SECOND AMENDMENT TO LEASE AGREEMENT

THIS	SECOND	AMENDMENT	TO	LEASE	AGREEM	ENT (the	"Second	
Amendment")	is made th	nisday of _			, 2021,	between	the	City of	
Milwaukee, a	Wisconsin m	nunicipal corporatio	n with	an addres	s located at 2	200 East	Well	ls Street,	
Milwaukee, W	Visconsin 53	202 (hereinafter "	LESS	OR") and	Cellco Partn	nership o	l/b/a	Verizon	
Wireless, with its principal offices located at One Verizon Way, Mailstop 4AW100, Basking Ridge,									
New Jersey 07	920 (hereina	fter "LESSEE").			•				

WHEREAS, there is now in full force and effect between LESSOR and Verizon Wireless Personal Communications LP d/b/a Verizon Wireless that certain Lease Agreement dated June 6, 2001, as amended by the Amendment To Lease Agreement dated December 6, 2013 (collectively the "Agreement") which provides for the location, installation and operation of LESSEE's communications Equipment within the Leased Space on real property located at 8814 W. Lisbon Avenue, City of Milwaukee, County of Milwaukee, Wisconsin ("Property"); and

WHEREAS, LESSEE is the successor in interest to Verizon Wireless Personal Communications LP d/b/a Verizon Wireless; and

WHEREAS, LESSOR and LESSEE desire to amend the Agreement to allow for modifications to LESSEE's Equipment with the Leased Space as set forth herein; and

WHEREAS, LESSOR agrees that LESSEE shall be entitled to modify its Equipment at the Leased Space; and

WHEREAS, it is now the intention of LESSOR and LESSEE to enter into an agreement amending the Agreement.

NOW THEREFORE, for good and valuable consideration including the mutual covenants and agreements hereinafter set forth, LESSOR and LESSEE agree as follows:

- 1. **Equipment Modifications.** LESSOR agrees that LESSEE may install and perform the Equipment modifications ("Modifications") as depicted on Exhibit "B-2", attached hereto and incorporated herein. Exhibit "B-1" referred to in the Agreement is hereby deleted and replaced with the attached Exhibit "B-2" which depicts LESSEE's approved Equipment within the Leased Space. Provided that LESSEE has received all necessary permits and approvals from appropriate governing bodies, LESSEE may immediately commence installation of the Modifications as depicted on Exhibit "B-2". LESSOR agrees that the installation plan in the attached Exhibit "B-2" depicting the location and manner of LESSEE's Equipment installation is acceptable.
- 2. <u>Exhibit "C-1".</u> LESSEE's Equipment list identified as Exhibit "C-1" is hereby deleted in its entirety and replaced with Exhibit "C-2" Revised Equipment list attached hereto and made a part of the Agreement.
 - 3. The address for notice to LESSEE as contemplated in Paragraph 16 of the

Agreement is hereby amended with the following:

LESSEE:

Cellco Partnership d/b/a Verizon Wireless 180 Washington Valley Road Bedminster, NJ 07921 Attn: Network Real Estate

- 4. All defined terms referenced in this Second Amendment shall have the meaning as stated and defined in the Agreement.
- 5. Other than as specifically amended herein, all other terms and conditions of the Agreement shall remain in full force and effect. If there is any conflict between the terms of the this Second Amendment and the Agreement, this Second Amendment shall control.

[remainder of page intentionally left blank; signature page follows]

IN WITNESS WHEREOF, the parties hereto have executed in duplicate this Second Amendment on the day and year first above written.

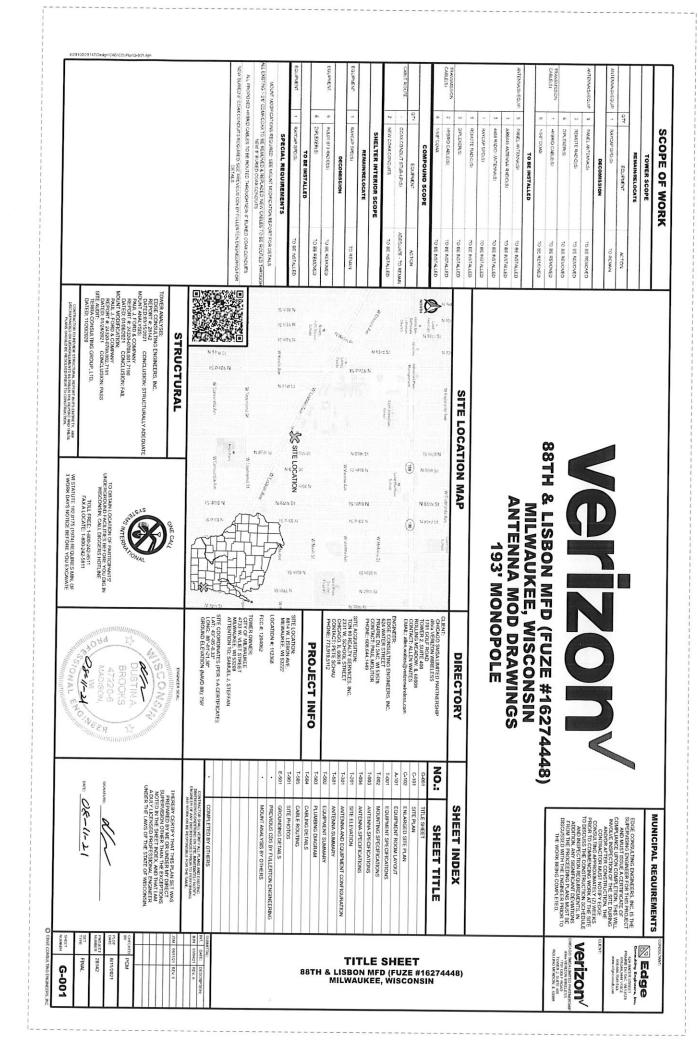
LESSOR:

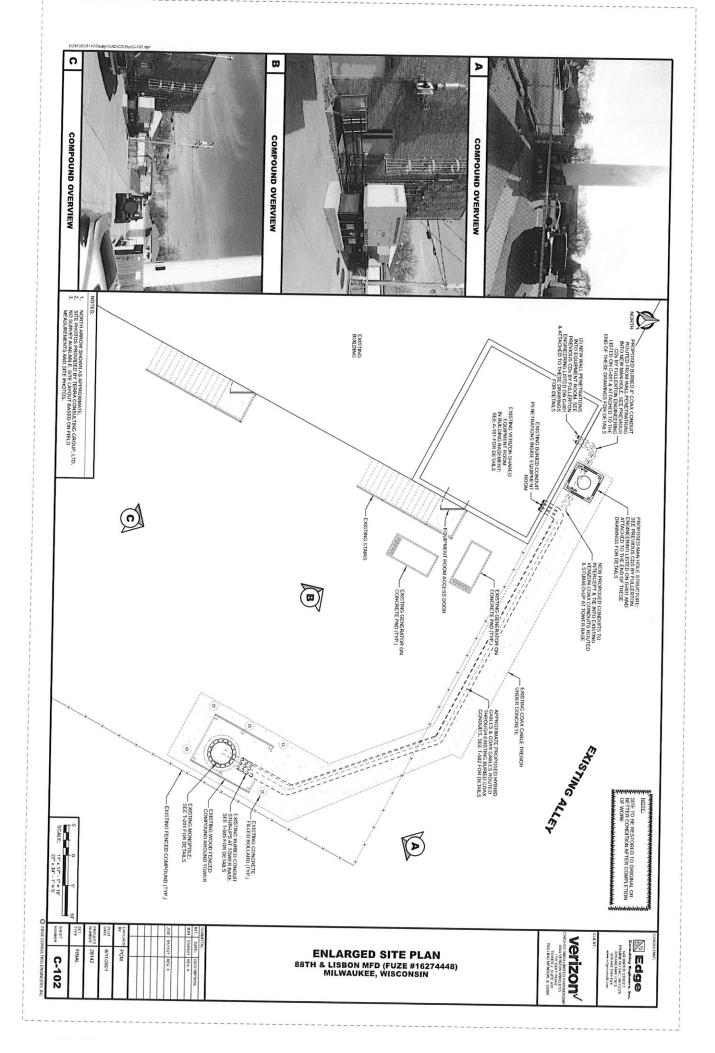
City of Milwaukee, a Wisconsin municipal corporation

