

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

February 8, 2023

Via Electronic Mail

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

**Re: Notice of Exempt Modification – Facility Modification
212 Deans Mill, Stonington, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of a pipe-mounted panel antenna and remote radio head (“RRH”) on the roof of a building and associated equipment on the ground adjacent to the building. The antenna and RRH are concealed inside a radio frequency (“RF”) transparent cupola at a height of 24’-11” above ground level. The facility was approved by the Siting Council in January of 2016 (Petition No. 1203). A copy of the Council’s Petition No. 1203 Staff Report is included in Attachment 1.

Cellco now intends to modify its facility by removing the existing antenna and RRH and installing a new antenna and RRH in the same locations. A set of project plans showing Cellco’s proposed facility modifications and the new antenna and RRH specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 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 Stonington’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.

February 8, 2023

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The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing antenna or concealment structure. Cellco's new antenna will be installed on the existing pipe mount, within the cupola, at the same centerline height of 24'-11". The RRH will be installed below the antenna on the same mounting pipe.

2. The proposed modifications will not involve any change to the ground equipment and therefore, 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 installation of Cellco's new antenna will not increase RF emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. Cellco's Far Field calculations are included in Attachment 3. The modified facility will not be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis ("SA") the existing mounts and the existing building have adequate capacity to support Cellco's proposed facility modifications. A copy of the SA is included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Melanie A. Bachman, Esq.

February 8, 2023

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Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Danielle Chesebrough, Stonington First Selectman

Keith Brynes, Town Planner

Thomas Cameron Lyon III, Property Owner

Elizabeth Glidden

ATTACHMENT 1



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

CERTIFIED MAIL RETURN RECEIPT REQUESTED

January 22, 2016

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **PETITION NO. 1203** - Cellco Partnership d/b/a Verizon Wireless petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for a proposed rooftop wireless telecommunications facility on an existing barn located at 212 Deans Mill Road, Stonington, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on January 21, 2016, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k, would not require a Certificate of Environmental Compatibility and Public Need with the following conditions:

1. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed within three years from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
2. Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on all parties and intervenors, if applicable, and the Town of Stonington;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
5. If the facility ceases to provide wireless services for a period of one year the Petitioner shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council within 90 days from the one year period of cessation of service. The Petitioner may submit a written request to the Council for an extension of the 90 day period not later than 60 days prior to the expiration of the 90 day period; and



6. This Declaratory Ruling may be transferred or partially transferred, provided both the facility owner/operator/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. The Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer. Both the facility owner/operator/transferor and the transferee shall provide the Council with a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition dated December 8, 2015.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,

A handwritten signature in blue ink that reads "Robert Stein" with a stylized "UAB" or similar mark to the right.

Robert Stein
Chairman

RS/MP/lm

Enclosure: Staff Report dated January 21, 2016

- c: The Honorable Rob Simmons, First Selectman, Town of Stonington
Keith Brynes, Town Planner, Town of Stonington
Phyllis B. Borges & Martha S. Demattia, Property Owners



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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E-Mail: siting.council@ct.gov

www.ct.gov/csc

Petition No. 1203

Cellco

212 Deans Mill Road, Stonington

Small Cell Facility

Staff Report

January 21, 2016

On December 9, 2015, the Connecticut Siting Council (Council) received a petition from Cellco Partnership d/b/a Verizon Wireless (Cellco) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed installation of a small cell telecommunications facility at 212 Deans Mill Road, Stonington, Connecticut. The proposed small cell facility would increase Cellco's 2100 MHz coverage and provide customers with improved wireless services in the area.

Specifically, Cellco would install a small cell tower on the roof of an existing barn owned by Phyllis Borges and Martha Demattia. The tower would have a single panel antenna and one remote radio head (RRH). The tower, panel antenna and RRH would be concealed inside an RF transparent cupola structure. The proposed cupola would reach a height of 26.8 feet above ground level (agl). This is approximately 6.5 feet above the existing maximum roof peak height of 20.3 feet agl. On top of the cupola would be a weathervane that would reach a height of approximately 28.8 feet agl. Cellco's equipment would be installed on a concrete pad within an 8-foot by 8-foot lease area surrounded by an eight-foot tall vinyl fence on the ground adjacent to the northeast corner of the building. Electrical and telephone service would be run along the exterior of the barn to reach existing service on the subject property.

The subject property is located within Stonington's GB-130 Residential Zone. While there are residences located to the south and southeast of the subject property (approximately 580 feet and 830 feet away, respectively), the visual impact is not expected to be significant due to the stealth cupola design, limited height, and existing trees surrounding the site. The equipment compound on the ground would be screened with the vinyl fence.

The calculated power density using a far-field analysis would be 9.5 percent of the applicable limit. Notice is not required to the Federal Aviation Administration.

Notice was provided to the Town of Stonington, the property owner, and abutting property owners on or about December 8, 2015. No comments have been received to date.

Cellco contends that this proposed project would not have a substantial adverse environmental impact.



Affirmative Action / Equal Opportunity Employer

Site Location

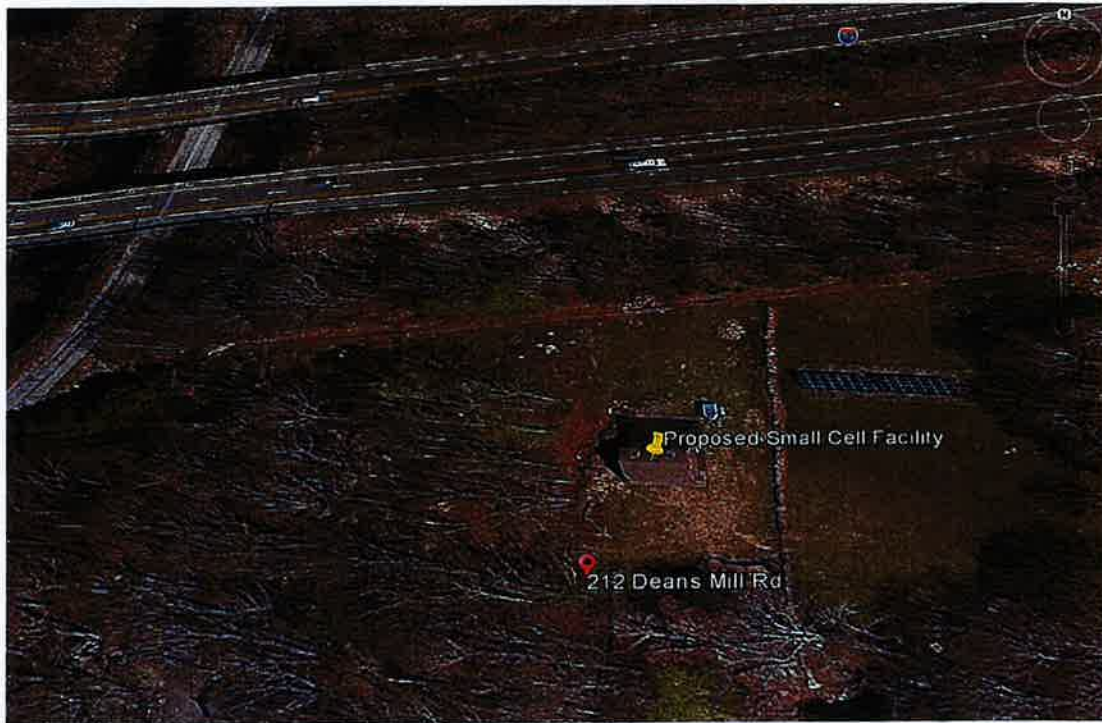
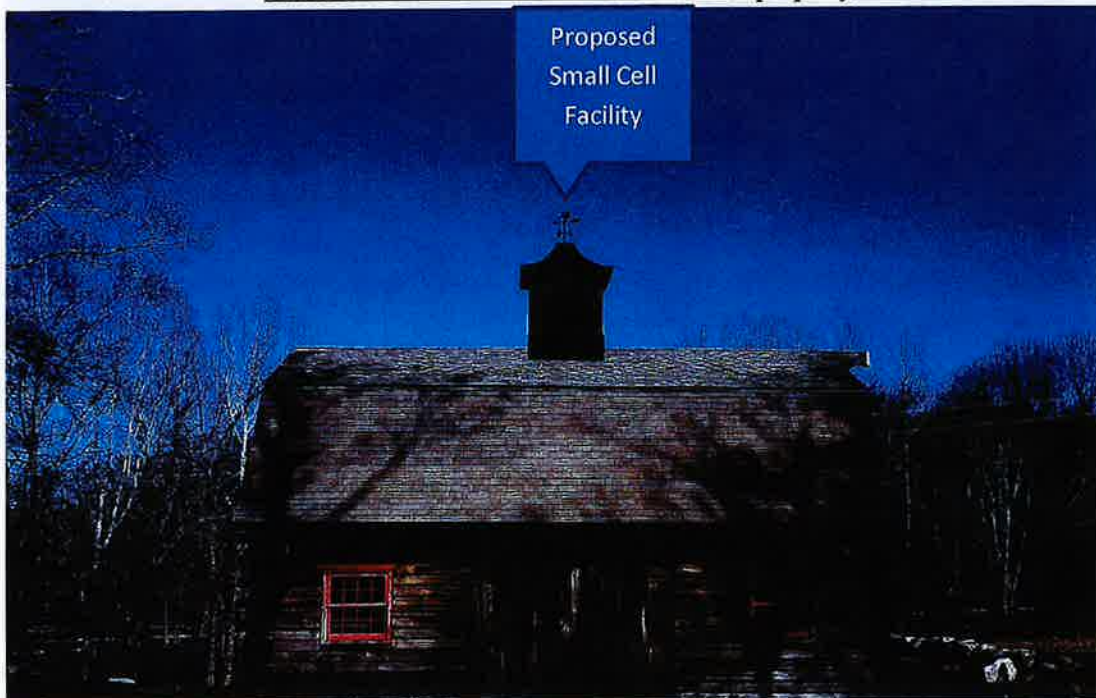
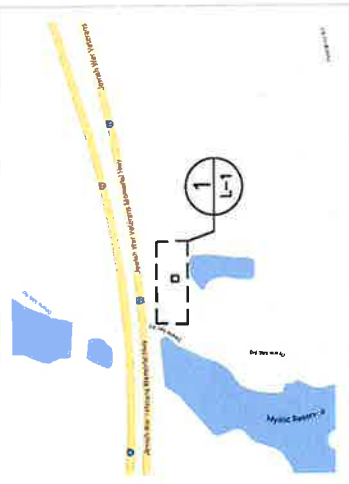


