

From: Jason Blinkhorn <jblinkhorn@qualtekwireless.com>
Sent: Monday, May 3, 2021 12:27 PM
To: andy.paterna@southwindsor-ct.gov; michael.maniscalco@southwindsor-ct.gov; CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: Michael Cypranowski <mcypranowski@qualtekwireless.com>; Corey Michaud <cmichaud@qualtekwireless.com>; Siyuan Liu <sliu@qualtekwireless.com>; Karin Turner <ktturner@qualtekwireless.com>; ATT Closeouts <attcloseouts@empiretelecomm.com>; New England Compliance <newenglandcompliance@empiretelecomm.com>; John Centore <jcentore@qualtekwireless.com>
Subject: ATT SITE CT1135 CSC EM-AT&T-132-210219

CSC team,

Please see attached. We would like to request RF start date of 5-10.

Alex/Karin,

Please note CSC will require additional COP documents for this project.

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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Town of South Windsor Building Department

Building Permit: BLDP-21-210

APPLICANT

NAME: Richard Zajac
EMAIL ADDRESS: richard.zajac@crowncastle.com
ADDRESS: 4545 East River Road, Suite 320
West Henrietta , NY 14586

LOCATION

ADDRESS: 300 GOVERNORS HWY
South Windsor CT6074
OWNER: ELECTRON TECHNOLOGIES CORPORATIO
300 GOVERNORS HIGHWAY
SOUTH WINDSOR CT 6074

DESCRIPTION OF WORK:

AT&T proposing to add three (3) antennas to existing configuration on existing cell tower

April 26, 2021

BUILDING OFFICIAL

DATE SIGNED

*****ALL WORK TO BE DONE IN ACCORDANCE WITH THE APPLICATION AND PLANS APPROVED BY THE BUILDING DEPARTMENT*****

*****PERMIT ONLY VALID IF SIGNED BY BUILDING OFFICIAL *****



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

March 22, 2021

Richard Zajac
Site Acquisition Specialist
Crown Castle USA
4545 East River Road, Suite 320
West Henrietta, NY 14586

RE: **EM-AT&T-132-210219** – AT&T notice of intent to modify an existing telecommunications facility located at 300 Governors Highway, South Windsor, Connecticut.

Dear Mr. Zajac:

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 Infinigy Engineering, PLLC, dated November 9, 2020 and stamped and signed by John S. Stevens;
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 February 19, 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

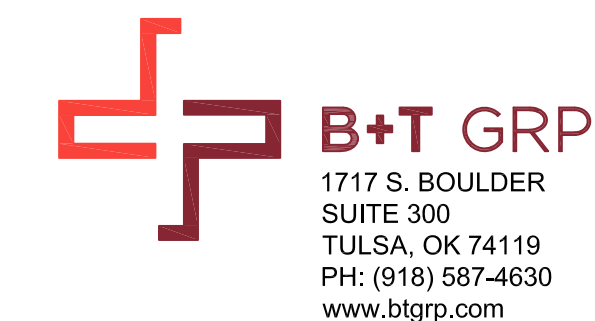
MAB/IN/emr

c: The Honorable Andrew Paterna, Mayor, Town of South Windsor
(andy.paterna@southwindsor-ct.gov)
Michael Maniscalco, Town Manager, Town of South Windsor
(michael.maniscalco@southwindsor-ct.gov)



AT&T SITE NUMBER: CTL01135
AT&T SITE NAME: SOUTH WINDSOR WEST
AT&T FA CODE: 10035346
AT&T PACE NUMBER: MRCTB048456, MRCTB048625, MRCTB048567, MRCTB08639, MRCTB048548
AT&T PROJECT: LTE 3C, 4C, 5G NR, 4TX4RX

BUSINESS UNIT #: 828054
SITE ADDRESS: 300 GOVERNORS HIGHWAY SOUTH WINDSOR, CT 06074
COUNTY: HARTFORD
SITE TYPE: MONOPOLE
TOWER HEIGHT: 169'-0"