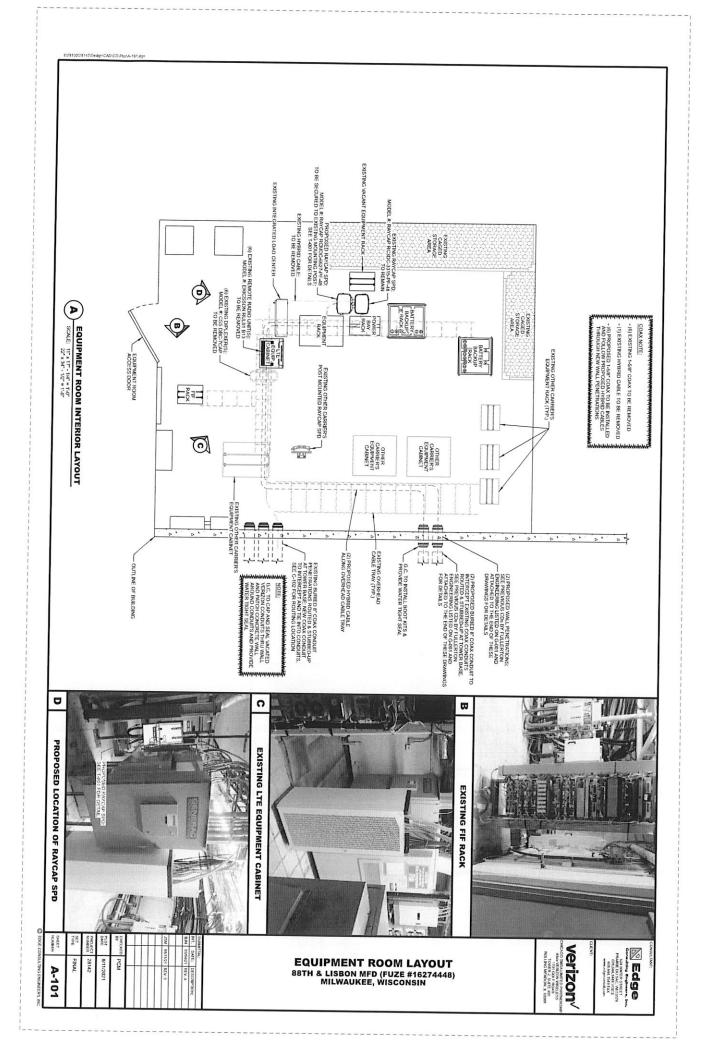
By:
Name: Tom Barrett
Title: Mayor
Date:
Ву:
Name: James Owezarski
Title: City Clerk
Date:
By:
Name: Aycha Sawa
Title: Comptroller
Date:
LESSEE:
Cellco Partnership d/b/a Verizon Wireless
\rightarrow \sim \sim
By: Della Karnen
Name of the state
Name:Dena Ranieri Title:Sr. Manager - Network RE
Sr. Manager - Network Dr.
(-
Date: $(0-22-202)$

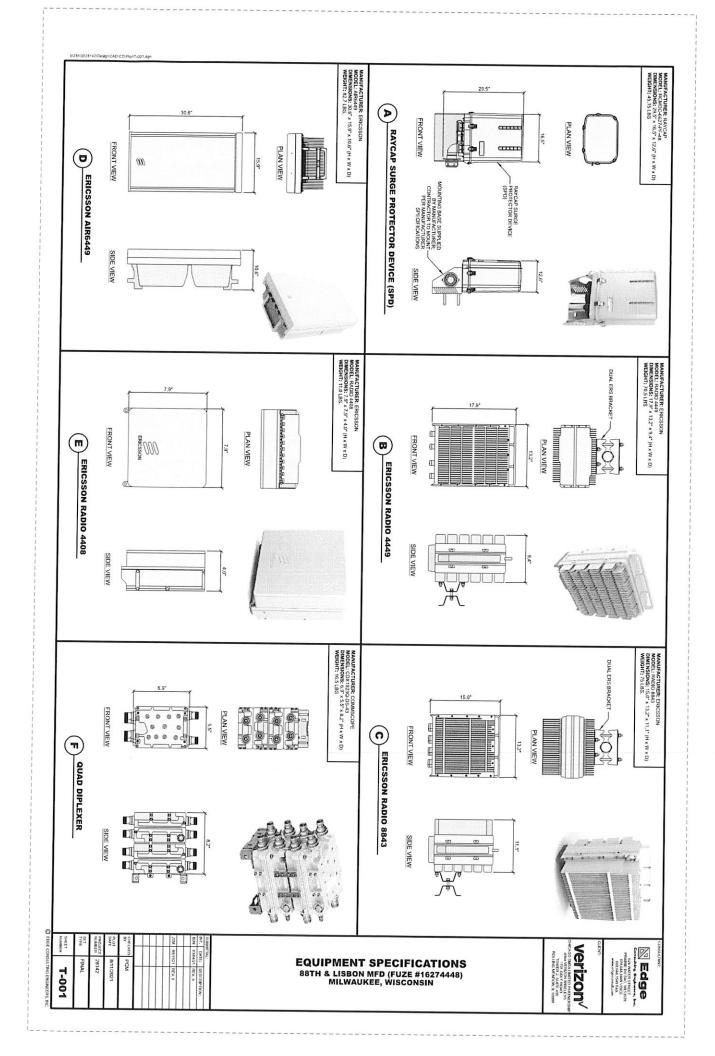
EXHIBIT "B-2"

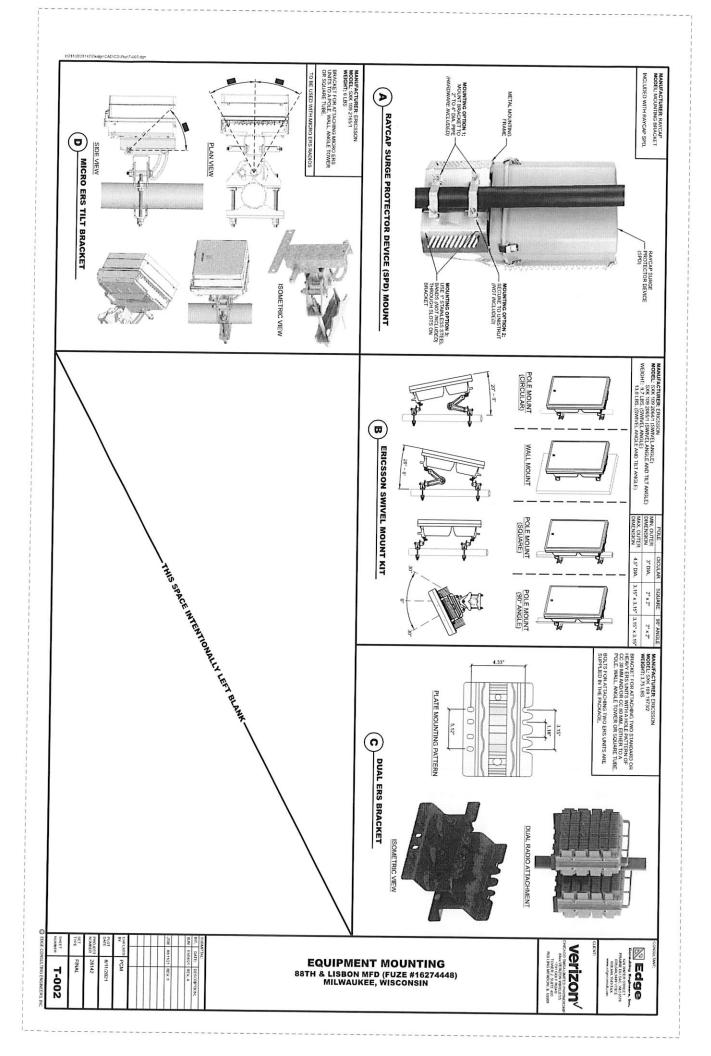
(Site Sketch of LESSEE's Equipment within the Leased Space)











NHH-65B-R2B



HPBW, 2x RET. Both high bands share the same electrical tilt. 6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65°

- Interiessed dipole technology growting for attractive, low wind load mechanical package internal SST on low and high band allow remote RET control from the risdio over the RF jumper cable.
- Separate 68-465 RET industroupout for low and high band.

 One SET for low band and one RET for both high bands to angure same titl level for 4x Rx or

General Specifications

Effective Projective Area (EPA), frontal Performance Note Grounding Type Effective Projective Area (EPA), lateral Antenna Type HF connector body grounded to reflector and mounting bracket Multiband 0.22 m³ | 2368 ft² 0.26 m² | 2.799 ft^a Light gray

Bottom 7-16 DtN Female Law loss circuit board Outdoor usage: | Wind loading figures are validated by wind turinel measurements described in white paper VP-11253-LEN Fiberglass, UV resistant

RF Connector Quantity, low band RF Connector Quantity, high band RF Connector Location RF Connector Interface Reflector Material Radiator Material Radome Material

Remote Electrical Tilt (RET) Information, Ceneral RF Connector Quantity, total

RET Interface, quantity 2 female | 2 male 8-pin DIN Female | 8-pin DIN Male

RET Interface

Width **Dimensions**

180 nm | 7.087 in 301 mm | 11.85 in

2021 Commissae, los de ligita immendade solemante securidad ye kor "mer traj timos producedos en estados de la Empedade ya Chamistero de Septembero ya produce do stratja mitod matria, desenvolvo immenda com (or ye mendade matria). De securido de producedo de produce de la produce de pr

NHH-65B-R2B 180° ± 30", dB CPR at Boresight, dB 5 N

Mechanical Specifications CPR at Sector, dB

Wind Loading at Velocity, maximum Wind Loading at Velocity, lateral Wind Loading at Velocity, frontal

Wind Loading at Velocity, rear

7 2 76

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4 19

Consulting Engineers, Inc.
624 WATER STREET
PAGE OF SAC, WASSETS
ANSAC, SAS VOICE
ANSAC, SA

Verizon ABUS VEREZON WIFELESS
TOWER 2. SUITE 400
ROLLING MEADOW, IL 40008

230.0 N @ 150 km/h | 51,7 lbf @ 150 km/h 278.0 N @ 150 km/h | 53.6 lbf @ 150 km/h 23 23

Packaging and Weights

Wind Speed, maximum

282 0 N @ 150 km/h | 63.4 lbf @ 150 km/h

12071bf@150km/n | 5370N@150km/n

24) km/h | 149.75 mph

Length, packed Depth, packed Width, packed

Weight, gross Net Weight, without mounting kit

19.8 kg 1 43.651 lb 1952 mm | 76.85 m 299 mm | 1 11 772 in 109 mm | 16 102 ii

32.3 kg | 71.299 lb

ANTENNA SPECIFICATIONS 88TH & LISBON MFD (FUZE #16274448) MILWAUKEE, WISCONSIN

Regulatory Compliance/Certifications

REACH-SVHC 150 9001:2015 CHIMA-ROHS Agency Classification

Evesigned, manufactured and/or distributed under this quality management system Compliant as per SVHC revision on www.commscope.com/ProductCompliance Below maximum concentration value

