

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

4/28/2022

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

**RE: Notice of Exempt Modification // Site: ROCKY HILL IV CT (ATC: 302479)
699 West Street Rocky Hill, CT 06067
N 41.6518 // W 72.6685**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 90-ft level on the existing 100-foot monopole tower, located at 699 West Street Rocky Hill, CT. The tower is owned by American Tower. The property is also owned by The Connecticut Light and Power Co. The Council approved Verizon Wireless use of the existing tower in 2008. Verizon Wireless now intends to remove 3 antennas and install 3 new ones for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally, Verizon Wireless will remove 6 Remote Radio Heads (RRHs) and install with 12 new RRHs, remove 1 OVPs and install with 1 new OVP, and remove (2) Non Li- Hybrid Cables and replace with (2) 6x12 1-5/8" Hybrid Cables; 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 Lisa Marotta, Mayor of Rocky Hill, its Zoning Enforcement Officer, Kim Ricci, the tower owner, American Tower, and the property owner, The Connecticut Light and Power Co.

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 9, 2021, by Dewberry Engineers, Inc., a structural analysis dated June 14, 2021, by A.T. Engineering, PLLC., and a structural mount analysis by Maser Consulting

Connecticut date July 9, 2021, 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 analysis by A.T. Engineering, PLLC, dated June 14, 2021, and a structural mount analysis by Maser Consulting Connecticut, dated July 9, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated August 9, 2021.

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,

John Coleman

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

Attachments

cc: Lisa Marotta, Mayor of Rocky Hill – Chief Elected Official
Mary Ann Chinatti, Town Planner of Plainfield - as P&Z official
American Tower Corporation - as tower owner



The Connecticut Light and Power Co. - as ground owner

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Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.

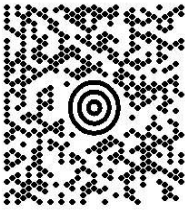
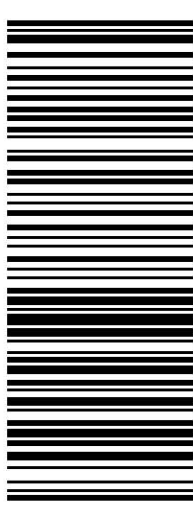
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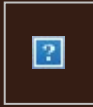
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NORTH EASTON ,MA 02356

UPS Access Point™
TOWNLINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<div>CASSANDRA ROSENKRANZ CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</div> <div>SHIP TO: MRS. MAROTTA OR KIM RICCI TOWN OF ROCKY HILL 761 OLD MAIN STREET ROCKY HILL CT 06067-1519</div>	<div>CT 061 9-02</div> <div></div> <div></div>	<div>UPS GROUND</div> <div>TRACKING #: 1Z 9Y4 503 03 0931 6700</div> <div></div>	<div>BILLING: P/P</div> <div>Reference # 1: 302479 - Rocky Hill CS 22.0.18. W/NTNV50 19.0A 05/2022*</div> <div></div>
1 OF 1	1 LBS		

From: [UPS](#)
To: [John Coleman](#)
Subject: UPS Ship Notification, Tracking Number 1Z9Y45030309316700
Date: Tuesday, May 3, 2022 1:11:58 PM



You have a package coming.

Scheduled Delivery Date: Wednesday, 05/04/2022

This message was sent to you at the request of CENTERLINE SITE ACQUISITION to notify you that the shipment information below has been transmitted to UPS. The physical package may or may not have actually been tendered to UPS for shipment. To verify the actual transit status of your shipment, click on the tracking link below.

Shipment Details

From:	CENTERLINE SITE ACQUISITION
Tracking Number:	1Z9Y45030309316700
Ship To:	Mrs. Marotta or Kim Ricci Town of Rocky Hill 761 Old Main Street ROCKY HILL, CT 060671519 US
UPS Service:	UPS GROUND
Number of Packages:	1
Scheduled Delivery:	05/04/2022
Weight:	1.0 LBS
Reference Number 1:	302479 - Rocky Hill

Discover more about UPS:

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u=http://www.ups.com/](https://link.edgepilot.com/s/8947b683/8w3wxdfOm0u7ZHZuu_z-cg?u=http://www.ups.com/)

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WEST BRIDGEWATER, MA 02379

FOLD HERE

[M] UMALI 9785687906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379	SHIP TO: LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053	5 LBS 1 OF 1
 MA 018 9-04 		
UPS GROUND TRACKING #: 1Z 9Y4 503 03 3888 3267		
		
BILLING: P/P		

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z9Y45030338883267

Weight

5.00 LBS

Service

UPS Ground

Shipped / Billed On

08/27/2021

Delivered On

10/14/2021 11:19 A.M.