AT&T SITE NUMBER: CTL01135
BU #: 828054
SOUTH WINDSOR/RT5
 300 GOVERNORS HIGHWAY SOUTH WINDSOR, CT 06074
 EXISTING
 169'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	11/23/20	JTS	PRELIMINARY REVIEW	MTJ
B	12/7/20	GEH	PRELIMINARY REVIEW	GEH
C	12/8/20	GEH	PRELIMINARY REVIEW	MTJ
D	12/23/20	JJD	PRELIMINARY REVIEW	MTJ
0	1/25/21	JJD	CONSTRUCTION	RMC

SITE INFORMATION

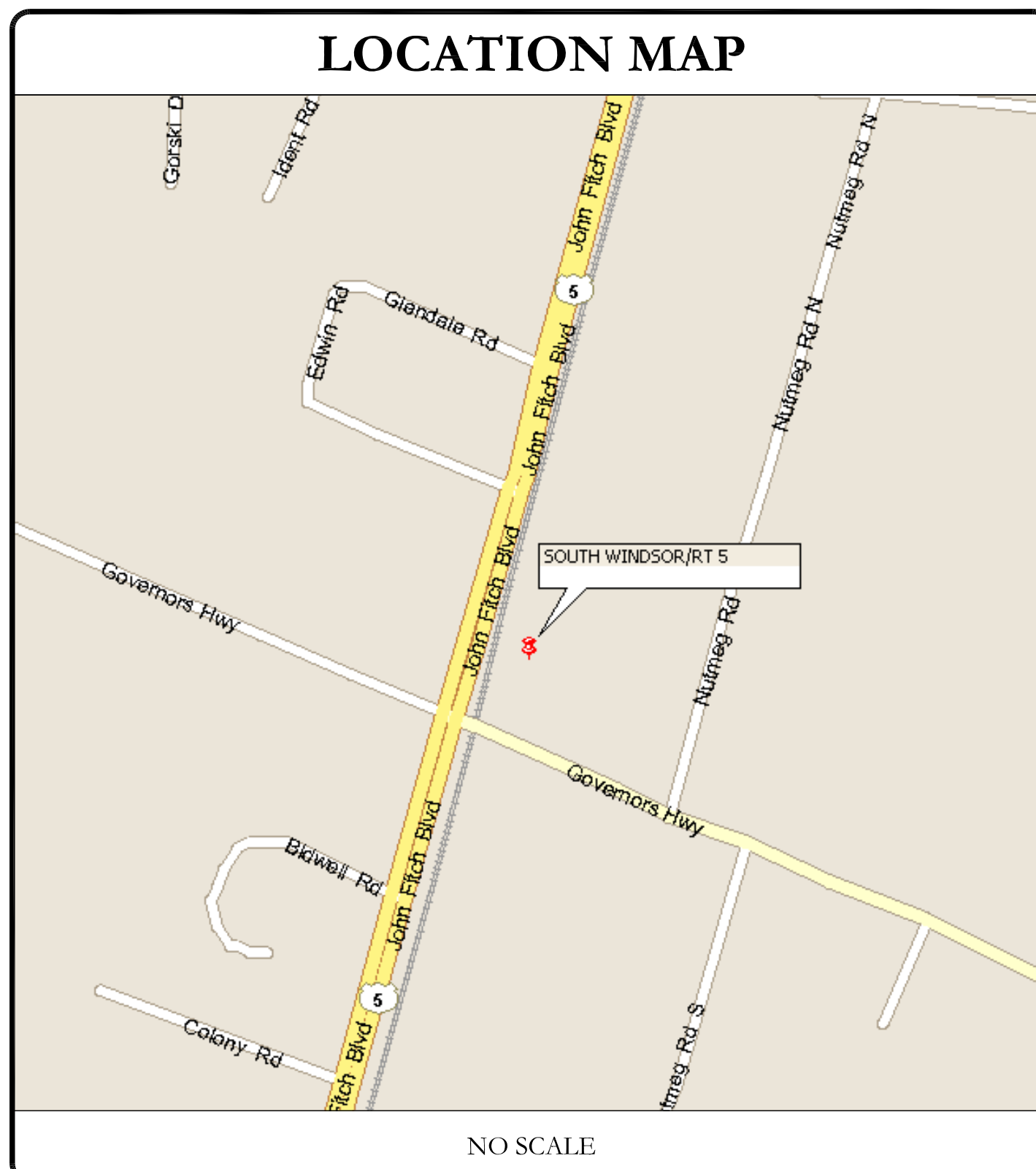
CROWN CASTLE USA INC. SITE NAME:	SOUTH WINDSOR/RT5
SITE ADDRESS:	300 GOVERNORS HIGHWAY SOUTH WINDSOR, CT 06074
COUNTY:	HARTFORD
MAP/PARCEL #:	71-22
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.8334861
LONGITUDE:	-72.6030269
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	70'
CURRENT ZONING:	I
JURISDICTION:	TOWN OF SOUTH SINDSOR
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	ELECTRON TECHNOLOGIES CORPORATION 300 GOVERNORS HIGHWAY SOUTH WINDSOR, CT 06074
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	NOT PROVIDED
TELCO PROVIDER:	NOT PROVIDED