(e) ISO

Included Products

BSAMNT-3

Wide Profile Antenna Downtilt Mounting Kir for $2.4 \cdot 4.5 \ln (60 \cdot 115 \min)$ 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

COMMSCOPE:

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A ANTENNA SPECIFICATIONS

COMMSCOPE"

DATE:

PLOT 28142 8/11/2021 PCM

T-003

FINAL

Product Specifications

COMMSCOPE"





HBX-9016DS-VTM Andrew® Antenna, 1710-2180 MHz, 90° horizontal beamwidth, RET compatible

- Excellent gain, USLS, VSWR, and PIM specification to improve network quality
- Ideal solution to maximize coverage and capacity in suburban and rural areas
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- Wide horizontal and narrow vertical beamwidth to maximize coverage and capacity

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990	1920-2
Series and the series are series and the series and the series and the series are series and the series are series and the series and the series are series and the series are series and the series are series and the	17.7	17.7	18
Seamwidth, Morizontal, degrees	25.5	2	0.7
Beamwidth, Vertical, degrees	ភាព	a g	. 0/
Beam Tilt, degrees	0	4.	4.
15 5 dB	0=6	0-6	0-
	18	18	
TOTAL CONTRACT AND ALL LEGY, GB	28	28	v
PK at boresignt, db	21	24	000
CPR at Sector, dB	14	1.7	. ,
Isolation, dB	0.5	, ,	
VSWR Return Loss, dB		30	3
PIM, 3rd Order, 2 x 20 W, dBc	100	1.4 15.6	1 4 1 15
Input Power per Port, maximum, watts	255	200	1.53
olarization	350	350	35
The state of the s	#45°	+450	4450
and the state of t	S0 often	50 ohm	50 ohn

Jack, up Fount-to-Back Total Power at 180° ± 36°, gB CPR at Boresight, gB CPR at Sector, dB	Beamwidth, Horizontal Tolerance, degrees Beamwidth, Vertical Tolerance, dogrees	Gain by Beam Tilt, average, dB:	Frequency Band, MHz Gain by all Beam Tits, average, dBi Gain by all Beam Tits Tolerance, dB
- 2 2 2 3 2 4 4 3	6" 174 *1.4 *0.3	3 0 1 1 2 4	1710-1880 17.5 ±0.2
27 27 13	#1.5 #1.5	3 = 1 12 4	1850-1990 17.4 ±0.2
E 22 E E	5.04 5.14 5.14	2.41 0.8	1920-21 17.6 ±0.4

Electrical Specifications, BASTA*

General Specifications

Operating Frequency Band Antenna Type

Single band
DualPol® | Teletift®
1710 - 2180 MHz

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page 1 of 2 March 17, 2015

Product Specifications

COMMSCOPE

verizon^v

AND SAMSA LIMITED PARTNERS

STOT GOLF ROAD

TOWER 2. SUITE 400

ROLLING MEADOW, R. 69908

Consider Englands, Inc.
Consider Englands, Inc.
Con WATER ENGL.
CON WATER CONC.
CON WATER CONC

ANDREW

Radiator Material Lightning Protection Mechanical Specifications

Light gray
de Ground
Low loss circuit board
Fibergiass, UV resistant
7-16 DIN Female

RF Connector Quantity, total Wind Area, maximum Wind Leading, maximum Radome Material RF Connector Interface RF Connector Location

Dimensions Wind Speed, maximum

391.5 N & 150 km/h 88.0 lbf @ 150 km/h 241.0 km/h | 149.8 mph

0.2 m² | 2.0 ft²

97.0 mm | 3.8 m 1897.0 mm | 74.7 m 172.0 mm | 6.8 in 7.6 kg | 16.8 lb

Depth

Remote Electrical Tilt (RET) Information

Net Weight

Model with Factory Installed AISG 2.0 Actuator HBX-9016DS-AIM Teletito)

Regulatory Compliance/Certifications

RoHS 2011/65/EU China RoH5 53/T 11364-2086 ISO 9001:2008

Cassification
Compilant by Exemption
Compilant by Exemption
Above Maximum Concentration Value (HCV)
Dissignes, manufactured and/or distributed under this quality management system



Included Products

D8390 — Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow pend antennas, Includes two pipe mounts.

DB5098 --- Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members

A ANTENNA SPECIFICATIONS 62045 ComiScope, Inc. Alf lybs rowaed. All restancts demoked by 80 or ¹⁰ can implemed testanestic, suspectively, d ComisCope, All specification principles to change without ratios. See wood commiscope can be the major conditionation flewed. Alurch 5, 2015.

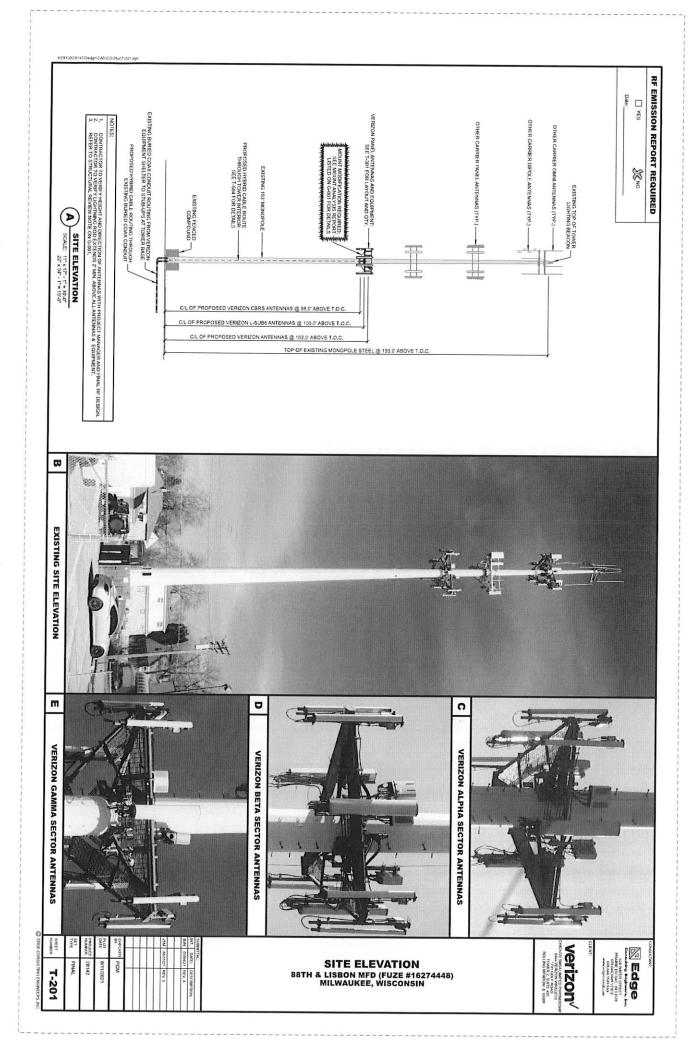
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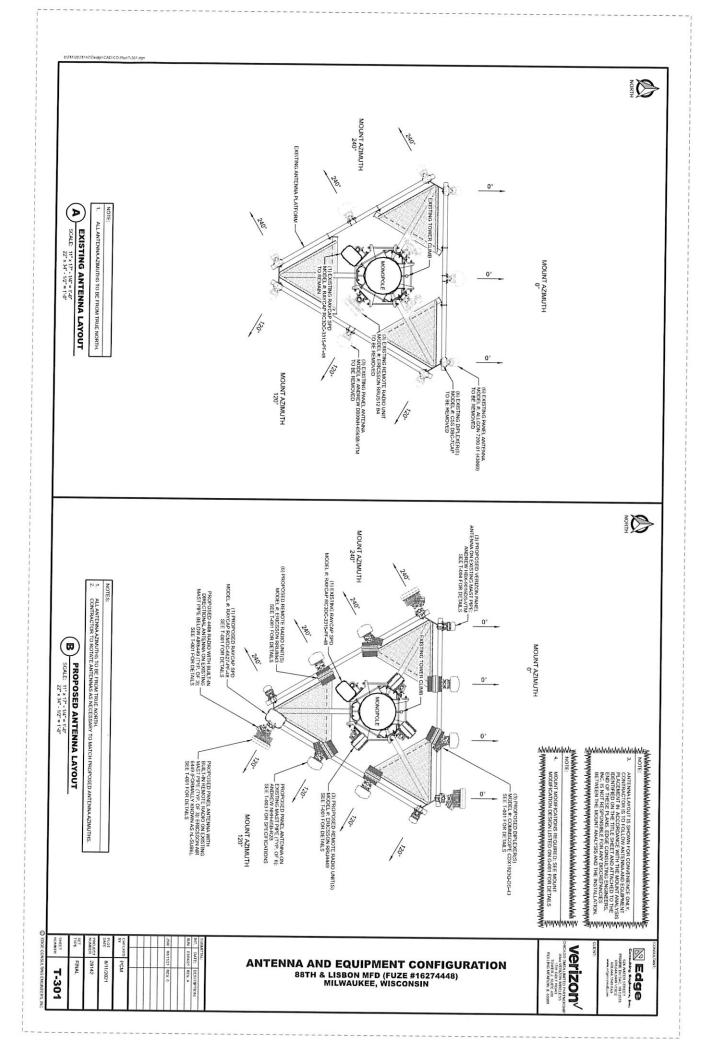
page 2 of 2 March 17, 2015

T-004

ANTENNA SPECIFICATIONS 88TH & LISBON MFD (FUZE #16274448) MILWAUKEE, WISCONSIN

^{*} CommScape® supports NGMM recommendations on Base download the whitepaper Time to Rase the Bar on BSAs. Interna Standards (BASTA). To lean about the benefits of BASTA





RE DESIGN DETAILED ON THE SHEET PROVIDED BY VERIZON AND IS INCLUDED FOR CONVENENCE ONLY, FINAL RE DESIGN TO BE VERIFED WITH VERIZON PROPE TO CONVENENCE ARE IDENTIFIED. CONTACT ENGINEER PRIOR TO INSTALLATION.