Delivered To

WOBURN, MA, US

Received By

ANCRI

Left At

Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 01/26/2022 4:31 P.M. EST

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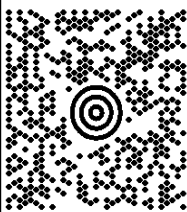
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1 OF 1


1 LBS

SHIP TO:
THE CONNECTICUT LIGHT AND POWER CO
699 WEST STREET
ROCKY HILL CT 06067-3413

MIJUMALI
9785687906
CENTERLINE COMMUNICATIONS, LLC
750 WEST CENTER STREET
WEST BRIDGEWATER MA 02379

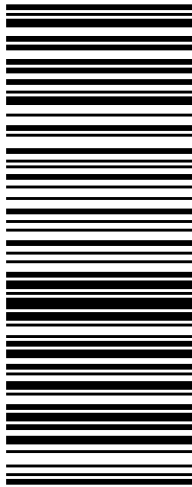


CT 061 9-02



UPS GROUND

TRACKING #: 1Z 9Y4 503 03 0563 3624



BILLING: P/P

Reference # 1: 302479
Reference # 2: Rkhl - Rocky Hill
CS22018 WNTNV50 35-0A 08/2021 *



Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1Z9Y45030305633624

Weight

1.00 LBS

Service

UPS Ground

Shipped / Billed On

08/31/2021

Delivered On

10/25/2021 9:46 A.M.

Delivered To

WEST BRIDGEWATER, MA, US

Received By

KILGALLON

Left At

Receiver

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Sincerely,

UPS

Tracking results provided by UPS: 01/27/2022 11:41 A.M. EST



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usps.com 9405 5036 9930 0149 1928 70 0087 0001 0020 6141
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01/28/2022 1 lb 0 oz Mailed from 02379

PRIORITY MAIL 2-DAY™

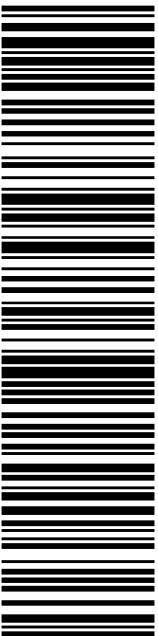
CENTERLINE COMMUNICATIONS Expected Delivery Date: 01/31/22
CENTERLINE COMMUNICATIONS LLC Ref#: 302479
750 W CENTER ST STE 301
W BRIDGEWATER MA 02379-1545
0004

B060

SHIP
TO:

THE CONNECTICUT POWER & LIGHT CO.
PO BOX 270
HARTFORD CT 06141-0270

USPS TRACKING #



9405 5036 9930 0149 1928 70

Electronic Rate Approved #038555749

Cut on dotted line.



Track Another Package +

Tracking Number: 9405503699300149192870

Remove X

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USPS Tracking Plus[™] Available ✓

✓ Delivered, PO Box

February 2, 2022 at 6:56 am
HARTFORD, CT 06141

Feedback

Get Updates ✓

Text & Email Updates	✓
Tracking History	^
<div>February 2, 2022, 6:56 am</div> <div>Delivered, PO Box</div> <div>HARTFORD, CT 06141</div> <div>Your item has been delivered and is available at a PO Box at 6:56 am on February 2, 2022 in HARTFORD, CT 06141.</div>	
<div>February 2, 2022, 6:56 am</div> <div>Arrived at Post Office</div> <div>HARTFORD, CT 06101</div>	

February 1, 2022, 9:31 pm
Departed USPS Regional Facility
SPRINGFIELD MA NETWORK DISTRIBUTION CENTER

February 1, 2022
In Transit to Next Facility

January 31, 2022, 10:42 pm
Arrived at USPS Regional Facility
SPRINGFIELD MA NETWORK DISTRIBUTION CENTER

January 31, 2022, 8:50 pm
Departed USPS Regional Facility
BOSTON MA DISTRIBUTION CENTER

January 31, 2022, 5:41 pm
Arrived at USPS Regional Origin Facility
BOSTON MA DISTRIBUTION CENTER

January 31, 2022, 4:26 pm
Accepted at USPS Origin Facility
WEST BRIDGEWATER, MA 02379

January 27, 2022
Pre-Shipment Info Sent to USPS, USPS Awaiting Item

Feedback

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Product Information



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FAQs

DOCKET NO. 151 - An application of
Springwich Cellular Limited Partnership
for a Certificate of Environmental
Compatibility and Public Need for the
construction, maintenance, and operation
of a cellular telephone telecommunications
tower, associated equipment, and building
in the Town of Rocky Hill, Connecticut.
The facility is proposed to be constructed
on property owned by the Connecticut Light
and Power Company (CL&P) located on
West Street, adjacent to the CL&P substation
at Exit 23 off Route 91.

Connecticut

Siting

Council

August 18, 1992

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact, and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a cellular telecommunications tower and equipment building at the proposed Town of Rocky Hill, Connecticut, site including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need as provided by section 16-50k of the Connecticut General Statutes (CGS), be issued to the Springwich Cellular Limited Partnership (Springwich), for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building within property owned by Connecticut Light and Power Company (CL&P), adjacent to the existing CL&P Rocky Hill Substation located on West Street, Rocky Hill, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The self-supporting monopole tower shall be no taller than necessary to provide the proposed communications service and in no event shall the tower exceed a total height of 120 feet above ground level, with antennas and appurtenances.
2. The Certificate holder shall prepare a Development and Management (D&M) plan for this site in compliance with sections 16-50-j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall include detailed plans of the tower, tower foundation, tower pedestal, equipment building, access road, utility line trench, and security fence. In addition, the D&M plan shall include detailed plans for a facility designed to occupy an area as compact as possible with techniques to minimize vegetation

clearing; a site plan orienting the facility, access road, and utilities to avoid drainage areas; and detailed plans for drainage, erosion, and sedimentation controls consistent with the Connecticut Guidelines for Erosion and Sedimentation Control. The plan shall be submitted to the Council for approval prior to the commencement of proposed clearing and construction; however, selective removal of vegetation will be allowed to permit reconnaissance necessary to prepare this plan.

