

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

January 12, 2023

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **EM-VER-136-211209 – Cellco Partnership d/b/a Verizon Wireless
Telecommunications Facility, 5 Exeter Drive, Sterling, Connecticut**

Completion of Construction

Dear Ms. Bachman:

The purpose of this letter is to notify the Siting Council that construction activity associated with the above-referenced facility modification has been completed.

As required by the Council's approval, attached is a letter from ProTerra Design Group, LLC dated December 16, 2022, verifying that the facility modifications were completed in accordance with the November 9, 2021 Mount Analysis Report by Master Consulting.

If you have any questions or need any additional information regarding this facility, please do not hesitate to contact me.

Sincerely,



Kenneth C. Baldwin

Attachment

Copy to:

Aleksey Tyurin

Final Report of Inspections

Project: *Verizon Equipment Upgrade Project on an existing Monopole*
Site Name: **Sterling CT** (Location Code: **468461**; Fuze ID: **16281619**)

Building Permit No. *22-011*
CSC Reference No. *EM-VER-136-211209*

Site Address: *7 Exeter Drive*
Sterling, CT 06377

Owner: *Verizon*

Owner's Address: *20 Alexander Drive, 2nd Floor*
Wallingford, CT 06492

Tower Owner: *SBA Communications*

Tower Owner Site ID: *CT11560*

Engineer of Record: *Jesse Moreno, P.E.*
ProTerra Design Group, LLC

The review of the project consisted of a general visual inspection from ground level of completed construction by representatives of ProTerra Design Group, LLC and a review of contractor closeout photos. To our knowledge no special testing or special inspection is required for the scope of work as shown in the drawings.

Based on my knowledge, information and belief the completed construction substantially conforms to the approved plans, Connecticut State Building Code, Structural Standards for Steel Antenna Towers and Antenna Supporting Systems (ANSI/TIA/EIA-222-G), the equipment manufacturer's installation guidelines, and the following:

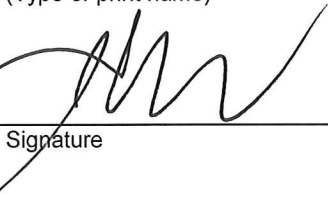
1. Final Construction Drawings prepared by ProTerra Design Group, LLC dated December 06, 2021.
2. Passing Mount Analysis and Mount Modification Drawings prepared by Maser Consulting P.C. dated November 10, 2021.
3. Passing Structural Analysis prepared by Tower Engineering Solutions dated November 18, 2021.

All deviations from the approved plans do not endanger the intended occupancy of the facility and equipment substitutions are approved as equivalent to the original specifications. Construction has been satisfactorily completed.

The following field inspection report(s) and documentation form a basis for our determination and are to be considered an integral part of this final report.

Respectfully submitted,
ProTerra Design Group, LLC

Jesse Moreno, P.E.
(Type or print name)


Signature

12-16-2022
Date





PREPARED BY:

ProTerra Design Group, LLC
 4 Bay Road
 Building A; Suite 200
 Hadley, MA 01035

SUBMITTED TO:

Kyle Collins
 Building Official
 Town Hall
 1183 Plainfield Pike
 P.O. Box 157, Oneco, CT
 06373-0157

FIELD INSPECTION REPORT			
INSPECTION DATE	November 29,2022	JOB NO.	17-017
REPORT ISSUE DATE	REVISION	COMMENTS	
December 16, 2022	0	Field Inspection Report	
PROJECT Verizon Wireless Upgrade Building Permit #: 22-011 CSC reference number: EM-VER-136-211209 Site ID: 468461 Fuze ID: 16281619 Site Name: Sterling CT Site Address: 7 Exeter Drive Sterling, CT 06377			
CONTRACTOR		EQUIPMENT OWNER	
KMM Corp.		Verizon	
PRESENT AT SITE		ORGANIZATION	
Stephen Holt		ProTerra Design Group, LLC	

Pursuant to the 2018 Connecticut State Building Code, (IBC 2015 with amendments) the following report documents a visual inspection from ground level of completed construction for general conformance with the construction drawings prepared by ProTerra Design Group, LLC issued December 06, 2021, (Rev5) for the above referenced project.

