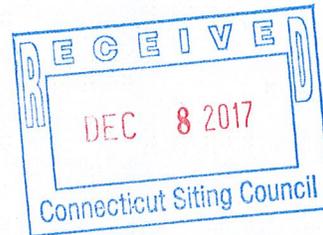


EM-VER-043-171208

Alex Murshteyn, Site Acquisition
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

December 7, 2017

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



**RE: Notice of Exempt Modification // Site: East Hartford 3 CT (ATC: 370626)
148 Roberts Street Rear (aka 148 Main Street), East Hartford, CT 06108
N 41.7733 // W -72.6136**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 15 antennas at the 118-foot mount on the existing 130-foot monopole tower, located at 148 Roberts Street Rear, East Hartford, CT. The tower is owned by American Tower. The property is owned by Caro, LLC. Verizon Wireless now intends remove 9 of its antennas to replace with 6 and install side-by-side mounts for the 6 LTE (700/850/1900/2100 MHz) replacements for its PCS/AWS/LTE upgrade. Additionally, Verizon Wireless will install 3 new remote radio head units (RRUs); altogether updating certain leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

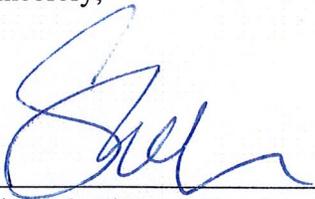
Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Marcia A. Leclerc, Mayor for the Town of East Hartford, Town Planner Jeffrey Cormier, including for the Planning and Zoning Commission, American Tower, the tower owner, and the ground owner, Caro, LLC.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated November 22, 2017 by A.T. Engineering Service, PLLC, a structural analysis dated November 3, 2017 by A.T. Engineering Service, PLLC and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by A.T. Engineering Service, PLLC, dated November 3, 2017.

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

Sincerely,



Alex Murshteyn, Site Acquisition
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

Attachments

cc: Marcia A. Leclerc, Mayor, Town of East Hartford - as elected official - 1Z9Y45030311797857
Jeffrey Cormier, Town Planner - as P&Z official - Development Department, 1Z9Y45030311370861
American Tower Corporation - as tower owner - 1Z9Y45030305545872
Caro, LLC - as property owner - 1Z9Y45030314722887



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 130 ft Monopole
ATC Site Name : East Hartford, CT
ATC Site Number : 370626
Engineering Number : OAA716258_C3_01
Proposed Carrier : Verizon
Carrier Site Name : East Hartford 3 CT
Carrier Site Number : 2552112
Site Location : 148 Roberts St.
East Hartford, CT 06108
41.773300,-72.613400
County : Hartford
Date : November 3, 2017
Max Usage : 74%
Result : Pass

Prepared By:
Garret D. Heath
Structural Engineer I

Reviewed By:



Nov 3 2017 3:58 PM

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
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Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 130 ft monopole to reflect the change in loading by Verizon.

Supporting Documents

Tower Drawings	Glen Martin Engineering Drawing #MP1400800-0001, dated August 20, 2003
Foundation Drawing	Glen Martin Engineering Drawing #GME-03309, dated August 26, 2003
Geotechnical Report	Clarence Welti Project Name: The Marcus Group, dated April 25, 2003

Analysis

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

Basic Wind Speed:	97 mph (3-Second Gust, V_{asd}) / 125 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.18, S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

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

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
128.0	129.0	3	DragonWave Horizon Compact	Side Arms	(3) 5/8" Coax (2) 2" Conduit (3) 1 5/8" Fiber (3) 1/2" Coax (1) 1 1/4" Hybriflex	Clearwire
		1	18" x 12" Junction Box			
		3	DragonWave A-ANT-18G-2-C			
		3	KMW ETCR-654L12H6			
	128.0	6	Alcatel-Lucent RRH2x50-08			
		3	Alcatel-Lucent 1900MHz 4x45 RRH			
		3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
118.0	118.0	3	Alcatel-Lucent RRH2x60 700	Low Profile Platform	(6) 1 5/8" Coax (2) 1 5/8" Fiber	Verizon
		3	Alcatel-Lucent PCS B25 RRH2x60/4x30			
		3	Alcatel-Lucent RRH4X45-B66 w/ Solar Shield			
		3	Andrew DB844G65ZAXY			
		2	RFS DB-T1-6Z-8AB-OZ			
		3	Antel BXA-70063-6CF-EDIN-X			
109.0	109.0	9	48" x 12" Panel	Low Profile Platform	(9) 1 5/8" Coax	Sprint Nextel
98.0	98.0	3	Ericsson AIR 21, 1.3M, B2A B4P	T-Arms	(12) 7/8" Coax (2) 1 5/8" Hybriflex	Metro PCS
		3	Ericsson AIR-32 B2A/B66Aa			
90.0	90.0	6	14" x 9" TTA	Platform w/ Handrails	(3) 1/2" Coax (12) 1 5/8" Coax (8) 0.76" 8 AWG 6 (2) 0.35" Fiber	AT&T Mobility
		4	Raycap DC6-48-60-18-8F			
		6	Ericsson RRUS A2 Module (15.1"Height)			
		9	Ericsson RRUS 12 w/ Solar Shield			
		3	Ericsson RRUS-32 (77 lbs)			
		9	Ericsson RRUS-11			
		12	CCI HPA-65R-BUU-H8			
70.0	70.0	1	2' Std. Dish	Leg	(1) 1 5/8" Coax	Sprint Nextel
50.0	50.0	1	GPS	Side Arm	(1) 1/2" Coax	

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
119.0	119.0	6	Andrew SBNHH-1D65B	-	-	Verizon

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
118.0	118.0	3	Nokia AirScale RRH 4T4R B5 160W AHCA	Low Profile Platform	-	Verizon
		6	Commscope JAHH-65B-R3B			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	49%	Pass
Shaft	66%	Pass
Base Plate	44%	Pass
Flanges	17%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	2,556.0	64%
Axial (Kips)	41.1	74%
Shear (Kips)	27.5	29%

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

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
118.0	Nokia AirScale RRH 4T4R B5 160W AHCA	Verizon	1.206	1.072
	Commscope JAHH-65B-R3B			
70.0	2' Std. Dish	Sprint Nextel	0.426	0.723

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



Standard Conditions

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

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. 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.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