3. The Certificate Holder shall comply with any existing and future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted herein shall be brought into compliance with such standards.
4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. If the facility does not initially provide, or permanently ceases to provide cellular or other services following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment shall be dismantled and removed or reapplication for any continued or new use shall be made to the Council before any such use is made.
7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

Pursuant to CGS section 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Hartford Courant.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with section 16-50j-17 of the Regulations of State Agencies.

The party and intervenor to this proceeding are:

PARTY

The Springwich Cellular
Limited Partnership
555 Long Wharf Drive
New Haven, CT 06506

ITS REPRESENTATIVE

Peter J. Tyrrell
Senior Attorney
SNET Cellular, Inc.
227 Church Street
Room 1021
New Haven, CT 06506
(203) 771-7381

INTERVENOR

Metro Mobile CTS, Inc.

ITS REPRESENTATIVE

Christopher Foster
Robinson and Cole
One Commercial Plaza
Hartford, CT 06103-3597
(203) 275-8200

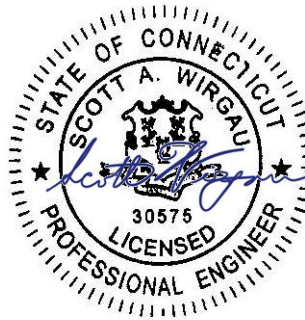
TEF/bd

6330E



Structural Analysis Report

Structure : 100 ft Monopole
ATC Site Name : Rkhl - Rocky Hill, CT
ATC Asset Number : 302479
Engineering Number : 13678056_C3_02
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : ROCKY HILL IV CT
Carrier Site Number : 535833
Site Location : 699 West Street
Rocky Hill, CT 06067-1924
41.651800,-72.668500
County : Hartford
Date : June 14, 2021
Max Usage : 76%
Result : Pass



Prepared By:
Lyle Morin
Structural Engineer I

Reviewed By:

Authorized by "EOR"
14 Jun 2021 05:52:01

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 100 ft monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	ITT Meyer Type D, AT&T Technologies #AT-8935, dated April 13, 1984 Mapping by Hightower Solutions, Project #1981, dated August 9, 2007
Foundation Drawing	SNET Site: Rocky Hill, Conn, dated November 12, 1991
Geotechnical Report	S&ME Job #1261-08-049Q, dated April 24, 2008
Modifications	ATC Engineering #40737338, dated May 5, 2008

Analysis

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

Basic Wind Speed:	118 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1 1/2" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	$S_s = 0.20$, $S_1 = 0.05$
Site Class:	D - Stiff Soil

Conclusion

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

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
105.0	3	CCI HPA-65R-BUU-H6	Platform with Handrails	(12) 1 1/4" Coax (2) 0.39" (10mm) Fiber Trunk (4) 0.78" (19.7mm) 8 AWG 6 (2) 3" conduit	AT&T MOBILITY
	12	Powerwave Allgon 7020.00 Dual Band RET			
103.0	3	Powerwave Allgon 7770.00			
	3	Quintel QS66512-2			
100.0	6	Powerwave Allgon LGP21401			
	6	Kaelus DBC0061F1V51-2			
	2	Raycap DC6-48-60-18-8F (23.5" Height)			
	3	Ericsson RRUS 32 (55.1 lbs)			
	3	Ericsson RRUS 32 B66			
	3	Ericsson RRUS 11 (Band 12)			
	3	Ericsson RRUS 32 B2			
90.0	6	Andrew SBNHH-1D65B	Low Profile Platform	(6) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Andrew LNX-6514DS-VTM			
80.0	3	RFS APXV18-206517S-C	Flush	(6) 1 5/8" Coax	METRO PCS INC

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
90.0	3	Alcatel-Lucent B25 RRH4x30	-	(6) 1 5/8" Coax	VERIZON WIRELESS
	3	Alcatel-Lucent B13 RRH4x30-4R 700U			
	3	Amphenol Antel BXA-70063-6CF-EDIN-X			
	2	RFS DB-T1-6Z-8AB-OZ			
	3	Alcatel-Lucent RRH4X45-B66 w/ Solar Shield			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
90.0	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	Low Profile Platform	-	VERIZON WIRELESS
	3	Samsung RT4401-48A			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	2	Raycap RCMD-6627-PF-48			
	3	Samsung MT6407-77A			

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
Anchor Bolts	25%	Pass
Shaft	76%	Pass
Base Plate	49%	Pass
Reinforcement	76%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	1,053.8	43%
Axial (Kips)	26.3	13%
Shear (Kips)	14.0	21%

