

KENNETH C. BALDWIN

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Also admitted in Massachusetts  
and New York

April 29, 2025

*Via Electronic and U.S. Mail*

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

**Re: Notice of Exempt Modification - Bridgewater Fair  
110 Main Street South, Bridgewater, Connecticut  
Temporary Telecommunications Facility**

Dear Attorney Bachman:

Pursuant to R.C.S.A. Section 16-50j-72(d), this letter will serve as notice that Cellco Partnership d/b/a Verizon Wireless (“Cellco”) intends to install a temporary wireless facility (a/k/a “Cell on Wheels” or “COW”) on property at 11 Main Street South in Bridgewater, Connecticut (the “Property”) for use during the 2025 Bridgewater Fair, August 15-17, 2025. Cellco intends to install the COW on August 4, 2025 and remove it from the Property on August 19, 2025.

Cellco intends to install the COW in a grassy area adjacent to a residential structure on the Property. The Property is owned by the Bridgewater Fire Department. Included in Attachment 1 is a letter from the Bridgewater Fire Department authorizing the filing of this notice. In accordance with R.C.S.A. Section 16-50j-73, a copy of this filing has also been sent to Curtis Read, Bridgewater’s First Selectman, Meg Khare, Bridgewater’s Land Use Coordinator, and the property owner, the Bridgewater Fire Department, Inc.

The COW that Cellco intends to install at the Property is a trailer-mounted wireless facility with a retractable mast extending to a height of 45 feet above ground level (“AGL”).

32007506-v1

# Robinson+Cole

Melanie A. Bachman, Esq.  
April 29, 2025  
Page 2

Cellco will attach seven (7) panel antennas to the mast, four (4) at a centerline height of 35 feet AGL and three (3) at a centerline height of 29 feet AGL. The COW will be powered by a portable generator. Included in Attachment 2 is a Lease Exhibit showing the proposed COW and specifications for the antennas and radios that Cellco intends to use at the Property.

The proposed temporary telecommunications facility satisfies the criteria set forth in R.C.S.A. Section 16-50j-72(d), as a facility that will provide temporary wireless services for an event of State-wide significance. The COW will provide additional network capacity to accommodate increased wireless voice and data services needed during the fair.

The operation of the COW will not result in a total radio frequency (RF) emissions level that exceed the Federal Communications Commission (FCC) safety standard. Included in Attachment 3 are Far Field Approximation Tables for the frequencies Cellco intends to deploy at this temporary facility. These tables demonstrate that the temporary facility will operate well within the FCC standards.

Finally, in Attachment 4 is a copy of the Town Assessor's parcel map including owner information for the Property. A Certificate of Mailing verifying that this filing was sent to municipal officials and the Property owner is included in Attachment 5.

Based on the foregoing, Cellco respectfully requests acknowledgement of this notice for the installation of a temporary wireless facility at the Property. Please feel free to contact me if you have any questions or need any additional information.

Sincerely,



Kenneth C. Baldwin

## Attachments

### Copy to:

Curtis Read, First Selectman  
Meg Khare, Land Use Coordinator  
Bridgewater Fire Department, Inc.  
Daniel Fitzpatrick, Verizon Wireless  
Mark Brauer, RF Engineer  
Brian Ross, Structure Consulting

# **ATTACHMENT 1**

THE BRIDGEWATER FIRE DEPARTMENT, INC  
100 Main Street South  
Bridgewater, CT 06752

**RE: Evidence of Agreement and Landowner's Consent to File for  
Permits/Approvals to be Granted to Celco Partnership d/b/a Verizon  
Wireless**

To Whom It May Concern:

The Bridgewater Fire Department, Inc is the owner of certain real property located in the Town of Bridgewater at 110 Main Street South and identified as Map/Block 35/38 on the tax map of the Town of Bridgewater ("Subject Property").

Please be advised that The Bridgewater Fire Department, Inc has entered into an agreement with Celco Partnership d/b/a Verizon Wireless ("Applicant") to install a temporary wireless communications facility on a portion of the Subject Property, and permission is hereby granted to Applicant to make application for Building, Zoning, Planning, or any other Land Use or Regulatory Permit(s) required to effectuate the installation of said wireless facility.

The Applicant, or its agent, is hereby authorized to execute the required application(s) regarding this matter. Permission is also hereby granted for public officials and Board, Commission or Council members, as required, to enter upon the Subject Property for the limited purpose of inspecting the specific site and access that are the subject of Applicant's proposed installation.

Sincerely,

THE BRIDGEWATER FIRE DEPARTMENT, INC

By: 