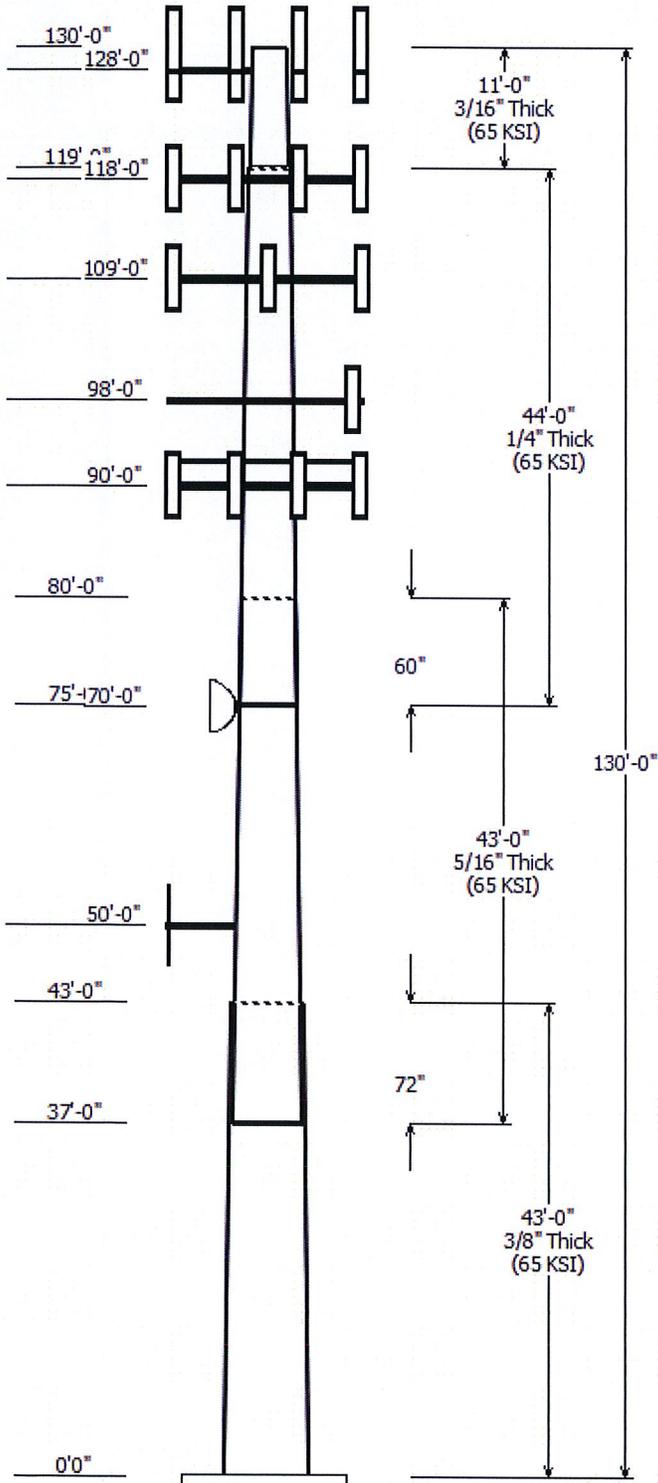
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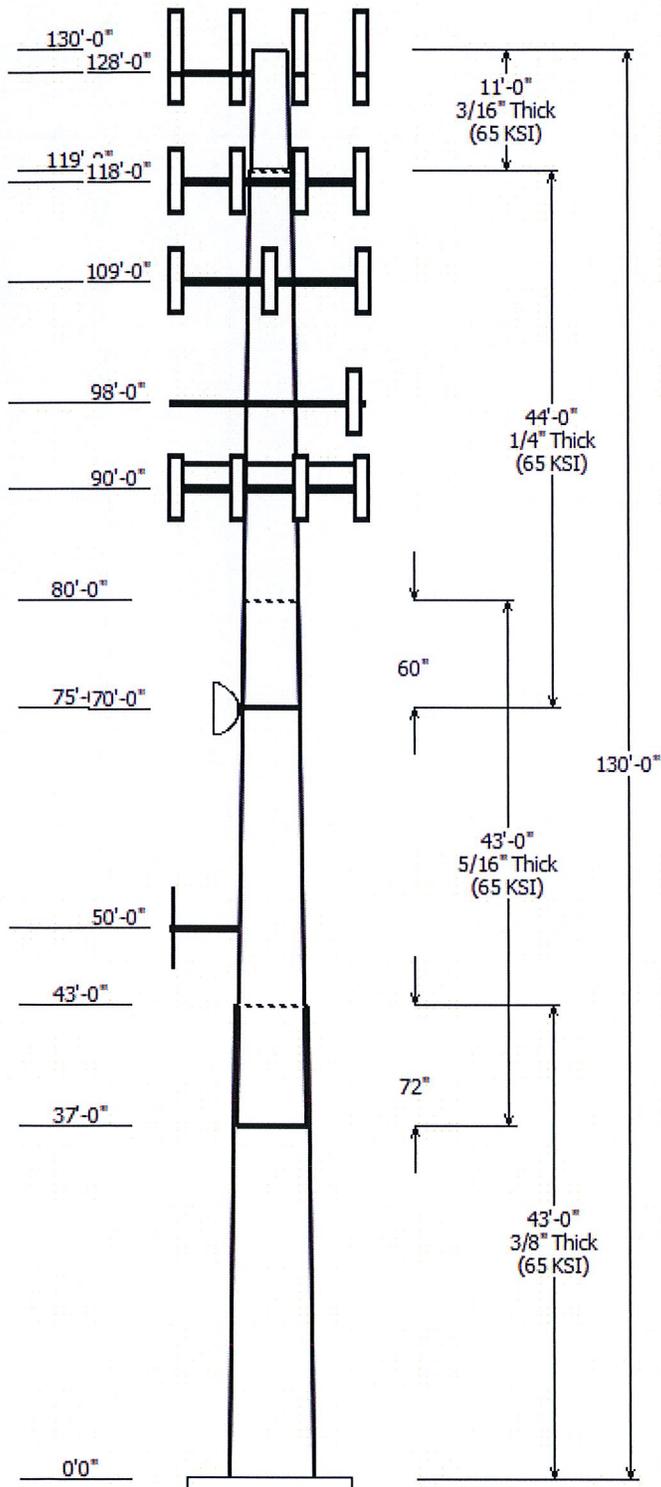
Job Information	
Pole :	370626
Description :	130 ft. Monopole
Client :	VERIZON WIRELESS
Location :	East Hartford, CT
Shape :	16 Sides
Height :	130.00 (ft)
Base Elev (ft):	0.00
Taper :	0.233192in/ft)
Code:	ANSI/TIA-222-G
Struct Class :	II
Exposure :	B
Topo :	1