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

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
90.0	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	VERIZON WIRELESS	0.701	0.916
	Samsung RT4401-48A			
	Samsung B5/B13 RRH-BR04C			
	Samsung B2/B66A RRH-BR049			
	Raycap RCMD-6627-PF-48			
	Samsung MT6407-77A			

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



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

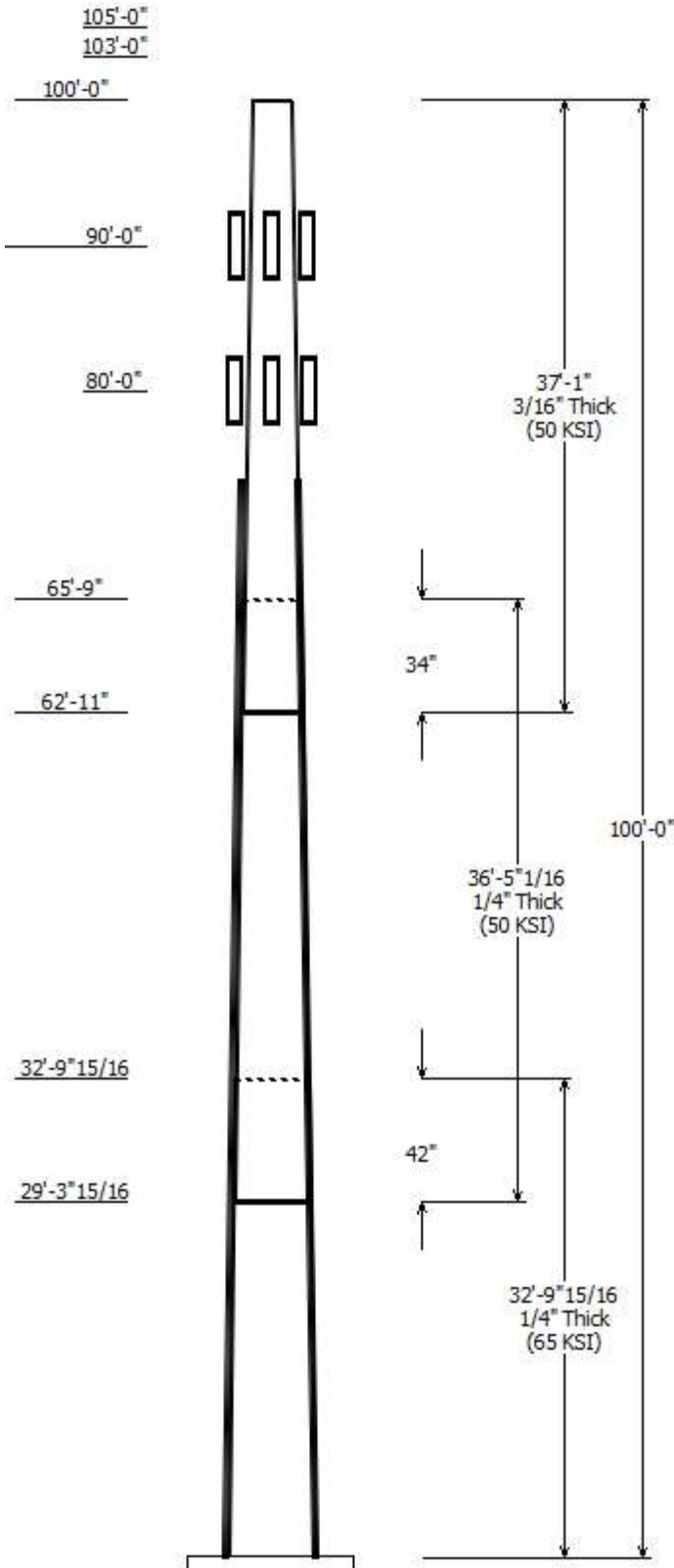
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

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.

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Job Information

Client : VERIZON WIRELESS
Pole : 302479 Code: ANSI/TIA-222-H
Location : Rkhl - Rocky Hill, CT
Description : 100 ft Monopole Risk Category : II
Shape : 12 Sides Exposure : B
Height : 100.00 (ft) Topo Method : Method 1
Base Elev (ft): 0.00 Topographic Category : 1
Taper: 0.16376@in/ft)

Sections Properties

Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Grade	
		Accross	Flats Bottom				Shape	(ksi)
1	32.830	24.62	30.00	0.250		0.000	12 Sides	65
2	36.420	19.73	25.69	0.250	Slip Joint	42.000	12 Sides	50
3	37.083	14.50	20.57	0.188	Slip Joint	34.000	12 Sides	50