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 MOUNTING DETAILS
C-5	EQUIPMENT SPECS
C-6	HATCH PLATE DETAILS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAMS
ATTACHED	MOUNT MOD DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 24X36. 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.

CALL CONNECTICUT ONE CALL (800) 922-4455 CBVD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!



PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S BOULDER AVE, SUITE 300 TULSA, OK 74119 JENNY PAUL jpaul@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065

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

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) ERICSSON RRUS-11 B12 RRUs
- REMOVE (3) ERICSSON RRUS-12 B2+RRUS A2 B25 RRUs
- REMOVE (6) COMM COMPONENTS INC DTMABP7819VG12A TMA's
- RELOCATE (3) KMW COMM-AMM-X-CW-18-65-00T-RET ANTENNAS
- INSTALL (3) NEW CCI OPA65R-BU6DA ANTENNAS
- INSTALL (3) NEW CCI DMP65R-BU6DA ANTENNAS
- INSTALL (3) NEW ERICSSON RRUS 8843 B2/B66A RRUs
- INSTALL (3) NEW ERICSSON 4449 B5/B12 RRUs
- INSTALL (3) NEW ERICSSON 4415 B30 RRUs
- INSTALL (1) NEW RAYCAP DC6-48-60-18-8F JUNCTION BOX
- INSTALL (1) FIBER CABLE
- INSTALL (2) COAX CABLES
- MODIFY MOUNT PER MOUNT ANALYSIS BY INFINIGY ENGINEERING, PLLC DATED 11/9/20

GROUND SCOPE OF WORK:

- REMOVE (1) POWER PLANT
- REMOVE (1) BATTERY STRING
- REMOVE (1) LTE CONVERTER SHELF
- INSTALL (1) VERTIV 721-48V POWER PLANT
- INSTALL (12) BATTERIES
- INSTALL (6) RECTIFIERS
- INSTALL (4) -48V CONVERTER MODULES
- INSTALL (15) VERTIV UP-CONVERTERS
- INSTALL (1) 6630
- INSTALL (1) IDLE CABLE
- INSTALL (1) INDOOR DC12 RAYCAP
- INSTALL (1) HATCH PLATE

NOTE:
THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. AT&T IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

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	2015 IBC/2018 CT STATE BUILDING CODE
MECHANICAL	2015 IMC/2018 CT STATE BUILDING CODE
ELECTRICAL	2017EC/2018 CT STATE BUILDING CODE

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: PAUL J. FORD & COMPANY
DATED: 11/17/20

MOUNT ANALYSIS: INFINIGY ENGINEERING
DATED: 11/9/20

AC ELECTRICAL POWER DESIGN: BY OTHERS
DATED:

RFDS REVISION: 1
DATED: 08/14/20

ORDER ID: 531442
REVISION: 2

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-1	REVISION: 0
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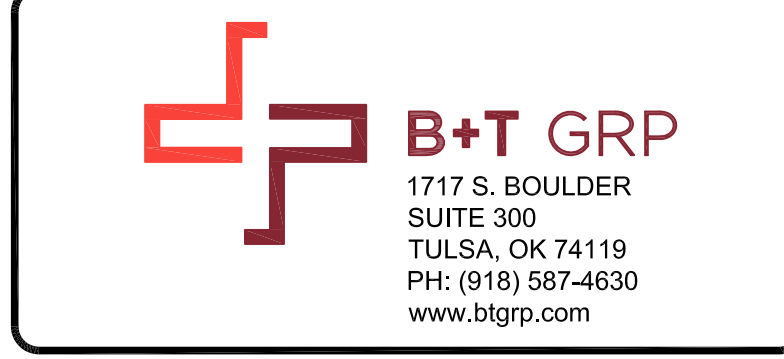
146595.001.01_South Windsor RT 5_ETD_AT&T.dwg - SheetT-1 - User: jldunbar - Jan 25, 2021 - 3:38pm