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Flats Bottom				
1	43.000	39.16	49.19	0.375	0.000	0.233200	65
2	43.000	31.16	41.18	0.313 Slip Joint	72.000	0.233200	65
3	44.000	22.56	32.82	0.250 Slip Joint	60.000	0.233200	65
4	11.000	20.00	22.56	0.188 Butt Joint	0.000	0.233200	65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
128.000	129.000	3	KMW ETCR-654L12H6
128.000	128.000	3	Alcatel-Lucent TD-RRH8x20-25
128.000	128.000	3	Alcatel-Lucent 1900 MHz 4x45
128.000	128.000	6	Alcatel-Lucent RRH2x50-08
128.000	129.000	3	DragonWave A-ANT-18G-2-C
128.000	129.000	1	18" x 12" Junction Box
128.000	129.000	3	DragonWave Horizon Compact
128.000	128.000	1	Side Arms
118.000	118.000	6	Commscope JAHH-65B-R3B
118.000	118.000	3	Nokia AirScale RRH 4T4R B5 160
118.000	118.000	1	Flat Low Profile Platform
118.000	118.000	3	Antel BXA-70063-6CF-EDIN-X
118.000	118.000	2	RFS DB-T1-6Z-8AB-0Z
118.000	118.000	3	Andrew DB844G65ZAXY
118.000	118.000	3	Alcatel-Lucent RRH4X45-B66
118.000	118.000	3	Alcatel-Lucent PCS B25
118.000	118.000	3	Alcatel-Lucent RRH2x60 700
109.000	109.000	1	Round Low Profile Platform
109.000	109.000	9	48" x 12" Panel
98.000	98.000	3	Round T-Arm
98.000	98.000	3	Ericsson AIR-32 B2A/B66Aa
98.000	98.000	3	Ericsson AIR 21, 1.3M, B2A B4P
90.000	90.000	1	Round Platform w/ Handrails
90.000	90.000	12	CCI HPA-65R-BUU-H8
90.000	90.000	9	Ericsson RRUS-11
90.000	90.000	3	Ericsson RRUS-32 (77 lbs)
90.000	90.000	9	Ericsson RRUS 12 w/ Solar Shie
90.000	90.000	6	Ericsson RRUS A2 Module
90.000	90.000	4	Raycap DC6-48-60-18-8F
90.000	90.000	6	14" x 9" TTA
70.000	70.000	1	2' Std. Dish
50.000	50.000	1	GPS
50.000	50.000	1	Flat Side Arm

Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
0.000	50.000	1/2" Coax	No
0.000	70.000	1 5/8" Coax	No
0.000	90.000	0.35" Fiber	No
0.000	90.000	0.76" 8 AWG 6	No





0.000	90.000	1 5/8" Coax	No
0.000	90.000	1/2" Coax	No
0.000	98.000	1 5/8" Hybriflex	Yes
0.000	98.000	1 5/8" Hybriflex	Yes
0.000	98.000	7/8" Coax	No
0.000	98.000	7/8" Coax	Yes
0.000	109.0	1 5/8" Coax	No
0.000	118.0	1 5/8" Coax	Yes
0.000	118.0	1 5/8" Fiber	Yes
0.000	128.0	1 1/4" Hybriflex	No
0.000	128.0	1 5/8" Fiber	No
0.000	128.0	1/2" Coax	No
0.000	128.0	2" Conduit	No
0.000	128.0	5/8" Coax	No

Load Cases	
1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2536.00	27.45	41.06
0.9D + 1.6W	2435.76	26.48	30.79
1.2D + 1.0Di + 1.0Wi	669.33	6.93	84.37
(1.2 + 0.2Sds) * DL + E ELFM	117.09	1.15	40.89
(1.2 + 0.2Sds) * DL + E EMAM	122.22	1.21	40.89
(0.9 - 0.2Sds) * DL + E ELFM	115.62	1.15	28.45
(0.9 - 0.2Sds) * DL + E EMAM	120.55	1.21	28.45
1.0D + 1.0W	584.93	6.33	34.25

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	70.00	5.068	0.716

Alex Murshteyn

From: Bsmith@easthartfordct.gov
Sent: Thursday, December 7, 2017 10:02 AM
To: Alex Murshteyn
Subject: RE: Assessor info for 35-18A // ATC 370626 (VZW aka East Hartford 3 CT)
Attachments: 36-REV-201610.pdf

Here you go.

Brian Smith CCMA II
Assessor, Town of East Hartford
860-291-7268

From: Alex Murshteyn [mailto:amurshteyn@centerlinecommunications.com]
Sent: Wednesday, December 06, 2017 4:07 PM
To: Smith, Brian
Subject: Assessor info for 35-18A // ATC 370626 (VZW aka East Hartford 3 CT)