Discrete Appurtenance

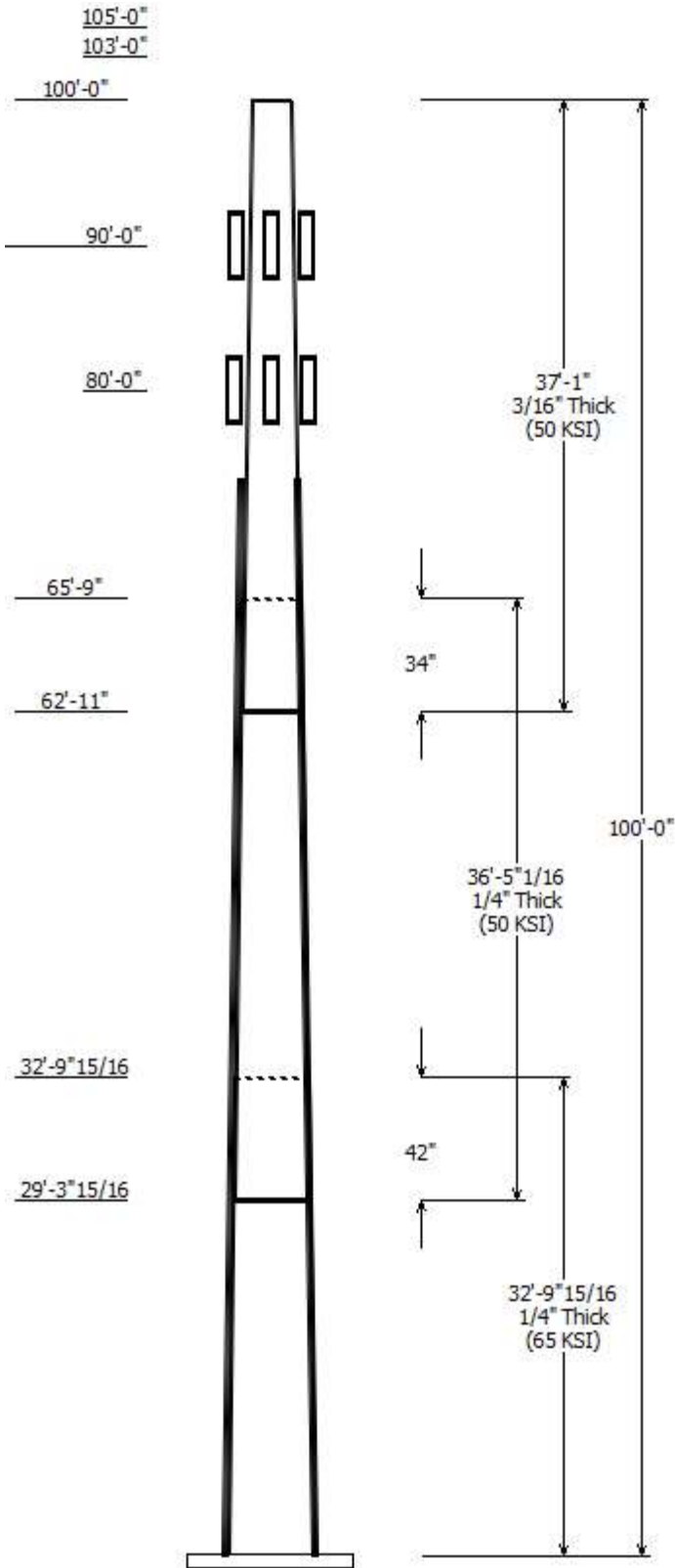
Attach Elev (ft)	Force Elev (ft)	Qty	Description
105.000	105.000	3	CCI HPA-65R-BUU-H6
105.000	105.000	12	Powerwave Allgon 7020.00
103.000	106.000	3	Quintel QS66512-2
103.000	106.000	3	Powerwave Allgon 7770.00
100.000	100.000	1	Flat Platform with Handrails
100.000	100.000	3	Ericsson RRUS 32 (55.1 lbs)
100.000	100.000	3	Ericsson RRUS 32 B66
100.000	100.000	3	Ericsson RRUS 32 B2
100.000	100.000	3	Ericsson RRUS 11 (Band 12)
100.000	100.000	2	Raycap DC6-48-60-18-8F (23.5"
100.000	100.000	6	Powerwave Allgon LGP21401
100.000	100.000	6	Kaelus DBC0061F1V51-2
90.000	90.000	1	Round Low Profile Platform
90.000	90.000	6	Andrew SBNHH-1D65B
90.000	90.000	3	Andrew LNX-6514DS-VTM
90.000	90.000	3	Samsung MT6407-77A
90.000	90.000	2	Raycap RCMDC-6627-PF-48
90.000	90.000	3	Samsung B2/B66A RRH-BR049
90.000	90.000	3	Samsung B5/B13 RRH-BR04C
90.000	90.000	3	Samsung RT4401-48A
90.000	90.000	3	Samsung Outdoor CBRS 20W
80.000	80.000	3	RFS APXV18-206517S-C

Linear Appurtenance

Elev (ft)	Description	Exposed To Wind
From To		
5.000 80.000	1 5/8" Coax	Yes
5.000 90.000	1 5/8" Coax	Yes
5.000 90.000	1 5/8" Hybriflex	Yes
5.000 100.0	0.39" (10mm)	No
5.000 100.0	0.78" (19.7mm) 8	No
5.000 100.0	3" conduit	No
5.000 103.0	1 1/4" Coax	No
0.000 78.400	Reinf.	Yes
0.000 78.400	Reinf.	Yes
0.000 78.400	Reinf.	Yes
0.000 78.400	Reinf.	Yes