Photo-simulation as viewed from the host property



ATTACHMENT 2

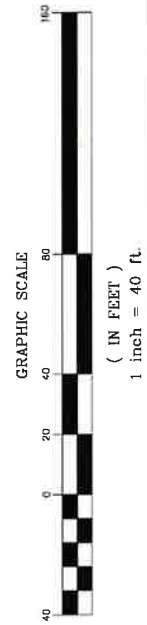
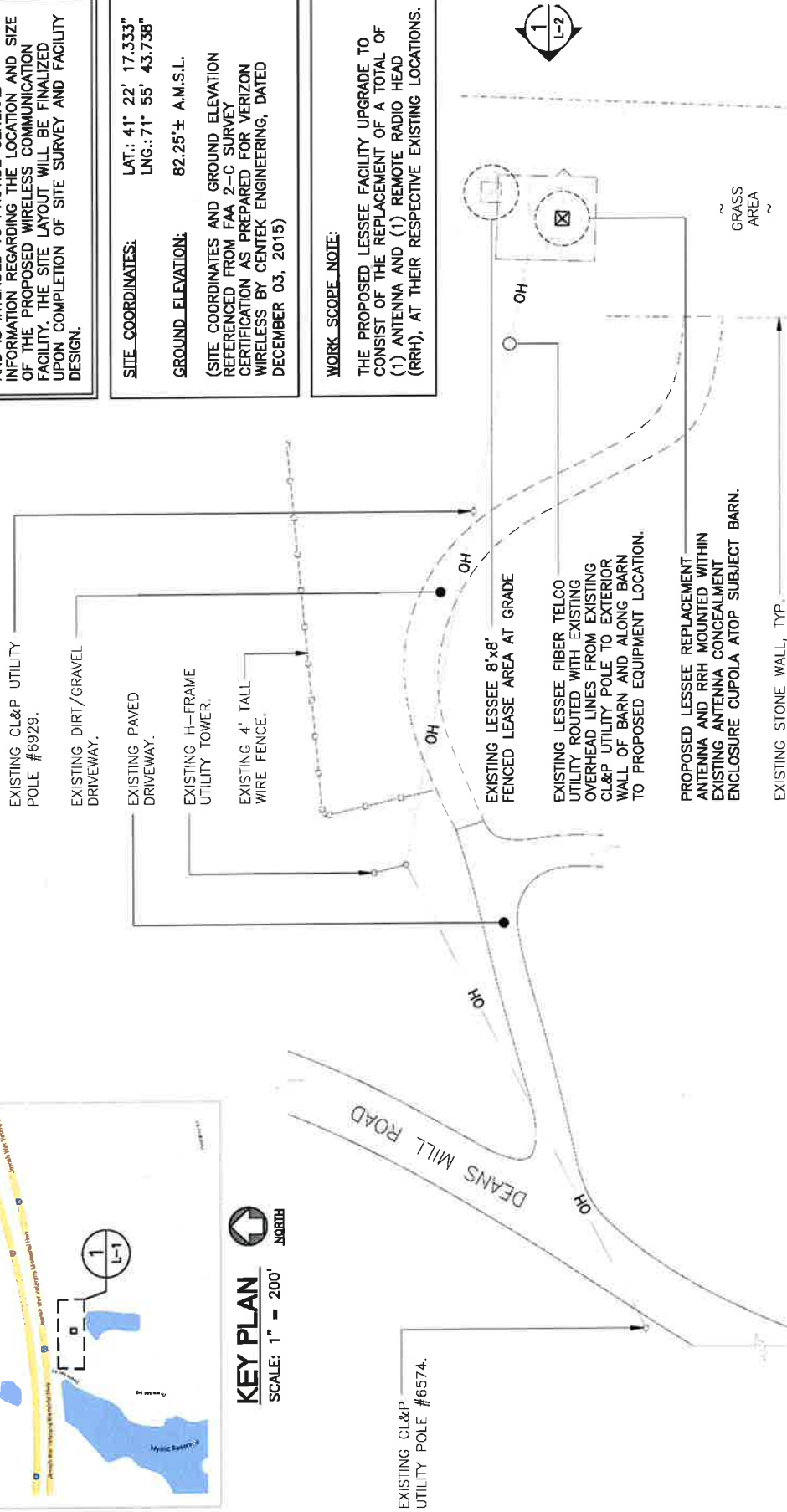


KEY PLAN
SCALE: 1" = 200'

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

SITE COORDINATES:
LAT.: 41° 22' 17.333"
LNG.: 71° 55' 43.738"
GROUND ELEVATION: 82.25' ± A.M.S.L.
(SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM FAA 2-C SURVEY CERTIFICATION AS PREPARED FOR VERIZON WIRELESS BY CENTEK ENGINEERING, DATED DECEMBER 03, 2015)

WORK SCOPE NOTE:
THE PROPOSED LESSEE FACILITY UPGRADE TO CONSIST OF THE REPLACEMENT OF A TOTAL OF (1) ANTENNA AND (1) REMOTE RADIO HEAD (RRH), AT THEIR RESPECTIVE EXISTING LOCATIONS.



1 SITE LOCATION PLAN
SCALE: 1" = 40'
APPROXIMATE NORTH

REV	DATE	REVISIONS	BY	CHKD	DATE
1	09/12/2023	ISSUED FOR CLIENT REVIEW			



MYSTIC SC1
212 DEANS MILL ROAD
STONINGTON, CT 06378
Coloco Partnership d/b/a Verizon Wireless
DATE: 09/12/2023
SCALE: AS SHOWN
JOB NO.: 23100.03

L-1
SHEET NO.

LEASE EXHIBIT

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

TOP OF EXISTING ANTENNA CONCEALMENT CUPOLA
EL. ±26'-10" A.G.L.

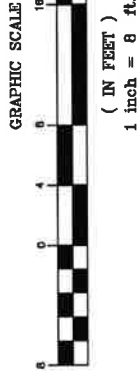
Q. OF EXISTING/PROPOSED LESSEE ANTENNA
EL. ±24'-11" A.G.L.

TOP OF EXISTING ROOF
EL. ±20'-4" A.G.L.

PROPOSED LESSEE REPLACEMENT ANTENNA AND RRH MOUNTED WITHIN EXISTING ANTENNA CONCEALMENT ENCLOSURE CUPOLA ATOP SUBJECT BARN. (REMOVABLE ACCESS PANEL LOCATED ON EAST SIDE OF CUPOLA)

EXISTING LESSEE ELECTRICAL, TELCO, AND GROUND CONDUITS ROUTED FROM CUPOLA, DOWN THE INTERIOR OF THE ROOF, TO THE EXTERIOR OF BARN.

EXISTING LESSEE 8' TALL VINYL FENCE W/ 4' WIDE ACCESS GATE ENCLOSING A ±8'x8' LEASE AREA FOR LESSEE EQUIPMENT ON CONC. PAD AT GRADE.



1 EAST ELEVATION
L-2
SCALE: 1" = 8'

TOP OF EXISTING ANTENNA
EL. ±26'-0" A.G.L.

Q. OF EXISTING/PROPOSED LESSEE ANTENNA
EL. ±24'-11" A.G.L.

EXISTING 3.5" O.D. PIPE MAST TO REMAIN

EXISTING LESSEE ANTENNA TO BE REPLACED

EXISTING LESSEE ANTENNA MOUNT TO REMAIN

EXISTING LESSEE RADIO (RRU) AND SUPPORT BRACKET TO BE REPLACED

PROPOSED LESSEE REPLACEMENT ANTENNA MOUNTED TO EXISTING ANTENNA MOUNT

PROPOSED LESSEE REPLACEMENT RADIO (RRU) AND SUPPORT BRACKET

EXISTING CONDITION

PROPOSED CONDITION

2 ANTENNA/MOUNT ELEVATIONS
L-2
SCALE: 1" = 4'

REV	DATE	BY	CHKD	REVISION
1	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
2	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
3	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
4	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
5	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
6	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
7	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
8	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
9	08/12/22	TJM		ISSUED FOR CLIENT REVIEW
10	08/12/22	TJM		ISSUED FOR CLIENT REVIEW



Cellco Partnership d/b/a Verizon Wireless
MYSTIC SC1
212 DEANS MILL ROAD
STONINGTON, CT 06378




SHEET NO. L-2

HTXCWW63111414Fxy0

Features

- Tri band, fixed tilt panel antenna, 6 connectors
- Ideal solution for Small Cell applications



PRODUCT OVERVIEW	Frequency Range (MHz)	LOW		MID	
		696-960		1695-2170	1695-2170
	Array	 R1	 B1	 B2	
	Connector	1-2		3-4	5-6
	Polarization	XPOL		XPOL	XPOL
	Electrical Downtilt	0°, 2°, 5°		0°, 2°, 4°, 6°	
	Azimuth Beamwidth	65°			
	Total Connector Count	6 PORTS			
	Connector Type	7/16-DIN FEMALE			
	Dimensions	589 x 305 x 180 mm (23.2 x 12.0 x 7.1)			

ELECTRICAL SPECIFICATIONS Low Band

■ R1

Frequency Range		MHz	(1x) 696-960	
Frequency Sub-Range		MHz	696-806	806-960
Polarization		---	±45°	
Gain	MAX	dBi	10.5	11.0
Azimuth Beamwidth (3 dB)		degrees	75°	70°
Elevation Beamwidth (3 dB)		degrees	42°	40°
Electrical Downtilt		degrees	(x) 0°, 2°, 5°	
Impedance		Ohms	50Ω	
VSWR		---	≤ 1.5:1	
Front-to-Back Ratio		dB	> 20	
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153	
Maximum Power Per Port		Watts	(2x) 500 W	
Isolation Between Ports		dB	> 25	

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

HTXCWW63111414Fxy0

ELECTRICAL SPECIFICATIONS Mid Band

■ B1 ■ B2

Frequency Range		MHz	(2x) 1710-2170		
Frequency Sub-Range		MHz	1710-1880	1850-1990	1900-2170
Polarization		---	(2x) ±45°		
Gain	MAX	dBi	13.5	14.0	14.0
Azimuth Beamwidth (3 dB)		degrees	65°	70°	75°
Elevation Beamwidth (3 dB)		degrees	18°	16°	14°
Electrical Downtilt		degrees	(y) 0°, 2°, 4°, 6°		
Impedance		Ohms	50Ω		
VSWR		---	≤ 1.5:1		
Front-to-Back Ratio		dB	> 25		
Passive Intermodulation 3rd Order for 2x20 W Carriers		dBc	< -153		
Maximum Power Per Port		Watts	(4x) 300 W		
Isolation Between Ports		dB	> 25	> 25	> 25

MECHANICAL SPECIFICATIONS

Antenna	Length	mm (in)	589 (23.2)
	Width	mm (in)	305 (12.0)
	Depth	mm (in)	180 (7.1)
Net Weight - Antenna Only		kg (lbs)	5.9 (13)
Windload	Calculation	km/h (mph)	160 (100)
	Frontal	N (lbf)	219 (49)
	Side	N (lbf)	129 (29)
Survival Wind Speed		km/h (mph)	241 (150)
Wind Area	Frontal	m² (ft²)	0.18 (1.9)
	Side	m² (ft²)	0.11 (1.1)
Connector	Type	---	7/16-DIN Female
	Quantity	---	6
	Position	---	Bottom
Radome Color		---	Grey
Lightning Protection (Grounding Type)		---	Direct Ground

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6-Port Panel Antenna

(1x) 696-960 | (2x) 1710-2170 MHz

65°

23.2 in

FIXED TILT



HTXCWW63111414Fxy0



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HTXCWW63111414Fxy0

MOUNTING KITS The default mounting kit is included in the price of the antenna. Any other mounting kits are optional and must be ordered separately.