Added: 15

Retained: 0

A ANTENNA SUMMARY

Verizon fuze RFDS

WEST > Upper Midwest > Illinois/Wisconsin > Wisconsin > 88TH & LISBON MFD

Siamof, Mustafa - mustafa.siamof@verizonwireless.com - 8/9/2021 22:31:17

Antenna Summary

Added

Retained 700	Ħ		Removed			LTE		
1900		CDMA	1900			SG LTE	CDMA	
SWA	Æ		AWS			諨		
AWS3			AWS3			Ħ		1
CBRS L-Sub6 Make			CBRS L-Sub6 Make		Ħ			0000
L-Sub6			L-Sub6	ទ័				CONO L'OUDO MAKE
Make	ANDREW	ALLGON	Make	Ericsson	ERICSSON	ANDREW	ANDREW	7
	DBXNH-6565B-VTM	7200 01 (43060)	Model	AIR6449	KRE105281/1	NHH-65B-R28	HBX-9016DS-VTM	MODE
	100	8	Centerline	102	98	8	100	Centerine
	103	103	Centerline Tip Height	103.3	98.3	ē.	103.1	Centerine Tip Height Azimuth
	0(01) 120(02) 240(03)	0(0001) 0(01) 0(D1) 120(0002) 120(02) 120(D2) 240(0003) 240(D3)	Azimuth	0(0001) 120(0002) 240(0003)	0(19) 120(20) 240(21)	0(0001) 0(01) 120(0002) 120(02) 240(0003)	0(D1) 120(D2) 240(D3)	Azimuth
	false	false	RET	false	falso	false	false	RET
	false	faise	4×8×	false	false	false	false	4xRx
	PHYSICAL 3	PHYSICAL 6	Inst. Type Quantity	PHYSICAL 3	PHYSICAL 3	PHYSICAL 6	PHYSICAL	Inst. Type
	ω	o.	Quantity	۵	ω	, Ф	ü	Inst. Type Quantity

T-501

28142 PCM

ANTENNA SUMMARY 88TH & LISBON MFD (FUZE #16274448) MILWAUKEE, WISCONSIN

Verizon

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CHCAGO SMICA MITTED PARTNETES
TO GOLF FIGAD
TOWER J. SHIFT GOD
ROLLENG METADOW, E. 60000

Consulting Engineers Inc.

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Equipment Summary

Equipment Type Coaxial Cables Equipment Type Coaxial Cables Equipment Type Move to Tower Shelter Location Tower Tower Tower Shelter Tower Tower Tower Location Tower Tower Tower Tower Tower Tower Tower Tower Location 700 H H 700 H 표 700 5G 1900 CDMA CDMA 1900 1900 AWS AWS H AWS TE AWS3 AWS3 AWS3 표 CBRS L-Sub6 Make CBRS CBRS LTE L-Sub6 56 L-Sub6 Make Raycap Raycap Ericsson COAX Make Ericsson CSS Raycap Raycap N/A N/A Ericsson COAX Ericsson Ericsson Ericsson Commscope Model 3315 3315 Model DBC-7CAP RUL01B13 RRUS12 B4 DBC-7CAP Coaxial Cable 6627 6x12 12x24 8843 Model 6627 4449 AIR6449 CDX1923Q-DS-43 4408 B48 DC Coaxial Cable Cable Length Cable Size Install Type Quantity Cable Length Cable Size Cable Length Cable Size 15/8 PHYSICAL PHYSICAL PHYSICAL PHYSICAL Install Type Quantity PHYSICAL PHYSICAL PHYSICAL Install Type Quantity PHYSICAL PHYSICAL PHYSICAL PHYSICAL PHYSICAL PHYSICAL PHYSICAL 3 PHYSICAL PHYSICAL PHYSICAL PHYSICAL 6

OVP Box

Hybrid Cable

Hybrid Cable

RRU RRU RRU RRU Diplexer

OVP Box

OVP Box

Diplexer

Hybrid Cable

용 RRU Diplexer

RRU OVP Box

Ericsson

8843

PHYSICAL 3

8/11/2021 28142 PCM T-502

RF DESIGN DETAILED ON THE SHEET PROVIDED BY VERIZON AND IS INCLUDED FOR CONVENENCE ONLY, FINAL RF DESIGN TO BE VERIFED WITH VERIZON PRIOR TO CONSTRUCTION IF SIGNIFICANT CHANGES OR DISCREPANCIES ARE IDENTIFIED, CONTACT ENGINEER PRIOR TO INSTALLATION.

EQUIPMENT SUMMARY

EQUIPMENT SUMMARY 88TH & LISBON MFD (FUZE #16274448) MILWAUKEE, WISCONSIN

Edge

Consoling Engineers, Inc.