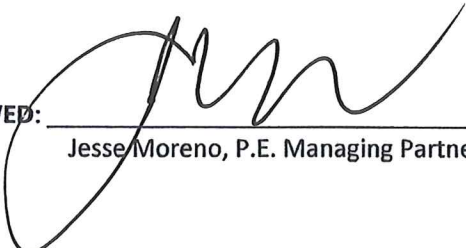
- 1) Existing Verizon panel antennas were removed (3 antennas removed per sector, 9 total).
- 2) Three (3) existing Verizon panel antennas, (1 per sector) were relocated from position 2 to position 4.
- 3) Verizon panel antennas installed, Typ. of 2 per sector (6 total) were installed onto dual-mounting brackets.
- 4) Verizon MT6407-77A antennas have been installed, typ. of 1 per sector (3 total).
- 5) Six (6) total dual-band RRH's, (2) per sector were installed to the back side of the antenna mounting pipes. The RRH's were installed above the handrail, the placement was reviewed and approved in the PMI report by others responsible for the mount analysis.
- 6) Three (3) new diplexers installed behind the dual-mounted antennas as shown in the construction drawings.
- 7) Three (3) existing coax cables removed in general conformance with the construction drawings and structural analysis. Nine (9) existing coax cables remain installed on site. Two (2) 6x12 Hybrid cables have been installed following the same cable route in accordance with the construction drawings.
- 8) A new mounting pipe was installed for the surge suppressor on the standoff arm. One (1) surge suppressor (OVP) was installed to the new mounting pipe per plan.

- 9) Mount modifications have been completed in general conformance with the mount analysis, (mount analysis and post modification mount review by others). Modifications include, replacing three antenna mounting pipes, installing a handrail kit, and installing support bracing for the handrail kit.
- 10) A Post Modification Inspection, (PMI) review has been completed by Maser Consulting dated November 18, 2022 which found in their opinion, that the equipment installation and any required mount modifications have been satisfactorily completed.

The comments in this field report are a record of observations made on site. If there are any errors or omissions please notify ProTerra Design Group, LLC in writing or all comments and all parties shall consider this report factual and acceptable.

COPIES TO: File

SUBMITTED: 
Peter Nute, Project Engineer

REVIEWED: 
Jesse Moreno, P.E. Managing Partner



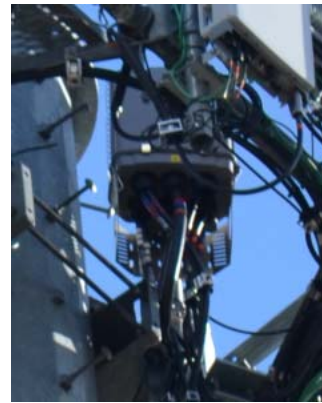
Overall Verizon antenna array



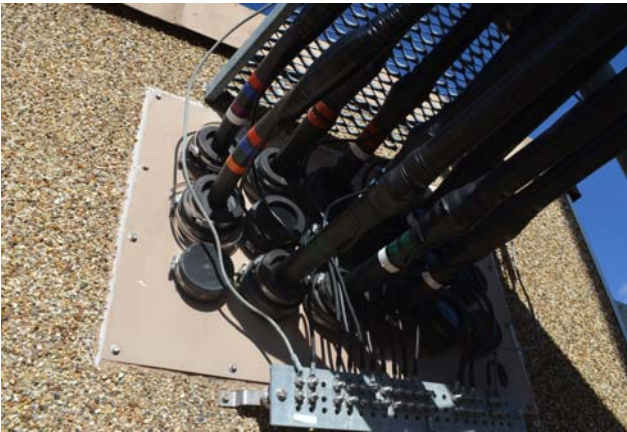
Diplexer installed behind dual-mounted antennas



RRH's mounted behind antennas



Surge suppressor installed on new pipe mount



Cabling at entry port



Maser Consulting Connecticut
20 Alexander Drive, 2nd Floor
Wallingford, CT 06492
860.395.0055
peter.albano@collierseng.com

Antenna Mount Post-Modification Inspection Report

PMI

SMART Tool Project #: 10094584
Maser Consulting Connecticut Project #: 21777642A

November 18, 2022

Site Information

Site ID: 468461-VZW / STERLING CT
Site Name: STERLING CT
Carrier Name: Verizon Wireless
Address: 5 Exeter Drive
Sterling, Connecticut 06377
Windham County
Latitude: 41.714028°
Longitude: -71.822722°

Structure Information

Tower Type: 140-Ft Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 16281619

Inspection Result: Pass

Report Prepared By: Frank Centone

Executive Summary:

The objective of this report is to confirm that the proposed **mount** modification has been completed in accordance with the **proposed mount modification documents referenced** below. Maser Consulting Connecticut did not visit the site and was not present during construction.