Load Cases

1.2D + 1.0W 118 mph with No Ice



0.9D + 1.0W	118 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.50 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	1053.84	14.01	26.31
0.9D + 1.0W	1042.12	13.99	19.73
1.2D + 1.0Di + 1.0Wi	285.27	3.52	41.11
1.2D + 1.0Ev + 1.0Eh	73.75	0.87	26.27
0.9D - 1.0Ev + 1.0Eh	72.74	0.87	18.12
1.0D + 1.0W	242.15	3.24	21.95

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mount Laurel, NJ 08054
856.797.0412
Peter.Albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10082847
Maser Consulting Connecticut Project #: 21777941A

July 9, 2021

Site Information

Site ID: 535833-VZW / ROCKY HILL 4 CT
Site Name: ROCKY HILL 4 CT
Carrier Name: Verizon Wireless
Address: 2 West Street
Rocky Hill, Connecticut 06067
Hartford County
Latitude: 41.651764°
Longitude: -72.668472°

Structure Information

Tower Type: 107-Ft Monopole
Mount Type: 12.00-Ft Platform

FUZE ID # 16502069

Analysis Results

Platform: 41.4% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Lauren Luzier



Digitally signed by Derek Hartzell
Date: 2021.07.09 08:58:59-07'00'

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID 675027, dated May 3, 2021</i>
<i>Mount Mapping Report</i>	<i>Structural Components, Site ID: 16502069, May 4, 2021</i>
<i>Previous Mount Analysis Report</i>	<i>Maser Consulting Connecticut Project #: 21777941A, dated June 25, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut Project #: 21777941A, dated July 8, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 118 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.993
Seismic Parameters:	S_s : 0.201 S_1 : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 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
89.50	91.50	3	Samsung	MT6407-77A	Added
	90.00	3	Commscope	LNK-6514DS-A1M	Retained
		6	Andrew	SBNHH-1D65B	
		3	Samsung	B2/B66A RRH-BR049	Added
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
	88.00	3	Samsung	XXDWMM-12.5-65 - CBR5	

The recent mount mapping did not report existing OVP units. However, 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.

Model Number	Ports	AKA
RC3DC-3315-PF-48	6	OVP-6
RHSDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting 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 Maser Consulting 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 by Maser Consulting, 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. Maser Consulting 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:
 - Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting.

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Standoff Horizontal</i>	<i>15.9 %</i>	<i>Pass</i>
<i>Platform Crossmember</i>	<i>32.4 %</i>	<i>Pass</i>
<i>Dual Mount Pipe</i>	<i>24.6 %</i>	<i>Pass</i>
<i>Mount Pipe</i>	<i>30.9 %</i>	<i>Pass</i>
<i>Grating Support</i>	<i>19.8 %</i>	<i>Pass</i>
<i>Face Horizontal</i>	<i>12.2 %</i>	<i>Pass</i>
<i>Cross Arm Plate</i>	<i>41.4 %</i>	<i>Pass</i>
<i>Corner Plate</i>	<i>40.6 %</i>	<i>Pass</i>
<i>Kickers</i>	<i>8.7 %</i>	<i>Pass</i>
<i>Support Rail</i>	<i>13.4 %</i>	<i>Pass</i>
<i>Support Rail Corner</i>	<i>20.7 %</i>	<i>Pass</i>
<i>Mount Connection</i>	<i>22.2 %</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	41.4%
---	--------------

Recommendation:

The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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:

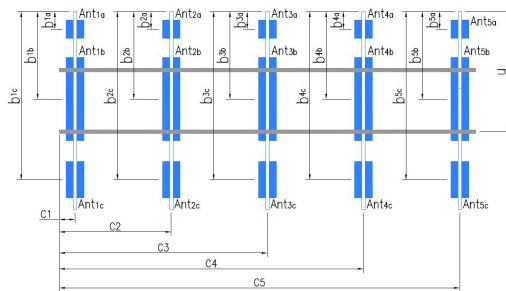
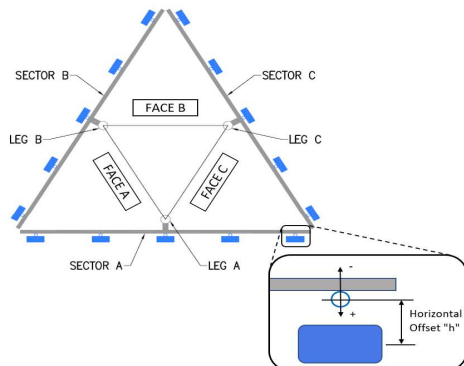
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



FCC #
1286220

Tower Owner:	American Tower	Mapping Date:	5/4/2021
Site Name:	RKHL - Rocky hill	Tower Type:	Monopole
Site Number or ID:	16502069	Tower Height (Ft.):	107
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	88

Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.



Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2-3/8x .16x 72	38.00	16.00	C1	2-3/8x .16x 72	38.50	16.00
A2	2-3/8x .16x 72	38.25	51.50	C2	2-3/8x .16x 72	38.25	51.50
A3	2-3/8x .16x 72	38.50	103.75	C3	2-3/8x .16x 72	39.00	102.75
A4	2-3/8x .16x 72	38.00	127.75	C4	2-3/8x .16x 72	38.25	126.75
A5				C5			
A6				C6			
B1	2-3/8x .16x 72	38.00	17.00	D1			
B2	2-3/8x .16x 72	38.00	52.50	D2			
B3	2-3/8x .16x 72	38.00	94.25	D3			
B4	2-3/8x .16x 72	38.25	127.25	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							44
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							59
Please enter additional information or comments below.							
Column R31 keeps changing my fractions and decimals for weld size into dates it was 3/8 inch							
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):					14.8
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount							
							8-Mar

[illegible]

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	Missing a large amount of step pegs and extremely loose step pegs in a lot of spots.	2-8&303-305
2	Safety climb was tagged out unsafe by the general manager.	306&307
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System			
If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.			Photo #
Description of Obstruction:			
Type of Light:	Photo #	Additional Comments:	
Lighting Technology:	Photo #		
Elevation (AGL) at base of light (Ft.):	Photo #		
Is a service loop available?	Photo #		
Is beacon installed on an extension?	Photo #		

Mapping Notes
<p>1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)</p> <p>2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.</p> <p>3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.</p> <p>4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.</p> <p>5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.</p> <p>6. Please measure and report the size and length of all existing antenna mounting pipes.</p> <p>7. Please measure and report the antenna information for all sectors.</p> <p>8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.</p>

Standard Conditions
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

Site Name: **ROCKY HILL 4 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	751	4	697	2788	90	0.0124	0.5007	2.47%
VZW CDMA	869	2	402	804	90	0.0036	0.5793	0.62%
VZW Cellular	869	4	826	3304	90	0.0147	0.5793	2.53%
VZW PCS	1970	4	1593	6372	90	0.0283	1.0000	2.83%
VZW AWS	2110	4	1563	6252	90	0.0278	1.0000	2.78%
VZW CBAND	3730.08	4	6531	26124	91.5	0.1122	1.0000	11.22%
VZW CBRS	3625	4	12	48	88	0.0002	1.0000	0.02%
Total Percentage of Maximum Permissible Exposure								22.47%

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

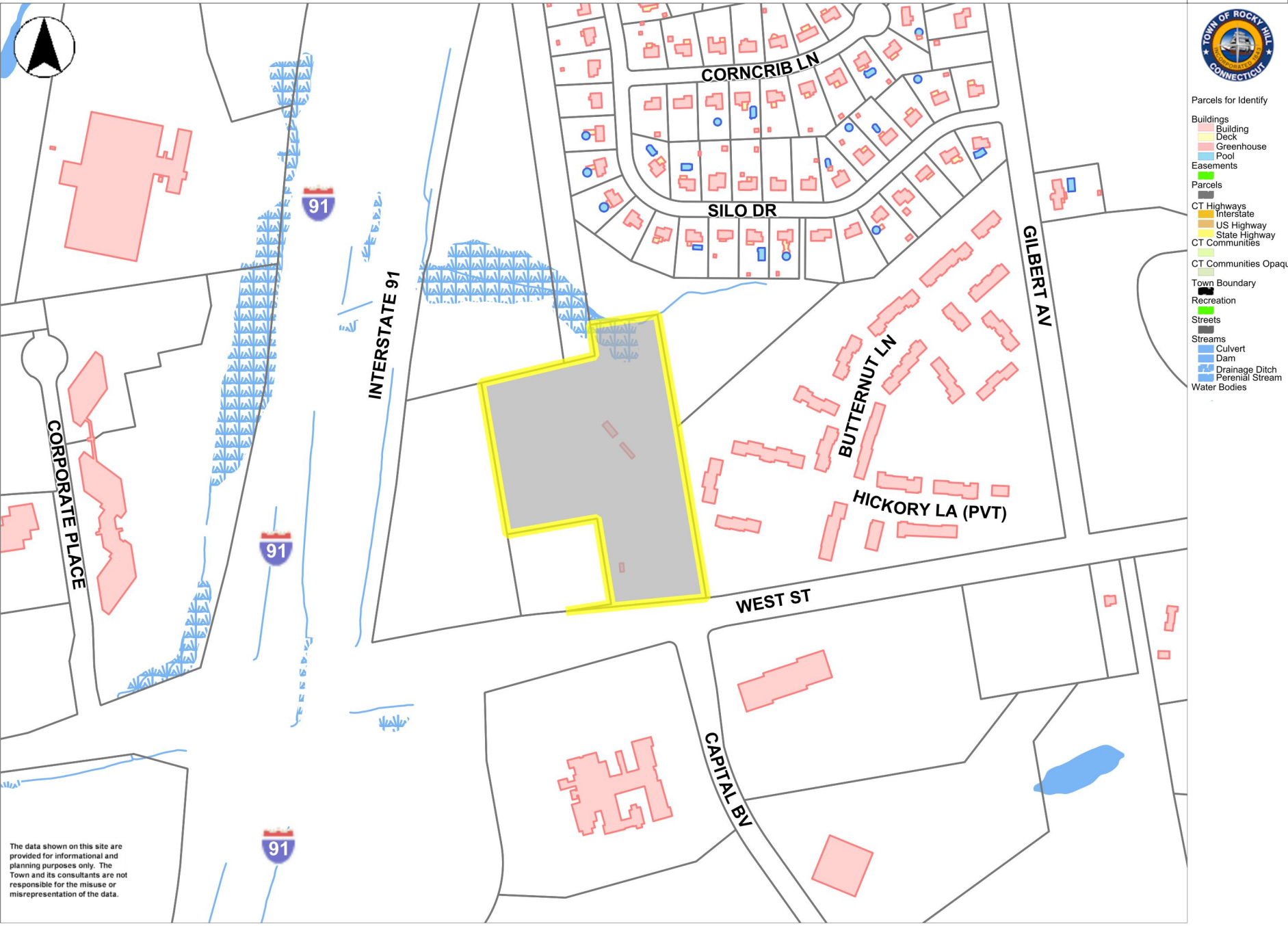
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