Low WHER STREET

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SOIL AND SOLOTA

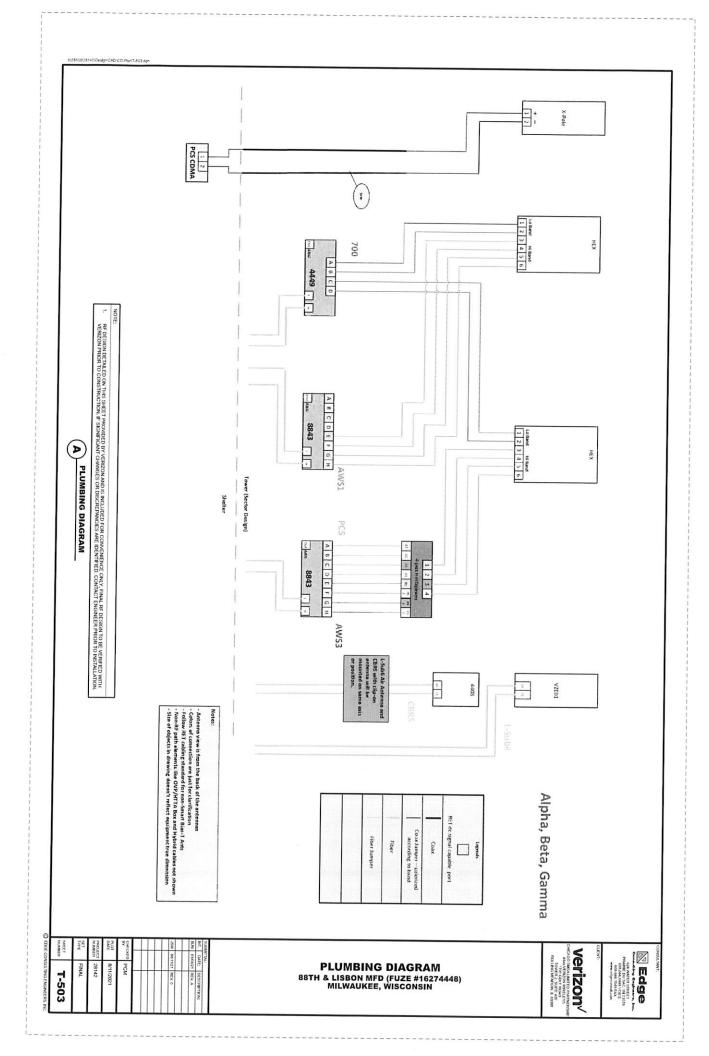
Verizon

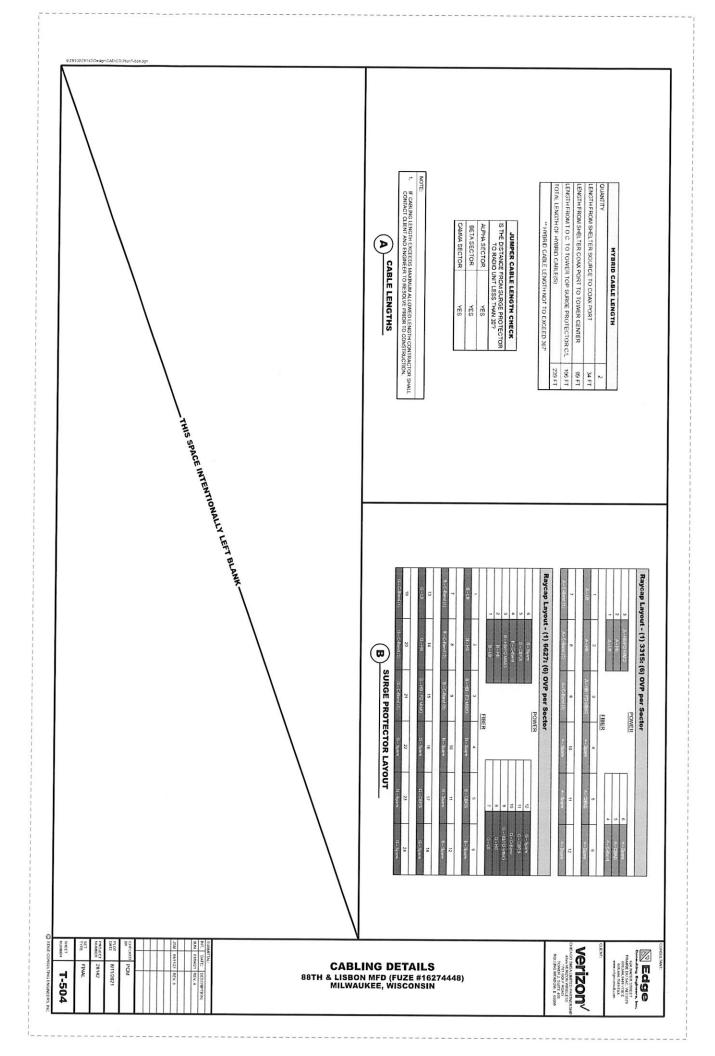
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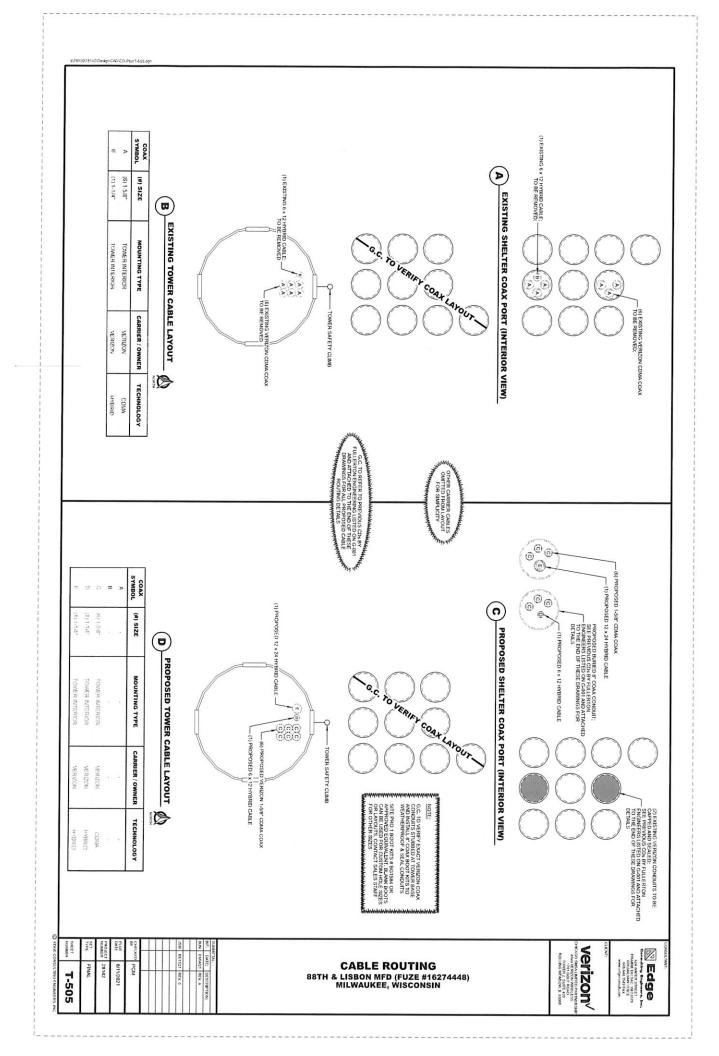
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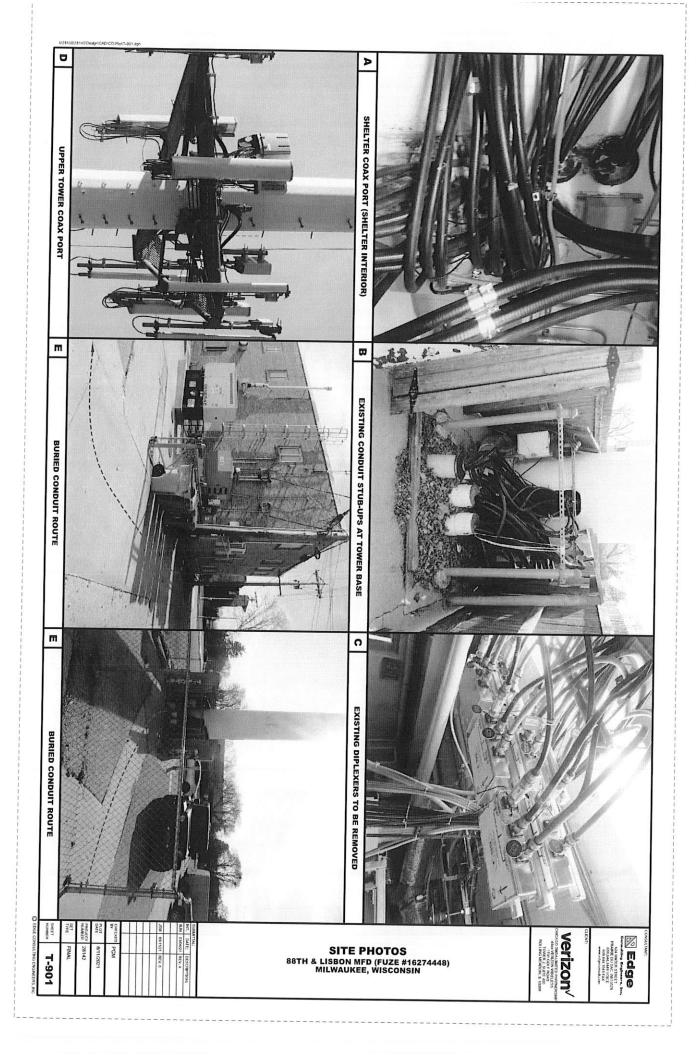
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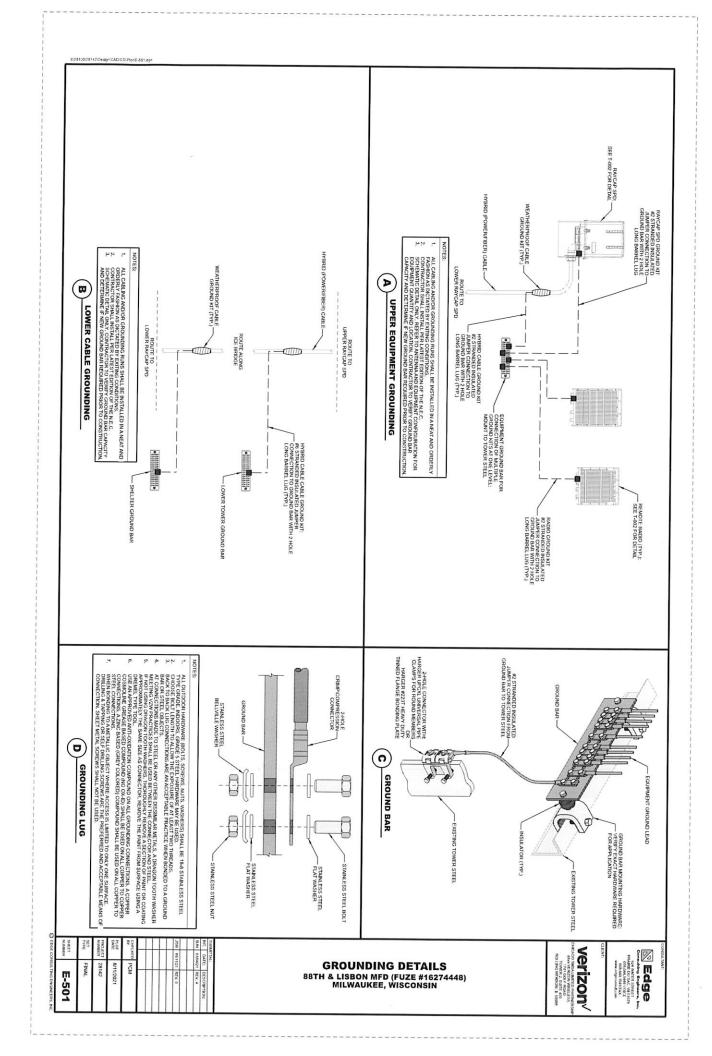
ROLLENG MEADOW, E. 60000