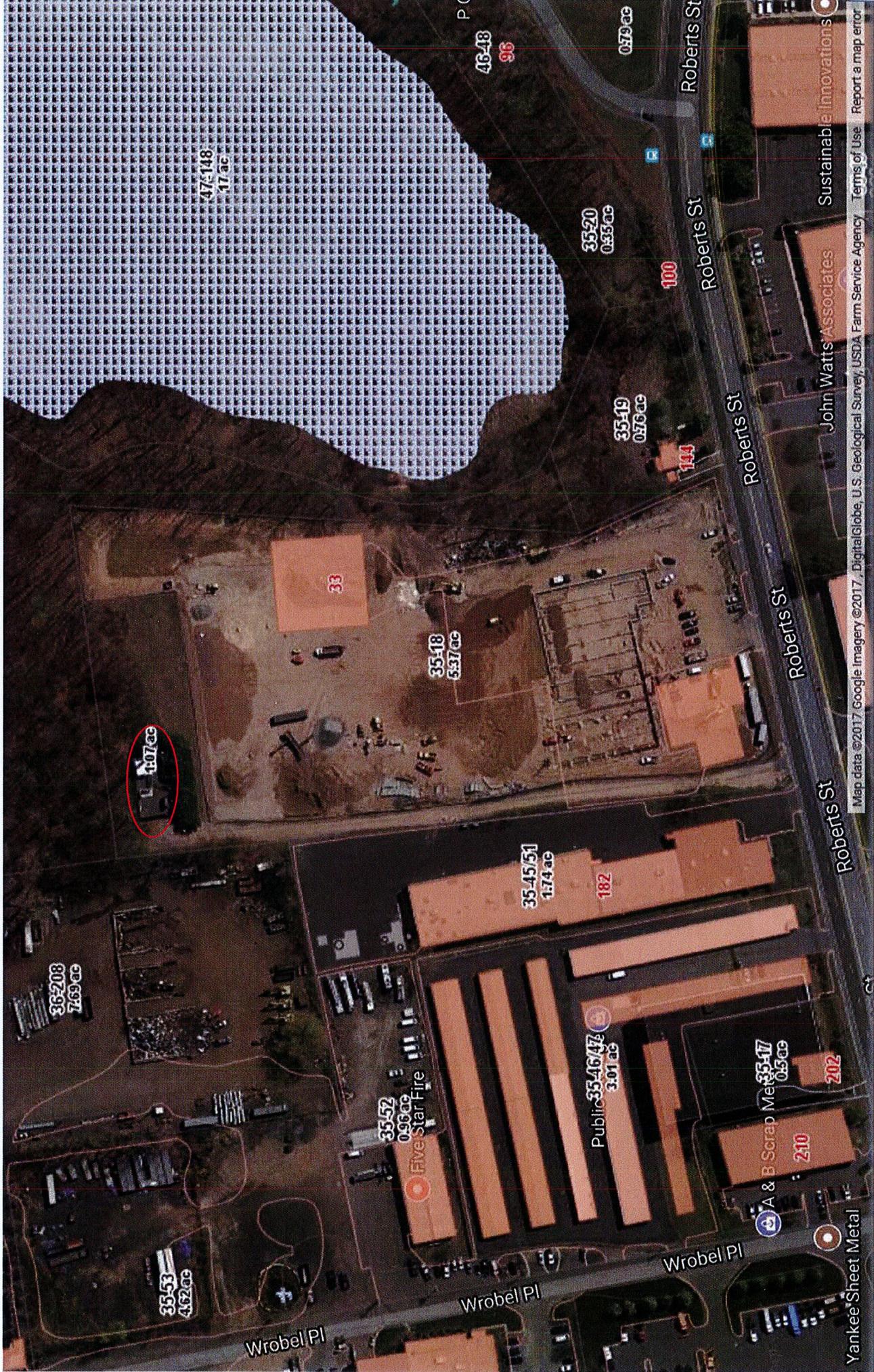
Brian,

It was a pleasure to speak with you a minute ago. As discussed, would you please send me a copy of the parcel 35-18A? This is the site where Verizon is replacing some antennas on the cell tower at 148 Roberts Street Rear.

Thank you,



Alex Murshteyn | Site Acquisition Consultant
95 Ryan Drive, Suite 1 | Raynham, MA 02767
Mobile: 508.821.0159 | Fax: 508.819.3017
[amurshteyn@](mailto:amurshteyn@centerlinecommunications.com) | CenterlineCommunications.com



36-208
7.69 ac

36-53
4.92 ac

1407 ac

35-52
0.99 ac
Five Star Fire

35-48
5.97 ac

33

35-45/51
1.74 ac
182

Public 35-46/47
3.01 ac

35-20
0.93 ac

35-19
0.76 ac
144

46-48
96

0.73 ac

A & B Scrap Metal
35-47
0.69 ac
202

100

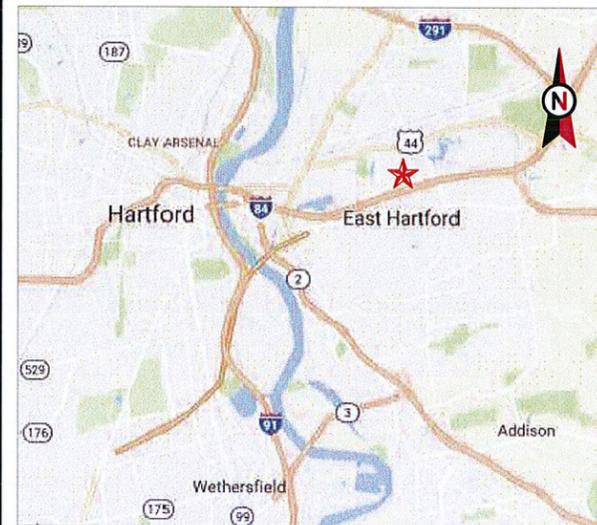
210

Wrobel Pl

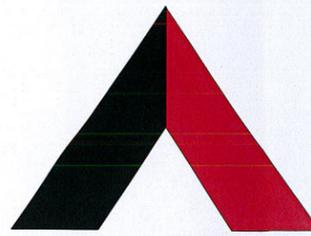
Wrobel Pl

Wrobel Pl

Roberts St



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: EAST HARTFORD
 ATC SITE NUMBER: 370626
 VERIZON SITE NAME: E HARTFORD 3 CT
 SITE ADDRESS: 148 ROBERTS ST.
 EAST HARTFORD, CT 06108