		MODEL NUMBER	DESCRIPTION	FITS PIPE DIAMETER	WEIGHT
DEFAULT MOUNTING KIT <i>Shipped as standard and included in the price of the antenna</i>		MKS04T03	2-Point, Scissor Tilt, Mounting & Downtilt Bracket Kit	40-115 mm (1.57-4.5 in)	4.1 kg (9 lbs)
OPTIONAL MOUNTING KIT <i>Must be ordered separately</i>		MKS04P01	2-Point Mounting Bracket Kit	40-115 mm (1.57-4.5 in)	2.9 kg (6.4 lbs)



The antenna shown in the images at left does not represent the HTXCWW63111414Fxy0. These are generic images used to illustrate the bracket kit.

ORDERING OPTIONS Select from the following ordering options

SELECT DEGREE OF ELECTRICAL DOWNTILT FOR EACH BAND		MODEL NUMBER
LOW BAND	MID BAND	
0°	0°	HTXCWW63111414F000
0°	2°	HTXCWW63111414F020
0°	4°	HTXCWW63111414F040
0°	6°	HTXCWW63111414F060
2°	0°	HTXCWW63111414F200
2°	2°	HTXCWW63111414F220
2°	4°	HTXCWW63111414F240
2°	6°	HTXCWW63111414F260
5°	0°	HTXCWW63111414F500
5°	2°	HTXCWW63111414F520
5°	4°	HTXCWW63111414F540
5°	6°	HTXCWW63111414F560

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

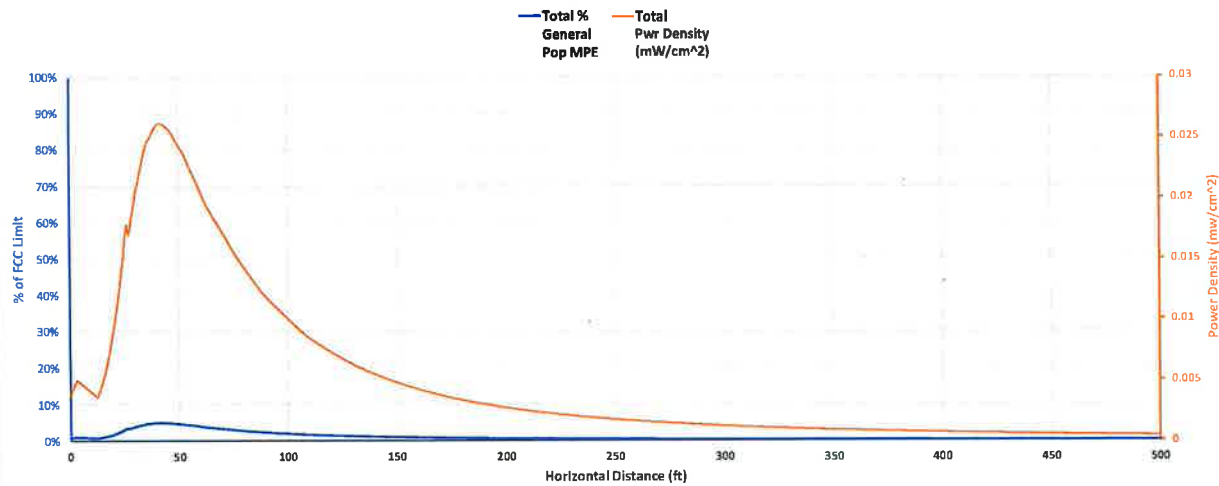
Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
 B13: DL(746-756MHz)/UL(777-787MHz)
 B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

ATTACHMENT 3

Location	MYSTIC SC 1 CT					
Date	11/21/2022					
Band	C-Band	AWS	PCS	850-LTE	850-CDMA	700
Operating Frequency (MHz)	3,700	2,145	1,870	880	869	746
General Population MPE (mW/cm ²)	1	1	1	0.58666667	0.579333333	0.497333333
ERP Per Transmitter (Watts)	0	0	0	38	0	38
Number of Transmitters	0	0	0	4	0	4
Antenna Centerline (feet)	25	25	25	25	25	25
Total ERP (Watts)	0	0	0	152	0	152
Total ERP (dBm)	#N/A	#N/A	#N/A	52	#N/A	52
Maximum % of General Population Limit	4.9%					

**RF Exposure 6ft Above Ground Level
Far Field Formula (per FCC OET65)**



Angle Below Horizon	Power Density (mW/cm²)						Percent of General Population MPE										Distance	Total Pwr Density (mW/cm²)	Total % GenPop MPE
	C-Band	AWS	PCS	850-LTE	850-CDMA	700 MHz	3G/4G	3G/4G	C-Band	CDMA	AWS	PCS	Cellular	CDMA	700 MHz				
90	0	0	0	0.002139975	0	0.001514986	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.36%	0.00%	0.30%	0	0.003654962	0.67%	
89	0	0	0	0.002240147	0	0.001549803	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.38%	0.00%	0.31%	0.331646234	0.003789949	0.69%	
88	0	0	0	0.002343578	0	0.00162136	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.40%	0.00%	0.33%	0.66349462	0.003964938	0.73%	
87	0	0	0	0.00245029	0	0.0016566	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.42%	0.00%	0.33%	0.995747806	0.00410689	0.75%	
86	0	0	0	0.002560297	0	0.001691571	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.44%	0.00%	0.34%	1.328609427	0.004251868	0.78%	
85	0	0	0	0.002673605	0	0.001726224	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.46%	0.00%	0.35%	1.662284607	0.004399829	0.80%	
84	0	0	0	0.002790214	0	0.001760506	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.48%	0.00%	0.35%	1.99698047	0.004550719	0.83%	
83	0	0	0	0.002910115	0	0.001794362	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.50%	0.00%	0.36%	2.332906657	0.004704477	0.86%	
82	0	0	0	0.003033292	0	0.001786135	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.52%	0.00%	0.36%	2.670275859	0.004819428	0.88%	
81	0	0	0	0.00315972	0	0.001818229	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.37%	3.009304366	0.004977949	0.90%	
80	0	0	0	0.003141316	0	0.001766492	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.36%	3.350212633	0.004907808	0.89%	
79	0	0	0	0.003121058	0	0.001715149	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.34%	3.693225874	0.004836208	0.89%	
78	0	0	0	0.003171155	0	0.001664246	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.33%	4.038574672	0.004835401	0.89%	
77	0	0	0	0.003146709	0	0.001613826	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.32%	4.386495631	0.004760535	0.89%	
76	0	0	0	0.003193133	0	0.001563929	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.31%	4.737232054	0.004757062	0.89%	
75	0	0	0	0.003164436	0	0.001514594	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.30%	5.091034656	0.00467903	0.89%	
74	0	0	0	0.00313395	0	0.001465858	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.29%	5.448162329	0.004599808	0.88%	
73	0	0	0	0.003173959	0	0.001417756	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.29%	5.808882948	0.004591715	0.88%	
72	0	0	0	0.003139217	0	0.001370318	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.28%	6.173474228	0.004509535	0.88%	