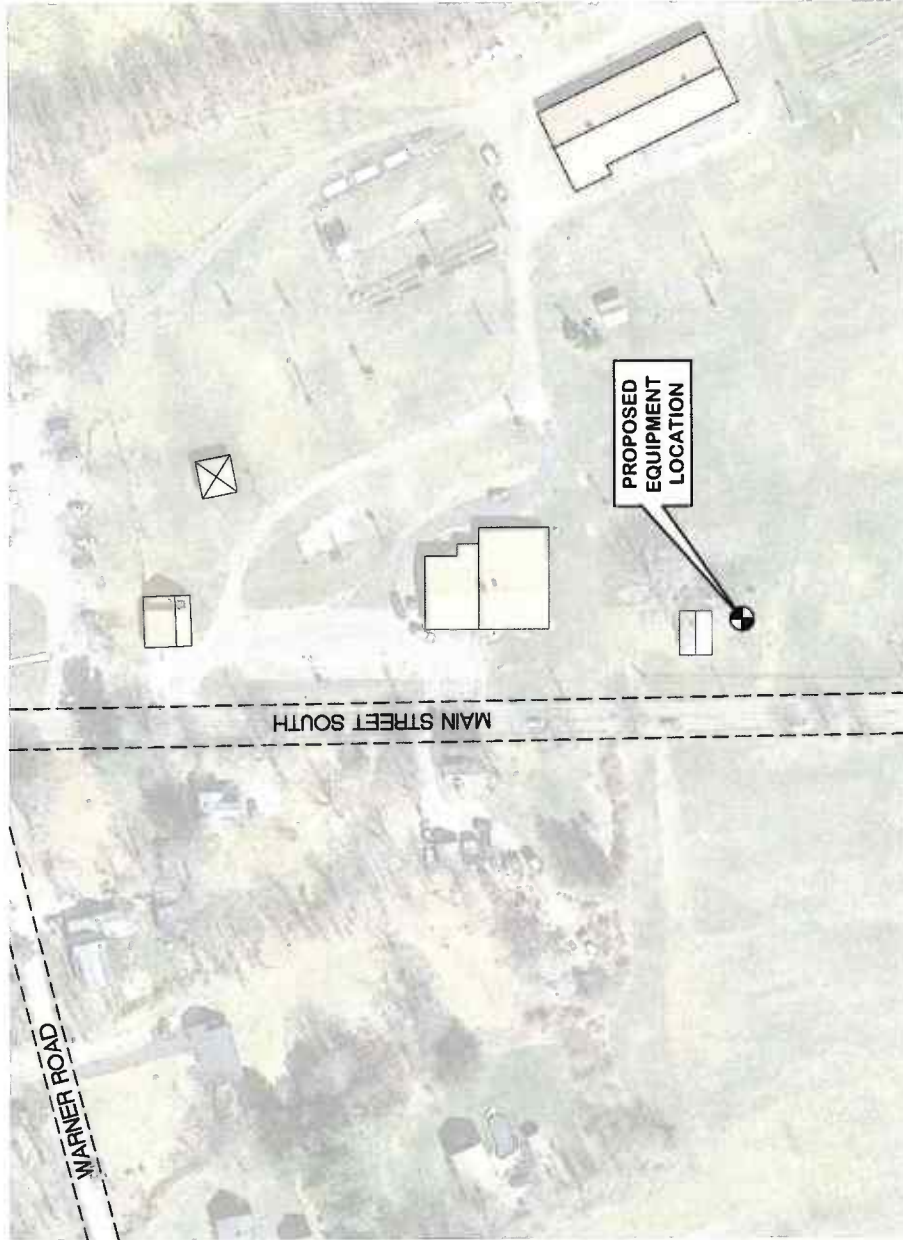
Name: Eric Gsell  
Title: Fair chairman  
Date: 4/9/2025

# **ATTACHMENT 2**

PRELIM. SITE COORDINATES: 41° 31' 50.02"N  
73° 21' 53.71"W  
GROUND ELEVATION: 676.50'± A.M.S.L.  
COORDINATES AND GROUND ELEVATION REFERENCED  
FROM FAA 2C SURVEY, PREPARED BY CENTEK  
ENGINEERING, DATED 07/19/2023.

# LEASE EXHIBIT

THIS LEASE PLAN IS DIAGRAMMATIC IN NATURE  
AND IS INTENDED TO PROVIDE GENERAL  
INFORMATION REGARDING THE LOCATION AND  
SIZE OF THE PROPOSED LESSEE WIRELESS  
COMMUNICATION FACILITY. THE SITE LAYOUT WILL  
BE FINALIZED UPON COMPLETION OF SITE  
SURVEY AND FACILITY DESIGN.



1 SITE LOCATION MAP  
L-1  
SCALE: NOT TO SCALE

REV	DATE	BY	CHKD BY	DESCRIPTION
A	04/17/23	SP	JAN	LEASE EXHIBIT - ISSUED FOR CLIENT REVIEW



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**Colco Partnership d/b/a Verizon Wireless**  
**BRIDGEWATER FAIR**  
**COW CT 2025**  
**110 MAIN STREET SOUTH**  
**BRIDGEWATER, CT 06752**