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277



1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.blgrp.com

AT&T SITE NUMBER:
CTL01135

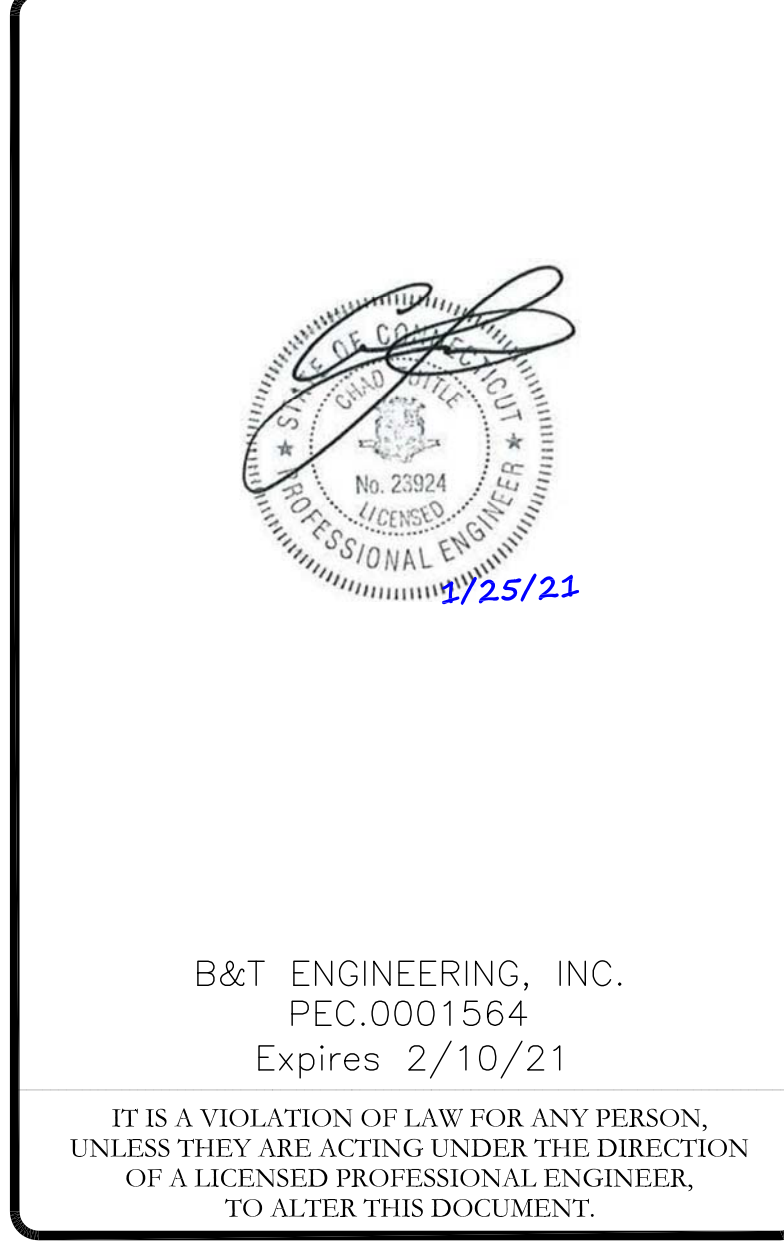
BU #: **828054**
SOUTH WINDSOR/RT5

300 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074

EXISTING
169'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	11/23/20	JTS	PRELIMINARY REVIEW	MTJ
B	12/7/20	GEH	PRELIMINARY REVIEW	GEH
C	12/8/20	GEH	PRELIMINARY REVIEW	MTJ
D	12/23/20	JJD	PRELIMINARY REVIEW	MTJ
0	1/25/21	JJD	CONSTRUCTION	RMC