71	0	0	0	0.003175038	0	0.001323576	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.54%	0.00%	0.27%	6.542224653	0.004498614	0.81%
70	0	0	0	0.003136091	0	0.001277557	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.26%	6.915434451	0.004413588	0.79%
69	0	0	0	0.003095367	0	0.001232288	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.25%	7.293416666	0.004327655	0.78%
68	0	0	0	0.003124212	0	0.001187792	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.24%	7.676498291	0.004312004	0.77%
67	0	0	0	0.003079363	0	0.001144092	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.52%	0.00%	0.23%	8.065021508	0.004223455	0.75%
66	0	0	0	0.003103624	0	0.001101207	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.22%	8.459345021	0.004204831	0.75%
65	0	0	0	0.003054641	0	0.001059157	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.52%	0.00%	0.21%	8.859845505	0.004113797	0.73%
64	0	0	0	0.003004202	0	0.001017956	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.00%	0.20%	9.266919183	0.004022158	0.72%
63	0	0	0	0.003021138	0	0.000977621	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.00%	0.20%	9.68098354	0.003998759	0.71%
62	0	0	0	0.002966734	0	0.000938164	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.00%	0.19%	10.1024792	0.003904898	0.69%
61	0	0	0	0.002978841	0	0.000899595	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.00%	0.18%	10.53187198	0.003878436	0.69%
60	0	0	0	0.002920586	0	0.000862003	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.50%	0.00%	0.18%	10.96965511	0.003802589	0.68%
59	0	0	0	0.002861145	0	0.000864052	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.49%	0.00%	0.17%	11.41635176	0.003725198	0.66%
58	0	0	0	0.002800591	0	0.000845765	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.48%	0.00%	0.17%	11.87251769	0.003646356	0.65%
57	0	0	0	0.002738997	0	0.000866147	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.47%	0.00%	0.17%	12.33874427	0.003605144	0.64%
56	0	0	0	0.002802574	0	0.00092802	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.48%	0.00%	0.19%	12.81566182	0.003730594	0.66%
55	0	0	0	0.002931823	0	0.001089276	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.50%	0.00%	0.22%	13.30394323	0.004021099	0.72%
54	0	0	0	0.002994498	0	0.001248315	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.51%	0.00%	0.25%	13.80430803	0.004242813	0.76%
53	0	0	0	0.003055667	0	0.001429243	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.52%	0.00%	0.29%	14.31752695	0.004484909	0.81%
52	0	0	0	0.003115107	0	0.001672912	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.53%	0.00%	0.34%	14.8444269	0.004788019	0.87%
51	0	0	0	0.003246489	0	0.001911674	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.55%	0.00%	0.38%	15.38589663	0.005158163	0.94%
50	0	0	0	0.003303062	0	0.002182311	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.56%	0.00%	0.44%	15.94289299	0.005485373	1.00%
49	0	0	0	0.003357132	0	0.002546645	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.57%	0.00%	0.51%	16.51644802	0.005930778	1.08%
48	0	0	0	0.003487833	0	0.002901053	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.59%	0.00%	0.58%	17.10767684	0.006388886	1.18%
47	0	0	0	0.003537233	0	0.003301138	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.60%	0.00%	0.66%	17.71778664	0.006838371	1.27%
46	0	0	0	0.003583248	0	0.00383952	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.61%	0.00%	0.77%	18.34808672	0.007422768	1.38%
45	0	0	0	0.003710041	0	0.004358918	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.63%	0.00%	0.88%	19	0.00806896	1.51%
44	0	0	0	0.003749309	0	0.004942552	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.64%	0.00%	0.99%	19.67507596	0.008691862	1.63%
43	0	0	0	0.003784211	0	0.005727636	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.65%	0.00%	1.15%	20.37500549	0.009511847	1.80%
42	0	0	0	0.003814438	0	0.006477845	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.65%	0.00%	1.30%	21.10163778	0.010292282	1.95%
41	0	0	0	0.003929113	0	0.007316352	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.67%	0.00%	1.47%	21.85699974	0.011245465	2.14%
40	0	0	0	0.003949515	0	0.008443913	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.67%	0.00%	1.70%	22.64331826	0.012393427	2.37%
39	0	0	0	0.003964171	0	0.009509383	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.68%	0.00%	1.91%	23.46304597	0.013473554	2.59%
38	0	0	0	0.004065301	0	0.010692831	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.69%	0.00%	2.15%	24.31889101	0.014758132	2.84%
37	0	0	0	0.004067568	0	0.012283858	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.69%	0.00%	2.47%	25.21385161	0.016351426	3.16%
36	0	0	0	0.004062993	0	0.013767215	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.69%	0.00%	2.77%	26.15125649	0.017830209	3.46%
35	0	0	0	0.003868934	0	0.013109657	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.66%	0.00%	2.64%	27.13481213	0.016978592	3.30%
34	0	0	0	0.004421117	0	0.013662559	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.75%	0.00%	2.75%	28.1686584	0.018083676	3.50%
33	0	0	0	0.005042272	0	0.014211053	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.86%	0.00%	2.86%	29.25743431	0.019253325	3.72%
32	0	0	0	0.005738893	0	0.014751227	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.98%	0.00%	2.97%	30.40635605	0.020490121	3.94%
31	0	0	0	0.006517596	0	0.014930949	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.11%	0.00%	3.00%	31.62131016	0.021448545	4.11%
30	0	0	0	0.007556988	0	0.015078174	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.29%	0.00%	3.03%	32.90896534	0.022635162	4.32%
29	0	0	0	0.008541835	0	0.01518977	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.46%	0.00%	3.05%	34.27690735	0.023731605	4.51%
28	0	0	0	0.009410817	0	0.015262558	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.60%	0.00%	3.07%	35.73380284	0.024673375	4.67%
27	0	0	0	0.010104208	0	0.014945218	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.72%	0.00%	3.01%	37.2895996	0.025049426	4.73%
26	0	0	0	0.010816647	0	0.014931129	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.84%	0.00%	3.00%	38.95577299	0.025747777	4.85%
25	0	0	0	0.0112799	0	0.014869804	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.92%	0.00%	2.99%	40.74563149	0.026149705	4.91%
24	0	0	0	0.011722908	0	0.014422327	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.00%	0.00%	2.90%	42.6746987	0.026145235	4.90%
23	0	0	0	0.011592171	0	0.014261485	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.98%	0.00%	2.87%	44.76119495	0.025853656	4.84%
22	0	0	0	0.01168314	0	0.013726492	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.99%	0.00%	2.76%	47.02665021	0.025409632	4.75%
21	0	0	0	0.011456898	0	0.013154279	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.95%	0.00%	2.64%	49.49669223	0.024611178	4.60%
20	0	0	0	0.010927281	0	0.012838436	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.86%	0.00%	2.58%	52.20207097	0.023765717	4.44%
19	0	0	0	0.010367942	0	0.01218127	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.77%	0.00%	2.45%	55.18000668	0.022549212	4.22%
18	0	0	0	0.009780779	0	0.011491414	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.67%	0.00%	2.31%	58.47598721	0.021272193	3.98%
17	0	0	0	0.009168102	0	0.010526389	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.56%	0.00%	2.12%	62.14619975	0.019694491	3.68%
16	0	0	0	0.008532669	0	0.009796815	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.45%	0.00%	1.97%	66.26087443	0.018329483	3.42%
15	0	0	0	0.007877732	0	0.009044846	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.34%	0.00%	1.82%	70.90896534	0.016922578	3.16%
14	0	0	0	0.007207076	0	0.008086472	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.23%	0.00%	1.63%	76.20483774	0.015293548	2.85%
13	0	0	0	0.006525064	0	0.007154591	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.11%	0.00%	1.44%	82.29804161	0.013679655	2.55%
12	0	0	0	0.00570383	0	0.006254125	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.97%	0.00%	1.26%	89.38797208	0.011957955	2.23%
11	0	0	0	0.005030445	0	0.005390219	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.86%	0.00%	1.08%	97.7465263	0.010420664	1.94%
10	0	0	0	0.004263332	0	0.004464257	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.73%	0.00%	0.90%	107.7543546	0.00872759	1.62%
9	0	0	0	0.003540574	0	0.003707436	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.60%	0.00%	0.75%	119.9612788	0.007248009	1.35%
8	0	0	0	0.002867605	0	0.0029344	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.49%	0.00%	0.59%	135.1920247	0.005802005	1.08%
7	0	0	0	0.002250079	0	0.002250079	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.38%	0.00%	0.45%	154.7425821	0.004500157	0.84%
6	0	0	0	0.00165														

ATTACHMENT 4

Structural Analysis Report

Antenna Mount

*Proposed Verizon
Antenna Upgrade*

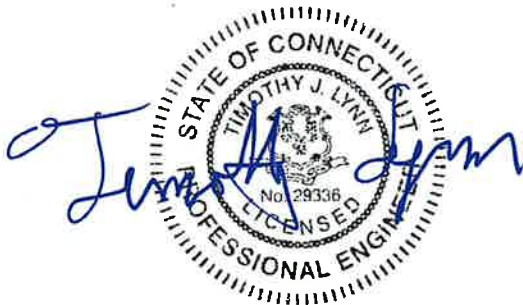
Site Ref: Mystic SC1

*212 Deans Mill Road
Stonington, CT*

CEN TEK Project No. 22105.05

~~*Date: September 13, 2022*~~

Rev 1: December 7, 2022



Prepared for:
Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

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Introduction

The purpose of this structural analysis report (SAR) is to summarize the results, of the impacted structural components, by the equipment upgrade proposed by Verizon Wireless on the existing host building located in Stonington, CT.

The antenna is mounted on a structural steel pipe mast with steel base frame attached to the host building roof framing. The antenna mast/base frame is located within a RF transparent cupola. The mounts member sizes information were obtained from the original design documents prepared by Centek Engineering, dated February 2, 2016. Proposed/existing antenna and appurtenance information was taken from a RF data sheet dated 2/23/2022 provided by Verizon Wireless.

Primary Assumptions Used in the Analysis

- The host structure's theoretical capacity not including any assessment of the condition of the host structure.
- The existing steel antenna frames carry the horizontal and vertical loads due to the weight of equipment, and wind and transfers into host structure.
- Structure is in plumb condition.
- Loading for equipment and enclosure as listed in this report.
- All bolts are appropriately tightened providing the necessary connection continuity.
- All welds are fabricated with ER-70S-6 electrodes.
- All members are assumed to be as observed during roof framing mapping.
- All members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
- All member protective coatings are in good condition.

Antenna and Equipment Summary

Location	Appurtenance / Equipment	Rad Center Elevation (AGL)	Mount Type
Alpha Sector	(1) Andrew HBX 6513DS Antenna (1) Amphenol HTXCWW63111414F00 Antenna (1) Nokia B4 RRH 2x60 4R RRH (1) Samsung B5/B13 RRH – BR04C	±24.9-ft	Pipe mast with steel base frame attached to roof deck located within cupola

~~Equipment~~ – Indicates equipment to be removed.

Equipment – Indicates equipment to be installed.

Analysis

The existing antenna frame was analyzed using a comprehensive computer program titled Risa3D. The program analyzes the antenna mounts considering the worst case code prescribed loading condition. The structures were considered to be loaded by concentric forces, and the model assumes that the members are subjected to bending, axial, and shear forces.

Design Loading

Loading was determined per the requirements of the 2021 International Building Code amended by the 2022 CSBC and ASCE 7-16 "Minimum Design Loads for Buildings and Other Structures".

Wind Speed:	V _{ult} = 130 mph	Appendix P of the 2022 CT State Building Code
Risk Category:	II	2021 IBC; Table 1604.05
Exposure Category:	Surface Roughness C	ASCE 7-16; Section 26.7.2
Dead Load	Equipment and framing self-weight	Identified within SAR design calculations

Reference Standards

2021 International Building Code:

1. ACI 318-19, *Building Code Requirements for Structural Concrete*.
2. ACI 402/602-16, *Building Code Requirements for Masonry Structures*.
3. AISC 360-16, *Specification for Structural Steel Buildings*
4. AWS D1.4-18, *Structural Welding Code – Steel*.

Results

Structure stresses were calculated utilizing the structural analysis software RISA 3D. The stresses were determined based on the AISC standard.

- Calculated stresses for the antenna frame were found to **be within allowable** limits.

Sector	Component	Stress Ratio (percentage of capacity)	Result
All Sectors	Antenna Frame	4%	PASS

Conclusion

This analysis shows that the subject antenna mounts and host building **HAVE SUFFICIENT CAPACITY** to support the proposed modified antenna configuration.