LOCATION MAP

**VERIZON WIRELESS
 ANTENNA AMENDMENT DRAWINGS**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 148 ROBERTS ST. EAST HARTFORD, CT 06108 COUNTY: HARTFORD <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.77330 LONGITUDE: -72.61341 GROUND ELEVATION: 49' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW. REMOVE (9) PANELS INSTALL (6) NEW PANELS AND (3) RRU's EXISTING (6) PANELS, (9) RRU's, (6) 1-5/8" COAX CABLES, (2) 1-5/8" HYBRID CABLES, AND (2) OVPS TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
		PROJECT NOTES 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	G-001	COVER SHEET	0	11/22/17	NW
UTILITY COMPANIES	PROJECT TEAM	PROJECT LOCATION DIRECTIONS	G-002	GENERAL NOTES	0	11/22/17	NW
POWER COMPANY: EVERSOURCE PHONE: (800) 286-5000 TELEPHONE COMPANY: FRONTIER COMMS. PHONE: (877) 870-4601	<u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> THE MASTERS CLUB, LLC ATTN: MARK CHU PO BOX 856 GLASTONBURY, CT 06033 <u>APPLICANT:</u> VERIZON WIRELESS 99 EAST RIVER DRIVE, 9TH FLOOR EAST HARTFORD, CT 06108	FROM HARTFORD CT: NORTH ON MAIN STREET TURN RIGHT ON MORGAN STREET SOUTH / US 44 EAST. MERGE ONTO I-84 EAST / US 6 EAST. TAKE EXIT 58 ROBERTS STREET TOWARD SILVER LANE / BURNSIDE AVENUE. TURN LEFT ONTO ROBERTS STREET. SITE IS ON THE LEFT.	C-101	DETAILED SITE PLAN AND TOWER ELEVATION	0	11/22/17	NW
			C-501	RF SCHEDULE AND ANTENNA INSTALLATION	0	11/22/17	NW
				C-502	CONSTRUCTION DETAILS	0	11/22/17



AMERICAN TOWER®
 A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NW	11/22/17

ATC SITE NUMBER:
370626

ATC SITE NAME:
EAST HARTFORD

SITE ADDRESS:
148 ROBERTS ST.
EAST HARTFORD, CT 06108

SEAL:



Nov 22 2017 6:14 PM 



DRAWN BY:	NW
APPROVED BY:	KRF
DATE DRAWN:	11/22/17
ATC JOB NO:	12165835
CUSTOMER ID:	E HARTFORD 3 CT

COVER SHEET

SHEET NUMBER:	REVISION:
G-001	0

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GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIEA/ITIA-222, AND COMPLY WITH ATC MASTER SPECIFICATIONS.
2. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
4. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
6. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
7. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
9. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON WIRELESS REP PRIOR TO PROCEEDING.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON WIRELESS REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
13. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON WIRELESS REP IMMEDIATELY.
15. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
16. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
17. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
18. CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
19. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
20. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
21. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
22. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
23. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
24. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
25. CONTRACTOR SHALL NOTIFY VERIZON WIRELESS REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.

27. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
28. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON WIRELESS REP. ANY WORK FOUND BY THE VERIZON WIRELESS REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
29. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
 - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.



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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	NW	11/22/17

ATC SITE NUMBER:
370626
 ATC SITE NAME:
EAST HARTFORD

SITE ADDRESS:
 148 ROBERTS ST.
 EAST HARTFORD, CT 06108

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CUSTOMER ID:	E HARTFORD 3 CT

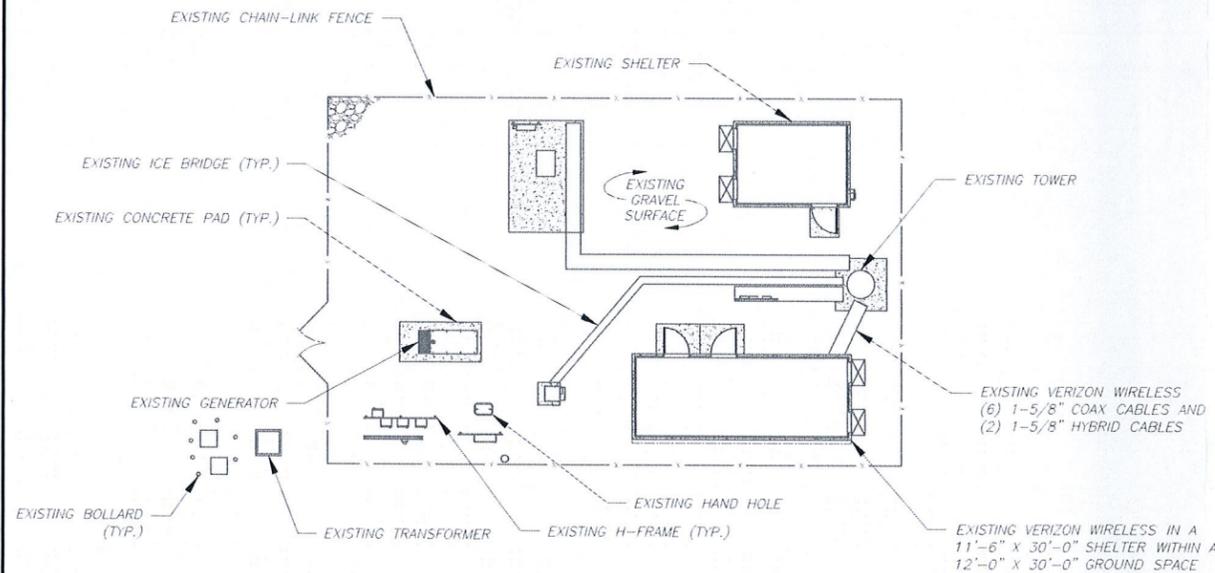
GENERAL NOTES

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G-002
 REVISION:
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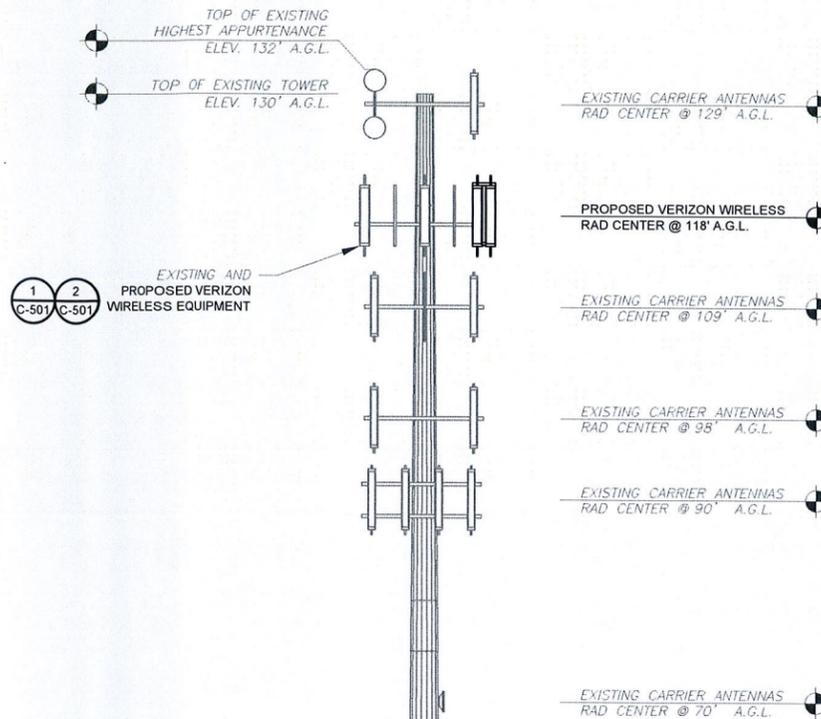
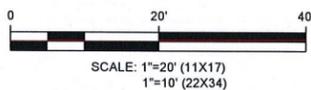
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SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, CABLE SUPPORTS, AND CABLES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE INSTALLING NEW CABLE SUPPORT STRUCTURES, COAX PORTS, OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ATC CONSTRUCTION MANAGER AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