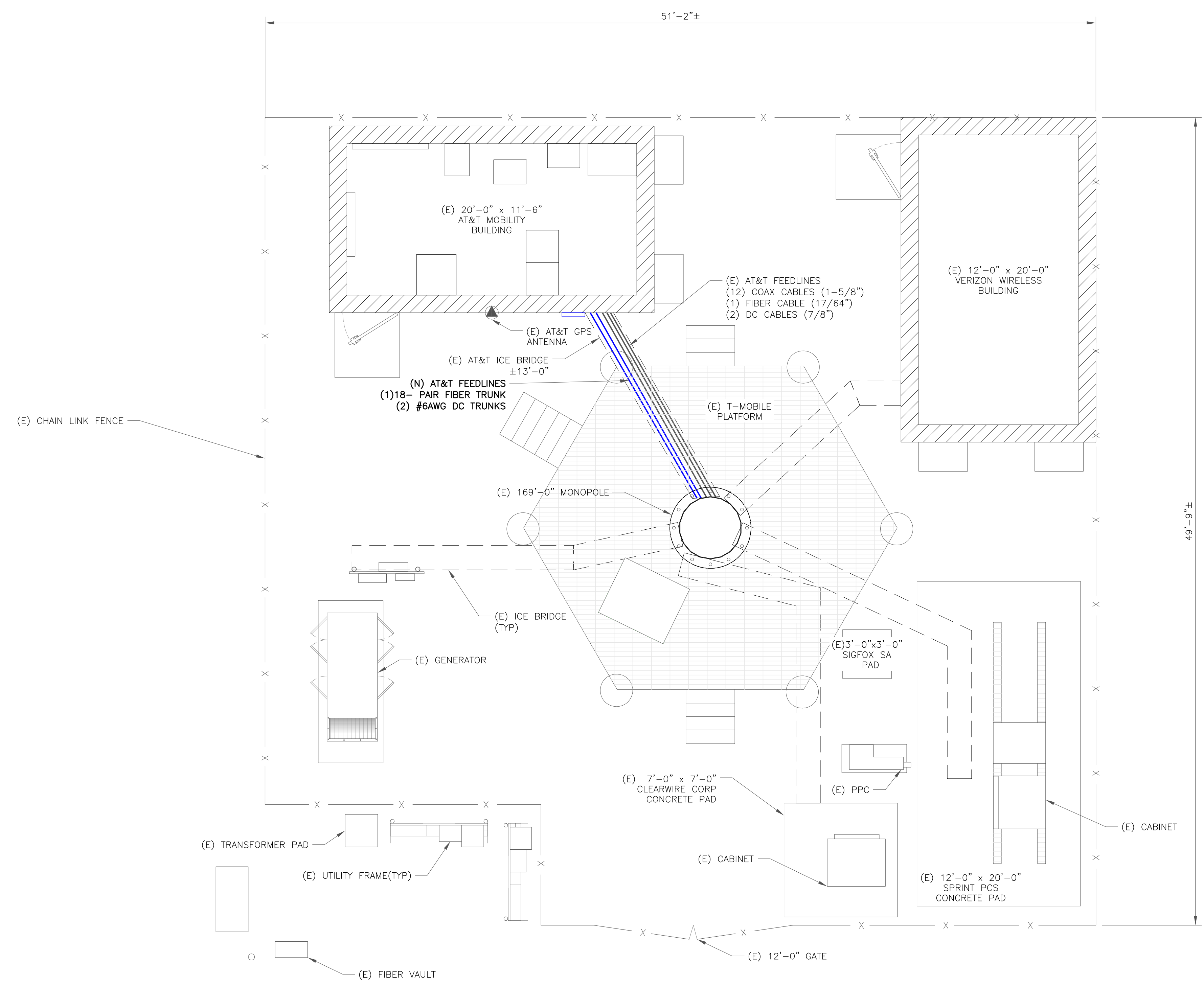


2/25/21

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

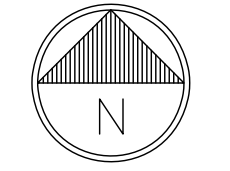
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SHEET NUMBER: **C-1.1** REVISION: **0**



1 SITE PLAN

SCALE: 1/4"=1'-0" (FULL SIZE)
1/8"=1'-0" (11x17)