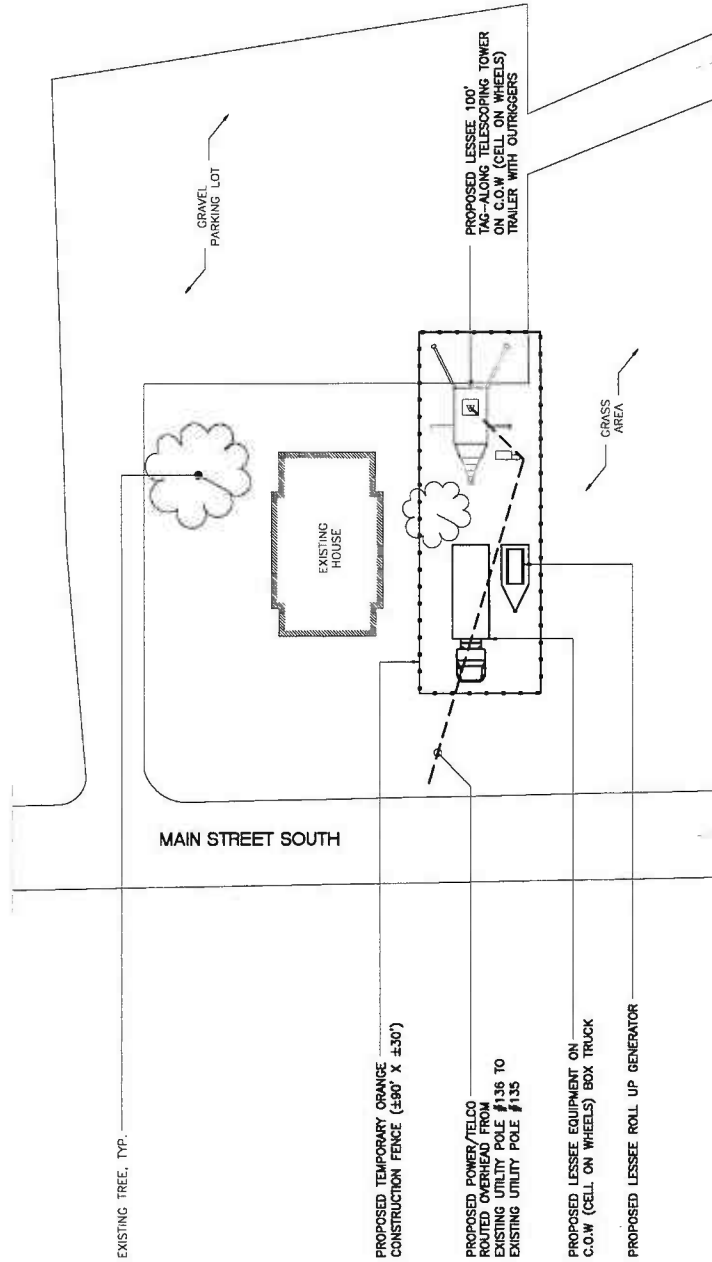
SHEET NO.  
**L-1**

**SCOPE OF WORK NOTES:**

1. THE PROPOSED LESSEE ANTENNA INSTALLATION TO CONSIST OF A TOTAL OF (7) PANEL ANTENNAS, ASSOCIATED RRH APPURTENANCES & CABLING, CABLING TO FOLLOW EXISTING ROUTING PATH.
2. LESSEE POWER AND TELCO UTILITIES SHALL BE ROUTED FROM EXISTING DEMARCS LOCATED WITHIN OR ADJACENT TO THE PROPOSED COMMUNICATIONS FACILITY.
3. THE PROPOSED LESSEE GROUND INSTALLATION TO CONSIST OF A ROLL-UP GENERATOR, CELL ON WHEELS BOX TRUCK, AND A CELL ON WHEELS 100' TAG-ALONG TELESCOPING TOWER WITH OUTRIGGERS SURROUNDED BY A TEMPORARY ORANGE CONSTRUCTION FENCE.

**LEASE EXHIBIT**

THIS LEASE PLAN IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED LESSEE WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF SITE SURVEY AND FACILITY DESIGN.



1  
L-2  
PROPOSED PARTIAL SITE PLAN  
SCALE: 1" = 30'-0"  
NORTH

REV	DATE	BY	CHKD	APP'D	DESCRIPTION
1	04/17/23	SPB	TJR		LEASE EXHIBIT - ISSUED FOR CLIENT REVIEW

INTERNATIONAL STANDARD 1001

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Colco Partnership d/b/a Verizon Wireless  
BRIDGEWATER FAIR  
COW CT 2025  
110 MAIN STREET SOUTH  
BRIDGEWATER, CT 06752  
DATE: 04/17/23  
SCALE: AS SHOWN  
JOB NO. 2023-010

SHEET NO.  
**L-2**

REV	DATE	BY	CHKD	DESCRIPTION
A	04/17/23	SPB	TAB	LEASE EXHIBIT - ISSUED FOR CLIENT REVIEW

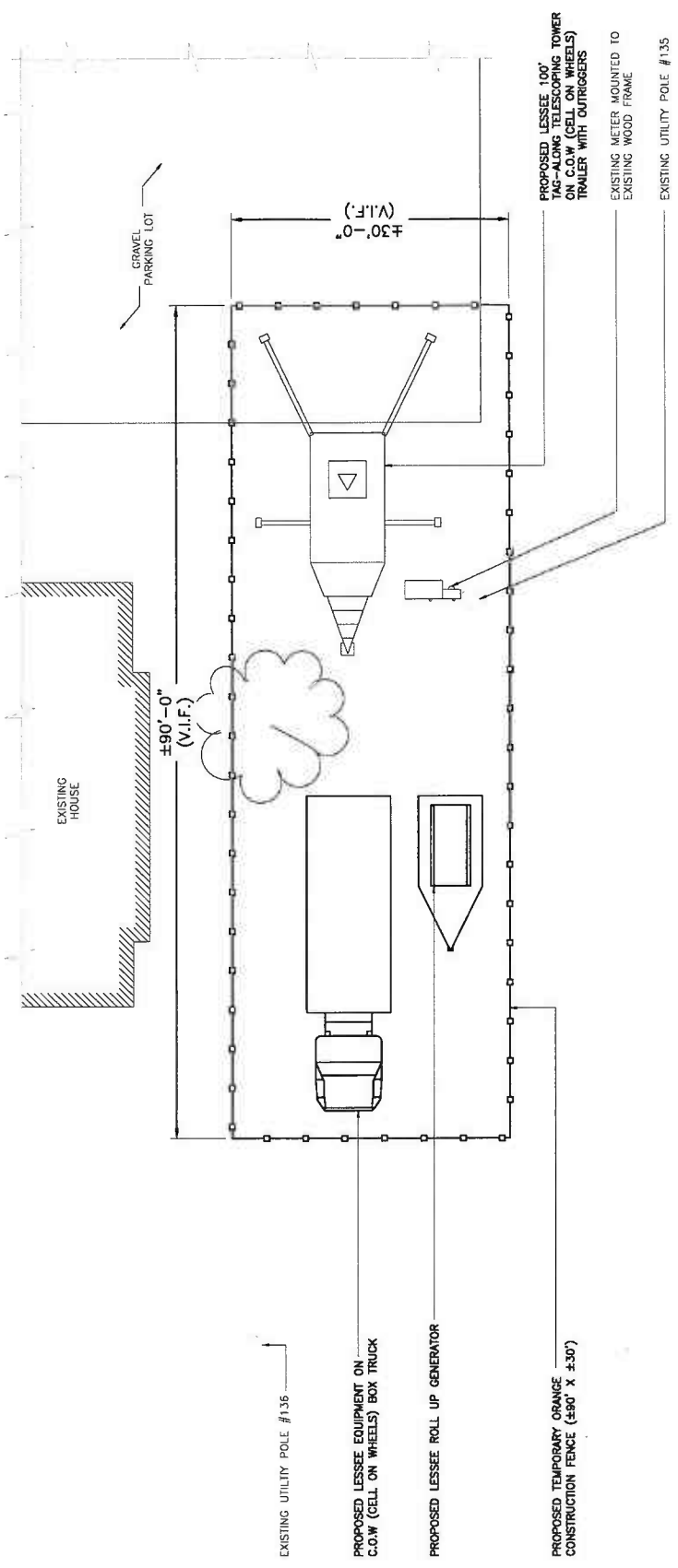


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**Colco Partnership d/b/a Vertzon Wireless**  
 BRIDGEWATER FAIR  
 COW CT 2025  
 110 MAIN STREET SOUTH  
 BRIDGEWATER, CT 06752