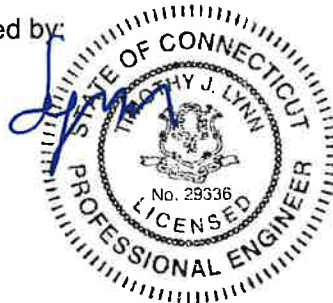
The analysis is based, in part, on the information provided to this office by Verizon. If the existing conditions are different than the information in this report, Centek Engineering, Inc. must be contacted for resolution of any potential issues.

Please feel free to call with any questions or comments.

Respectfully Submitted by:



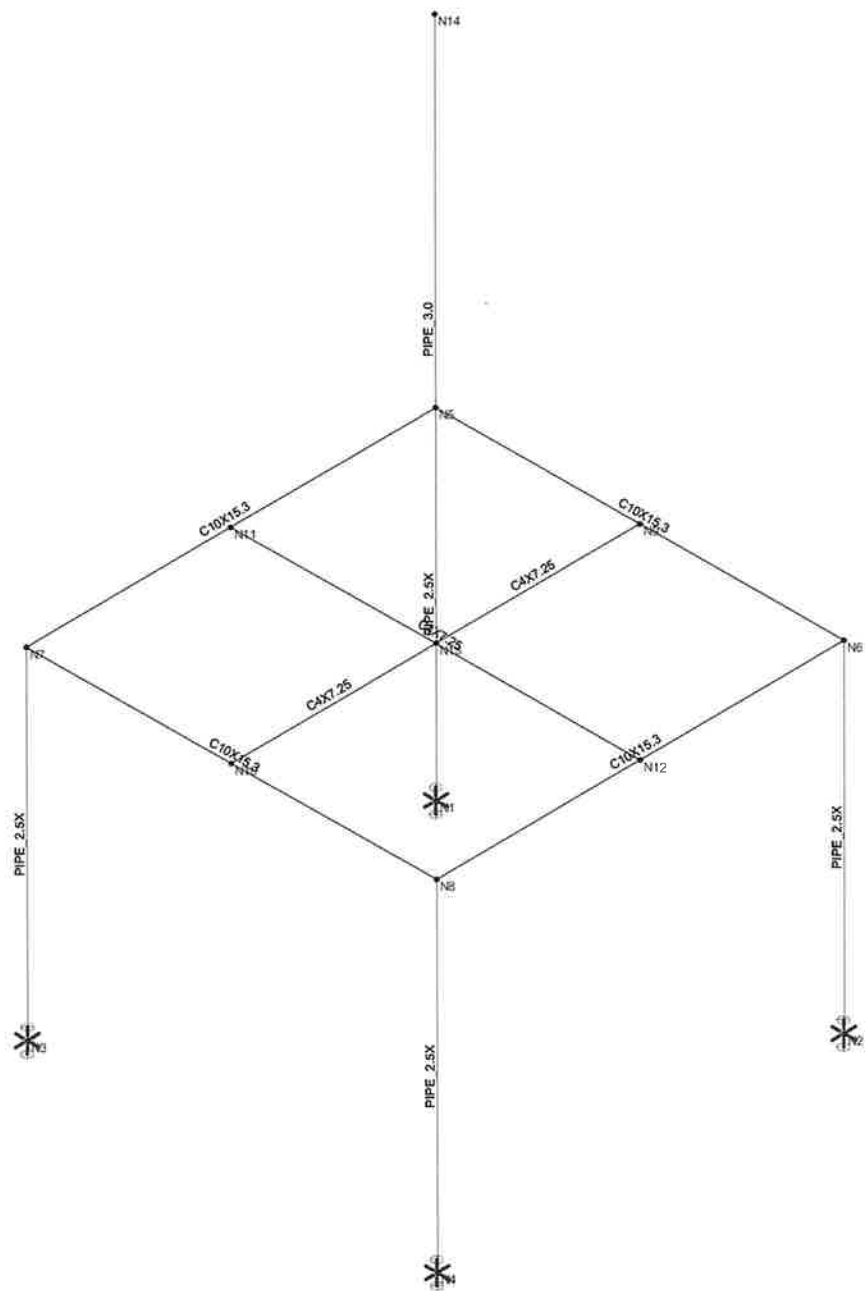
Timothy J. Lynn, PE
Structural Engineer



*Standard Conditions for Furnishing of
Professional Engineering Services on
Existing Structures*

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessarily limited to:

- Information supplied by the client regarding the structure itself, its foundations, the soil conditions, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from the field and/or drawings in the possession of Centek Engineering, Inc. or generated by field inspections or measurements of the structure.
- It is the responsibility of the client to ensure that the information provided to Centek Engineering, Inc. and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an uncorroded condition and have not deteriorated. It is therefore assumed that its capacity has not significantly changed from the “as new” condition.
- All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest revision of ANSI/ASCE10 & ANSI/EIA-222
- All services performed, results obtained, and recommendations made are in accordance with generally accepted engineering principles and practices. Centek Engineering, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



Envelope Only Solution

Centek Engineering

TJL

22105.05

Mystic SC1
Member Framing

Sept 13, 2022 at 2:52 PM

Mount.r3d

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	Yes
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	12
Eigensolution Convergence Tol. (1.E-)	4
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Sparse Accelerated
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): ASD
Adjust Stiffness?	Yes(Iterative)
RISAConnection Code	AISC 14th(360-10): ASD
Cold Formed Steel Code	AISI S100-10: ASD
Wood Code	AWC NDS-12: ASD
Wood Temperature	< 100F
Concrete Code	ACI 318-11
Masonry Code	ACI 530-11: ASD
Aluminum Code	AA ADM1-10: ASD - Building
Stainless Steel Code	AISC 14th(360-10): ASD
Adjust Stiffness?	Yes(Iterative)

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parame Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	No
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR SET ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8

(Global) Model Settings, Continued

Seismic Code	ASCE 7-10
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	Yes
Ct X	.02
Ct Z	.02
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	3
R Z	3
Ct Exp. X	.75
Ct Exp. Z	.75
SD1	1
SDS	1
S1	1
TL (sec)	5
Risk Cat	I or II
Drift Cat	Other
Om Z	1
Om X	1
Cd Z	4
Cd X	4
Rho Z	1
Rho X	1
Footing Overturning Safety Factor	1
Optimize for OTM/Sliding	No
Check Concrete Bearing	No
Footing Concrete Weight (k/ft^3)	150.001
Footing Concrete f'c (ksi)	4
Footing Concrete Ec (ksi)	3644
Lambda	1
Footing Steel fy (ksi)	60
Minimum Steel	0.0018
Maximum Steel	0.0075
Footing Top Bar	#3
Footing Top Bar Cover (in)	2
Footing Bottom Bar	#3
Footing Bottom Bar Cover (in)	3.5
Pedestal Bar	#3
Pedestal Bar Cover (in)	1.5
Pedestal Ties	#3

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (L...	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	58	1.2
3	A992	29000	11154	.3	.65	.49	50	1.1	58	1.2
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.3	58	1.1
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.2	58	1.1
6	A53 Grade B	29000	11154	.3	.65	.49	35	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Mast	PIPE 3.0	Column	Pipe	A53 Grade B	Typical	2.07	2.85	2.85	5.69
2	Post	PIPE 2.5X	Column	Pipe	A53 Grade B	Typical	2.1	1.83	1.83	3.66
3	C10	C10X15.3	Beam	Channel	A36 Gr.36	Typical	4.48	2.27	67.3	.209
4	C4	C4X7.25	Beam	Channel	A36 Gr.36	Typical	2.13	.425	4.58	.082

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[...]	Lcomp bot[...]	L-torq...	Kyy	Kzz	Cb	Funci...
1	M1	Post	2.5									Lateral
2	M2	Post	2.5									Lateral
3	M3	Post	2.5									Lateral
4	M4	Post	2.5									Lateral
5	M5	C10	3			Lbyy						Lateral
6	M6	C10	3			Lbyy						Lateral
7	M7	C10	3			Lbyy						Lateral
8	M8	C10	3			Lbyy						Lateral
9	M9	C4	3			Lbyy						Lateral
10	M10	C4	1.5			Lbyy						Lateral
11	M11	C4	1.5			Lbyy						Lateral
12	M12	Antenna Mast	4									Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...)	Section/Shape	Type	Design List	Material	Design ...
1	M1	N5	N1			Post	Column	Pipe	A53 Grade B	Typical
2	M2	N6	N2			Post	Column	Pipe	A53 Grade B	Typical
3	M3	N7	N3			Post	Column	Pipe	A53 Grade B	Typical
4	M4	N8	N4			Post	Column	Pipe	A53 Grade B	Typical
5	M5	N7	N8		90	C10	Beam	Channel	A36 Gr.36	Typical
6	M6	N8	N6		90	C10	Beam	Channel	A36 Gr.36	Typical
7	M7	N6	N5		90	C10	Beam	Channel	A36 Gr.36	Typical
8	M8	N5	N7		90	C10	Beam	Channel	A36 Gr.36	Typical
9	M9	N11	N12		90	C4	Beam	Channel	A36 Gr.36	Typical
10	M10	N10	N13		90	C4	Beam	Channel	A36 Gr.36	Typical
11	M11	N13	N9		90	C4	Beam	Channel	A36 Gr.36	Typical
12	M12	N13	N14			Antenna Mast	Column	Pipe	A53 Grade B	Typical

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	3	0	0	0	
3	N3	0	0	3	0	
4	N4	3	0	3	0	
5	N5	0	2.5	0	0	
6	N6	3	2.5	0	0	
7	N7	0	2.5	3	0	
8	N8	3	2.5	3	0	
9	N9	1.5	2.5	0	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
10	N10	1.5	2.5	3	0	
11	N11	0	2.5	1.5	0	
12	N12	3	2.5	1.5	0	
13	N13	1.5	2.5	1.5	0	
14	N14	1.5	6.5	1.5	0	

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N3	Reaction	Reaction	Reaction		Reaction	
2	N4	Reaction	Reaction	Reaction		Reaction	
3	N1	Reaction	Reaction	Reaction		Reaction	
4	N2	Reaction	Reaction	Reaction		Reaction	

Member Point Loads (BLC 2 : Weight of Equipment)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	M12	Y	-.03	4
2	M12	Y	-.075	2

Member Distributed Loads

Member Label	Direction	Start Magnitude[k/ft,F,ksf]	End Magnitude[k/ft,F,k...	Start Location[ft..End Location[ft...
No Data to Print ...				