Based on our review of the provided modification photos **and documents**, it is our opinion that the modification **has been completed** in accordance with the **proposed mount modification documents**.

Project Closeout Documents:

Document Type	Remarks
<i>Proposed Mount Modification</i>	<i>Maser Consulting Connecticut, Project #: 21777642A, Dated November 9, 2021</i>
<i>* Signed PMI Requirements Checklist</i>	<i>Provided by KMM Telecommunications, Dated November 16, 2022</i>
<i>Contractor As-Built Drawings</i>	<i>Provided by ProTerra Design Group, LLC., Dated December 6, 2021</i>
<i>* Modification Photos</i>	<i>Provided by KMM Telecommunications, Dated November 16, 2022</i>
<i>Material Packing List/Invoice</i>	<i>Provided by Site Pro 1, Dated June 224, 2022</i>

** Documents & Photos Required from Contractor.*

Post-Modification Inspection Summary:

Modifications:

Antenna:

- Install (6) JAHH-65B-R3B antenna, (2) per sector
- Install (3) MT6407-77A antenna, (1) per sector
- Install (3) CBC diplexer, (1) per sector
- Install (3) B2/B66A radio, (1) per sector
- Install (3) B5/B13 radio, (1) per sector
- Install (3) BXA-70063-6CF-2 antenna, (1) per sector
- Install (1) 6627 OVP, standoff

Steel:

- Install (1) support rail above the existing face horizontal
- Install (3) support rail bracing kits, (1) per sector
- Replace the position 3 mount pipe of all sectors
- Install (1) equipment pipe between Beta & Gamma sector
- Relocate all mount pipes in Beta sector to be evenly spaced

Deviations:

Antenna:

- Radios installed above support rail instead of below - **Approved**

Steel:

- N/A

Comments: Deviations are approved and will not affect the results of this analysis

Additional Information:

Contractor certifies that the climbing facility / safety climb was not damaged during installation:

Yes No N/A

Contractor did provide climbing facility / safety climb photos. Existing safety climb issue to be corrected during the next install (See Page 3)









Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to
pmisupport@colliersengineering.com

PSLC#: 468461

SMART Project #: 10090848

Fuze Project ID: 16281619

Purpose – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- If installation of the modification will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- Photos taken at ground level
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation of the modifications.
 - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
 - If the materials are as specified on the drawings
 - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
 - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
 - If seeking permission to use an equivalent
 - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- All hardware has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.

OR

- The material utilized was approved by a SMART Tool engineering vendor as an "equivalent" and this approval is included as part of the contractor submission.

Antenna & Equipment Placement and Geometry Confirmation:

- The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Comments:

Was the mount modification completed in conjunction with the equipment change / installation?

Yes No

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

- Install new 36" long P2.0 STD pipe on the existing standoff horizontal member between Beta & Gamma sector for new OVP
- connect to standoff using crossover plates (Site Pro 1 Part #: SQCX4-K or EOR approved equivalent).
- Contractor shall re-tension existing safety climb as required.
- Antenna mount pipes in Beta sector to be relocated so that they are evenly spaced. Contractor to provide photos confirming the new mount pipe spacing

Response:

Special Instruction Confirmation:

The contractor has read and acknowledges the above special instructions.

Comments:

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition

Safety Climb Damaged

Comments:

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Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Structure: 468461-VZW - STERLING CT

Sector: **A**
 Structure Type: Monopole
 Mount Elev: 136.00

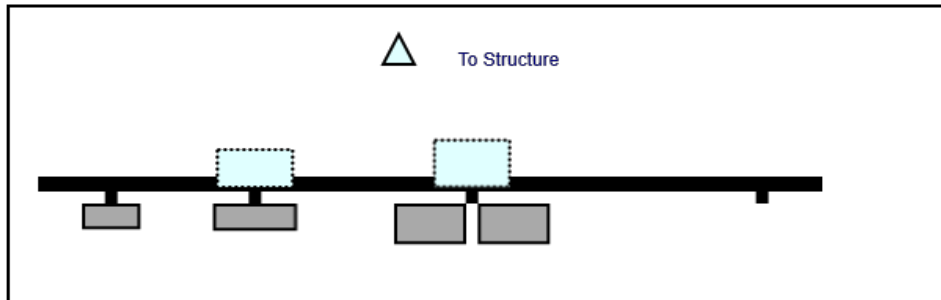
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8/9/2021