SHEET NO.  
**L-3**

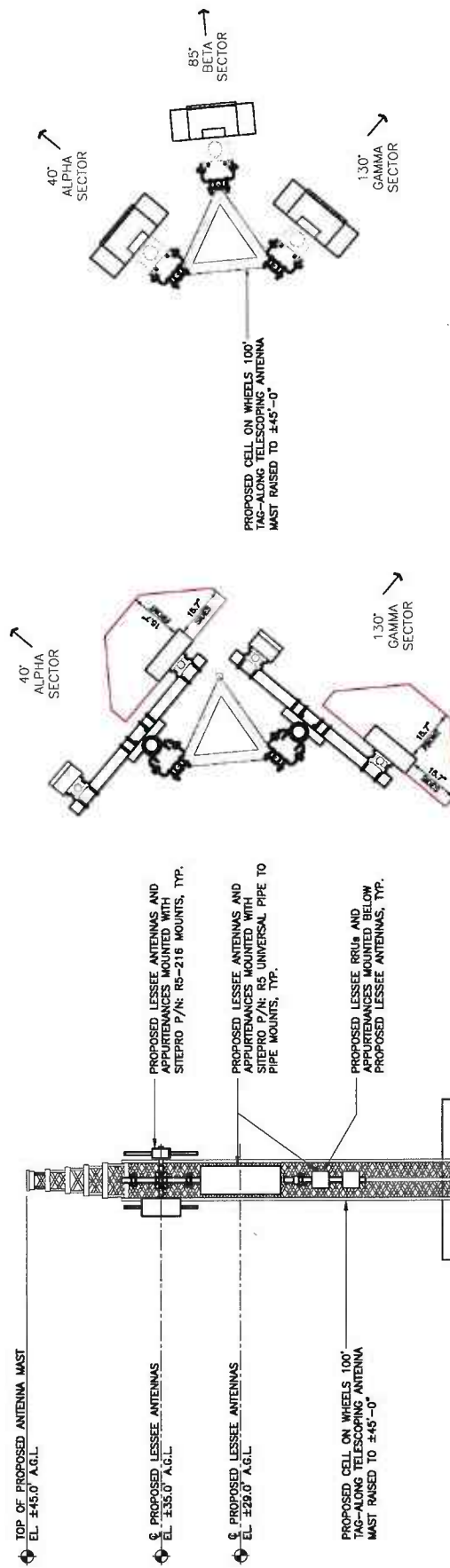
**LEASE EXHIBIT**  
 THIS LEASE PLAN IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED LESSEE WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF SITE SURVEY AND FACILITY DESIGN.



**1**  
**L-3**  
**PROPOSED EQUIPMENT PLAN**  
 SCALE: 1" = 12'-0"  
 NORTH



THIS LEASE PLAN IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED LESSEE WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF SITE SURVEY AND FACILITY DESIGN.



1 PROPOSED ANTENNA MAST ELEVATION  
L-4 SCALE: 1" = 8'-0"

2 **PROPOSED ANTENNA PLAN** 

L-4 SCALE: 3/8" = 1'-0" RAD CENTER - 35' NORTH

3 **PROPOSED ANTENNA PLAN**  NORTH

L-4 SCALE: 3/8" = 1'-0" RAD CENTER - 29'

[illegible]

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<b>Celco Partnership d/b/a Verizon Wireless</b>	<b>BRIDGEGWATER FAIR COW CT 2025 110 MAIN STREET SOUTH BRIDGEGWATER, CT 06752</b>
<b>SALUD</b>	<b>04/17/17 04:04</b>
<b>NOV 2016</b>	<b>AES</b>
<b>CT 7100000</b>	<b>CT 7100000</b>

SHEET NO.  
 L-4

**SAMSUNG**

# **SAMSUNG C-Band 64T64R Massive MIMO Radio**

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S.

Model Code: MT6407-77A



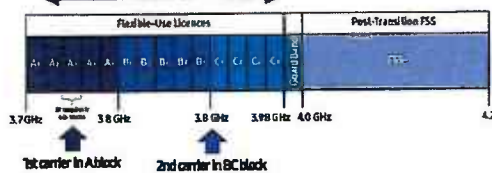
## Points of Differentiation

### Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

C-Band spectrum supported by Massive MIMO Radio



### Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

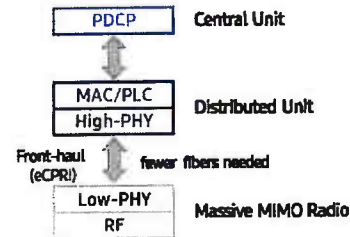
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



### Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



### Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



## Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs

# SAMSUNG

## **About Samsung Electronics Co., Ltd.**

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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# NHH-45A-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 45° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x Rx or 4x MIMO
- Separate RS-485 RET input/output for low and high band

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Copper   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 3

# NHH-45A-R2B

Internal RET	High band (1)   Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)


## Dimensions

Width	457 mm   17.992 in
Depth	178 mm   7.008 in
Length	1220 mm   48.032 in
Net Weight, without mounting kit	21 kg   46.297 lb

## Array Layout

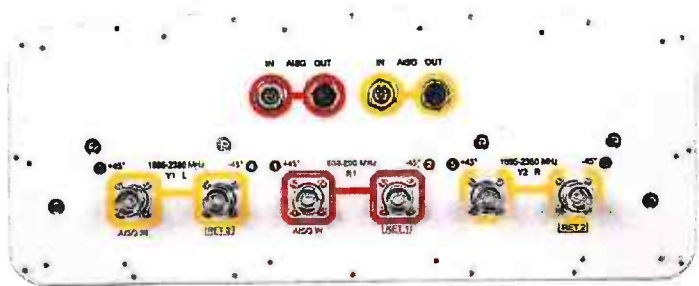
Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxR1
Y1	1695-2360	3 - 4	2	AISG2	CPxxxxxxxxxxxxY1
Y2	1695-2360	5 - 6			

(Sizes of colored boxes are not true depictions of array sizes)



## Port Configuration

# NHH-45A-R2B



## Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz   698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	600 W @ 50 °C

## Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	15.5	16.2	18.3	19	19.2	20
Beamwidth, Horizontal, degrees	48	44	44	44	43	39
Beamwidth, Vertical, degrees	18.5	16.8	7.9	7.3	6.8	6
Beam Tilt, degrees	2–18	2–18	1–9	1–9	1–9	1–9
USLS (First Lobe), dB	16	17	17	16	15	15
Front-to-Back Ratio at 180°, dB	32	33	36	36	36	35
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	25
VSWR   Return loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0

# NHH-45A-R2B

<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	250	250	250	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15.1	15.9	17.9	18.7	19	19.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.4	±0.6	±0.4	±0.3	±0.4
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±1.8	±3	±1.9	±1.3	±2.1	±1.6
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1	±0.9	±0.3	±0.3	±0.5	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	22	12	13	14	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	24	24	27	29	30	30
<b>CPR at Boresight, dB</b>	24	25	15	18	19	20
<b>CPR at Sector, dB</b>	18	17	11	13	15	16