Basic Load Cases

	BLC Description	Category	X Gra...	Y Gra...	Z Gra...	Joint	Point	Distrib..	Area(... Surfa...
1	Self Weight	DL		-1					
2	Weight of Equipment	DL					2		
3	Wind X-Direction	WLX							
4	Wind Z-Direction	WLZ							

Load Combinations

Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
1	IBC 16-8	Yes	Y	DL	1											
2	IBC 16-9	Yes	Y	DL	1	LL	1	LLS	1							
3	IBC 16-12 (a) (a)	Yes	Y	DL	1	W...	.6									
4	IBC 16-12 (a) (b)	Yes	Y	DL	1	W...	.6									
5	IBC 16-12 (a) (c)	Yes	Y	DL	1	W...	-.6									
6	IBC 16-12 (a) (d)	Yes	Y	DL	1	W...	-.6									
7	IBC 16-13 (a) (a)	Yes	Y	DL	1	W...	.45	LL	.75	LLS	.75					
8	IBC 16-13 (a) (b)	Yes	Y	DL	1	W...	.45	LL	.75	LLS	.75					
9	IBC 16-13 (a) (c)	Yes	Y	DL	1	W...	-.45	LL	.75	LLS	.75					
10	IBC 16-13 (a) (d)	Yes	Y	DL	1	W...	-.45	LL	.75	LLS	.75					
11	IBC 16-15 (a)	Yes	Y	DL	.6	W...	.6									
12	IBC 16-15 (b)	Yes	Y	DL	.6	W...	.6									
13	IBC 16-15 (c)	Yes	Y	DL	.6	W...	-.6									

Load Combinations (Continued)

Description	So...	P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
14 IBC 16-15 (d)	Yes	Y		DL	.6	W...	-.6							

Envelope Joint Reactions

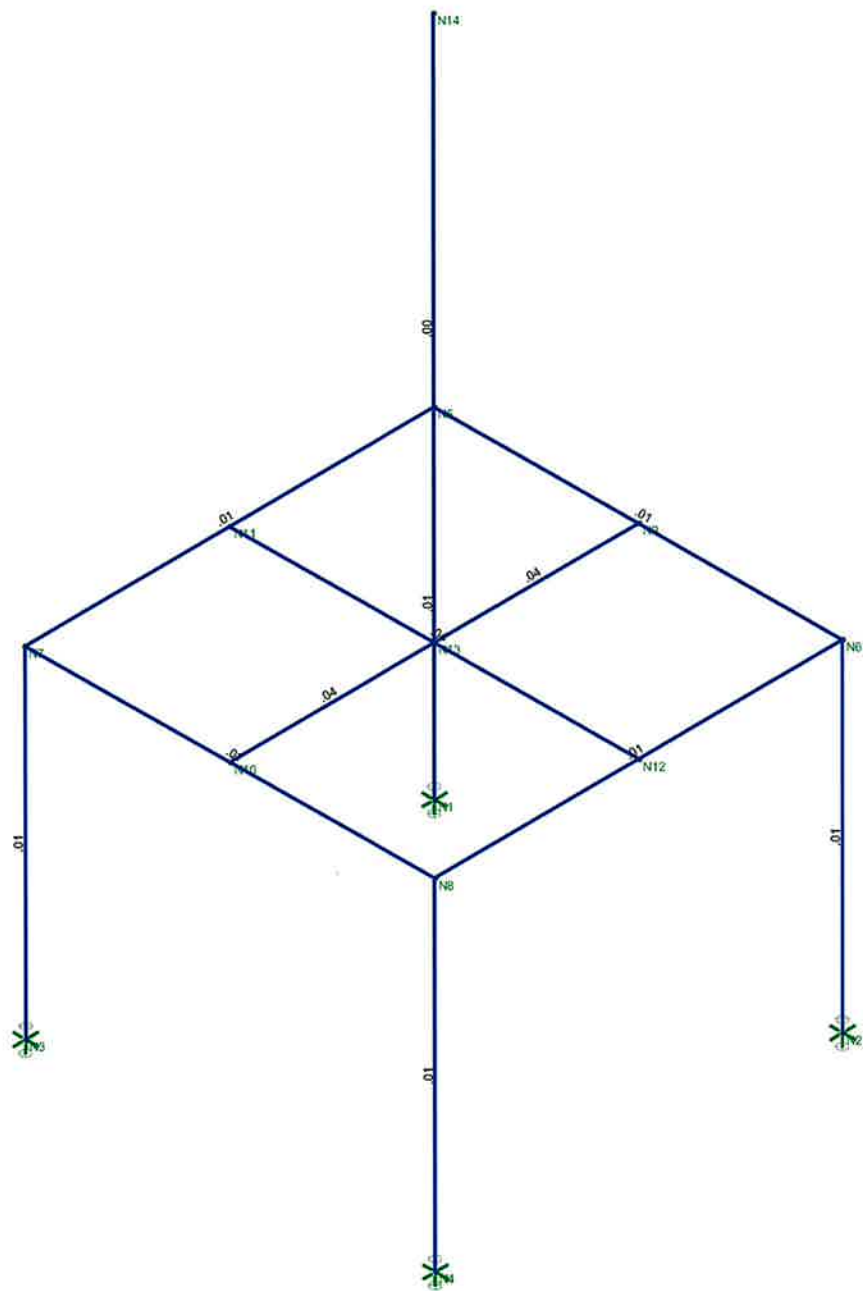
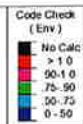
Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 N3	max	.009	10	.108	10	-.005	14	0	14	0	14	0	14
2	min	.005	11	.065	11	-.009	1	0	1	0	1	0	1
3 N4	max	-.005	14	.108	10	-.005	14	0	14	0	14	0	14
4	min	-.009	1	.065	11	-.009	1	0	1	0	1	0	1
5 N1	max	.009	10	.108	10	.009	10	0	14	0	14	0	14
6	min	.005	11	.065	11	.005	11	0	1	0	1	0	1
7 N2	max	-.005	14	.108	10	.009	10	0	14	0	14	0	14
8	min	-.009	1	.065	11	.005	11	0	1	0	1	0	1
9 Totals:	max	0	14	.431	10	0	14						
10	min	0	1	.259	11	0	1						

Envelope Joint Displacements

Joint		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1 N1	max	0	14	0	14	0	14	-1.869e-05	14	0	14	3.115e-05	10
2	min	0	1	0	1	0	1	-3.115e-05	1	0	1	1.869e-05	11
3 N2	max	0	14	0	14	0	14	-1.869e-05	14	0	14	-1.869e-05	14
4	min	0	1	0	1	0	1	-3.115e-05	1	0	1	-3.115e-05	1
5 N3	max	0	14	0	14	0	14	3.115e-05	10	0	14	3.115e-05	10
6	min	0	1	0	1	0	1	1.869e-05	11	0	1	1.869e-05	11
7 N4	max	0	14	0	14	0	14	3.115e-05	10	0	14	-1.869e-05	14
8	min	0	1	0	1	0	1	1.869e-05	11	0	1	-3.115e-05	1
9 N5	max	0	10	0	14	0	10	6.459e-05	10	0	14	-3.875e-05	14
10	min	0	11	0	1	0	11	3.875e-05	11	0	1	-6.459e-05	1
11 N6	max	0	14	0	14	0	10	6.459e-05	10	0	14	6.459e-05	10
12	min	0	1	0	1	0	11	3.875e-05	11	0	1	3.875e-05	11
13 N7	max	0	10	0	14	0	14	-3.875e-05	14	0	14	-3.875e-05	14
14	min	0	11	0	1	0	1	-6.459e-05	1	0	1	-6.459e-05	1
15 N8	max	0	14	0	14	0	14	-3.875e-05	14	0	14	6.459e-05	10
16	min	0	1	0	1	0	1	-6.459e-05	1	0	1	3.875e-05	11
17 N9	max	0	14	0	14	0	10	2.133e-04	10	0	14	0	14
18	min	0	1	0	1	0	11	1.28e-04	11	0	1	0	1
19 N10	max	0	14	0	14	0	14	-1.28e-04	14	0	14	0	14
20	min	0	1	0	1	0	1	-2.133e-04	1	0	1	0	1
21 N11	max	0	10	0	14	0	14	0	14	0	14	-1.28e-04	14
22	min	0	11	0	1	0	1	0	1	0	1	-2.133e-04	1
23 N12	max	0	14	0	14	0	14	0	14	0	14	2.133e-04	10
24	min	0	1	0	1	0	1	0	1	0	1	1.28e-04	11
25 N13	max	0	14	-.003	14	0	14	0	14	0	14	0	14
26	min	0	1	-.005	1	0	1	0	1	0	1	0	1
27 N14	max	0	14	-.003	14	0	14	0	14	0	14	0	14
28	min	0	1	-.005	1	0	1	0	1	0	1	0	1

Envelope AISC 15th(360-16): ASD Steel Code Checks

Memb...	Shape	Code Check	L...	LC	Sh...	L...	Dir	Pnc/o...	Pnt/o...	Mnyy/om [k-ft]	Mn...	Cb	Eqn
1	M1 PIPE 2.5X	.011	0	10	.001	0		41.746	44.012	3.091	3.091	1...	H1...
2	M2 PIPE 2.5X	.011	0	10	.001	0		41.746	44.012	3.091	3.091	1...	H1...
3	M3 PIPE 2.5X	.011	0	10	.001	0		41.746	44.012	3.091	3.091	1...	H1...
4	M4 PIPE 2.5X	.011	0	10	.001	0		41.746	44.012	3.091	3.091	1...	H1...
5	M5 C10X15.3	.013	0	10	.006	1...	Z	84.408	96.575	3.319	28....	1...	H1...
6	M6 C10X15.3	.013	0	10	.006	1...	Z	84.408	96.575	3.319	28....	1...	H1...
7	M7 C10X15.3	.013	0	10	.006	1...	Z	84.408	96.575	3.319	28....	1...	H1...
8	M8 C10X15.3	.013	3	10	.006	1...	Z	84.408	96.575	3.319	28....	1...	H1...
9	M9 C4X7.25	.039	1.5	10	.003	3	Z	32.618	45.916	.969	4.913	1	H1...
10	M10 C4X7.25	.039	1.5	10	.003	0	Z	42.154	45.916	.969	5.102	1	H1...
11	M11 C4X7.25	.039	0	10	.003	1.5	Z	42.154	45.916	.969	5.102	1	H1...
12	M12 PIPE 3.0	.003	0	10	.000	0		39.822	43.383	3.825	3.825	1	H1...