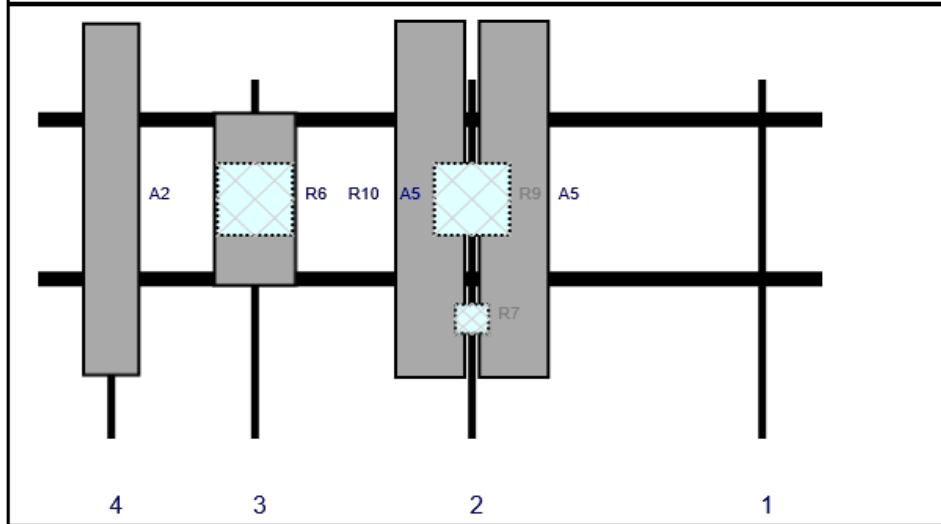
Page: 1



Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	JAHH-65B-R3B	72	13.8	83	2	a	Front	24	8	Added	
A5	JAHH-65B-R3B	72	13.8	83	2	b	Front	24	-8	Added	
R7	CBC78T-DS-43-2X	6.4	6.9	83	2	a	Behind	48	0	Added	
R9	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	83	2	a	Behind	24	0	Added	
R6	MT6407-77A	35.1	16.1	41.5	3	a	Front	24	0	Added	
R10	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	41.5	3	a	Behind	24	0	Added	
A2	BXA-70063-6CF-2	71	11.2	14	4	a	Front	24	0	Added	