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	135.0 N @ 150 km/h (30.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	595.0 N @ 150 km/h (133.8 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h   149.75 mph

## Packaging and Weights

<b>Width, packed</b>	563 mm   22.165 in
<b>Depth, packed</b>	355 mm   13.976 in
<b>Length, packed</b>	1393 mm   54.843 in
<b>Weight, gross</b>	32.1 kg   70.768 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



# NHH-45A-R2B

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REACH-SVHC

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)

ROHS

Compliant/Exempted

UK-ROHS

Compliant/Exempted



## Included Products

BSAMNT-3

- Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

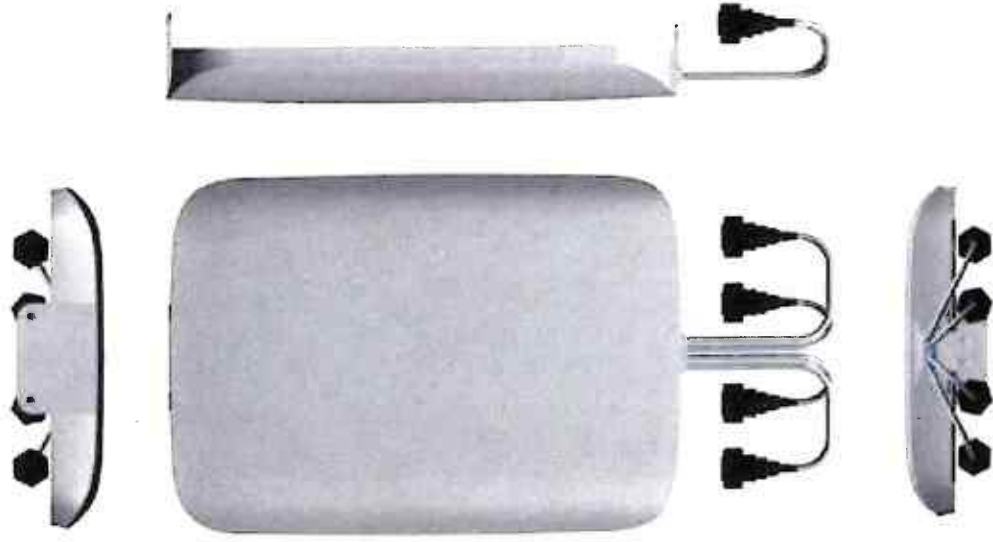
## \* Footnotes

### Performance Note

Severe environmental conditions may degrade optimum performance

# [CBRS] Clip-on Antenna Specifications

VzW accepted IP45 in FLD, but IP55 is Samsung Spec.

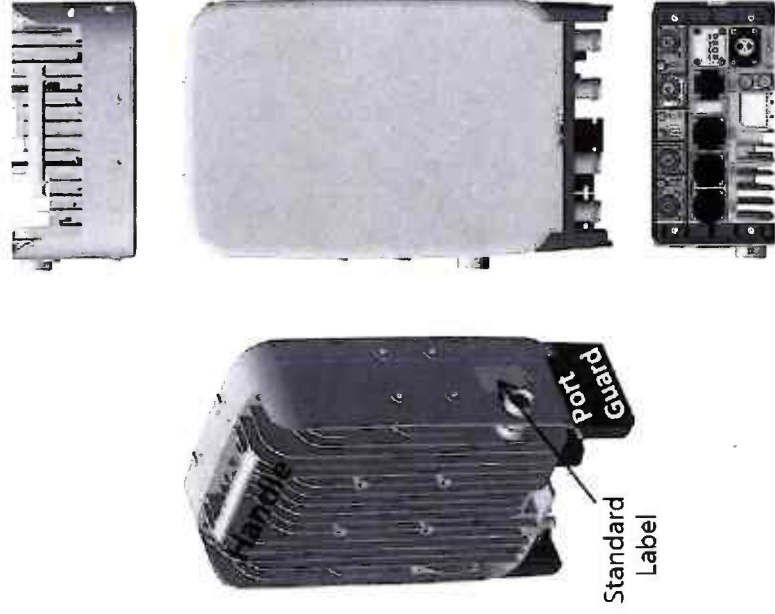


Antenna includes integrated cable with connector  
 ★ Design is subject to minor change

Items	Clip-on Antenna, <b>BASTA**</b>
Antenna Gain	12.5 ± 0.5 dBi (Max 13 dBi)
Horizontal BW (-3dB)	65° ± 5°
Vertical BW (-3dB)	17° ± 3°
Electrical Tilt	8° (fixed) ± 2°
Front-to-Back Ratio	> 25 dB
Port-to-Port Tracking	< 3 dB
VSWR	< 1.5
Isolation	> 25 dB
<b>Ingress Protection</b>	<b>IP55</b>
Size	220(W) × 313(H) × 34.3(D) mm (*) (8.7 x 12.3 x 1.4 inch.)
Weight	< 2.0 kg [Typ. 1.3 kg]
It is required that the radio should be weatherproofed properly with JMA WPS Boot with external antenna or with Weatherproof Boot for clip-on antennas.	

\*\* Ant. spec. follows NGMN recommendations on Base Station Antenna Standards (BASTA). For example, 'mean ± tolerance of 86.6%' is applied to double-sided specification of statistical RF parameters.

# [CBRS RRH] Spec.



Current Size: 216 x 307 x 105.5 mm (6.99L)  
(8.5 x 12.1 x 4.1 inch., excluding Port Guard)  
Design is subject to minor change

