5000245762

DETAILED SITE PLAN	
SHEET NUMBER.	REVISION
<b>C-101</b>	<b>0</b>





1 TOWER ELEVATION  
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 08/02/23, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

**TOWER NOTE:**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT 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.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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0	FOR CONSTRUCTION	AP	09/15/23

ATC SITE NUMBER:  
302465  
ATC SITE NAME:  
COLCHESTER CT 6  
VERIZON SITE NAME:  
COLCHESTER S 2 CT  
SITE ADDRESS:  
355 ROUTE 85  
COLCHESTER, CT 06415



Digitally Signed: 2023-09-15

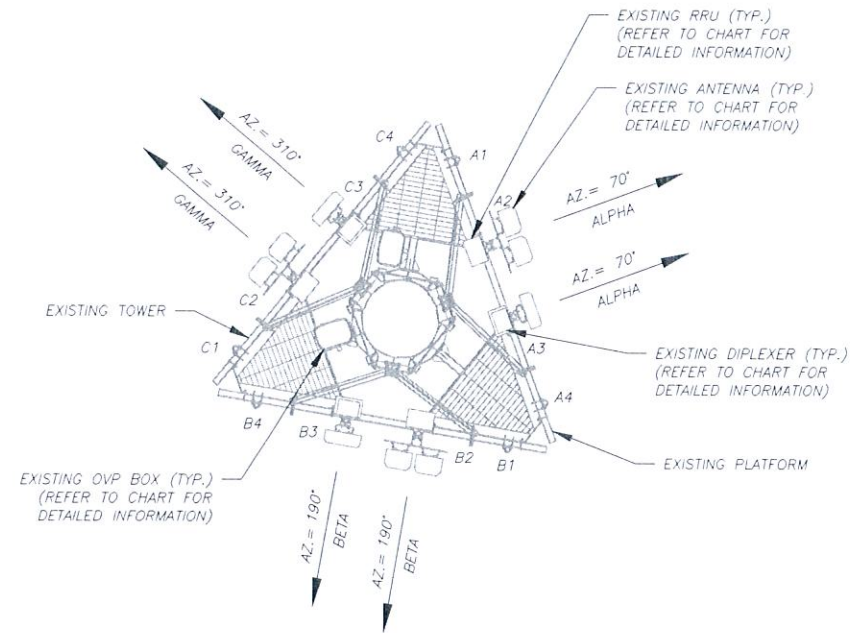
**verizon** ✓

ATC JOB NO: 14519481\_G0  
CUSTOMER ID: COLCHESTER S 2 CT  
CUSTOMER #: 5000245762

**TOWER ELEVATION**

SHEET NUMBER: C-201  
REVISION: 0

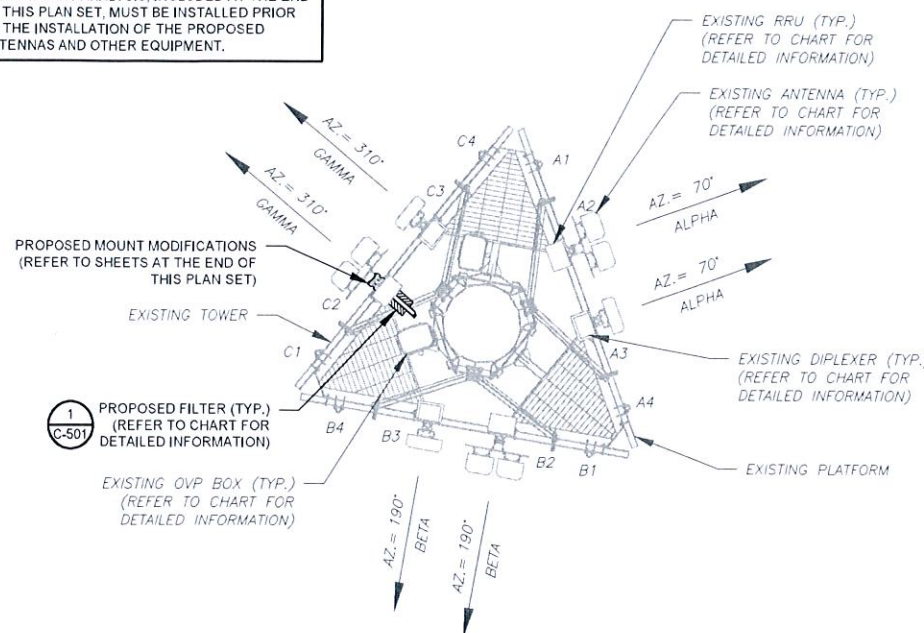




1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIER ENGINEERING & DESIGN, DATED 08/02/23, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

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

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COLCHESTER, CT 06415

SEAL:

Digitally Signed: 2023-09-15

ATC JOB NO: 14519481\_G0  
 CUSTOMER ID: COLCHESTER S 2 CT  
 CUSTOMER #: 5000245762

**ANTENNA INFORMATION & SCHEDULE**

SHEET NUMBER: **C-401**  
 REVISION: **0**

EXISTING ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	163'	70°	A1	-	-	-	-	-	-
			A2	(2) JAHH-65B-R3B	LTE	700/850/1900/AWS	RMN	B5/B13 RRH-BR04C	RMN
			A3	MT6407-77A	5G L-SUB6	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN	
			A4	-	-	-	-	-	
BETA	163'	190°	B1	-	-	-	-	-	-
			B2	(2) JAHH-65B-R3B	LTE	700/850/1900/AWS	RMN	B5/B13 RRH-BR04C	RMN
			B3	MT6407-77A	5G L-SUB6	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN	
			B4	-	-	-	-	-	
GAMMA	163'	310°	C1	-	-	-	-	-	-
			C2	(2) JAHH-65B-R3B	LTE	700/850/1900/AWS	RMN	B5/B13 RRH-BR04C	RMN
			C3	MT6407-77A	5G L-SUB6	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN	
			C4	-	-	-	-	-	

**NOTES**

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

**STATUS ABBREVIATIONS**

RMV: TO BE REMOVED  
 RMN: TO REMAIN  
 REL: TO BE RELOCATED  
 ADD: TO BE ADDED

**CABLE LENGTHS FOR JUMPERS**

JUNCTION BOX TO RRU: 15'  
 RRU TO ANTENNA: 10'

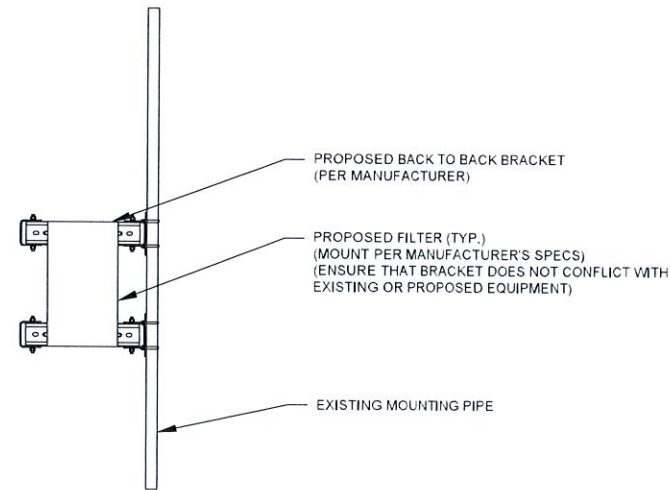
FINAL ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS	
ALPHA	163'	70°	A1	-	-	-	-	-	-
			A2	(2) JAHH-65B-R3B	LTE	700/850/1900/AWS	RMN	B5/B13 RRH-BR04C	RMN
			A3	MT6407-77A	5G L-SUB6	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN	
			A4	-	-	-	-	-	
BETA	163'	190°	B1	-	-	-	-	-	-
			B2	(2) JAHH-65B-R3B	LTE	700/850/1900/AWS	RMN	B5/B13 RRH-BR04C	RMN
			B3	MT6407-77A	5G L-SUB6	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN	
			B4	-	-	-	-	-	
GAMMA	163'	310°	C1	-	-	-	-	-	-
			C2	(2) JAHH-65B-R3B	LTE	700/850/1900/AWS	RMN	B5/B13 RRH-BR04C (2) KA-6030	RMN ADD
			C3	MT6407-77A	5G L-SUB6	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN	
			C4	-	-	-	-	-	

EXISTING FIBER DISTRIBUTION / OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(2) DB-B1-6C-12AB-0Z	RMN	(2) 1-5/8" HYBRID	RMN
-	-	-	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(2) DB-B1-6C-12AB-0Z	RMN	(2) 1-5/8" HYBRID	RMN
-	-	-	-

EXISTING PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY, REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



1 PROPOSED FILTER MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.



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SEAL:



Digitally Signed: 2023-09-15

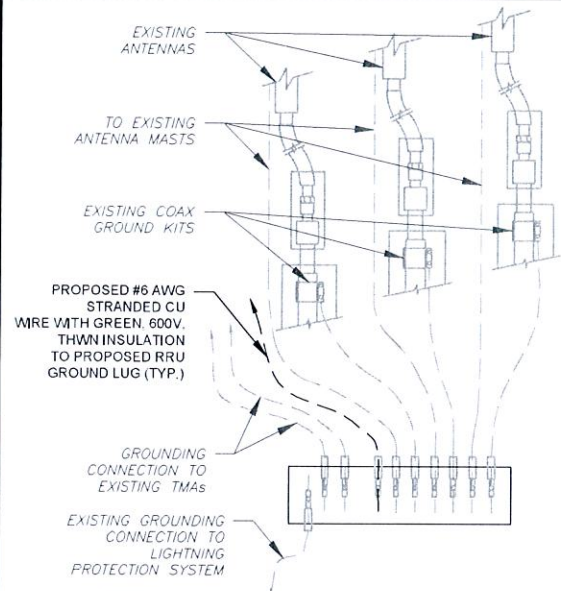


ATC JOB NO: 14519481\_G0  
 CUSTOMER ID: COLCHESTER S 2 CT  
 CUSTOMER #: 5000245762

**CONSTRUCTION  
DETAILS**

SHEET NUMBER: **C-501**      REVISION: **0**

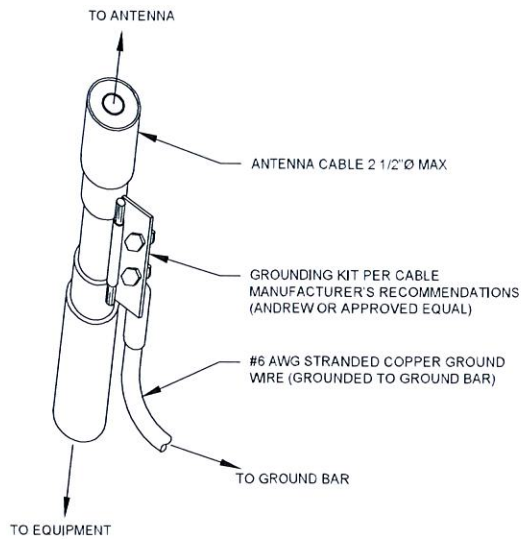




**NOTES:**

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 GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION, WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

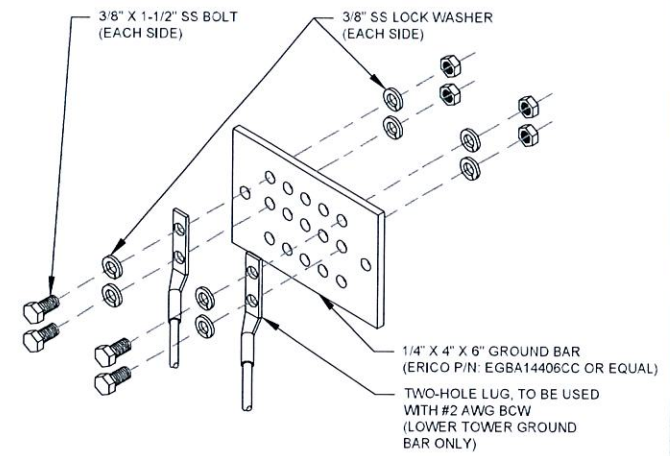
**1** TYPICAL ANTENNA GROUNDING DIAGRAM  
SCALE: N.T.S.



**GROUND KIT NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.


**2** CABLE GROUND KIT CONNECTION DETAIL  
SCALE: N.T.S.



**GROUND BAR NOTES:**

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

**3** TOWER GROUND BAR DETAIL  
SCALE: N.T.S.




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3500 REGENCY PARKWAY  
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COLCHESTER, CT 06415

SEAL:



Digitally Signed: 2023-09-15



ATC JOB NO.	14519481_G0
CUSTOMER ID:	COLCHESTER S 2 CT
CUSTOMER #:	5000245762

**GROUNDING DETAILS**

SHEET NUMBER:	REVISION
<b>E-501</b>	<b>0</b>



Colliers Engineering & Design CT, PC  
 1055 Washington Boulevard  
 Stamford, CT 06901  
 203.324.0800  
 Peter.albano@collierseng.com

Mount Structural Analysis Report  
 (1) 12.58-Ft Platform

August 2, 2023  
 Site ID: 5000245762-VZW / COLCHESTER S 2 CT -  
 ATC monopole  
 Page | 5

- Ka factors included in (EPA)a calculations

**Requirements:**

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 upon the completion of the requirements listed below.

- Contractor shall remove the existing equipment pipe to pipe in position 4 on all sectors.
- Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.
- Contractor shall inspect support rail corners and install missing U-bolts as needed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

**Attachments:**

1. Contractor Required Post Installation Inspection (PMI) Report Deliverables
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

**Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements**

Mount ReAnalysis

SMART Tool Project #: 10208055  
 Colliers Engineering & Design CT, PC Project #: 23777210

August 2, 2023

**Site Information**

Site ID: 5000245762-VZW / COLCHESTER S 2 CT  
 ATC monopole  
 Site Name: COLCHESTER S 2 CT - ATC monopole  
 Carrier Name: Verizon Wireless  
 Address: 355 Route 85  
 Colchester, Connecticut 06415  
 New London County  
 Latitude: 41.544820°  
 Longitude: -72.304891°

**Structure Information**

Tower Type: 180-Ft Monopole  
 Mount Type: 12.58-Ft Platform

FUZE ID # 17123860

**Analysis Results**

Platform: 99.4 % Pass w/ Hardware Upgrades\*

\* Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

\*\*\*Contractor PMI Requirements:  
 Included at the end of this MA report  
 Available & Submitted via portal at <https://pmi.vzsmart.com>  
 For additional questions and support, please reach out to:  
 pmisupport@colliersengineering.com

Report Prepared By: Lauren Luzier



NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: <b>R-601</b>	REVISION: <b>0</b>
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