Structure: 468461-VZW - STERLING CT

Sector: **B**
 Structure Type: Monopole
 Mount Elev: 136.00

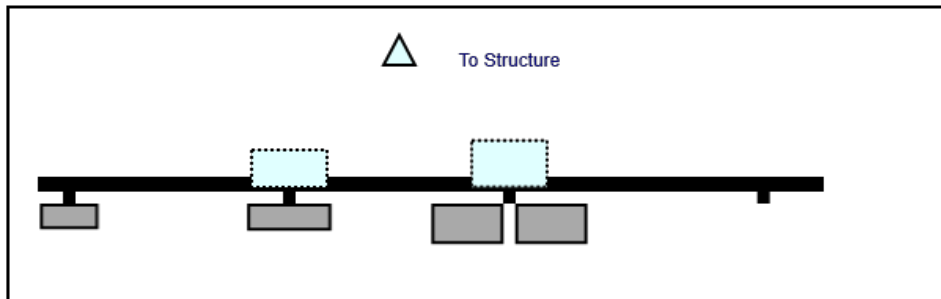
10090848

8/9/2021

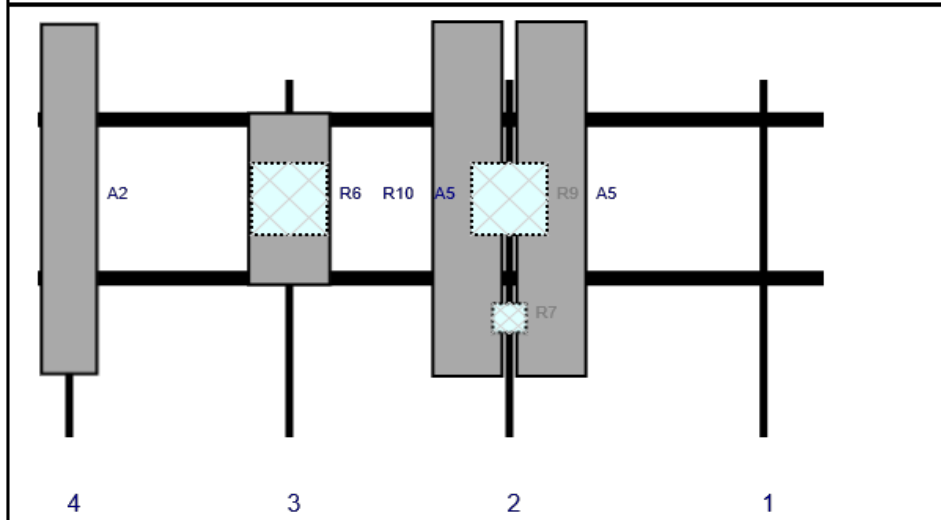
Page: 2



Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	JAHH-65B-R3B	72	13.8	90	2	a	Front	24	8	Added	
A5	JAHH-65B-R3B	72	13.8	90	2	b	Front	24	-8	Added	
R7	CBC78T-DS-43-2X	6.4	6.9	90	2	a	Behind	48	0	Added	
R9	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	90	2	a	Behind	24	0	Added	
R6	MT6407-77A	35.1	16.1	48	3	a	Front	24	0	Added	
R10	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	48	3	a	Behind	24	0	Added	
A2	BXA-70063-6CF-2	71	11.2	6	4	a	Front	24	0	Added	

Structure: 468461-VZW - STERLING CT

Sector: C
 Structure Type: Monopole
 Mount Elev: 136.00

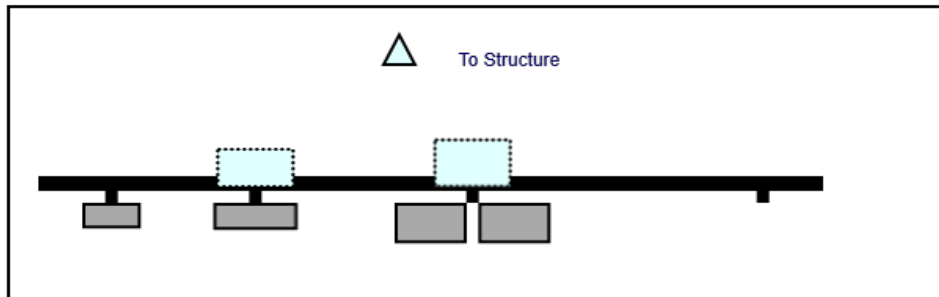
10090848

8/9/2021

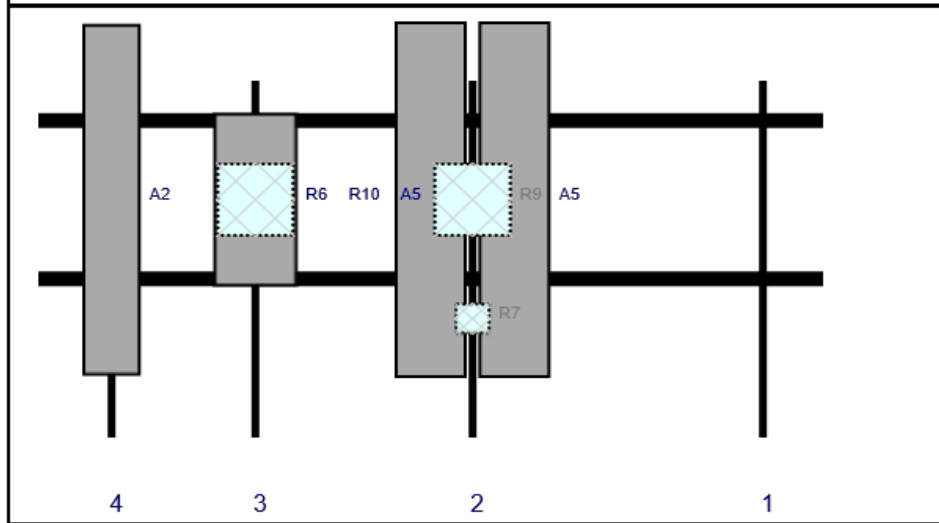
Page: 3



Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	JAHH-65B-R3B	72	13.8	83	2	a	Front	24	8	Added	
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R10	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	41.5	3	a	Behind	24	0	Added	
A2	BXA-70063-6CF-2	71	11.2	14	4	a	Front	24	0	Added	

