

From: Jason Blinkhorn <jblinkhorn@qualtekwireless.com>

Sent: Wednesday, May 26, 2021 3:37 PM

To: CSC-DL Siting Council <Siting.Council@ct.gov>; towngov@wallingfordct.gov

Cc: Adam Trapani <atrapani@qualtekwireless.com>; Corey Michaud <cmichaud@qualtekwireless.com>; Michael Cypranowski <mcypranowski@qualtekwireless.com>; Karin Turner <ktturner@qualtekwireless.com>; Siyuan Liu <sliu@qualtekwireless.com>; ATT Closeouts <attcloseouts@empiretelecomm.com>; New England Compliance <newenglandcompliance@empiretelecomm.com>

Subject: CSC SITE EM-AT&T-148-210405 ATT SITE CT5111

CSC team,

Please see attached. We will be looking to start 6-10-2021. Please let us know if anything else is needed.

COP team,

Please note CSC will require additional COP documents.

Thank You,

Jason Blinkhorn / Project Manager / 401-787-6007 / jblinkhorn@qualtekwireless.com
16 Esquire Rd, N Billerica MA 01862
125 Depot St, Bellingham, MA 02019



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BUILDING DEPARTMENT
TOWN OF WALLINGFORD
45 SOUTH MAIN STREET
TEL (203) 294-2005
FAX (203) 294-2095

PERMIT NUMBER: 42896

Permit Date:

May 7, 2021

BUILDING

ELECTRICAL

MECHANICAL

PLUMBING

(please circle one)

PROPERTY ADDRESS: 316 WOODHOUSE AVENUE

OWNER'S NAME / PHONE: CONNECTICUT STREET ROD ASSOC. 860-209-4690

PROPERTY OWNER ADDRESS: P.O. Box 1517 WALLINGFORD CT 06492

CONTRACTOR NAME/BUSINESS NAME: CROWN CASTLE USA INC.

CONTRACTOR ADDRESS: 200 CORPORATE DRIVE, CANONSBURG, PA 15317

CONTRACTOR PHONE # 203-435-3640 LICENSE NUMBER: MCD 0903225

DESCRIPTION FOR PERMITTED ACTIVITY: ANTENNA UPGRADE REMOVE

(6) TMA + 2 Diplexers Replace (3) ANTENNA, INSTALL
HANDRAIL KIT AND (3) TMA ON TOWER INSTALL (6) ERH AND (6) Diplexers 0.
NEW H FRAMES

CONSTRUCTION TYPE: Commercial USE GROUP: _____

CONSTRUCTION COST: \$ 30,000.00

APPLICANT NAME: DENISE SABO

APPLICANT SIGNATURE: DN App

BUILDING OFFICIAL SIGNATURE: John Planeta
office use only

PERMIT FEE: \$ 430.00 CO/COA FEE: \$ _____ LATE FEE: \$ _____

TOTAL FEE PAID: \$ 430.00 CASH/CHECK NO. 21192

white: Building

yellow: Assessor

pink: Applicant



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

Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

April 26, 2021

Denise Sabo
Northeast Site Solutions
54 Main Street, Unit 3
Sturbridge, MA 01566

RE: **EM-AT&T-148-210405** - AT&T notice of intent to modify an existing telecommunications facility located at 316 Woodhouse Avenue, Wallingford, Connecticut.

Dear Ms. Sabo:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Prior to AT&T's antenna installation, the antenna mount modifications shall be installed in accordance with the Mount Analysis prepared by Tower Engineering Professionals, dated February 24, 2021 and stamped and signed by Aaron Thomas Rucker;
2. Within 45 days following completion of equipment installation, AT&T shall provide documentation certified by a Professional Engineer that its installation complied with the recommendations of the Mount Analysis;
3. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
4. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
5. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
6. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
7. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
8. The validity of this action shall expire one year from the date of this letter; and
9. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated April 1, 2021. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Sincerely,

s/ Melanie A. Bachman

Melanie A. Bachman
Executive Director

MAB/IN/emr

c: The Honorable William W. Dickinson, Jr., Mayor, Town of Wallingford
(towngov@wallingfordct.gov)



APPROVED
By Benjamin Chamberlain at 12:30 pm, May 26, 2021



AT&T SITE NUMBER: CT5111
AT&T SITE NAME: WALLINGFORD-POND HILL
AT&T FA CODE: 10071340
AT&T PACE NUMBER: MRCTB046821
AT&T PROJECT: AT&T LTE 5C

BUSINESS UNIT #: 828915
SITE ADDRESS: 316 WOODHOUSE AVENUE WALLINGFORD, CT 06492
COUNTY: NEW HAVEN
SITE TYPE: MONOPOLE
TOWER HEIGHT: 148'-0"



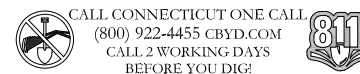
SITE INFORMATION

CROWN CASTLE USA INC.
 SITE NAME: WALLINGFORD/ I-91/ X14/ S
 SITE ADDRESS: 316 WOODHOUSE AVENUE WALLINGFORD, CT 06492
 COUNTY: NEW HAVEN
 MAP/PARCEL #: WALL-000190-000000-000028
 AREA OF CONSTRUCTION: EXISTING
 LATITUDE: 41° 26' 02.76"
 LONGITUDE: -72° 48' 05.26"
 LAT/LONG TYPE: NAD83
 GROUND ELEVATION: 220 FT.
 CURRENT ZONING: CA-40
 JURISDICTION: TOWN OF WALLINGFORD
 OCCUPANCY CLASSIFICATION: U
 TYPE OF CONSTRUCTION: IIB
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 PROPERTY OWNER: CONNECTICUT STREET ROD ASSOCIATION PO BOX 1517 WALLINGFORD, CT 06492
 TOWER OWNER: CCTMO LLC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
 CARRIER/APPLICANT: AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
 ELECTRIC PROVIDER: WALLINGFORD ELECTRIC (203) 294-2020
 TELCO PROVIDER: AT&T (866) 620-6900

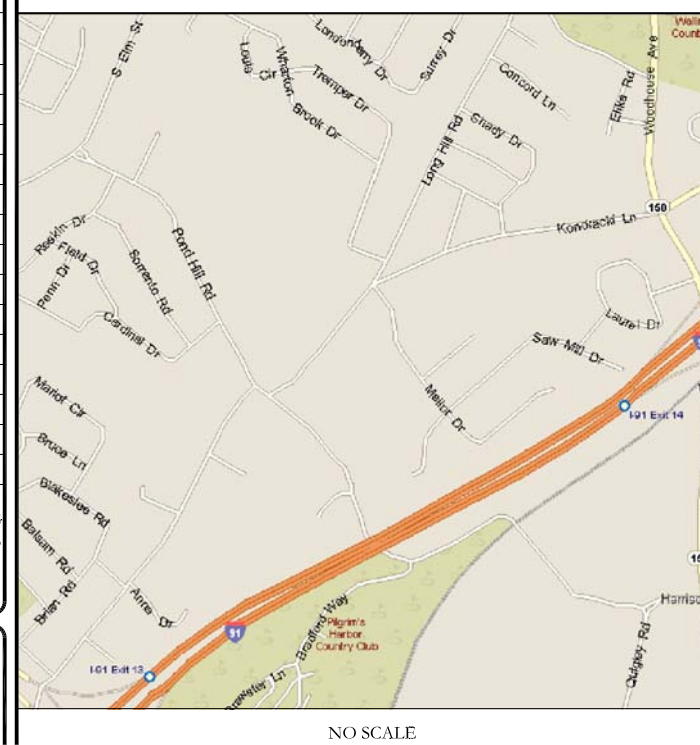
DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT SPECS
C-4.1	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



LOCATION MAP



SITE PHOTO



AT&T SITE NUMBER: CT5111
 BU #: 828915
 WALLINGFORD/ I-91/ X14/ S
 316 WOODHOUSE AVENUE WALLINGFORD, CT 06492
 EXISTING 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH

PROJECT TEAM

A&E FIRM: CROWN CASTLE USA INC. 2000 CORPORATE DRIVE CANONSBURG, PA 15317 CROWN.AE.APPROVAL@CROWNCastle.COM
 CROWN CASTLE USA INC. DISTRICT CONTACTS: 3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065
 VERONICA DELIA - PROJECT MANAGER (215) 292-2087
 JASON D'AMICO - CONSTRUCTION MANAGER (860) 209-0104

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.
 TOWER SCOPE OF WORK:
 • REMOVE (3) POWERWAVE - 7770 ANTENNAS
 • REMOVE (12) KATHREIN - 860 10025 DIPLEXERS
 • RELOCATE (3) KATHREIN - 782-10254 SMART BIAS TEEs
 • INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION ANALYSIS BY TOWER ENGINEERING PROFESSIONALS DATED 5/6/21.
 • INSTALL (3) CCI - HPA-65R-BU6AA ANTENNAS
 • INSTALL (3) CCI - TMABPD7823VG12A TMAs
 GROUND SCOPE OF WORK:
 • REMOVE (1) 3206
 • INSTALL (1) 6630 + IDLe CABLE
 • INSTALL (1) DC12
 • INSTALL (1) FLEX16 DOOR UPGRADE KIT
 • INSTALL (3) ERICSSON - 4449 B5/B12 RRHS
 • INSTALL (3) ERICSSON - 4426 B66 RRHS
 • INSTALL (6) KAEELUS - DBC0115F1V91-2 DIPLEXERS
 • INSTALL (1) H-FRAME