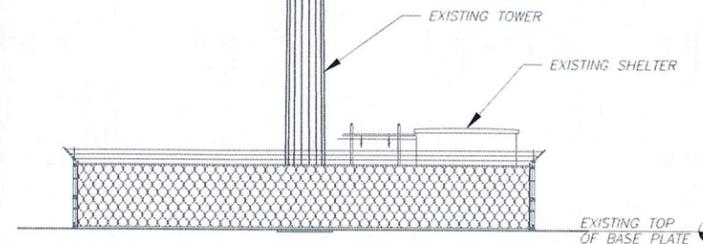


1 DETAILED SITE PLAN



TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS AND MOUNT CONFIGURATIONS.



2 TOWER ELEVATION
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370626

ATC SITE NAME:
EAST HARTFORD

SITE ADDRESS:
148 ROBERTS ST.
EAST HARTFORD, CT 06108

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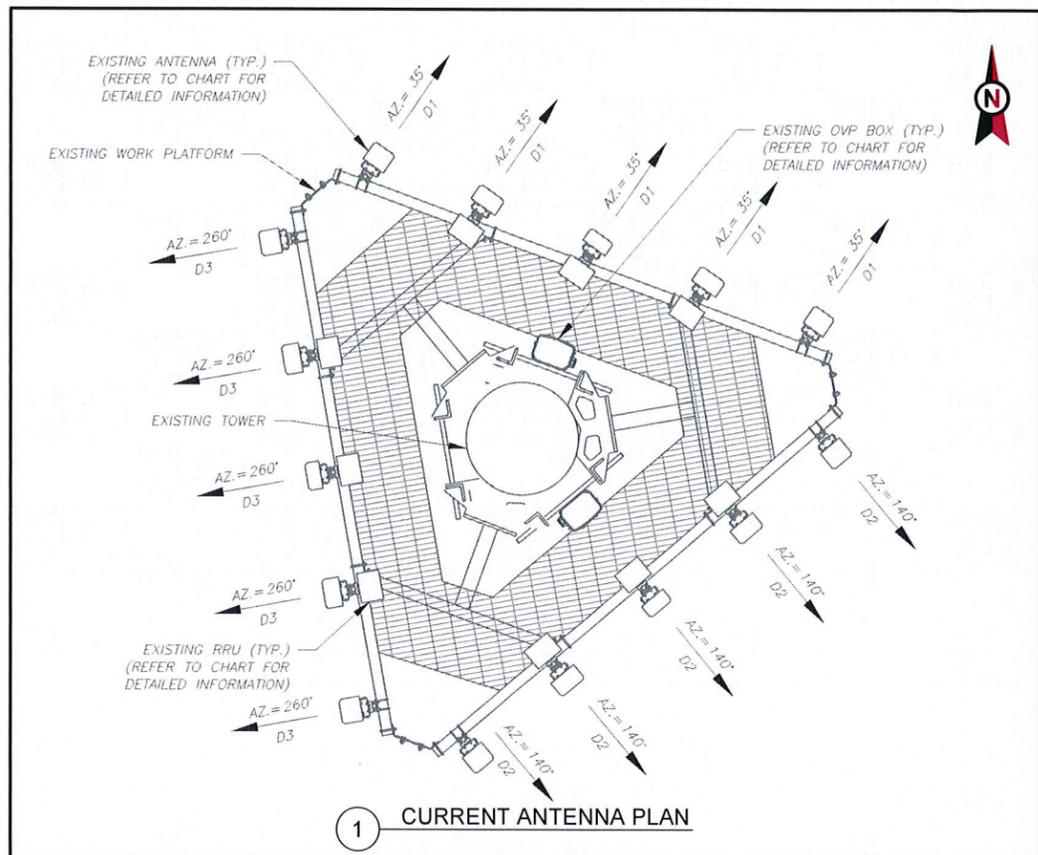


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DATE DRAWN:	11/22/17
ATC JOB NO:	12165835
CUSTOMER ID:	E HARTFORD 3 CT