- Parcels for Identify
- Buildings
 - Building
 - Deck
 - Greenhouse
 - Pool
 - Easements
 - Parcels
 - CT Highways
 - Interstate
 - US Highway
 - State Highway
 - CT Communities Opaque
 - Town Boundary
 - Recreation
 - Streets
 - Streams
 - Culvert
 - Dam
 - Drainage Ditch
 - Perennial Stream
 - Water Bodies

0 550 1100 ft

Printed on 08/31/2021 at 08:00 AM

MapsOnline by PeopleGIS

Situs : 699 WEST STREET

PARCEL ID: 1181

Class: 400V

Card: 1 of 1

Printed: March 5, 2020

CURRENT OWNER

CONNECTICUT LIGHT + POWER CO THE
PO BOX 270
HARTFORD CT 06141-0270
139/448 07/01/1982

GENERAL INFORMATION

Living Units
Neighborhood I
Alternate ID 001195
Vol / Pg 139/448
Map/Lot 12-192
Zoning R-20
Class COMMERCIAL

Property Notes



12-192-001 11/05/2012

Land Information

Type	Size	Influence Factors	Influence %	Value
Primary	AC	5.0000		900,000
Excess	AC	4.9800		99,600

Total Acres: 9.98
Spot:

Location:

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	699,720	999,600	999,600	0	0
Building	143,570	205,100	205,100	0	0
Total	843,290	1,204,700	1,204,700	0	0

Manual Override Reason
Base Date of Value
Effective Date of Value
Value Flag
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
12/16/13	ST	Hearing No Change	From Conversion
01/27/09	ST	Hearing No Change	From Conversion

Permit Information

Date Issued	Number	Price	Purpose	% Complete	
04/25/18	2018-428	25,000	CM	At&T, An Existing Tenant On The I	0
01/18/17	2017-323	15,000	RE	Verizon Wireless Is Replacing Ant	0
03/07/13	2013-0266	15,000	CM	Install Antenna'S And All Related E	0
11/30/12	2013-0148	2,900	EL	Wiring For Antennas	0
09/07/12	2013-0079	20,000	CM	Replace And Wire Anttenas On Ex	0

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee
07/01/82		Vacant - Land Only Sale	No Consideration	139/448	No Consideration	CONNECTICUT LIGHT + POWER CO THE

Inspection Witnessed By _____

Situs : 699 WEST STREET

Parcel Id: 1181

Class: 400V

Card: 1 of 1

Printed: March 5, 2020

Building Information		Building Other Features															
Year Built/Eff Year	/	Line	Type	+/-	Meas1	Meas2	# Stops	Ident	Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident	Units
Building #																	
Structure Type																	
Identical Units																	
Total Units																	
Grade																	
# Covered Parking																	
# Uncovered Parking																	
DBA																	

Interior/Exterior Information														
Line	Level From - To	Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional

Interior/Exterior Valuation Detail						Outbuilding Data									
Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD	Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy Fun	Value
						1	Frame Shed	2003			1	312	A	G	3,280
						2	Miscellane	2018			1	1	C	G	
						3	Tower Cell	2008			1	150	C	G	198,000
						4	Frame Shed	2003			1	360	A	G	3,780

Situs : 699 WEST STREET	Parcel Id: 1181	Class: 400V	Card: 1 of 1	Printed: March 5, 2020
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Additional Property Photos

Situs : 699 WEST STREET	Parcel Id: 1181	Class: 400V	Card: 1 of 1	Printed: March 5, 2020
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Income Detail (Includes all Buildings on Parcel)																	
Use Mod Grp Type	Inc Mod Description	Model	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

Apartment Detail - Building 1 of 1								Building Cost Detail - Building 1 of 1			
Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income				
								Total Gross Building Area			
								Replace, Cost New Less Depr			
								Percent Complete			
								Number of Identical Units			
								Economic Condition Factor			
								Final Building Value			
								Value per SF			

Notes - Building 1 of 1								Income Summary (Includes all Building on Parcel)			
								Total Gross Rent Area			
								Total Gross Building Area			