TOWN OF STERLING
 1183 PLAINFIELD PIKE, POB 157, ONEGO, CT 06373
 OFFICE OF THE BUILDING OFFICIAL
 BUILDING PERMIT APPLICATION

Permit #: 22-011

- 1 Project Address: 5 KESTER DRIVE
 FOR OFF-TOWN TRUCKER DRIVE
- 2 Owner: TOWN OF STERLING CT Map 3842 Block 017 Lot F216
- 3 Owner's Address: P.O. BOX 157, ONEGO, CT 06373 Phone #:
- 4 Applicant: CHUCK BAVITOMARCO Phone #:
- 5 Applicant Address: 58 VALLEY VIEW DRIVE, FARMINGTON, CT 06030
- 6 Contractor: KMM TELECOMMUNICATIONS CORP Phone #: 508-579-4376
- 7 Contractor Address: 1900 LAKEWAY DRIVE, SALEM, MO, LAWRENCE, MO 64505
- 8 License/Registration #: MCC 1903851 Maria Conn Exp. Date: 6/30/22 Workers Comp
- 9 Electrician: N/A Phone #: N/A Workers Comp
- 10 Electrician License #: N/A Exp. Date: N/A Workers Comp
- 11 Plumber: N/A Phone #: N/A Workers Comp
- 12 Plumber License #: N/A Exp. Date: N/A Workers Comp
- 13 HVAC Contractor: N/A Phone #: N/A Workers Comp
- 14 HVAC Contractor License #: N/A Exp. Date: N/A Workers Comp
- 15 Concrete Supplier: N/A Concrete Installer: N/A
- 16 Type of Sewage - Private N/A Public N/A 17. Type of Water - Private N/A Public N/A
- 18 Driveway Bond (if required): N/A

19 Project Description: REMOVING NINE (9) ANTENNAS AND REPAIRING THEM (10) ANTENNAS, REMOVING ONE (1) RW AND REMAINING W/ SIX (6) RW, ADDING ONE (1) OPT BROW THRU (3) DISTRIBUTORS, AND TWO (2) HYBRID CABLES

- 20 Plans Attached
- 21 ESTIMATED COST OF PROJECT: \$ 75,000
- 22 Other Details: Floor Area: First Floor: _____ Second Floor: _____ Other: _____
- 23 Type of Heat: Hot Water: _____ Hot Air: _____ Steam: _____ Electric: _____ Wood: _____ Gas: _____ Oil: _____
- 24 Type of Work: New Construction: _____ Addition: _____ Alteration: _____ Repair: _____ Demolition: _____
- 25 Wetlands Approval: If prior approval/wetlands permit has been issued, please provide the following:
- 26 Original Owner's name/Name of Sub-division: _____
- 27 Wetlands Application # and Date of Approval: _____

WETLANDS AGENT:
 Approved: _____ Date: _____

ZONING AGENT:
 Approved: _____ Date: _____

TAX COLLECTOR:
 Approved: Suzanne Setaur Date: 2-8-2022

BUILDING OFFICIAL:
 Approved: Kyle Collins Date: 2/3/22

FEES: (for office use)	
Wetlands fee:	
Zoning fee:	
Est. Cost of Project:	
minus	1,000.00
subtotal	
divided by	1,000.00
subtotal	
times \$10.26/K fee	10.26
subtotal	
plus min fee	35.00
subtotal	
Total Fee	<u>\$794.24</u>

The Owner of this Building and the undersigned agree to conform to all applicable State of Connecticut Building Codes and the laws of this jurisdiction and to notify the Building Official of any changes in plans for which this permit is issued.

Signature of Applicant: [Signature] Dated: 02/03/22

Please post a copy of this in a conspicuous place or window for the duration of the project

Date Received: 2-7-2022 Receipt #: 8027 Check #: 9095 Cash: _____