INSTALLER NOTE:
 NO PROPOSED LOADING TO BE ADDED UNTIL MOUNT MODIFICATIONS ARE INSTALLED PER MOUNT MODIFICATION ANALYSIS BY TOWER ENGINEERING PROFESSIONALS DATED MAY 26, 2020

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:
 CODE TYPE CODE
 BUILDING 2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS
 MECHANICAL 2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS
 ELECTRICAL 2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS

REFERENCE DOCUMENTS:
 STRUCTURAL ANALYSIS: CROWN CASTLE DATED: 8/20/20
 MOUNT MODIFICATION ANALYSIS: TOWER ENGINEERING PROFESSIONALS DATED: 5/6/21
 RFDS REVISION: 2 DATED: 2/11/21
 ORDER ID: 517093 REVISION: 1

NOTE:
 PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.



B&T ENGINEERING, INC.
 PEC.0001564
 Expires 2/10/22
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SHEET NUMBER: T-1 **REVISION:** 1



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

AT&T SITE NUMBER: CT5111

BU #: 828915
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

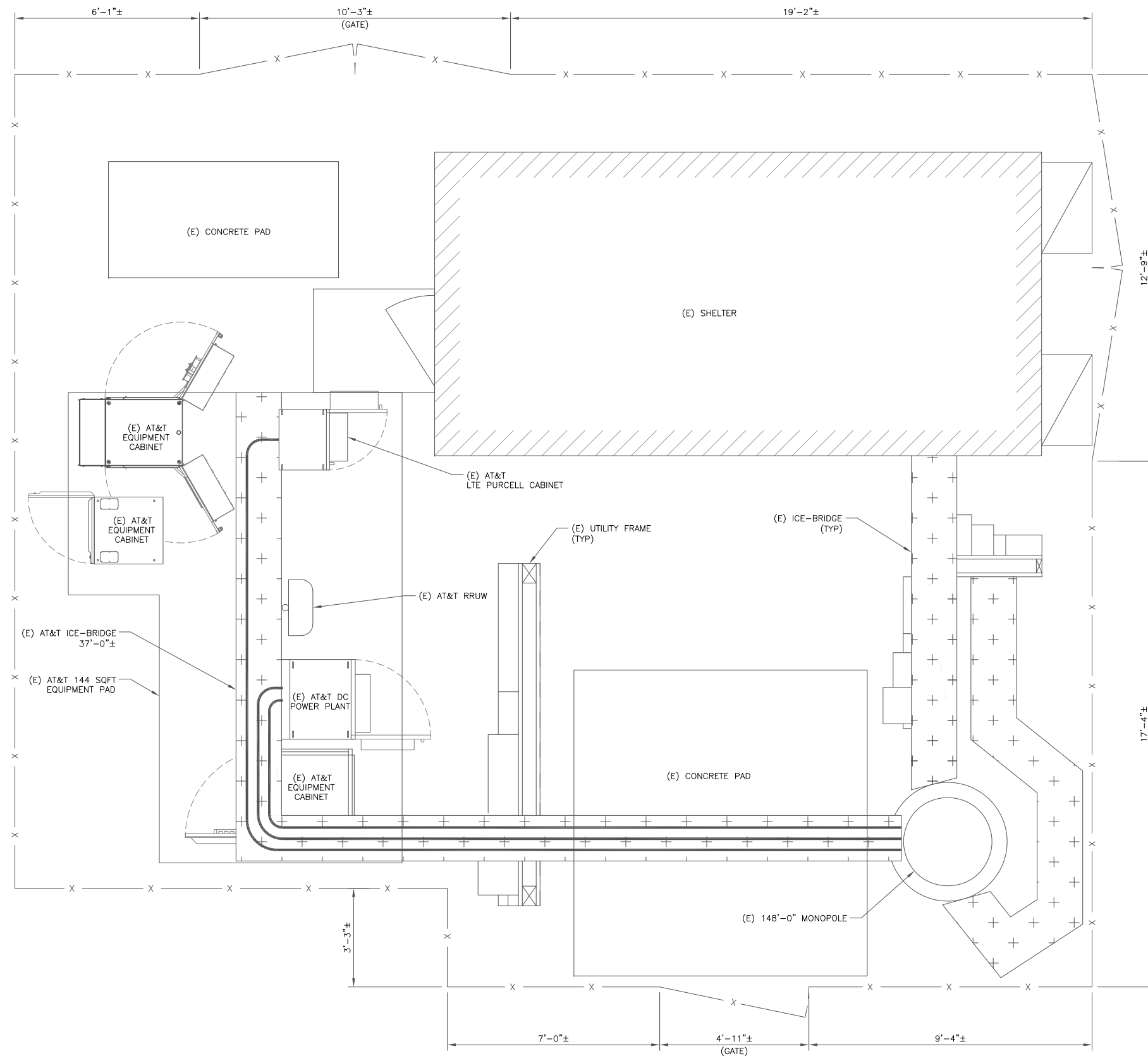
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH



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SHEET NUMBER: **C-1.1** REVISION: **1**



1 SITE PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)





575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



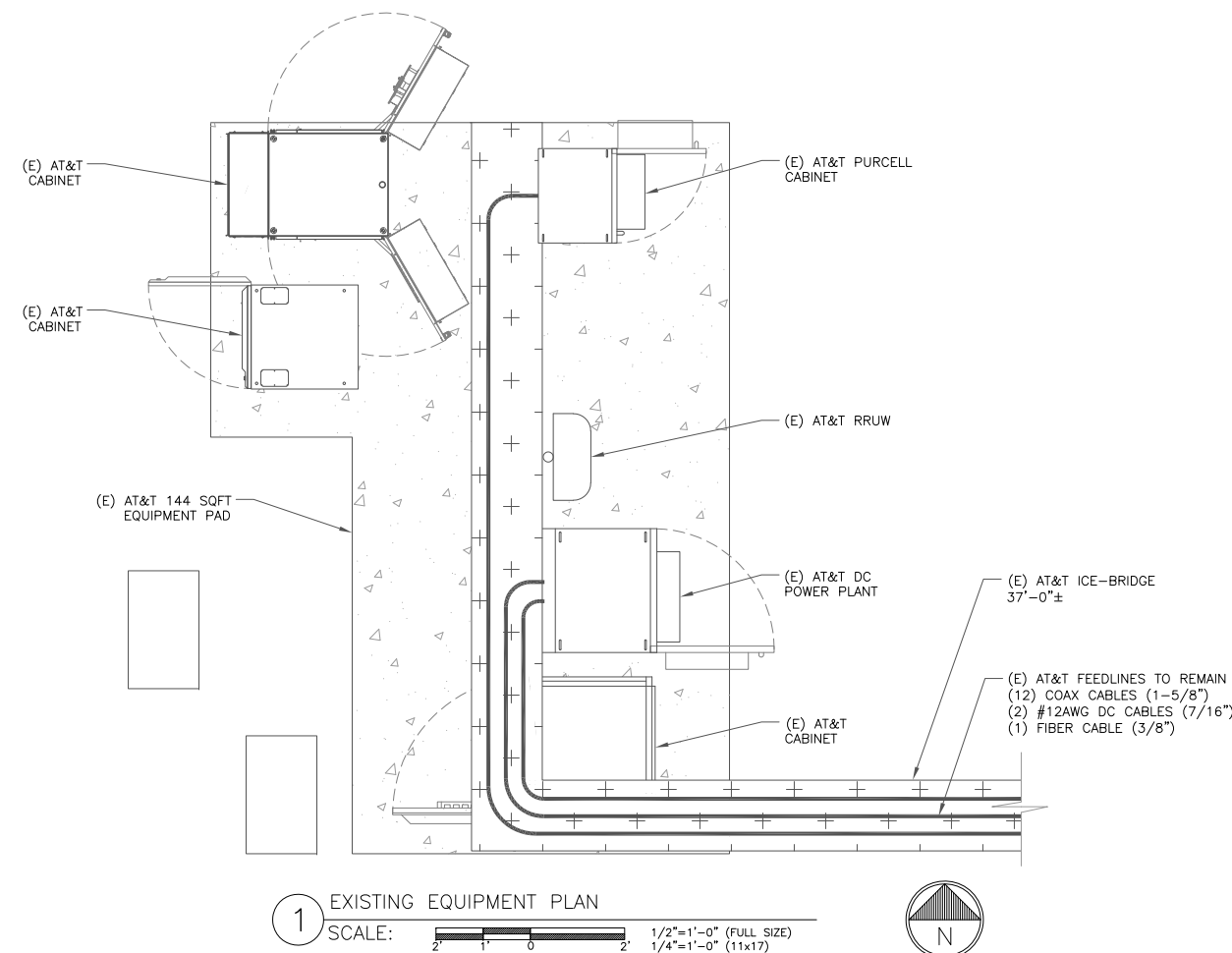
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