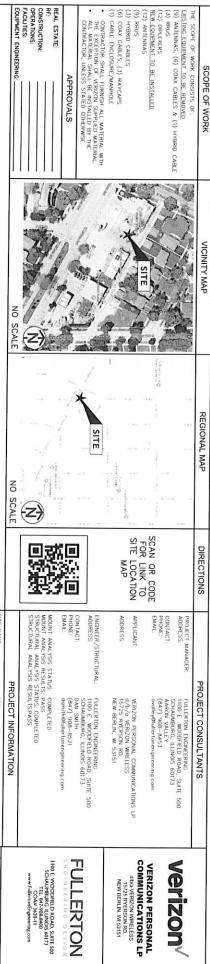












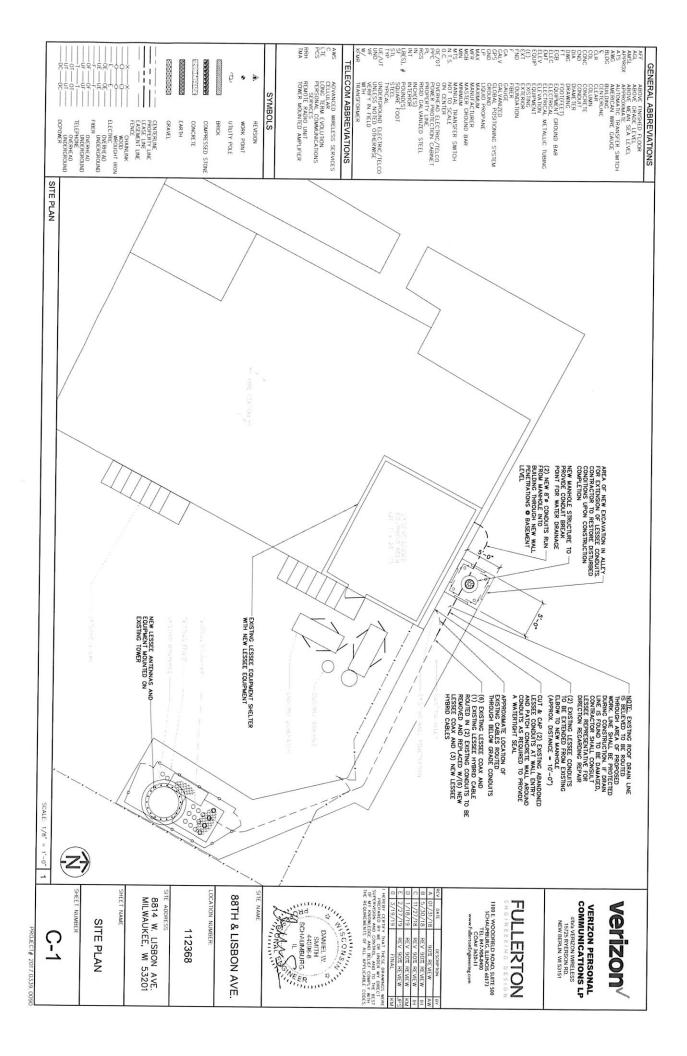
Verizon

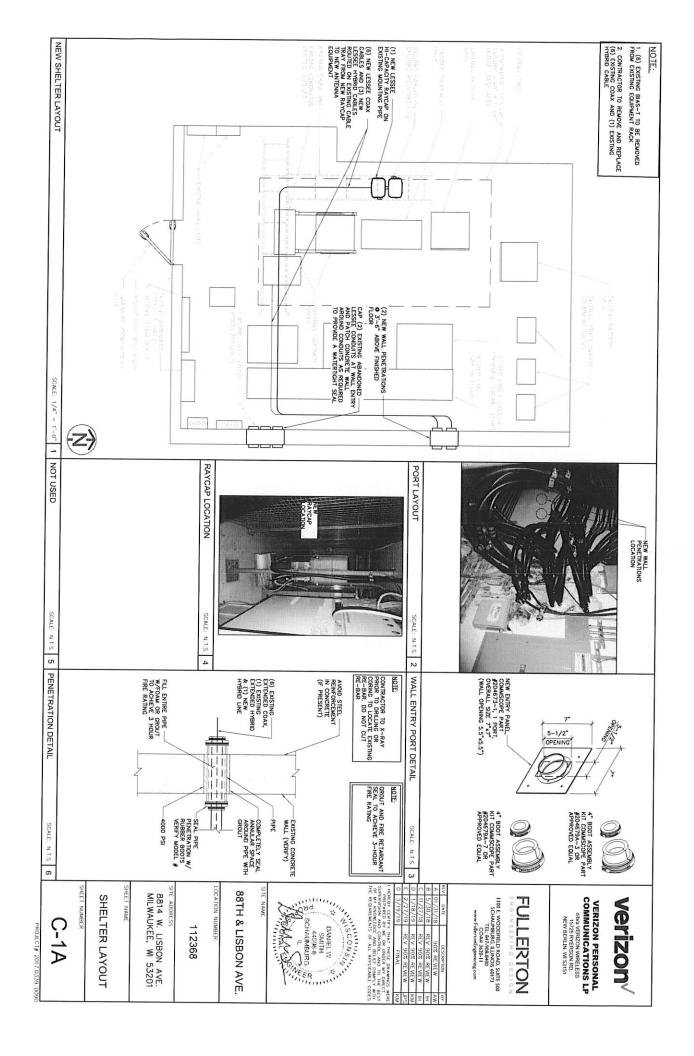
COMMUNICATIONS LP

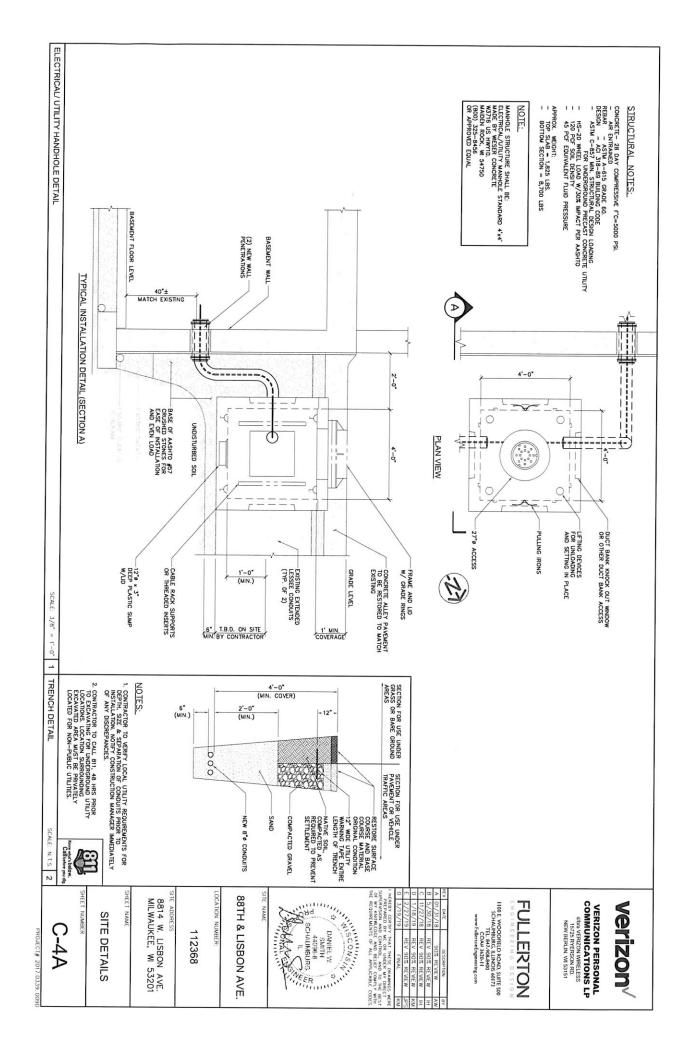
d/b/a VERIZON WIRELESS 15725 RYERSON RD. NEW BERLIN, WI 53151

LOCATION NUMBER: 112368 SITE NAME: 88TH & LISBON AVE. 8814 W. LISBON AVE. MILWAUKEE, WI 53201

																												が回 30分 第回	
DRAWING SCALES	GENERAL NOTES	ETAILS	C-7 SITE PHOTOS	\rightarrow	C-5 EQUIPMENT CHANGE REQUEST FORM (ECR)	C-4A SITE DETAILS	C-4 SITE DETAILS	C-3 ANTENNA LAYOUTS	C-2 ELEVATION	C-1A SHELTER LAYOUT	C-1 SITE PLAN	+		FACILITY IS UNMANNED AN ADA ACCESS REQUIREMEN THIS FACILITY DOES NOT I ANY SEWAGE	ELECTRICAL CODE: 2017 NA	BUILDING CODE: 2015 IN	ALL WORK AND MATERIALS S ACCORDANCE WITH THE CUR ADOPTED BY THE LOCAL GO	PROPOSED USE: TELEC	TOWER OWNER: T-MO	SITE COORDINATES: LATITUDE: LONGITUDE: GROUND ELEV. (A.M.S.L.):	JURISDICTION:	SITE TYPE:		LOCATION NUMBER:	SITE NAME:	PRO	MOUNT ANALYSIS STATUS: COMPLETED MOUNT ANALYSIS RESULTS: PASS STRUCTURAL ANALYSIS STATUS: COMPLETED STRUCTURAL ANALYSIS RESULTS:PASS	ADDRESS: CONTACT: PHONE: EMAIL:	The second second second second
CALES ARE FOR 11"x17" SHEETS		AND NOTES		TA AND DIAGRAM	REQUEST FORM (ECR)								DRAWING INDEX	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION ADA ACCESS REQUIREMNTS ARE NOT REQUIRED THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE	2017 NATIONAL ELECTRICAL CODE	2015 INTERNATIONAL BUILDING CODE	ALL WORK AND MATERALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADDPTED BY THE LOCAL COVERNING AUTHORITIES.	TELECOMMUNICATIONS FACILITY Know what's below. Call before you dig.	T-MOBLE CENTRAL LLC	COOGLE EARTH 43.08342* -88.0225* 757*	CITY OF MILWAUKEE	MONOPOLE	8814 W. LISBON AVE. MILWAUKEE, WI 53201	112368	88TH & LISBON AVE	PROJECT INFORMATION	COMPLETED PASS TUS: COMPLETED ULTSPASS	FULLER TON ENGINEERING 1100 E. WOODPELD ROAD, SUITE 500 SCHAUMBURG, ILLINOIS 60173 DAN SMITH 908—8521 dsmith@fullertonengineering.com	
_	- -		SHEET NUMBER		IIILE SHEET			SHEET NAME		אוור איז טטצטן	MI WALKEE WI E3001	8814 W. LISBON AVE	SITE ADDRESS	112368	LOCATION NUMBER:	OOITI & LISBON AVE.	SHE NAME				HERBY CERTIFY THAT THESE DRAWNES WERE IMPERABLE BY ME OR NUDBER AV DIBECT SUPERVISION AND CONTROL, AND TO THE BEST OF MY KNOWLEGE AND BELEF COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.	0 3/19/19 REV 90% REVIEW JPS	REV 90% REVIEW	5/30/18 REV 90% REVIEW	DATE DESCRIPTION		IIO0 E WOODFIELD ROAD, SUITE 500 SCHAUMBURG, ILLNOIS 60173 TEL. 847-598-8400 COA# 3520-11 www.FullertonEngineering.com	FULLERTON DESIGN	











Paul J. Ford and Company 250 East Broad Street Suite 600 Columbus, OH 43215 (614)221-6679 jacuna@pauljford.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

Smart Tool Project #: 10032692

Paul J. Ford Project #: 24320-0708.002.7191

January 28, 2021

Site Information

Site ID:

112368-VZW / 88TH LISBON MFD

Site Name:

88TH LISBON MFD Verizon Wireless

Carrier Name: Address:

8814 W Lisbon Ave

Adilossol A

Milwaukee, Wisconsin 53222, Milwaukee

County

Latitude:

43.083400°

Longitude:

-88.022580°

Structure Information

Tower Type:

193-Ft Monopole

Mount Type:

13.58-Ft Platform

FUZE ID # 16274448

Analysis Results

13.58-Ft Platform: 80.2% Pass

***Contractor PMI Requirements:

Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Jaime Acuna

01/28/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks				
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, FUZE 16274448, dated December 4, 2020				
Previous Mount Analysis Report	Paul J. Ford, Project, Project # 24320-0708.001.7190, dated January 6, 2021				
Site Audit Report	Terra, Project # 124-1035, dated November 12, 2020				
Mount Specification	Site Pro 1, P/N # QMSP				
Proposed Mount Modification	Paul J. Ford, Project, Project # 24320-0708.002.7191, dated January 28, 2021				

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-I

Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), VULT:	106 mph
	Ice Wind Speed (3-sec. Gust):	40 mph

Design Ice Thickness:	1.50 in
Risk Category:	II
Exposure Category:	С
Topographic Category:	1
Topographic Feature Considered:	N/A
Topographic Method:	N/A
Ground Elevation Factor, Ke:	0.973

Seismic Parameters:	S _S :	0.074
	S ₁ :	0.048

Maintenance Parameters:	Wind Speed (3-sec. Gust):	20 mnh
Maintenance Parameters.	vvina Speed (3-sec. Gust):	30 mph

· · · · · · · · · · · · · · · · · · ·	oo mpn
Maintenance Live Load, Lv:	250 lbs.
Maintenance Live Load, Lm:	500 lbs

Analysis Software: RISA-3D (V17.0.3)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
	102.00	3	Ericsson	VZE01	
		3	Andrew	HBX-9016DS-VTM	
		6	Commscope	NHH-65B-R2B	
		3	Commscope	CDX1923Q-DS-43	Added
100.00	100.00	3	Ericsson	4449	
		6	Ericsson	8843	
	1		Raycap	RCMDC-6627-PF-48	
		1	Raycap	RC3DC-3315-PF-48	Retained
	98.00	3	Ericsson	4408 w/ KRE 105 281/1	Added

Standard Conditions:

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

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

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

- 3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by PJF, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
- 4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
- 5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
- All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Paul J. Ford is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

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7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:

o Channel, Solid Round, Angle, Unistrut ASTM A53 (GR 35)

o Pipe ASTM A53 (GR 35)

HSS (Rectangular), Plate
 Q235 Gr B (Fy = 34 ksi, Fu = 58 ksi)

o HSS (Round) ASTM A53 (GR 35)

Connection Bolts
 Threaded Rods
 ASTM A325
 SAE J429 (GR2)

o U-Bolts SAE J429 (GR2)

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontals	57.1%	Pass
Bracing Members	19.6%	Pass
Grating Support Members	80.2%	Pass
Standoff Members	42.1%	Pass
Corner Plates	29.7%	Pass
Mount Pipes	51.2%	Pass
Mount to Tower Connection	29.6%	Pass

Structure Peting (Controlling Hallington of all Consequent)	00.00/
Structure Rating – (Controlling Utilization of all Components)	80.2%

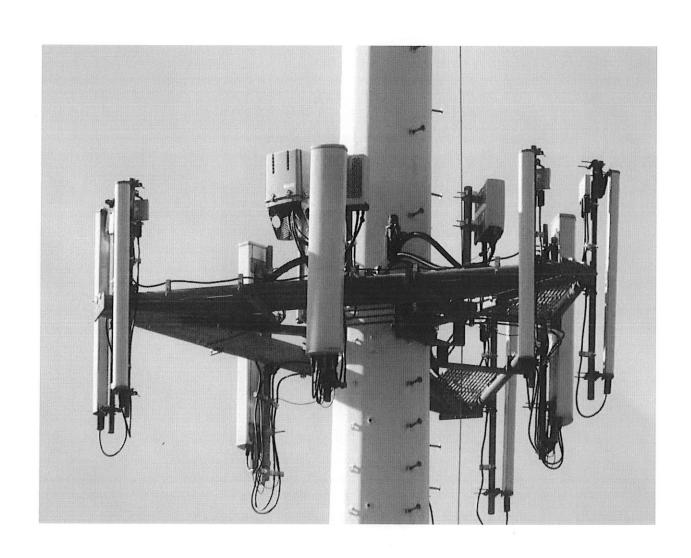
Recommendation:

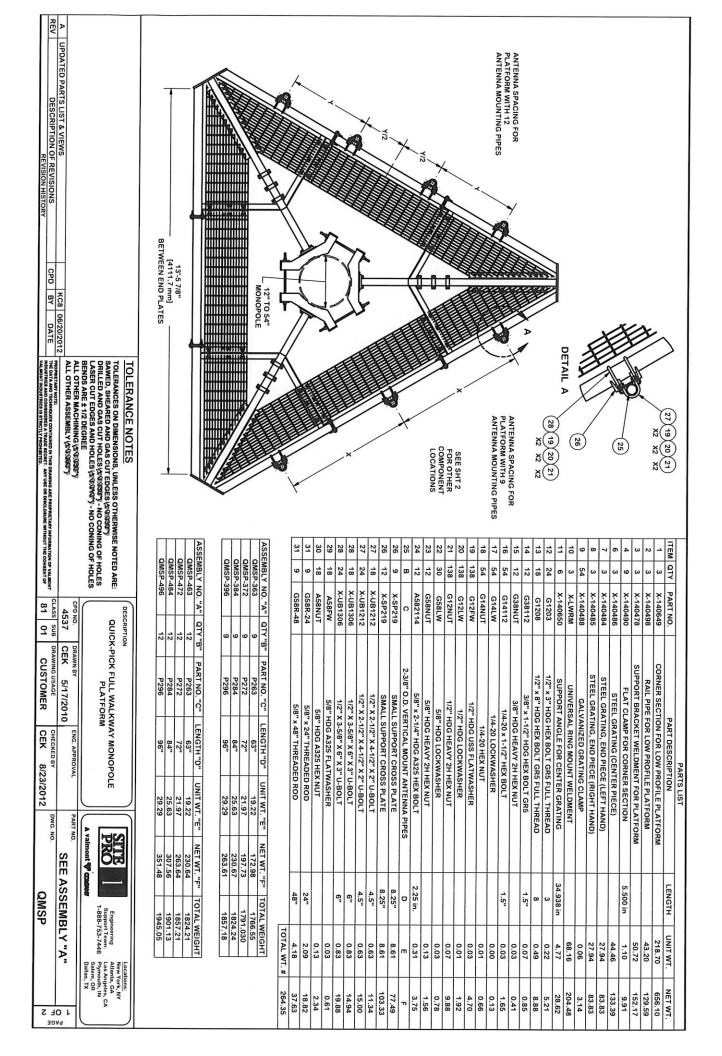
The existing mount will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

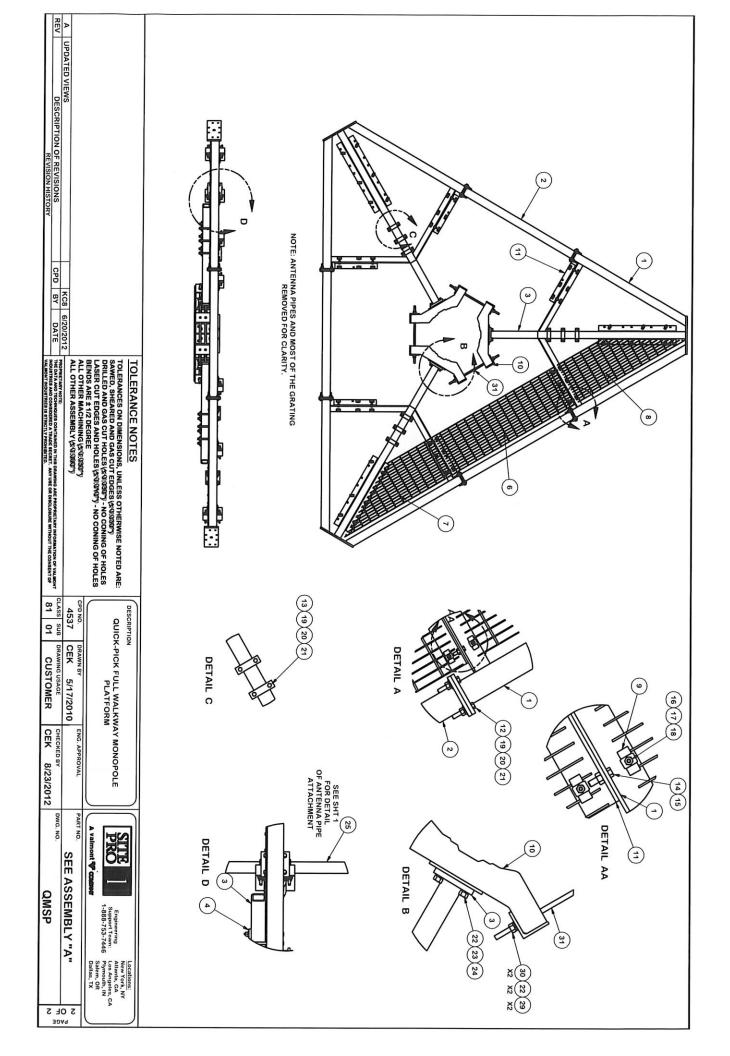
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