Item	Specification
Band	Band 48 (3.5 GHz)
Frequency	3550~3700 MHz
IBW	150 MHz
OBW	80 MHz
# of Carriers	5/10/15/20 MHz x 4 carriers
RF Chain	4TX / 4RX
RF Output Power & EIRP	4 path x 5 W (Total: 20 W = 43 dBm) (EIRP: 47 dBm / 10 MHz)
RX Sensitivity	Typical : -101.5 dBm @ 1 Rx (3GPP 36.104, Wide Area)
Modulation	256-QAM support (1024-QAM with 1~2dB power back-off)
Input Power	-48 VDC (-38 to -57 VDC, 1 SKU), with clip-on AC-DC converter (Option)
Power Consumption	About 160 Watt @ 100% RF load, typical conditions
Volume	<b>Under 7L</b> (w/o Antenna), Under 9.6L (with antenna)
Weight	<b>Under 8.0 kg (18.64 lb)</b> (w/o Antenna), Under 10.5 Kg (with ant.)
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (W/o solar load)
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 Category A [B48] : FCC 47 CFR 96.41 e)
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP, single mode, duplex or Bi-Di
CPRI Cascade	Not supported
# of Antenna Port	4
External Alarm (UDA)	4
RET	AISG 2.2
TMA & built-in Bias-T I//F and PIM cancellation	Not supported
Mounting Options	Pole, wall, tower, back to back, side by side (for external ant), <b>3 RRH with Clip-on Antenna on the pole</b>
Antenna Type	Integrated (Clip-on) antenna (Option), External antenna (Option)
NB-IoT	Not Supported (HW Resource reserved for 1 Guard Band NB-IoT per LTE carrier)
Spectrum Analyzer	TX/RX Support
External Alarm (UDA)	4
5G NR	Support with S/W upgrade
<b>XRAN</b>	Support with S/W upgrade



# AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

**Model Code** RF4439d-25A



**Homepage**  
[samsungnetworks.com](http://samsungnetworks.com)

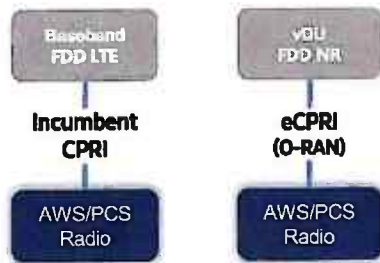


**Youtube**  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

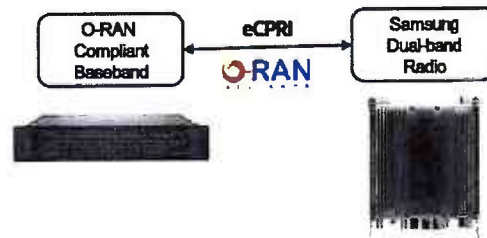
Samsung's AWS/PCS macro radio can support each Incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

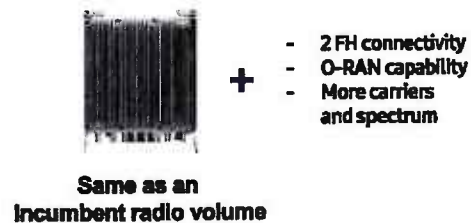
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



### Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



## Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

# SAMSUNG

## 700/850MHZ MACRO RADIO

### DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

**Model Code** RF4440d-13A



**Homepage**  
[samsungnetworks.com](http://samsungnetworks.com)



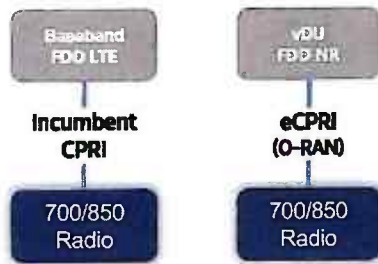
**Youtube**  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)



## Points of Differentiation

### Continuous Migration

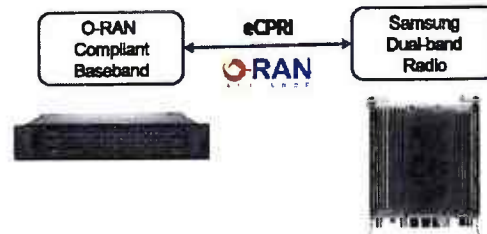
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

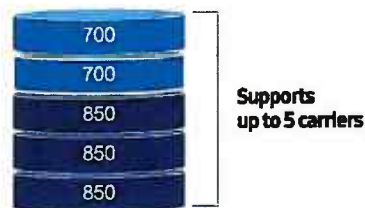
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

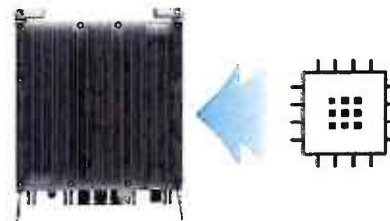
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



### Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



## Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

## Specifications

The table below outlines the main specifications of the RRH.

**Table 1. Specifications**

Item	RT4401-48A
Air Technology	LTE
Band	Band 48 (3.5 GHz)
Operating Frequency (MHz)	3550 to 3700
RF Chain	4TX/4RX
Input Power	-48 V DC (-38 to -57 V DC, 1 SKU), with clip-on AC-DC converter (Option)
Dimension (W × D × H) (mm)	8.55 in. (217.4) × 4.15 in. (105.5) × 13.91 in. (353.5) * RRH only 11.39 in. (289.4) × 5.45 in. (138.5) × 16.16 in. (410.5) * with Clip-on antenna, AC-DC power unit
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 Category A [B48]: FCC 47 CFR 96.41 e)
Spectrum Analyzer	TX/RX Support
Antenna Type	Integrated (Clip-on) antenna (Option), External antenna (Option)
Operating Humidity	5 to 100 [%] (RH), condensing, not to exceed 30 g/m <sup>3</sup> absolute humidity
Altitude	-60 to 1,800 m
Earthquake	Telcordia Earthquake Risk Zone4 (Telcordia GR-63-CORE)
Vibration in Use	Office Vibration
Transportation Vibration	Transportation Vibration
Noise	Fanless (natural convection cooling)
Wind Resistance	Telcordia GR-487-CORE, Section 3.34
EMC	FCC Title 47, CFR Part 96
Safety	UL 60950-1 2nd ED



Item	RT4401-48A
	UL 62368-1
	UL 60950-22
RF	FCC Title 47, CFR Part 96

The table below outlines the AC/DC power unit specifications of the RRH system.