AT&T SITE NUMBER: CT5111

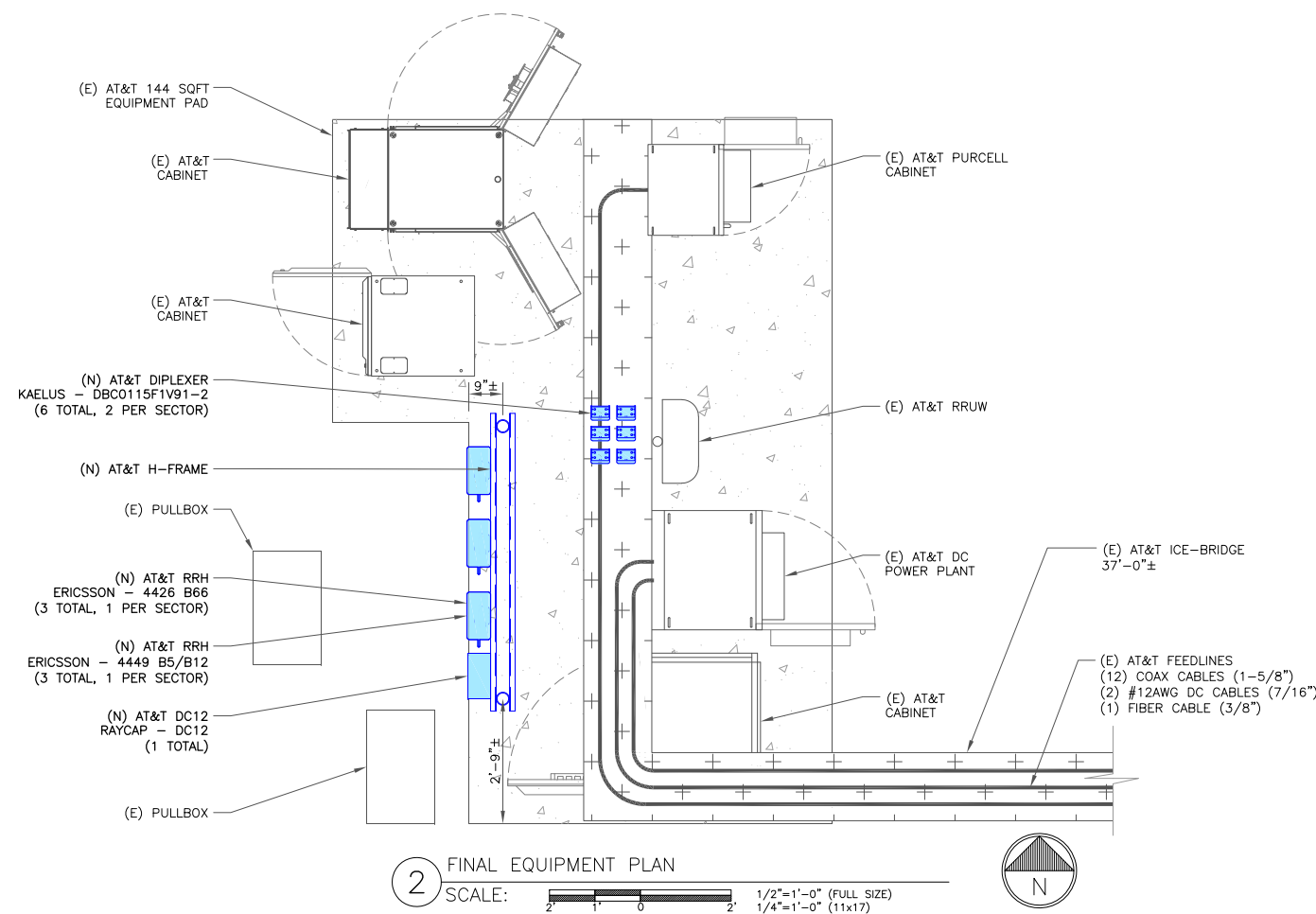
BU #: 828915
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE



1 EXISTING EQUIPMENT PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



2 FINAL EQUIPMENT PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)

- GROUND SCOPE OF WORK:
- REMOVE (1) UMTS 3206
 - INSTALL (1) 6630 5G
 - INSTALL (3) ERICSSON - 4449 B5/B12 RRHS
 - INSTALL (3) ERICSSON - 4426 B66 RRHS
 - INSTALL (6) Kaelus - DBC0115F1V91-2 DIPLEXERS
 - INSTALL (1) RAYCAP - DC12
 - INSTALL (1) FLEX16 DOOR UPGRADE KIT
 - INSTALL (1) H-FRAME

ISSUED FOR:

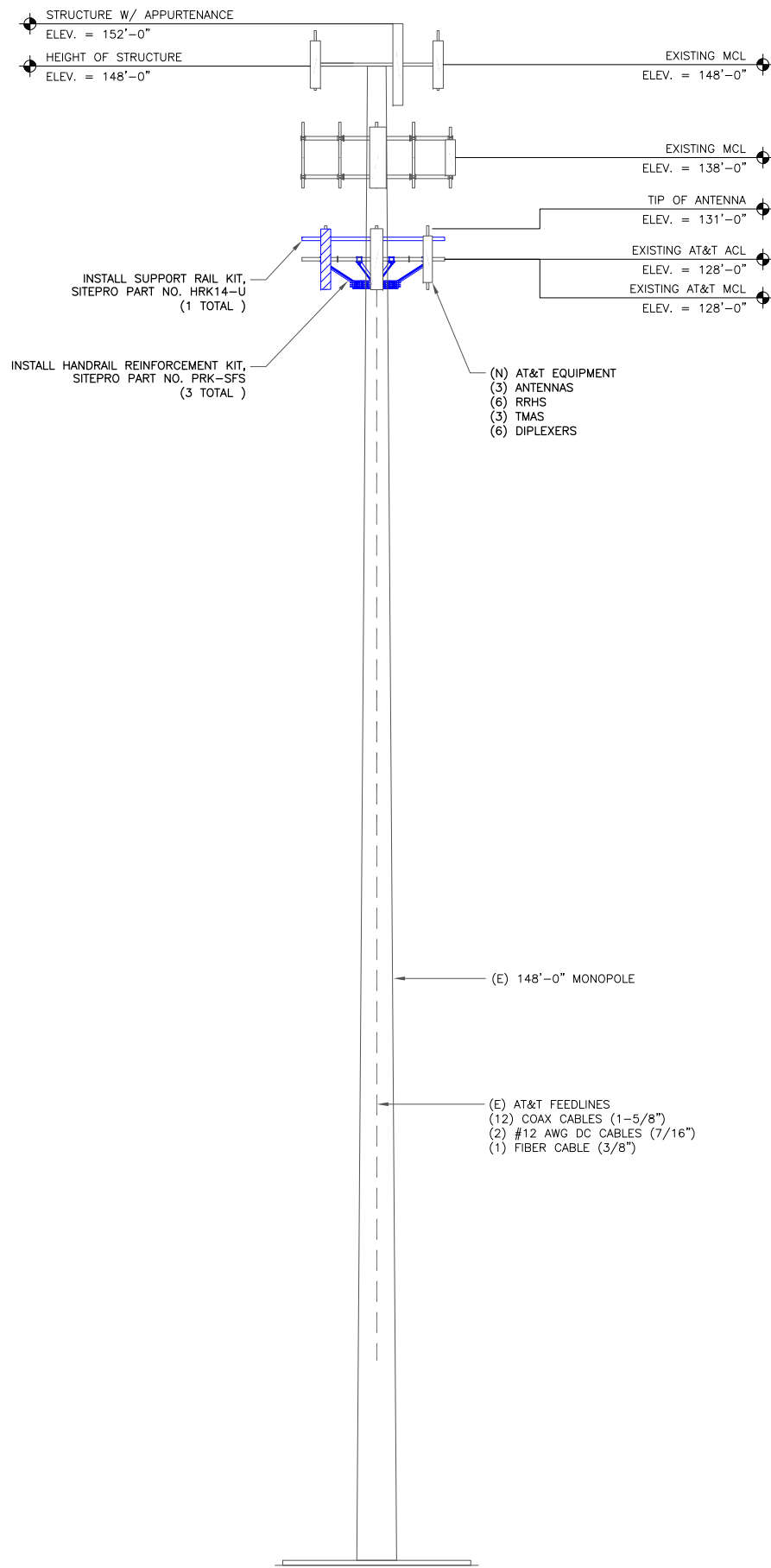
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B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH



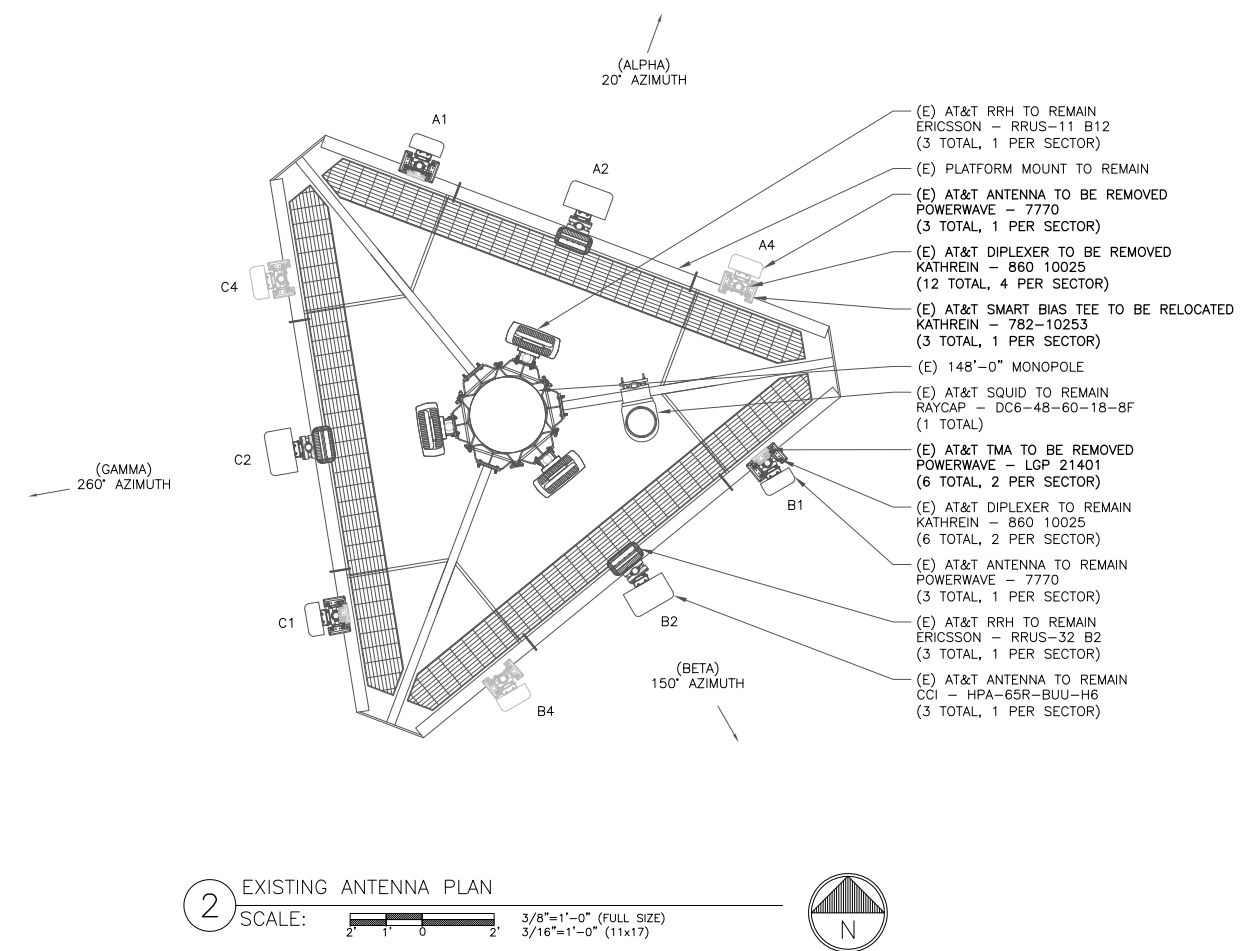
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PEC.0001564
Expires 2/10/22

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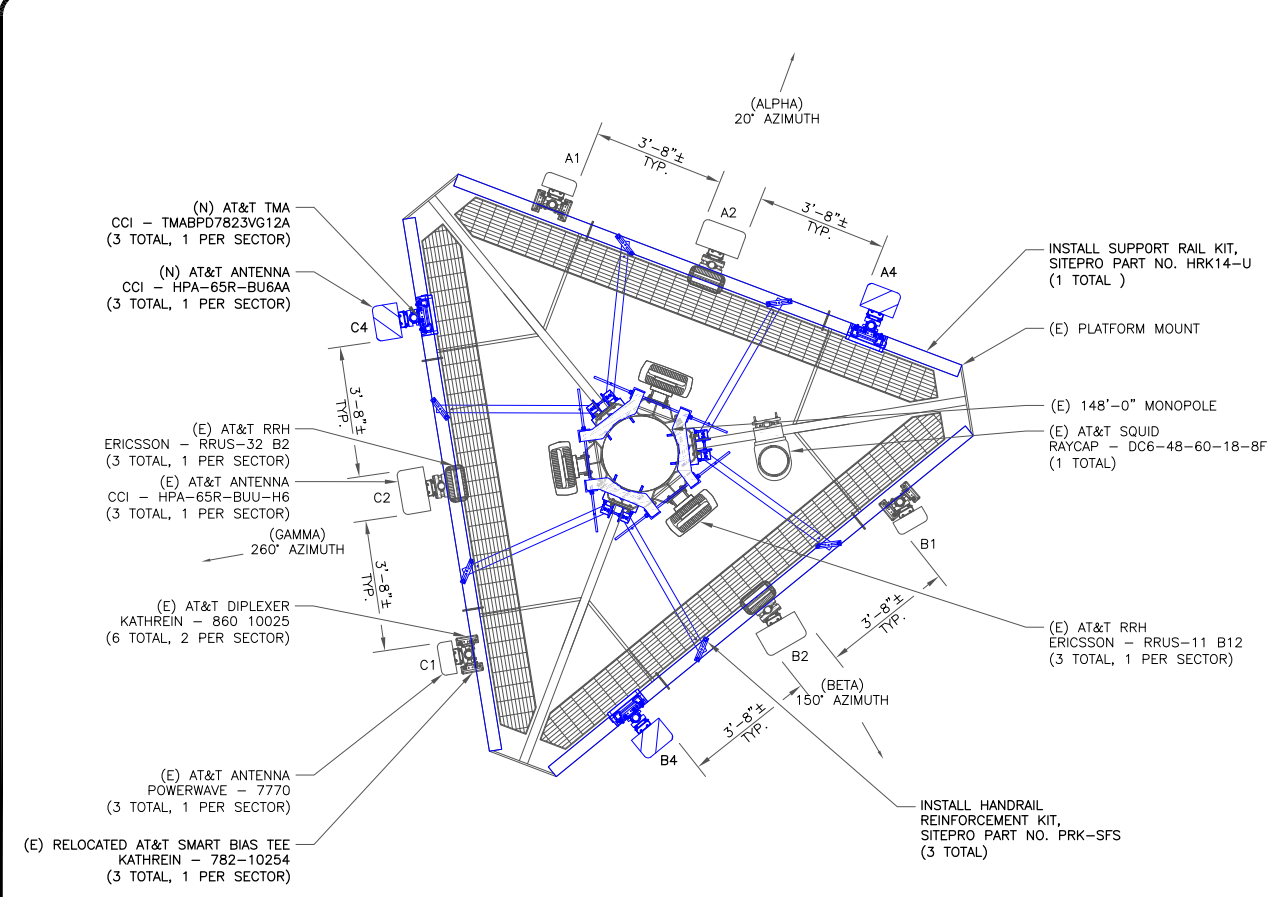
SHEET NUMBER: **C-1.2** REVISION: **1**



1 FINAL ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



3 FINAL ANTENNA PLAN
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)

"LOOK UP" - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

NOTES:

- REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
- REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
- CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.

INSTALLER NOTES:

- REFERENCE C-3 FOR FINAL EQUIPMENT SCHEDULE.
- REFERENCE C-4 FOR NEW EQUIPMENT SPECIFICATIONS.
- CONTRACTOR TO VERIFY ALL ANTENNA TIP HEIGHTS DO NOT EXCEED BEACON BASE HEIGHT.
- 3'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE ANTENNAS ON SAME SECTOR.
- 6'-0" MINIMUM DISTANCE REQUIRED BETWEEN 700BC & 700DE ANTENNAS ON SAME SECTOR.
- 4'-0" MINIMUM DISTANCE REQUIRED BETWEEN LTE 700 ANTENNAS ON OPPOSING SECTORS.
- ALL ANTENNA MEASUREMENT DISTANCES MUST BE EDGE TO EDGE (RELOCATE ANTENNAS AS NEEDED).
- 8" MINIMUM DISTANCE REQUIRED BETWEEN ANTENNA & RADIO. SEE GENERIC EXAMPLE DETAIL ON SHEET C-4.