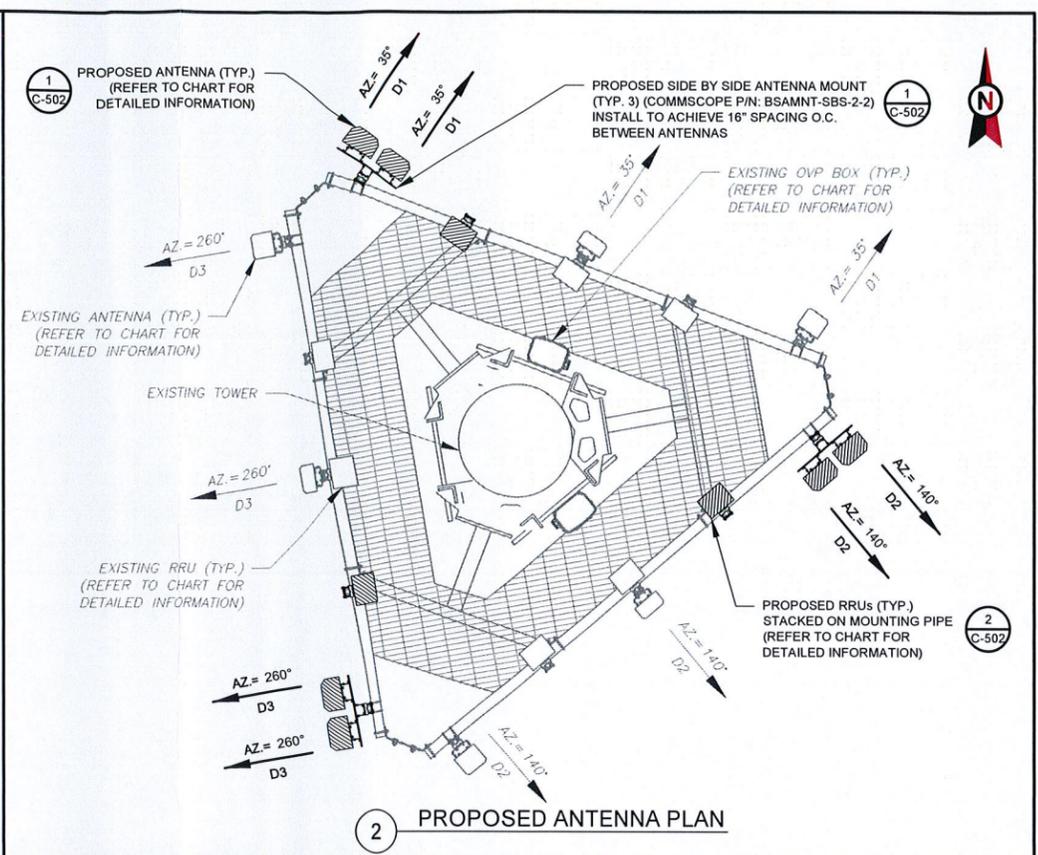
DETAILED SITE PLAN AND TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-101	0

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1 CURRENT ANTENNA PLAN



2 PROPOSED ANTENNA PLAN

CURRENT ANTENNA AND RF EQUIPMENT SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	BAND	MODEL NUMBER	STATUS	POS	MODEL NUMBER	STATUS
D1	118'	35°	1	850 CDMA	DB844G65ZAXY	RMV	1	-	-
			2	700/1900/2100 LTE	SBNHH-1D65B	RMV	2	PCS B25RRH2X60/4 X30	RMN
			3	-	BXA-70063-6CF	RMN	3	RRH2X60 700	RMN
			4	700/1900/2100 LTE	SBNHH-1D65B	RMV	4	RRH4X45-B66 W/SOLAR SHIELD	RMN
			5	850 CDMA	DB844G65ZAXY	RMN	-	-	-
D2	118'	140°	1	850 CDMA	DB844G65ZAXY	RMV	1	-	-
			2	700/1900/2100 LTE	SBNHH-1D65B	RMV	2	PCS B25RRH2X60/4 X30	RMN
			3	-	BXA-70063-6CF	RMN	3	RRH2X60 700	RMN
			4	700/1900/2100 LTE	SBNHH-1D65B	RMV	4	RRH4X45-B66 W/SOLAR SHIELD	RMN
			5	850 CDMA	DB844G65ZAXY	RMN	-	-	-
D3	118'	260°	1	850 CDMA	DB844G65ZAXY	RMV	1	-	-
			2	700/1900/2100 LTE	SBNHH-1D65B	RMV	2	PCS B25RRH2X60/4 X30	RMN
			3	-	BXA-70063-6CF	RMN	3	RRH2X60 700	RMN
			4	700/1900/2100 LTE	SBNHH-1D65B	RMV	4	RRH4X45-B66 W/SOLAR SHIELD	RMN
			5	850 CDMA	DB844G65ZAXY	RMN	-	-	-

NOTES

- BASED ON APPROVED ATC APPLICATION OAA716258, DATED 10/27/17. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS.
- ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIGURATION OR MOUNT CONFIGURATION. CONTRACTOR TO VERIFY MOUNT CONFIGURATION HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (I.E. CLEARANCES, MOUNT PIPE OR SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
- ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC CM.
- CONFIRM SPACING OF PROPOSED EQUIPMENT DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).
- CABLE LENGTHS SHOWN ESTIMATE MAXIMUM TYPICAL RUN AND INCORPORATE A 15% SAFETY FACTOR.

PROPOSED ANTENNA AND RF EQUIPMENT SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	BAND	MODEL NUMBER	STATUS	POS	MODEL NUMBER	STATUS
D1	118'	35°	1	700 / 850 / 1900 / 2100 LTE	(2) JAHH-65B-R3B	ADD	2	RRH 4T4R B5 160W AHCA	ADD
			2	-	-	-	2	PCS B25RRH2X60/4 X30	RMN
			3	-	BXA-70063-6CF	RMN	3	RRH2X60 700	RMN
			4	-	-	-	4	RRH4X45-B66 W/SOLAR SHIELD	RMN
			5	850 CDMA	DB844G65ZAXY	RMN	-	-	-
D2	118'	140°	1	700 / 850 / 1900 / 2100 LTE	(2) JAHH-65B-R3B	ADD	2	RRH 4T4R B5 160W AHCA	ADD
			2	-	-	-	2	PCS B25RRH2X60/4 X30	RMN
			3	-	BXA-70063-6CF	RMN	3	RRH2X60 700	RMN
			4	-	-	-	4	RRH4X45-B66 W/SOLAR SHIELD	RMN
			5	850 CDMA	DB844G65ZAXY	RMN	-	-	-
D3	118'	260°	1	700 / 850 / 1900 / 2100 LTE	(2) JAHH-65B-R3B	ADD	2	RRH 4T4R B5 160W AHCA	ADD
			2	-	-	-	2	PCS B25RRH2X60/4 X30	RMN
			3	-	BXA-70063-6CF	RMN	3	RRH2X60 700	RMN
			4	-	-	-	4	RRH4X45-B66 W/SOLAR SHIELD	RMN
			5	850 CDMA	DB844G65ZAXY	RMN	-	-	-

CURRENT FIBER DISTRIBUTION / OVP BOX					CURRENT CABLING SUMMARY		
LOCATION	POS	BAND	MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
TOWER	-	-	(2) DB-T1-6Z-BAB-OZ	RMN	(6) 1-5/8"	(2) 1-5/8"	RMN