# **ATTACHMENT 3**

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Section 1.1310 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

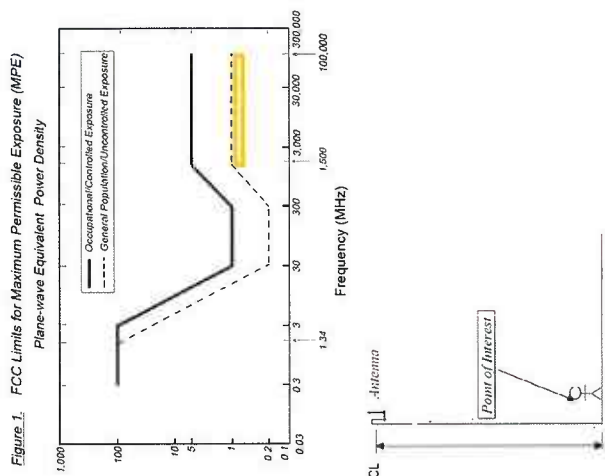
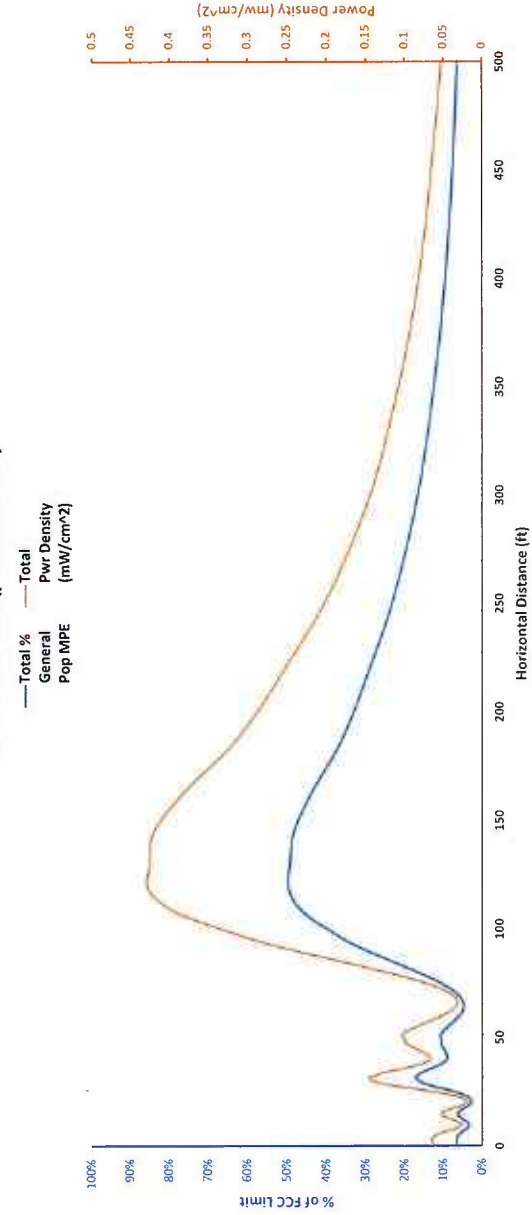
MHz = Megahertz  
mW/cm<sup>2</sup> = milliwatts per square centimeter  
ERP = Effective Radiated Power

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

1. closest accessible point is distance from antenna to base of pole;
2. continuous transmission from all available channels at full power for indefinite time period;
3. calculation takes into account a point of interest of 2m or 6.56ft

Location	BRIDGEWATER FAIR COW CT					
Date	4/23/2025					
Band	C-Band	CBRS	AWS	PCS	850	700
Operating Frequency (MHz)	3,700	3,550	2,145	1,970	869	746
General Population MPE (mW/cm <sup>2</sup> )	1	1	1	1	0.57933333	0.49733333
ERP Per Transmitter (Watts)	13,336	50	1,157	1,019	925	732
Number of Transmitters	2	4	4	4	4	4
Antenna Centerline (CL) (feet)	35	35	29	29	29	29
Total ERP (Watts)	26,672	200	4,628	4,076	3,700	2,928
Total ERP (dBm)	74	53	67	66	66	65
MPE Per Transmitter	0.00000000					

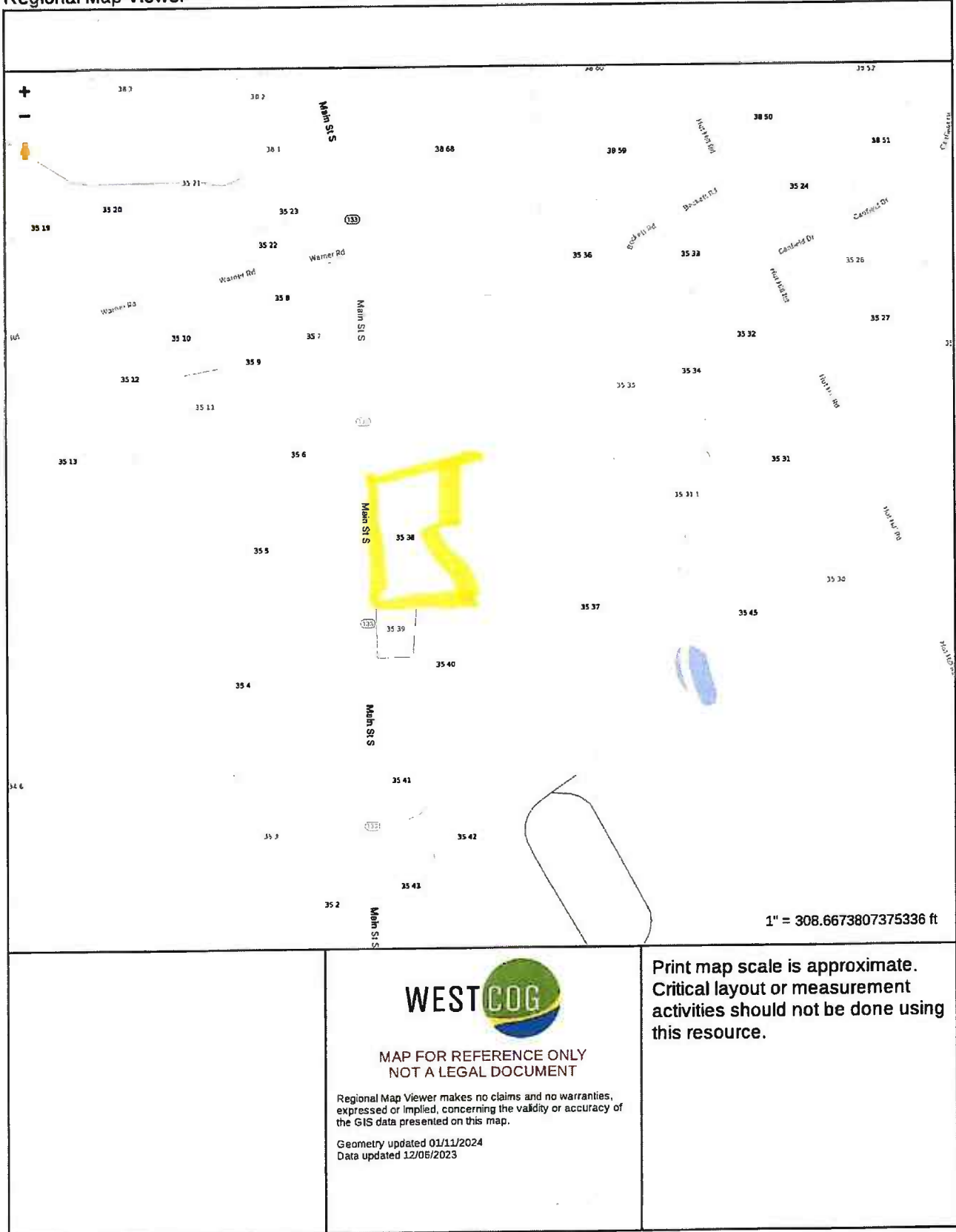
### RF Exposure 6.56ft Above Ground Level Far Field Formula (per FCC OET65)