AT&T SITE NUMBER: CT5111

BU #: 828915

WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
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B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH

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SHEET NUMBER: C-2	REVISION: 1
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AT&T SITE NUMBER: **CT5111**

BU #: **828915**
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
 WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
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B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH



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 PEC.0001564
 Expires 2/10/22

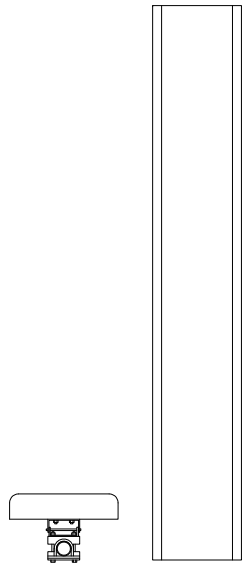
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SHEET NUMBER: **C-3** REVISION: **1**

FINAL ANTENNA AND FEEDLINE SCHEDULE

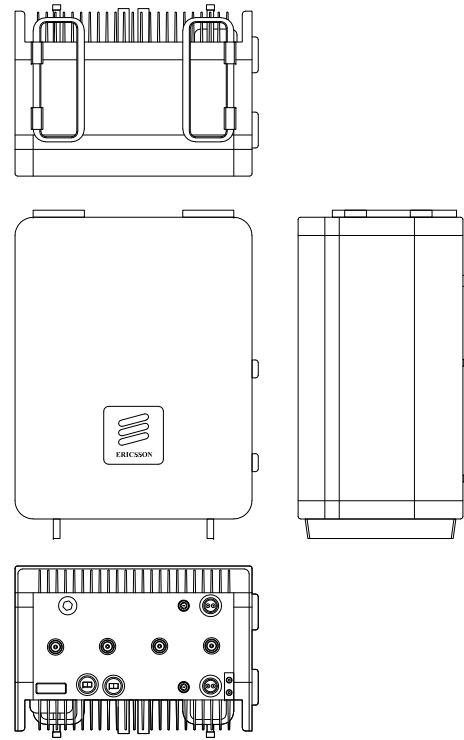
POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE	
ALPHA SECTOR																			
A1	UMTS	EXISTING	20°	POWERWAVE 7770	128'-0"	0°	4°	1 5/8"	150'-0"	2	-	-	-	-	-	Y	N	Y	
A2	LTE	EXISTING	20°	CCI HPA-65R-BUU-H6	128'-0"	0°	10°/6°/6°	-	-	-	-	-	-	(1) RRUS-11 B12 (1) RRUS-32 B2	TOWER	-	-	Y	
A3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A4	LTE	NEW	20°	CCI HPA-65R-BU6AA	128'-0"	0°	6°/6°/6°	1 5/8"	150'-0"	2	(1) TMABPD7823VG12A	-	-	(1) 4449 B5/B12 (1) 4426 B26	TOWER	Y	N	Y	
BETA SECTOR																			
B1	UMTS	EXISTING	20°	POWERWAVE 7770	128'-0"	0°	2°	1 5/8"	150'-0"	2	-	-	-	-	-	Y	N	Y	
B2	LTE	EXISTING	20°	CCI HPA-65R-BUU-H6	128'-0"	0°	3°/2°/2°	-	-	-	-	-	DC6-48-60-18-8F	(1) 3/8" FIBER (2) 7/16" DC LINES	(1) RRUS-11 B12 (1) RRUS-32 B2	TOWER	-	-	Y
B3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
B4	LTE	NEW	20°	CCI HPA-65R-BU6AA	128'-0"	0°	2°/2°/2°	1 5/8"	150'-0"	2	(1) TMABPD7823VG12A	-	-	(1) 4449 B5/B12 (1) 4426 B26	TOWER	Y	N	Y	
GAMMA SECTOR																			
C1	UMTS	EXISTING	20°	POWERWAVE 7770	128'-0"	2°	4°	1 5/8"	150'-0"	2	-	-	-	-	-	Y	N	Y	
C2	LTE	EXISTING	20°	CCI HPA-65R-BUU-H6	128'-0"	0°	10°/6°/6°	-	-	-	-	-	-	(1) RRUS-11 B12 (1) RRUS-32 B2	TOWER	-	-	Y	
C3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
C4	LTE	NEW	20°	CCI HPA-65R-BU6AA	128'-0"	0°	6°/6°/6°	1 5/8"	150'-0"	2	(1) TMABPD7823VG12A	-	-	(1) 4449 B5/B12 (1) 4426 B26	TOWER	Y	N	Y	

NOTE: BOLD DENOTES NEW EQUIPMENT



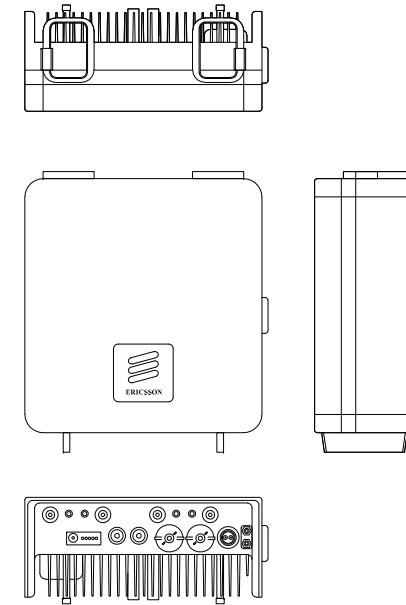
CCI ANTENNAS - HPA-65R-BU6AA
 WEIGHT (WITHOUT MOUNTING HARDWARE): 54.5 LBS
 SIZE (HxWxD): 71.20x11.70x8.40 IN.
 MOUNTING HARDWARE P/N: MBK-01
 RATED WIND VELOCITY: 150.0 MPH

1 CCI - HPA-65R-BU6AA
 SCALE: NOT TO SCALE



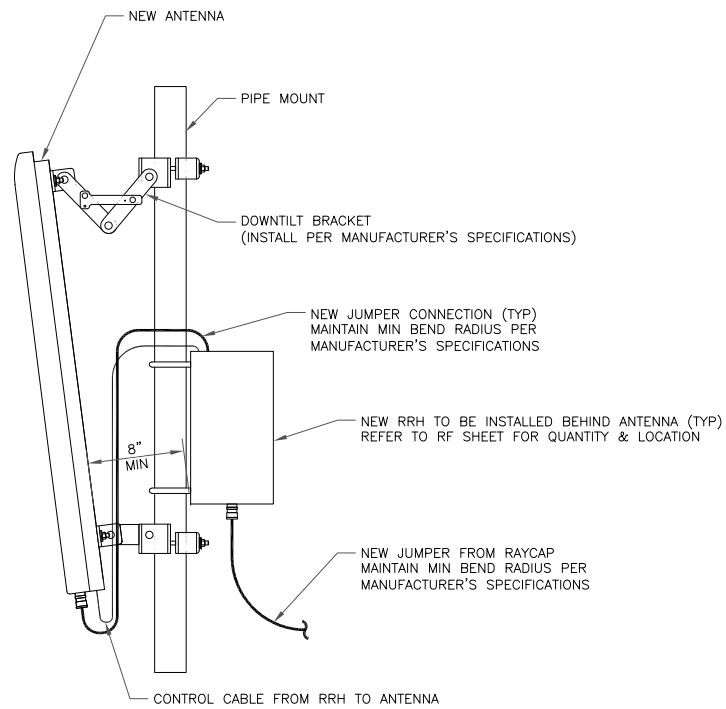
ERICSSON - RADIO 4449 B5/B12
 WEIGHT: 70.0 LBS
 SIZE (HxWxD): 18.0x13.2x9.4 IN.

2 ERICSSON - RADIO 4449 B5/B12
 SCALE: NOT TO SCALE

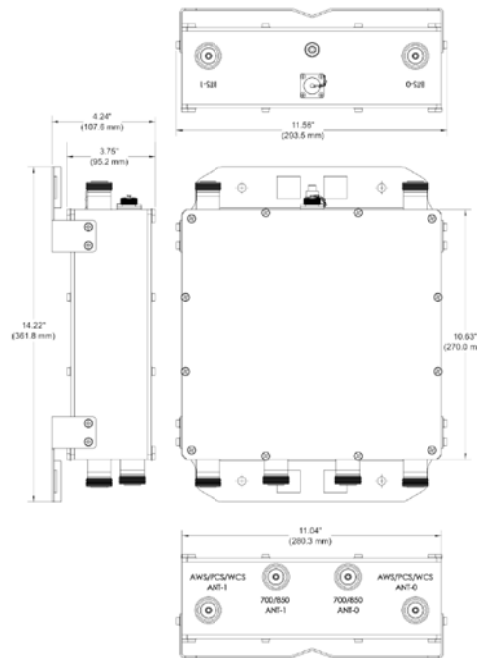


ERICSSON - RADIO 4426 B66
 WEIGHT: 60.0 LBS
 SIZE (HxWxD): 14.9x13.2x5.8 IN.