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Centek Engineering

TJL

22105.05

Mystic SC1

Unity Check

Sept 13, 2022 at 2:52 PM

Mount.r3d



EAST > North East > New England > New England West > MYSTIC SC 1 CT

RF Submit by: , - - 2/23/2022, 10:34:53 AM

EE Submit by: Driscoll, Janet - janet.driscoll@verizonwireless.com - 7/19/2022, 8:23:55 AM

Project Details

Location Information

FUZE Project ID: 16774002

Project Name: Radio Swap

Project Alt Name: MYSTIC SC 1 CT - NENG_SC_ESNAP

Project Type: Modification

Modification Type: RF

Designed Sector Carrier 4G: 2

Designed Sector Carrier 5G: N/A

Additional Sector Carrier 4G: N/A

Additional Sector Carrier 5G: N/A

FP Solution Type & Tech Type: MODIFICATION;4G_700,4G_850,4G_Radio Swap

Carrier Aggregation: false

MPT Id:

eCIP-O: false

Suffix: Rev0_20220223

Site ID: 3400790

E-NodeB ID: 064439,0647439

PSLC: 467653

Switch Name: Wallingford 1

Tower Owner:

Tower Type: Rooftop

Site Type: SMALL-CELL

Site Sub Type: SPOKE

Street Address: 212 Deans Mill Rd

City: Stonington

State: CT

Zip Code: 06378

County: New London

Latitude: 41.37148056 / 41° 22' 17.33" N

Longitude: -71.92881611 / 71° 55' 43.738" W

RFDS Project Scope: Per ESNAP direction, changing to 700/850
Swap antenna to HTXCWW63111414F
Swap RRH to SS dual-band (700/850)

Rev0_20220223: initial design

Antenna Summary

Added

700	850	AWS	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	LTE		AMPHENOL	HTXCWW63111414F00-T05-750-RED-(+45) NO BA	26.6	27.6	295(04)	false	false	PHYSICAL	1	

Removed

700	850	AWS	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
		LTE	ANDREW	HBX-6513DS-A1M	26.6	27.7	295(04)	false	false	PHYSICAL	1	

Retained

700	850	AWS	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
-----	-----	-----	------	-------	------------	------------	---------	-----	------	------------	----------	---------

No data available.

Added: 1 Removed: 1

Retained: 0

Equipment Summary

Added

Equipment Type	Location	700	850	AWS	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Kit	Tower				GEMINI	1600131299A			PHYSICAL	1	1600131299A
Kit	Tower				GEMINI	1600270671A			PHYSICAL	1	1600270671A
Kit	Tower				QUADELECTRIC	F113CGRS0101FLF025			PHYSICAL	2	F113CGRS0101FLF0
Kit	Tower				QUADELECTRIC	FLI0020T010046M010			PHYSICAL	2	FLI0020T010046M
Kit	Tower				QUADELECTRIC	SAM-CBRS-BRT-NID			PHYSICAL	1	SAM-CBRS-BRT-NID
Kit	Tower				QUADELECTRIC	TRAT303H1B1J00F050			PHYSICAL	8	TRAT303H1B1J00F0
Kit	Tower				QUADELECTRIC	UXP-4MT-12S			PHYSICAL	8	UXP-4MT-12S
Kit	Tower				QUADELECTRIC	WPS-4F			PHYSICAL	8	WPS-4F
Kit	Tower				QUADELECTRIC	WPS-N-4S			PHYSICAL	8	WPS-N-4S
Kit	Tower				QUADELECTRIC	V3000			PHYSICAL	1	V3000
RRU	Tower	LTE	LTE		Samsung	B5/B13 RRH-BR04C (RFV01U-D2A)			PHYSICAL	1	SLS-BR04C4ECEX

Removed

Equipment Type	Location	700	850	AWS	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
RRU	Tower			LTE	Nokia	UHIC B4 RRH 2x60-4R			PHYSICAL	1	

Retained

Equipment Type	Location	700	850	AWS	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
----------------	----------	-----	-----	-----	------	-------	--------------	------------	--------------	----------	---------

No data available.

Service Info

700 MHz LTE

0002

Sector
Azimuth
Cell / ENode B ID
Antenna Model

Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

04
295
064439
HTXCWW63111414F00-T 05-750-RED-
(+45)_NO_BA
AMPHENOL
26.6
0
5
27.6
4.22
5230
10
38.02

Samsung
B5/B13 RRH-BR04C (RFV01U-D2A)
2,2

12436008
ATOLL_API

850 MHz LTE

0002

Sector
Azimuth
Cell / ENode B ID
Antenna Model

Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

04
295
064439
HTXCWW63111414F00-T 05-850-RED-
(-45)_NO_BA
AMPHENOL
26.6
0
5
27.6
8.45
2450
10
38.02

Samsung
B5/B13 RRH-BR04C (RFV01U-D2A)
2,2

12436009
ATOLL_API

2100 MHz LTE		-0000	
	Sector	04	
	Azimuth	295	
	Cell / ENode B ID	064439	
	Antenna Model	HBX-6513DS-A1M	
	Antenna Make	ANDREW	
	Antenna Centerline(Ft)	26.6	
	Mechanical Down-Tilt(Deg.)	0	
	Electrical Down-Tilt	0	
	Tip Height	27.7	
	Regulatory Power	111.33	
	DLEARFCN	2050	
	Channel Bandwidth(MHz)	20	
	Total ERP (W)	1221.52	
	TMA Make		
	TMA Model		
	RRU Make	Nokia	
	RRU Model	UHIC B4 RRH 2x60-4R	
	Number of Tx, Rx Lines	2,2	
	Position		
	Transmitter Id	1962387	
	Source	ATOLL_API	
Service Comments			

Callsigns Per Antenna

Sector	Antenna Make	Antenna Model	Ant CL Height AGL	Tip Height	Azimuth (TN)	Elec Tilt	Mech Tilt	Gain	Beam Width	Regulatory Power	Callsigns						
											700	850	1900	2100	28 GHz	31 GHz	39 GHz
04	AMPHENOL	HTXCWW63111414F00-T05-750-RED-(+45)_NO_BA	26.6	27.6	295	5	0	0	71.5	4.22	WQJQ689						
04	AMPHENOL	HTXCWW63111414F00-T05-850-RED-(-45)_NO_BA	26.6	27.6	295	5	0	0	75	8.45		KNKA745					

Callsigns

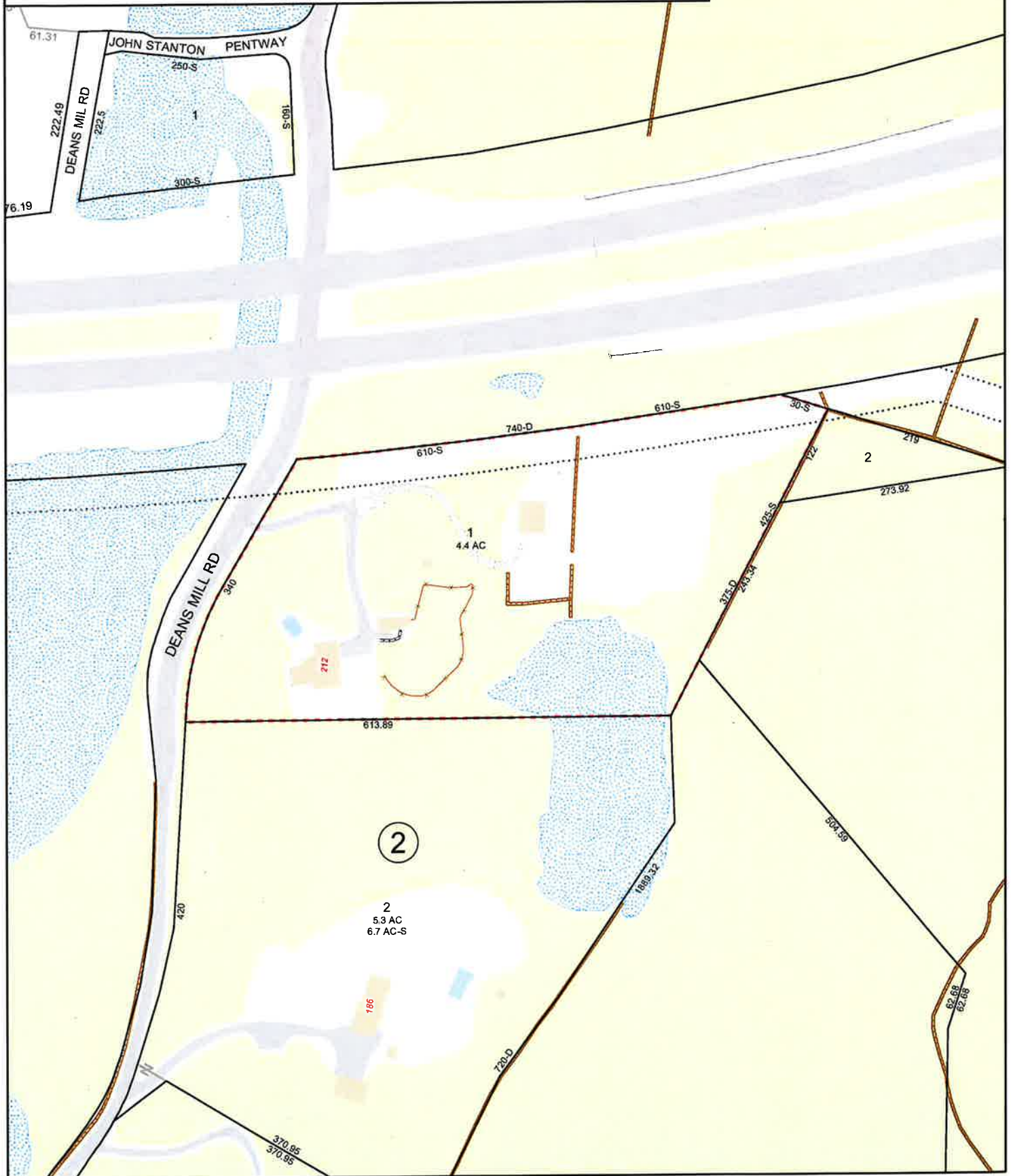
Callsign	Market	Radio Code	Market Number	Block	State	County	Licensee Name	Wholly Owned	Total MHZ	Freq Range 1	Freq Range 2	Freq Range 3	Freq Range 4	Regulatory Power	Threshold (W)	POPs /Sq Mi	Status	Action	Approved for Insvc
WQJQ689	Northeast	WU	REA001	C	CT	New London	Cellco Partnership	Yes	22.000	746.000-757.000	776.000-787.000	.000-.000	.000-.000	4.22	1000	412.19	Active	added	Yes
KNKA745	New London-Norwich, CT	CL	CMA154	A	CT	New London	Cellco Partnership	Yes	25.000	824.000-835.000	869.000-880.000	845.000-846.500	890.000-891.500	8.45	400	412.19	Active	added	Yes
WQGD494	New London-Norwich, CT	AW	CMA154	A	CT	New London	Cellco Partnership	Yes	20.000	1710.000-1720.000	2110.000-2120.000	.000-.000	.000-.000		1640	412.19	Active	removed	Yes
WQGA906	New York-No. New Jer.-Long Island, NY-NJ-CT-PA-MA-	AW	BEA010	B	CT	New London	Cellco Partnership	Yes	20.000	1720.000-1730.000	2120.000-2130.000	.000-.000	.000-.000		1640	412.19	Active	removed	Yes
WQEM954	New London-Norwich, CT	CW	BTA319	C	CT	New London	Cellco Partnership	Yes	10.000	1895.000-1900.000	1975.000-1980.000	.000-.000	.000-.000		1640	412.19	Active		Yes
WQDU931	New London-Norwich, CT	CW	BTA319	C	CT	New London	Cellco Partnership	Yes	10.000	1900.000-1905.000	1980.000-1985.000	.000-.000	.000-.000		1640	412.19	Active		Yes
KNLH263	New London-Norwich, CT	CW	BTA319	F	CT	New London	Cellco Partnership	Yes	10.000	1890.000-1895.000	1970.000-1975.000	.000-.000	.000-.000		1640	412.19	Active		Yes
WREE835	C09011 - New London, CT	UU	C09011	L1	CT	New London	Cellco Partnership	Yes	425.000	27500.000-27925.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WREE836	C09011 - New London, CT	UU	C09011	L2	CT	New London	Cellco Partnership	Yes	425.000	27925.000-28350.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD609	New York, NY	UU	PEA001	M1	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	37600.000-37700.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD610	New York, NY	UU	PEA001	M10	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	38500.000-38600.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD611	New York, NY	UU	PEA001	M2	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	37700.000-37800.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD612	New York, NY	UU	PEA001	M3	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	37800.000-37900.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD613	New York, NY	UU	PEA001	M4	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	37900.000-38000.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD614	New York, NY	UU	PEA001	M5	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	38000.000-38100.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD615	New York, NY	UU	PEA001	M6	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	38100.000-38200.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD616	New York, NY	UU	PEA001	M7	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	38200.000-38300.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD617	New York, NY	UU	PEA001	M8	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	38300.000-38400.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD618	New York, NY	UU	PEA001	M9	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	38400.000-38500.000	.000-.000	.000-.000	.000-.000			412.19	Active		Yes
WRHD619	New York, NY	UU	PEA001	N1	CT	New London	Straight Path Spectrum, LLC	Yes	100.000	38600.000-38700.000	.000-.000	.000-.000	.000-.000			412.19	Active	N/A	No
WRNE581	New York, NY	PM	PEA001	A1	CT	New London	Cellco Partnership	Yes	20.000	3700.000-3720.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active		Yes