- 1. Mount Photos
- 2. Manufacturer Drawings (for reference only)
- 3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables
- 5. Antenna Placement Diagrams







Sector:

Α

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1/28/2021

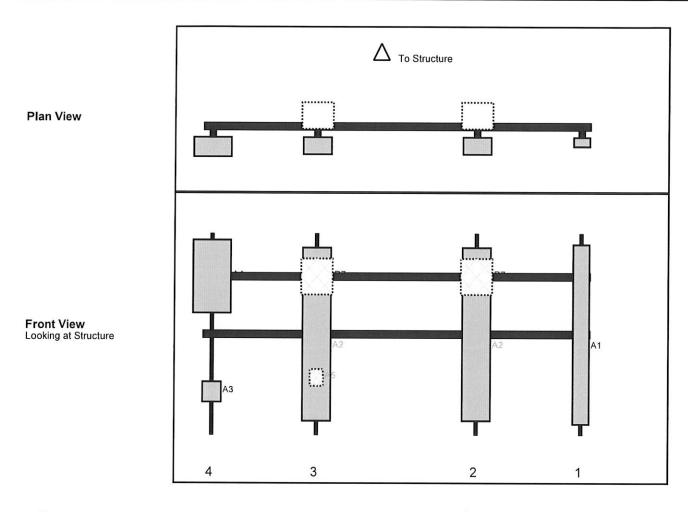
PIF PAUL J. FORD

Structure Type: Monopole

Mount Elev:

97.50

Page: 1



Note: 4449 RRUs NOT SHOWN AS THEY ARE TO BE INSTALLED ON THE STANDOFF PIPES RC3DC-3315-PF-48 NOT SHOWN AS IS INSTALLED ON THE STANDOFF PIPES

		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A1	HBX-9016DS-VTM	74.7	6.8	159	1	а	Front	42	0	Added	
A2	NHH-65B-R2B	72	11.9	115	2	а	Front	42	0	Added	
R7	8843	15	13.2	115	2	а	Behind	18	0	Added	
A2	NHH-65B-R2B	72	11.9	48	3	а	Front	42	0	Added	
A5	CDX1923Q-DS-43	6.9	5.5	48	3	а	Behind	60	0	Added	
R7	8843	15	13.2	48	3	а	Behind	18	0	Added	
А3	4408 w/ KRE 105 281/1	8.4	7.9	4	4	а	Front	66	0	Added	
A4	VZE01	30.4	15.9	4	4	а	Front	18	0	Added	

Sector:

В

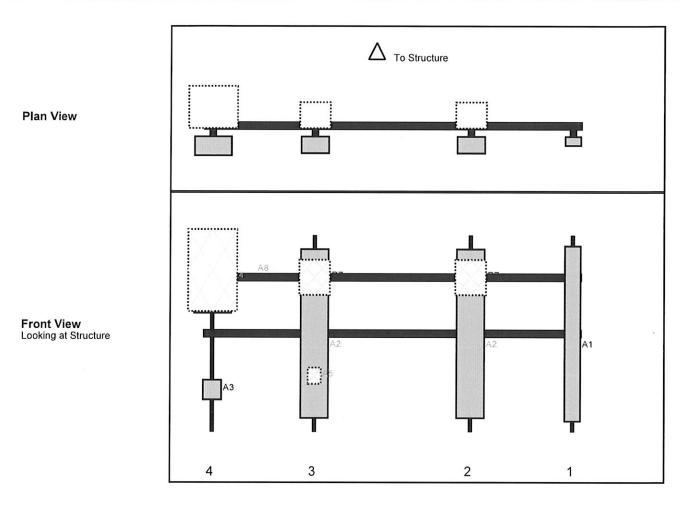
1/28/2021 PAUL J. FORD

Structure Type: Monopole

Mount Elev:

97.50

Page: 2



Note: 4449 RRUs NOT SHOWN AS THEY ARE TO BE INSTALLED ON THE STANDOFF PIPES RC3DC-3315-PF-48 NOT SHOWN AS IS INSTALLED ON THE STANDOFF PIPES

		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
A1	HBX-9016DS-VTM	74.7	6.8	159	1	а	Front	42	0	Added	
A2	NHH-65B-R2B	72	11.9	115	2 ,	а	Front	42	0	Added	
R7	8843	15	13.2	115	2	a	Behind	18	0	Added	
A2	NHH-65B-R2B	72	11.9	48	3	а	Front	42	0	Added	
A5	CDX1923Q-DS-43	6.9	5.5	48	3	а	Behind	60	0	Added	
R7	8843	15	13.2	48	3	а	Behind	18	0	Added	
А3	4408 w/ KRE 105 281/1	8.4	7.9	4	4	а	Front	66	0	Added	
A4	VZE01	30.4	15.9	4	4	а	Front	18	0	Added	
A8	RCMDC-6627-PF-48	35	21	4	4	а	Behind	15	0	Added	

Sector:

С

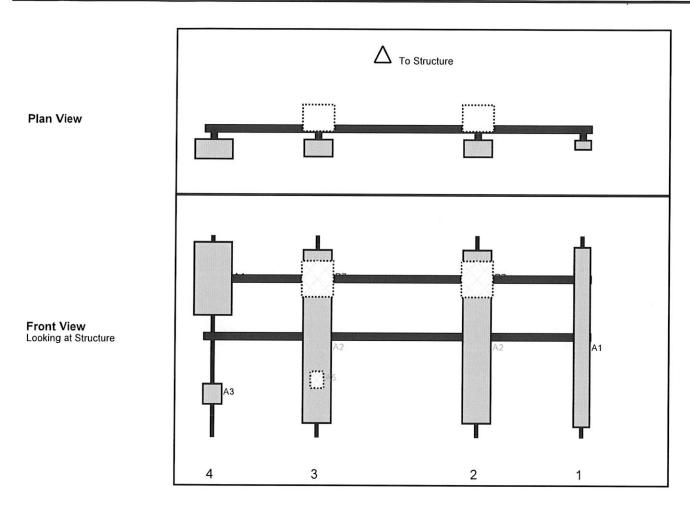
1/28/2021 PAUL J. FORD

Structure Type: Monopole

Mount Elev:

97.50

Page: 3

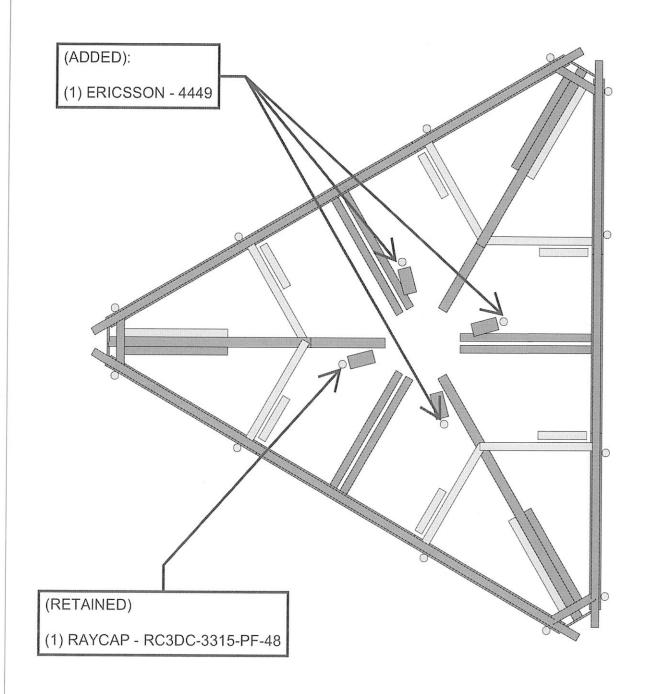


Note: 4449 RRUs NOT SHOWN AS THEY ARE TO BE INSTALLED ON THE STANDOFF PIPES RC3DC-3315-PF-48 NOT SHOWN AS IS INSTALLED ON THE STANDOFF PIPES

		Height	Width	H Dist	Pipe	Pipe	Ant	C. Ant	Ant		
Ref#	Model	(in)	(in)	Frm L.	#	Pos V	Pos	Frm T.	H Off	Status	Validation
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R7	8843	15	13.2	115	2	а	Behind	18	0	Added	
A2	NHH-65B-R2B	72	11.9	48	3	а	Front	42	0	Added	
A5	CDX1923Q-DS-43	6.9	5.5	48	3	а	Behind	60	0	Added	
R7	8843	15	13.2	48	3	а	Behind	18	0	Added	
А3	4408 w/ KRE 105 281/1	8.4	7.9	4	4	а	Front	66	0	Added	
A4	VZE01	30.4	15.9	4	4	а	Front	18	0	Added	



PLATFORM MOUNT PLAN VIEW



Paul J. Ford & Company		SK - 1
JAB	112368-VZW_MT_LO_H	Jan 28, 2021 at 11:27 AM
Project No. 10032692		112368-VZW_MT_LO_H.r3d

EXHIBIT "C-2"

DESCRIPTION OF LESSEE'S REVISED EQUIPMENT

Total of Twelve (12) Antennae:

Three (3) Andrew HBX-9016DS-VTM

Six (6) Andrew NHH-65B-R2B

Three (3)-Ericsson AIR6649 Antenna/RRU (VZWE01)

Necessary Ancillary Equipment, including but not limited to the following:

Three (3) Commscope CDX193Q-DS-43 Diplexers

Three (3) Ericsson 4408 B48 DC RRU w/ KRE105281/1 (Mounted w/AIR6649)

Three (3) Ericsson 4449 RRU

Six (6) Ericsson 8843 RRU

One (1) Raycap 6627

One (1) Raycap 3315

Six (6) 1 5/8" Coaxial Cable

Two (2) 1.5" Hybrid Cable