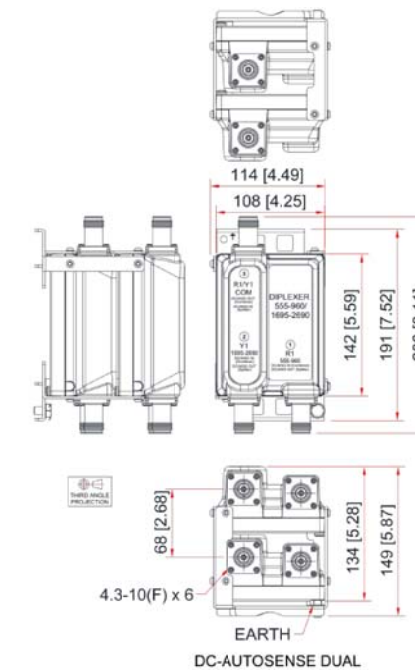
3 ERICSSON - RADIO 4426 B66
 SCALE: NOT TO SCALE



4 GENERIC ANTENNA MOUNTING ELEVATION
 SCALE: NOT TO SCALE



5 CCI - TMABPD7823VG12A
 SCALE: NOT TO SCALE



6 KAEUS - DBC0115F1V91-2
 SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT5111
 BU #: 828915
 WALLINGFORD/ I-91/ X14/ S
 316 WOODHOUSE AVENUE
 WALLINGFORD, CT 06492
 EXISTING 148'-0" MONOPOLE

ISSUED FOR:

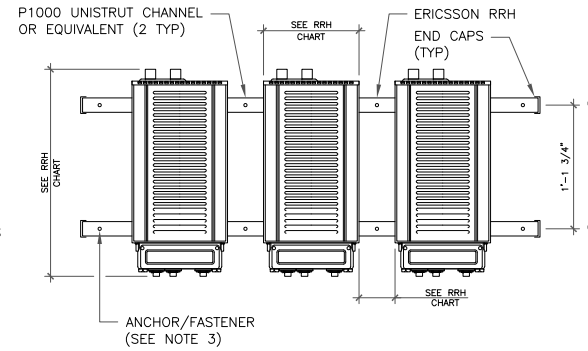
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH

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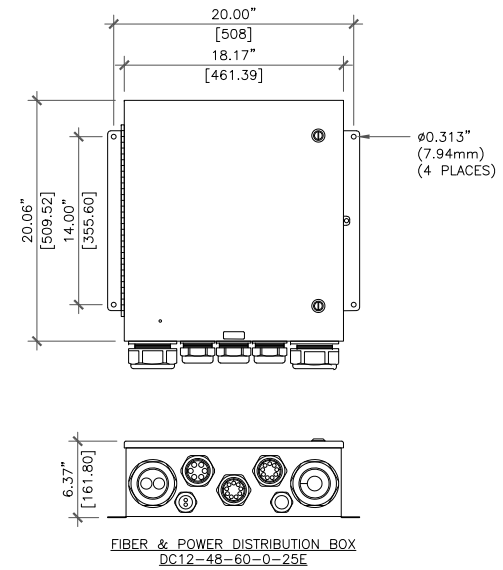
SHEET NUMBER: C-4	REVISION: 1
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NOTES:

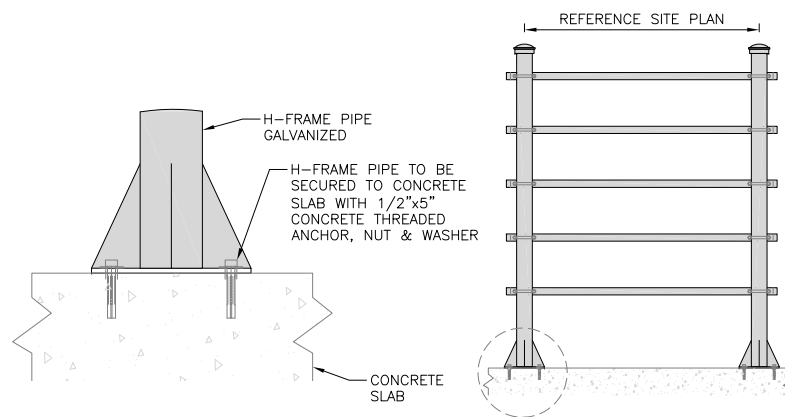
- ERICSSON VIA AT&T SUPPLIES THE RRH. SUBCONTRACTOR SHALL SUPPLY ALL OTHER MATERIALS AND INSTALL ALL MOUNTING HARDWARE. ERICSSON INSTALLS RRH AND MAKES CABLE TERMINATIONS.
- A SUPPORT FOR A SINGLE RRH SHALL HAVE A MINIMUM OF TWO ANCHORS/FASTENERS FOR EACH UNISTRUT CHANNEL.
- INSTALL ANCHORS/FASTENERS A MAXIMUM OF 2'-0" ON CENTERS.
 - WOOD STUDS - 1/4"Ø LAG BOLT W/ 1" EMBEDMENT IN WOOD
 - CONCRETE - 1/4"Ø HILTI KWIK BOLT III W/ 1-1/2" EMBEDMENT OR EQUIVALENT
 - THROUGH BOLT - 1/4"Ø A36/A307 THREADED ROD W/ NUTS AND WASHERS
 - MASONRY - 1/2"Ø HILTI HY20 W/6" EMBEDMENT ANCHORS AND UNISTRUT CHANNEL SHALL HAVE HOT-DIPPED GALVANIZED FINISH.
- MOUNT RRH TO UNISTRUT WITH 3/8"Ø UNISTRUT BOLTING HARDWARE AND SPRING NUTS. TYPICAL FOUR PER BRACKET. SUBCONTRACTOR SHALL SUPPLY.
- NO PAINTING OF THE RRH OR SOLAR SHIELD IS ALLOWED.



1 RRH MOUNTING DETAIL
SCALE: NOT TO SCALE



2 SURGE UNIT DETAIL (DC12-48-60-0-25E)
SCALE: N.T.S.



3 H-FRAME DETAIL
SCALE: NOT TO SCALE



AT&T SITE NUMBER: CT5111

BU #: 828915
WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

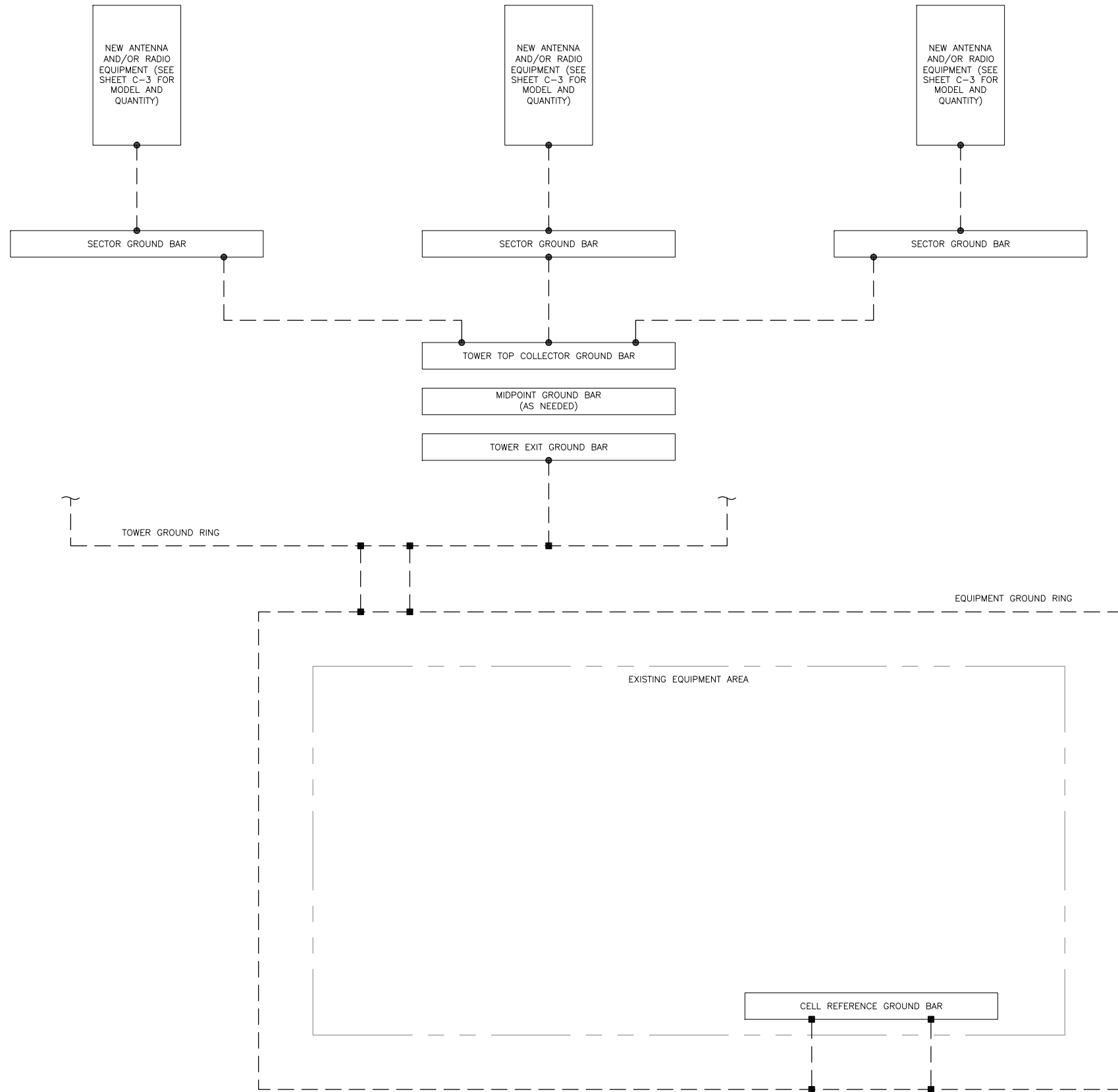
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH



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SHEET NUMBER: **C-4.1** REVISION: **1**



GROUNDING PLAN LEGEND:

- GROUND WIRE
- EXOTHERMIC WELD
- MECHANICAL CONNECTION
- ⊙ COPPER GROUND ROD
- ⊗ GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

AT&T SITE NUMBER: **CT5111**

BU #: **828915**


WALLINGFORD/ I-91/ X14/ S

316 WOODHOUSE AVENUE
WALLINGFORD, CT 06492

EXISTING 148'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/11/20	MLC	PRELIMINARY	RO
B	06/04/20	RO	PRELIMINARY	--
C	2/22/21	JTS	PRELIMINARY	RMC
0	3/31/21	JTS	CONSTRUCTION	MTJ
1	5/13/21	GEH	CONSTRUCTION	GEH

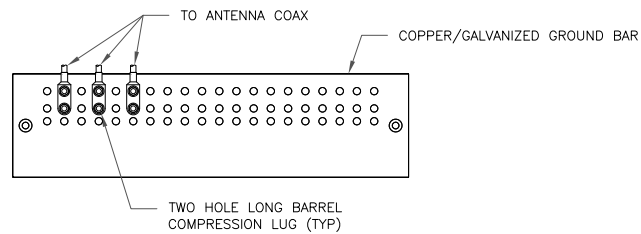


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1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

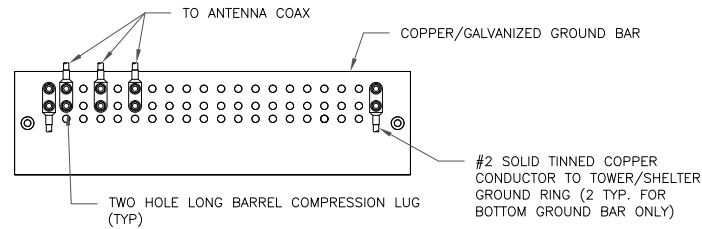
SHEET NUMBER: **G-1** REVISION: **1**



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE

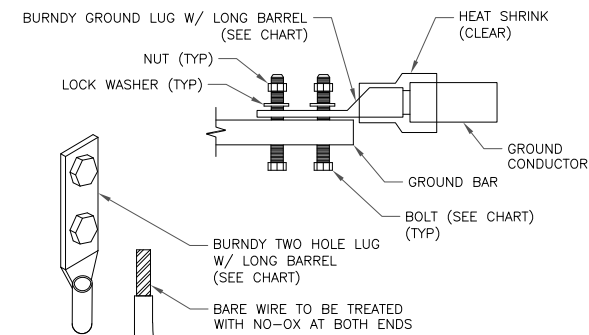


NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

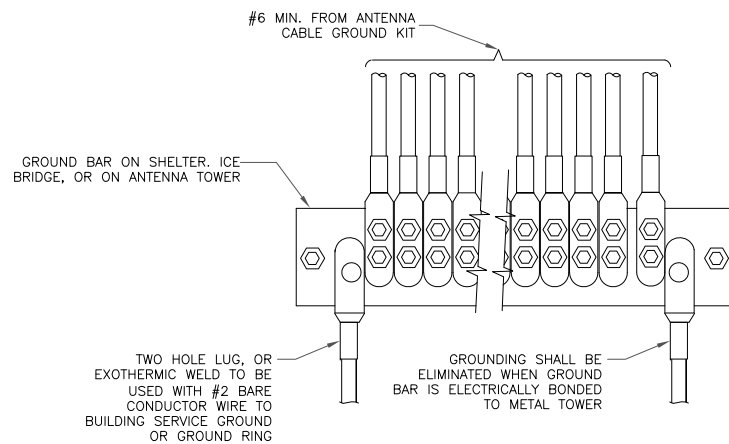
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



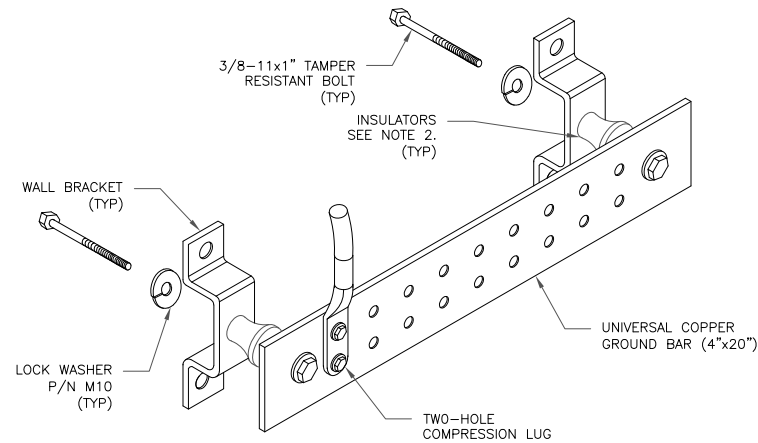
NOTE:

ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



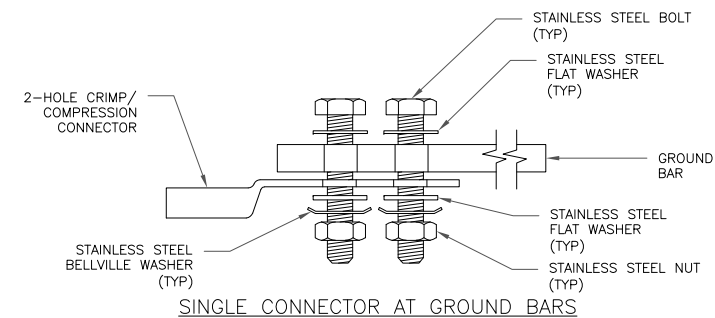
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



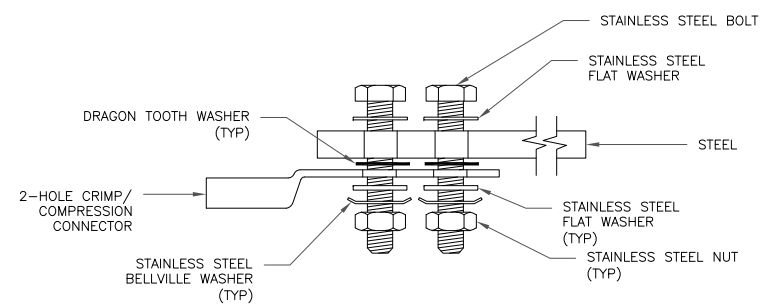
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

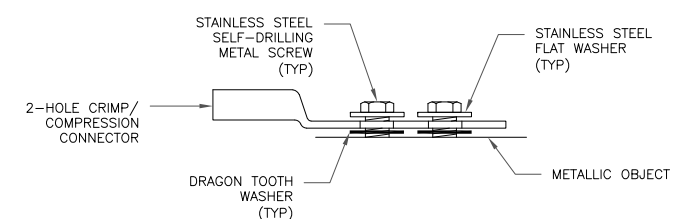
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

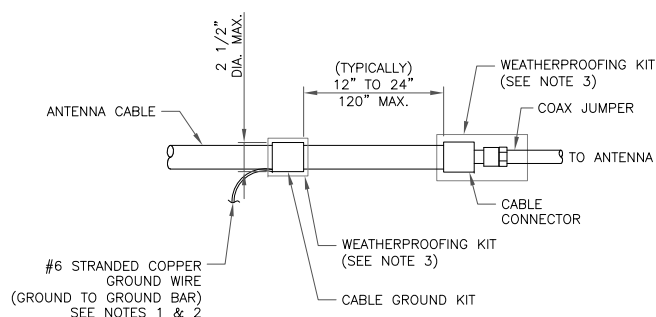


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

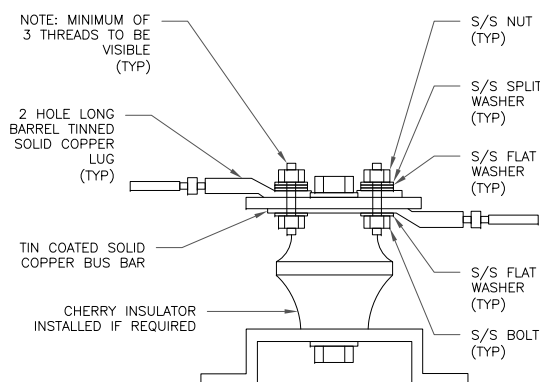
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