Angle Below Horizon	Power Density (mW/cm <sup>2</sup> )						Distance	Total Pwr Density (mW/cm <sup>2</sup> )	Limit by FCC
	C-Band	CBRS	AWS	PCS	850	700 MHz			
90	0.058619247	3.2286E-05	0.00047336	0.000225441	0.000501187	0.001992366	0	0.061843887	6.42%
89	0.058607568	3.8808E-05	0.000517669	0.000206012	0.000373991	0.001787435	0.401466493	0.061531484	6.36%
88	0.059536861	4.15593E-05	0.000530439	0.000194749	0.000268809	0.001573306	0.803177698	0.062545724	6.43%
87	0.060710079	4.55235E-05	0.000516345	0.000195335	0.000188255	0.001374415	1.205378924	0.063029954	6.46%
86	0.062037396	4.98457E-05	0.000466369	0.000201747	0.000130249	0.001205436	1.608316675	0.064111043	6.54%
85	0.061257787	5.71776E-05	0.000464209	0.000204906	9.21556E-05	0.001078676	2.01223961	0.06382286	6.50%
84	0.063278626	6.85312E-05	0.000477728	0.000195444	6.85471E-05	0.001005445	2.417397411	0.06504432	6.61%
83	0.063036334	9.43525E-05	0.00052544	0.000171478	5.84899E-05	0.000985246	2.824044901	0.064922105	6.60%
82	0.062873244	0.000132874	0.00070676	0.000143586	4.61403E-05	0.001019647	3.23439358	0.064922252	6.60%
81	0.062657449	0.000183788	0.000950374	0.00013669	3.86993E-05	0.00110936	3.642842127	0.06507536	6.62%
80	0.06099548	0.000240034	0.001271256	0.000165605	2.98567E-05	0.001245693	4.055520556	0.063947924	6.52%
79	0.05935244	0.000307902	0.001645456	0.000223938	1.90588E-05	0.001427132	4.47074711	0.062975927	6.44%
78	0.056414811	0.000385805	0.002046693	0.000304715	8.05121E-05	0.00165888	4.88800918	0.060812912	6.25%
77	0.052379184	0.000450955	0.002457708	0.000396617	1.34072E-06	0.001905869	5.309568396	0.057594373	5.95%
76	0.04643586	0.000587605	0.002875525	0.000477044	6.8474E-06	0.002197328	5.734544055	0.055266678	5.81%
75	0.04643586	0.000587605	0.003315976	0.000519341	3.57618E-05	0.002504893	6.162831426	0.053107162	5.57%
74	0.041811128	0.000640127	0.003794989	0.000509391	0.000102334	0.002827407	6.595143872	0.049683376	5.26%
73	0.037005858	0.000665648	0.004310346	0.000446019	0.00022495	0.003157752	7.031805674	0.045803119	4.92%
72	0.03163903	0.00066072	0.004825179	0.000346222	0.000413354	0.003472891	7.473153013	0.040982269	4.48%
71	0.026097914	0.000626008	0.005250632	0.000271677	0.000690272	0.003773108	7.919535106	0.036715612	4.10%



# **ATTACHMENT 4**



MAP FOR REFERENCE ONLY  
NOT A LEGAL DOCUMENT

Regional Map Viewer makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 01/11/2024  
Data updated 12/05/2023

Print map scale is approximate.  
Critical layout or measurement  
activities should not be done using  
this resource.

## 110 MAIN ST SOUTH

**Location** 110 MAIN ST SOUTH

**Mblu** 35/ 38/ 11

**Acct#** 00008800

**Owner** BRIDGEWATER FIRE DEPT INC

**Assessment** \$157,800

**Appraisal** \$225,500

**PID** 863

**Building Count** 1

### Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2022	\$100,300	\$125,200	\$225,500
Assessment			
Valuation Year	Improvements	Land	Total
2022	\$70,200	\$87,600	\$157,800

### Owner of Record

**Owner** BRIDGEWATER FIRE DEPT INC  
**Co-Owner** 100 MAIN ST SOUTH

**Sale Price** \$0  
**Certificate** C  
**Book & Page** 23/ 753  
**Sale Date** 02/22/1980

### Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
BRIDGEWATER FIRE DEPT INC	\$0	C	23/ 753	02/22/1980

### Building Information

#### Building 1 : Section 1

**Year Built:** 1900  
**Living Area:** 1,040  
**Replacement Cost:** \$167,182  
**Building Percent Good:** 60  
**Replacement Cost**  
**Less Depreciation:** \$100,300





**Building Attributes**

# **ATTACHMENT 5**





## Certificate of Mailing — Firm

Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP One State Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  3	TOTAL NO. of Pieces Received at Post Office™  3	Affix Stamp Here <i>Postmark with Date of Receipt.</i>    			
	Postmaster, per (name of receiving employee)  					
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)		Postage	Fee	Special Handling	Parcel Airlift
1.	Curtis Read, First Selectman Town of Bridgewater 44 Main Street South Bridgewater, CT 06752					
2.	Meg Khare, Land Use Coordinator Town of Bridgewater 44 Main Street South Bridgewater, CT 06752					
3.	Bridgewater Fire Department 100 Main Street South Bridgewater, CT 06752					
4.						
5.						
6.						