WRNE582	New York, NY	PM	PEA001	A2	CT	New London	Cellco Partnership	Yes	20.000	3720.000- 3740.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active	Yes
WRNE583	New York, NY	PM	PEA001	A3	CT	New London	Cellco Partnership	Yes	20.000	3740.000- 3760.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active	Yes
WRNE584	New York, NY	PM	PEA001	A4	CT	New London	Cellco Partnership	Yes	20.000	3760.000- 3780.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active	No
WRNE585	New York, NY	PM	PEA001	A5	CT	New London	Cellco Partnership	Yes	20.000	3780.000- 3800.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active	No
WRNE586	New York, NY	PM	PEA001	B1	CT	New London	Cellco Partnership	Yes	20.000	3800.000- 3820.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active	No
WRNE587	New York, NY	PM	PEA001	B2	CT	New London	Cellco Partnership	Yes	20.000	3820.000- 3840.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active	No
WRNE588	New York, NY	PM	PEA001	B3	CT	New London	Cellco Partnership	Yes	20.000	3840.000- 3860.000	.000-.000	.000-.000	.000-.000		1640	412.19	Active	No

ATTACHMENT 5

Town of Stonington, Connecticut - Assessment Parcel Map

Parcel: 134-2-1 Address: 212 DEANS MILL RD



Approximate Scale:

1 inch = 150 feet

0 90 180 270 360 Feet

Revised To Grand List: October 2021 Map Produced: February 2022

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The Town of Stonington and its mapping contractors assume no legal responsibility for the information contained herein.



Town of Stonington, CT

Property Listing Report

Map Block Lot

134-2-1

Building #

1

PID

6527

Account

00078200

Property Information

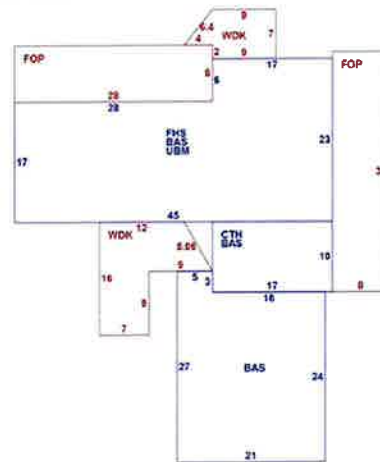
Property Location	212 DEANS MILL RD
Owner	LYON THOMAS CAMERON III
Co-Owner	
Mailing Address	564 TAUGWONK RD STONINGTON CT 06378
Land Use	0101 Single Fam M-01
Land Class	R
Zoning Code	GB-130
Census Tract	7052

Neighborhood	0060
Acreage	4.4
Utilities	Well,Septic
Lot Setting/Desc	Suburban Above Street
Book / Page	834/991
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	1968
Building Desc.	Single Fam M-01
Building Style	Cape Cod
Building Grade	Ave/Good
Stories	1.5
Occupancy	1
Exterior Walls	Logs
Exterior Walls 2	NA
Roof Style	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Walls	K Pine/A Wd
Interior Walls 2	NA
Interior Floors 1	Pine/Soft Wood
Interior Floors 2	

Heating Fuel	Electric
Heating Type	Electr Basebrd
AC Type	None
Bedrooms	03
Full Bathrooms	2
Half Bathrooms	1
Extra Fixtures	
Total Rooms	7 Rooms
Bath Style	Average
Kitchen Style	Average
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	
Fireplaces	

(*Industrial / Commercial Details)

Building Use	Residential
Building Condition	AV
Sprinkler %	
Heat / AC	
Frame Type	
Baths / Plumbing	
Ceiling / Wall	
Rooms / Prtns	
Wall Height	
First Floor Use	
Foundation	

Report Created On

12/8/2022

Town of Stonington, CT

Property Listing Report

Map Block Lot

134-2-1

Building # 1

1

PID

6527

Account

00078200

Valuation Summary			Sub Areas		
(Assessed value = 70% of Appraised Value)					
Item	Appraised	Assessed	Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Buildings	143100	100200	First Floor	1556	1556
Extras	32200	22600	Cathedral Ceil	170	0
Improvements			Half Story, Finished	867	564
Outbuildings	47800	33400	Porch, Open	496	0
Land	161300	113000	Basement, Unfinished	867	0
Total	384400	269200	Deck, Wood	234	0
Outbuilding and Extra Features					
Type	Description				
VINYL/PLASTIC	416.00 S.F.				
PLTRY HSE 1 ST	96.00 S.F.				
1 STORY W/LOFT	720.00 S.F.				
SHED FRAME	168.00 S.F.				
1.5 STORY CHIM	1.00 UNITS				
EXTRA FPL OPEN	1.00 UNITS				
SOLAR ELEC	56.00 UNITS				
SHED FRAME	168.00 S.F.				
LEAN-TO	120.00 S.F.				
PLTRY HSE 1 ST	24.00 S.F.				
			Total Area	4190	2120

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
LYON THOMAS CAMERON III	834/991	3/31/2022	
HOME IN CT LLC	819/773	5/26/2021	218500
BORGES PHYLLIS B ESTATE OF	788/541	6/10/2019	
BORGES PHYLLIS B	0754/1020	8/11/2016	0
BORGES PHYLLIS B	0753/0430	7/1/2016	0
BORGES PHYLLIS B	0751/0829	5/16/2016	0
BORGES PHYLLIS B & DEMATTIA MARTHA S	0716/0877	5/28/2013	0
BORGES PHYLLIS B & DEMATTIA MARTHA S	0598/0890	3/22/2006	0

Report Created On

12/8/2022



Town of Stonington, CT

Property Listing Report

Map Block Lot

134-2-1

Building #

2

PID

6527

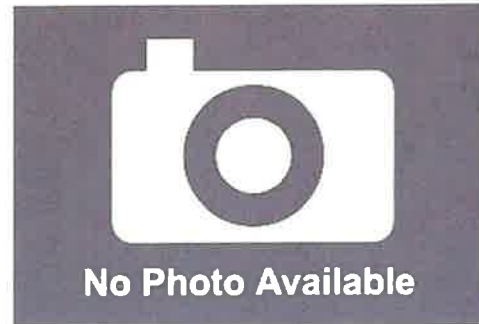
Account

00078200

Photo



Sketch



Primary Construction Details

Year Built	
Building Desc.	Vacant
Building Style	
Building Grade	
Stories	
Occupancy	
Exterior Walls	
Exterior Walls 2	NA
Roof Style	
Roof Cover	
Interior Walls	
Interior Walls 2	NA
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	
Fireplaces	

(*Industrial / Commercial Details)

Building Use	TEL X STA M-00
Building Condition	
Sprinkler %	
Heat / AC	
Frame Type	
Baths / Plumbing	
Ceiling / Wall	
Rooms / Prtns	
Wall Height	
First Floor Use	
Foundation	

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)



Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

ATTACHMENT 6



Mystic SC1

Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender 3	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here Postmark with Date of Receipt. neopost [®] 02/08/2023 US POSTAGE \$003.19 ⁰  ZIP 06103 041L12203937			
	Postmaster, per (name of receiving employee) AS					
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)		Postage	Fee	Special Handling	Parcel Airlift
1.	Danielle Chesebrough, First Selectman Town of Stonington 152 Elm Street Stonington, CT 06378					
	Keith Brynes, Town Planner Town of Stonington 152 Elm Street Stonington, CT 06378					
2.	Thomas Cameron Lyon III 564 Taugwonk Road Stonington, CT 06378					
3.						
4.						
5.						
6.						