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SHEET NUMBER: **G-2** REVISION: **1**

Diagram - Sector A Diagram File Name - CT5111_Descope_A_B_G_Rev.1.vsd
 Atoll Site Name - CT5111 Location Name - WALLINGFORD-POND HILL Market - CONNECTICUT Market Cluster - NEW ENGLAND
 Comments: "Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson"

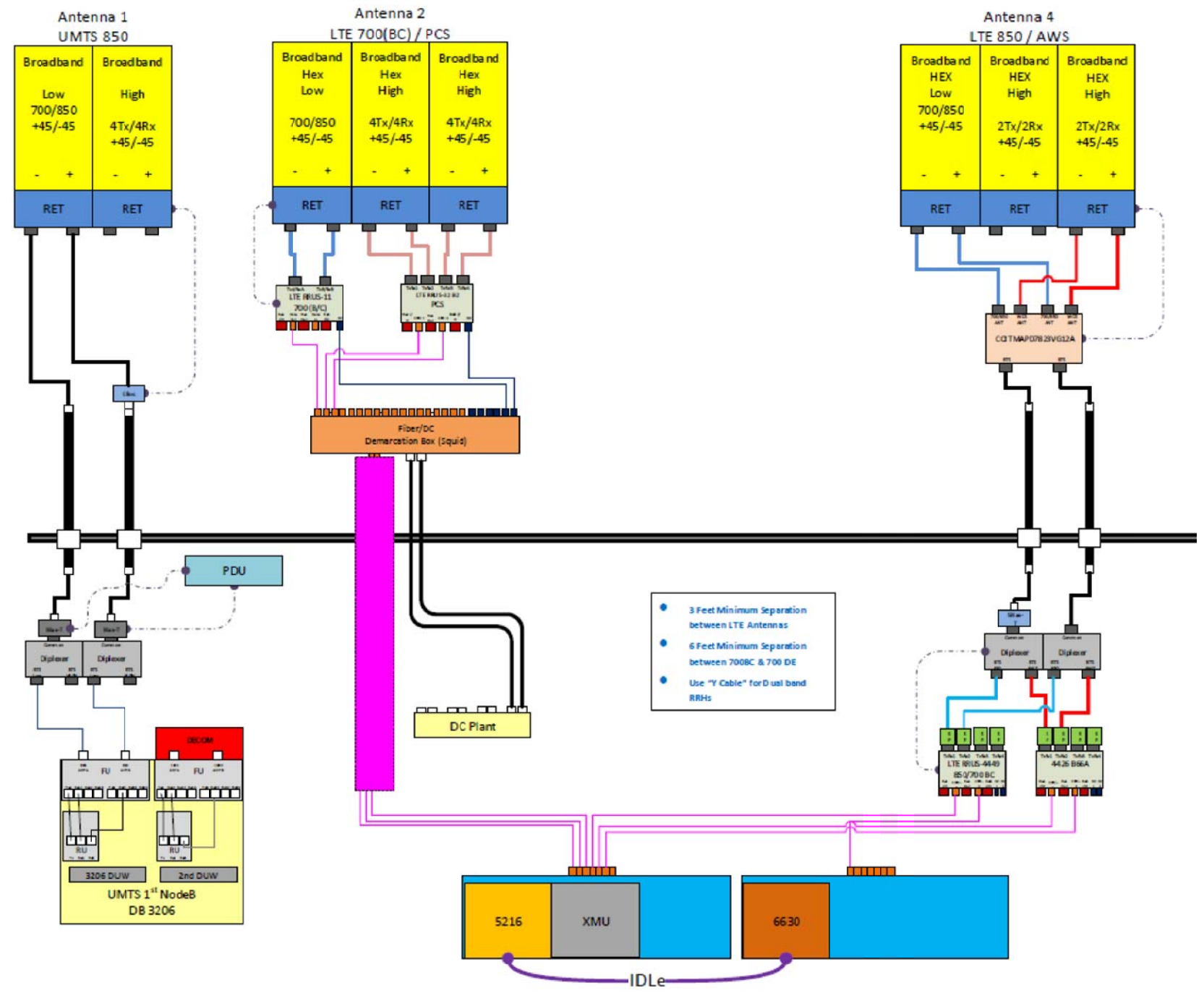


Diagram - Sector B Diagram File Name - CT5111_Descope_A_B_G_Rev.1.vsd
 Atoil Site Name - CT5111 Location Name - WALLINGFORD-POND HILL Market - CONNECTICUT Market Cluster - NEW ENGLAND
 Comments: *Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson*

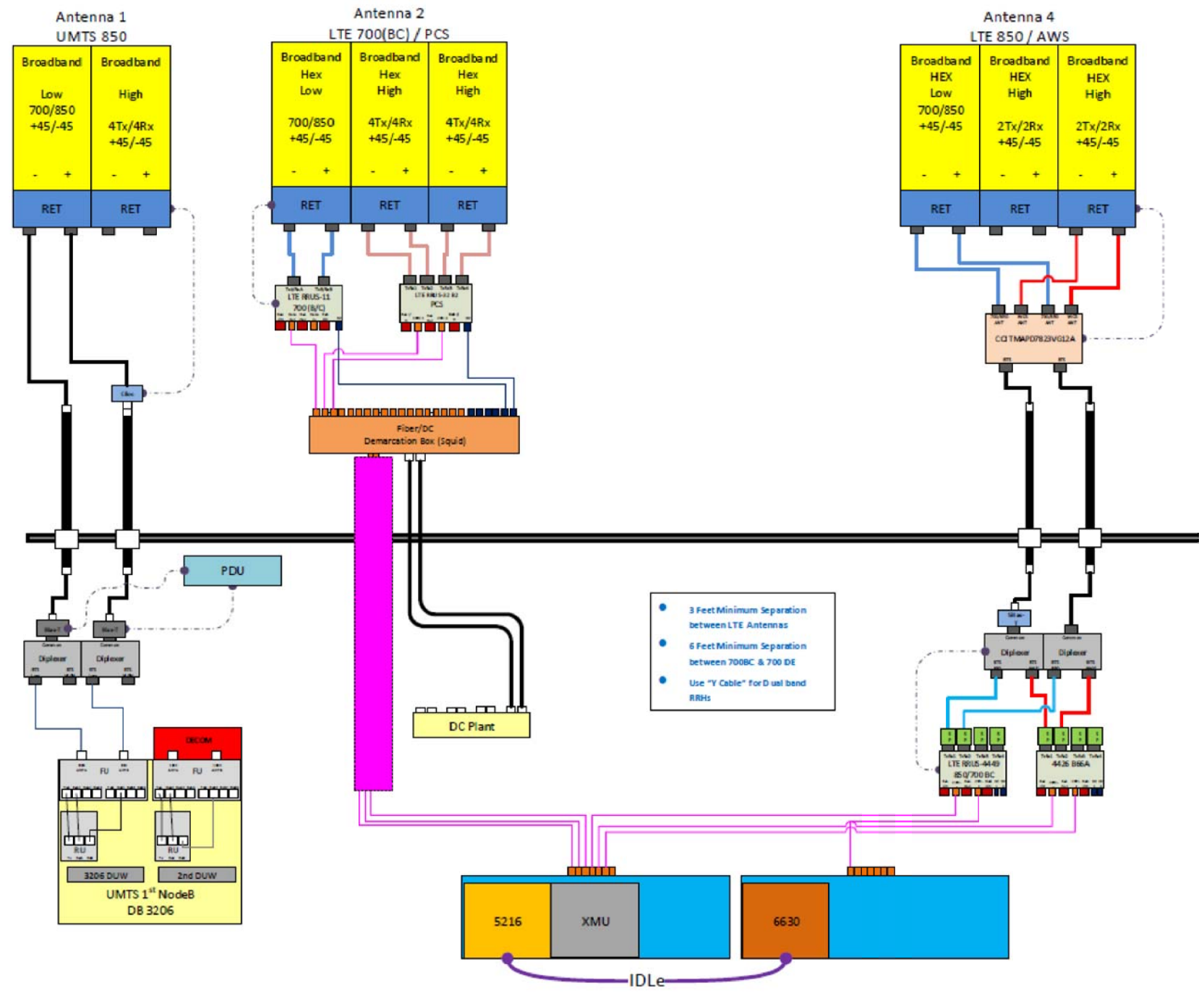


Diagram - Sector C Diagram File Name - CT5111_Descope_A_B_G_Rev.1.vsd
 Atoil Site Name - CT5111 Location Name - WALLINGFORD-POND HILL Market - CONNECTICUT Market Cluster - NEW ENGLAND
 Comments: *Important Note: For detailed radio to antenna wiring refer to the latest field notice - Antenna Radio Connection Drawings Playbook v6.0 Ericsson*