STATUS ABBREVIATIONS
 RMV: TO BE REMOVED DSC: TO BE DISCONNECTED
 RMN: TO REMAIN AND TO REMAIN
 REL: TO BE RELOCATED

3 ANTENNA AND RF EQUIPMENT SCHEDULES

CABLE LENGTHS FOR FIBER AND DC JUMPERS
 FROM FIBER DISTRIBUTION / OVP BOX TO RRU: 15' JUMPERS
 FROM RRU TO ANTENNA: 15' JUMPERS

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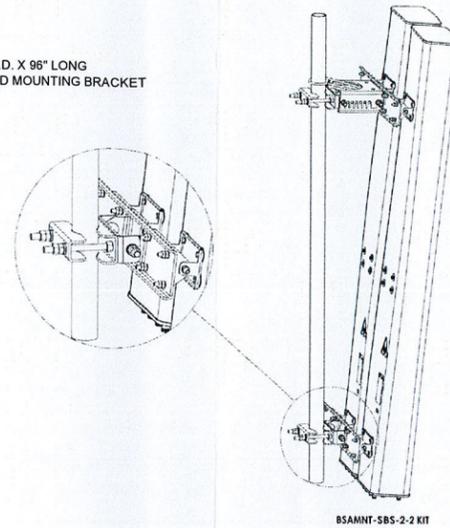
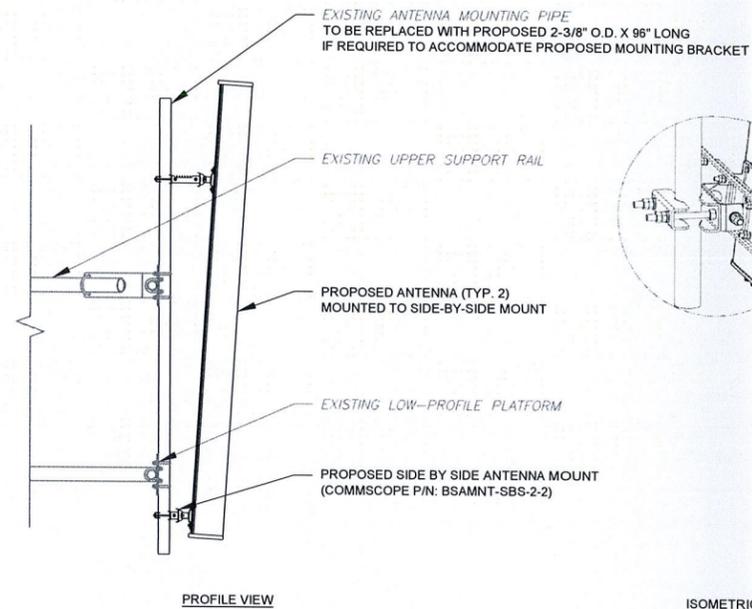
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RF SCHEDULE AND ANTENNA INSTALLATION

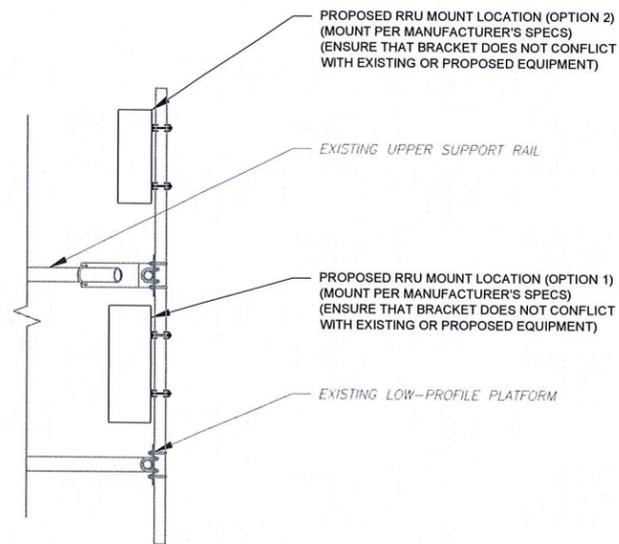
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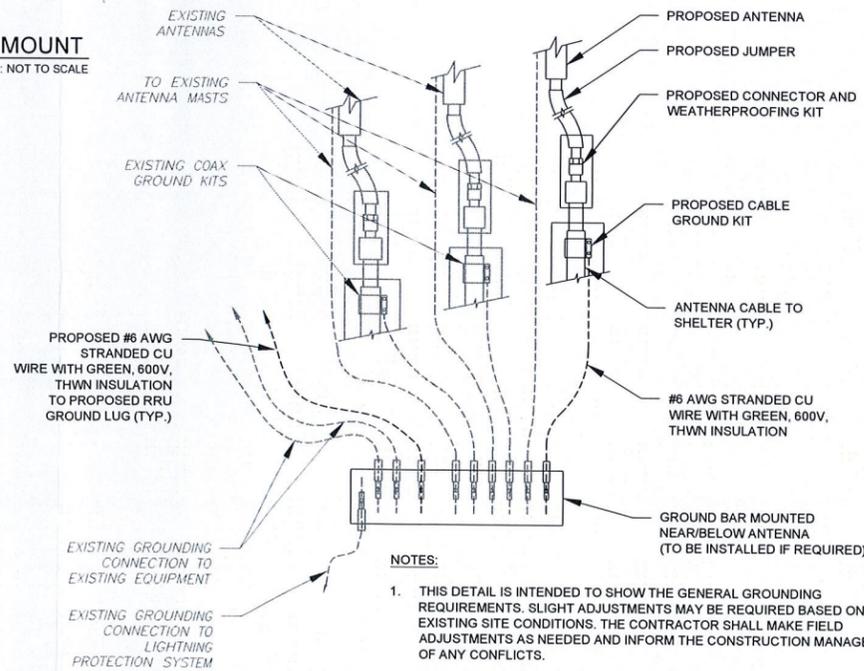
PROFILE VIEW

ISOMETRIC VIEW (BY MANUFACTURER)

1 PROPOSED SIDE-BY-SIDE MOUNT
SCALE: NOT TO SCALE



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: NOT TO SCALE



NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

3 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

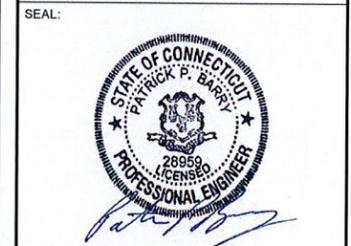


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