146595.001.01_South Windsor RT 5_ETA_AT&T.dwg - Sheet: C-1.1 - User: jldunbar - Jan 25, 2021 - 3:40pm

AT&T SITE NUMBER:
CTL01135

BU #: **828054**
SOUTH WINDSOR/RT5

300 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074

EXISTING
169'-0" MONOPOLE

ISSUED FOR:

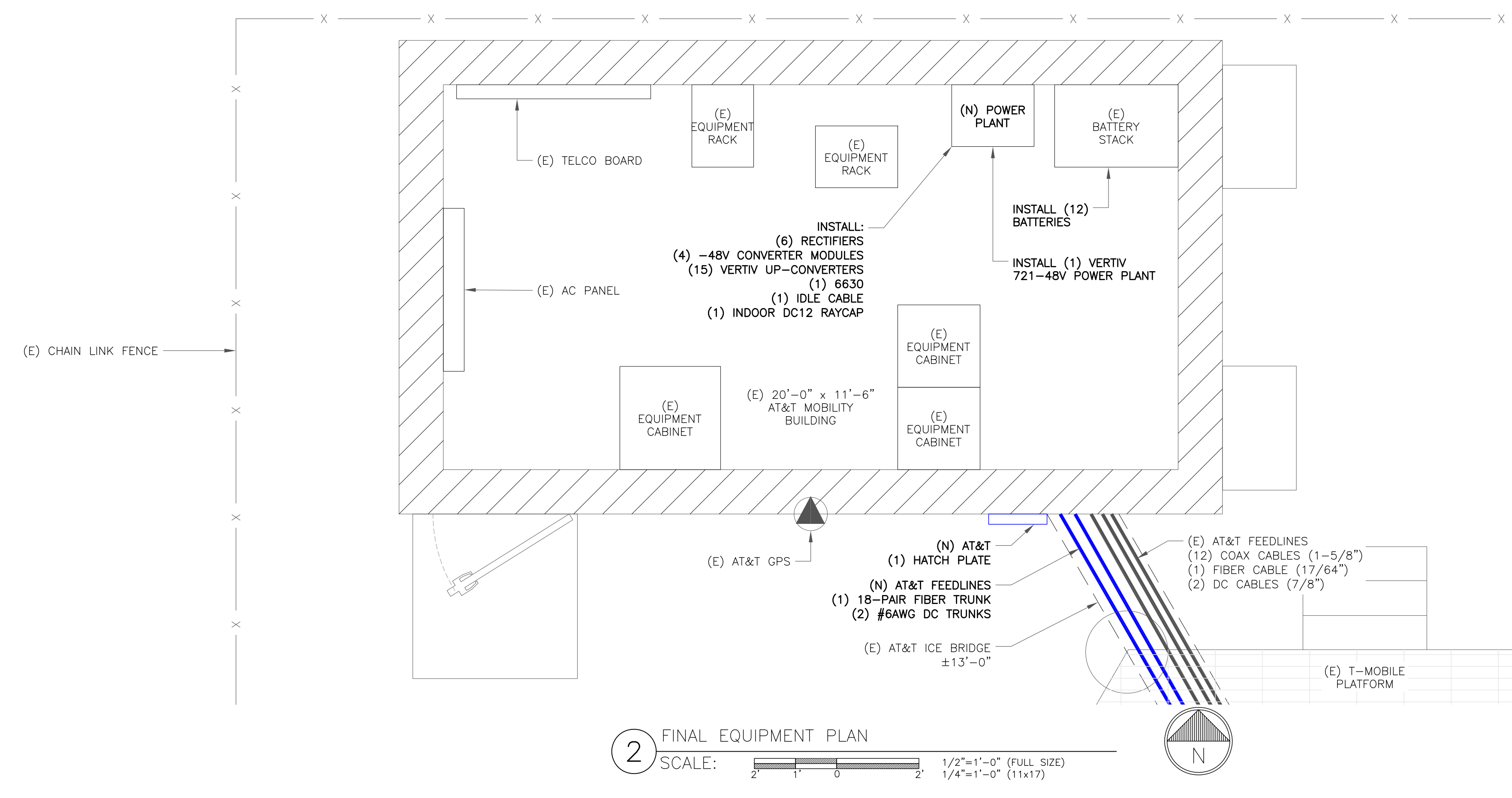
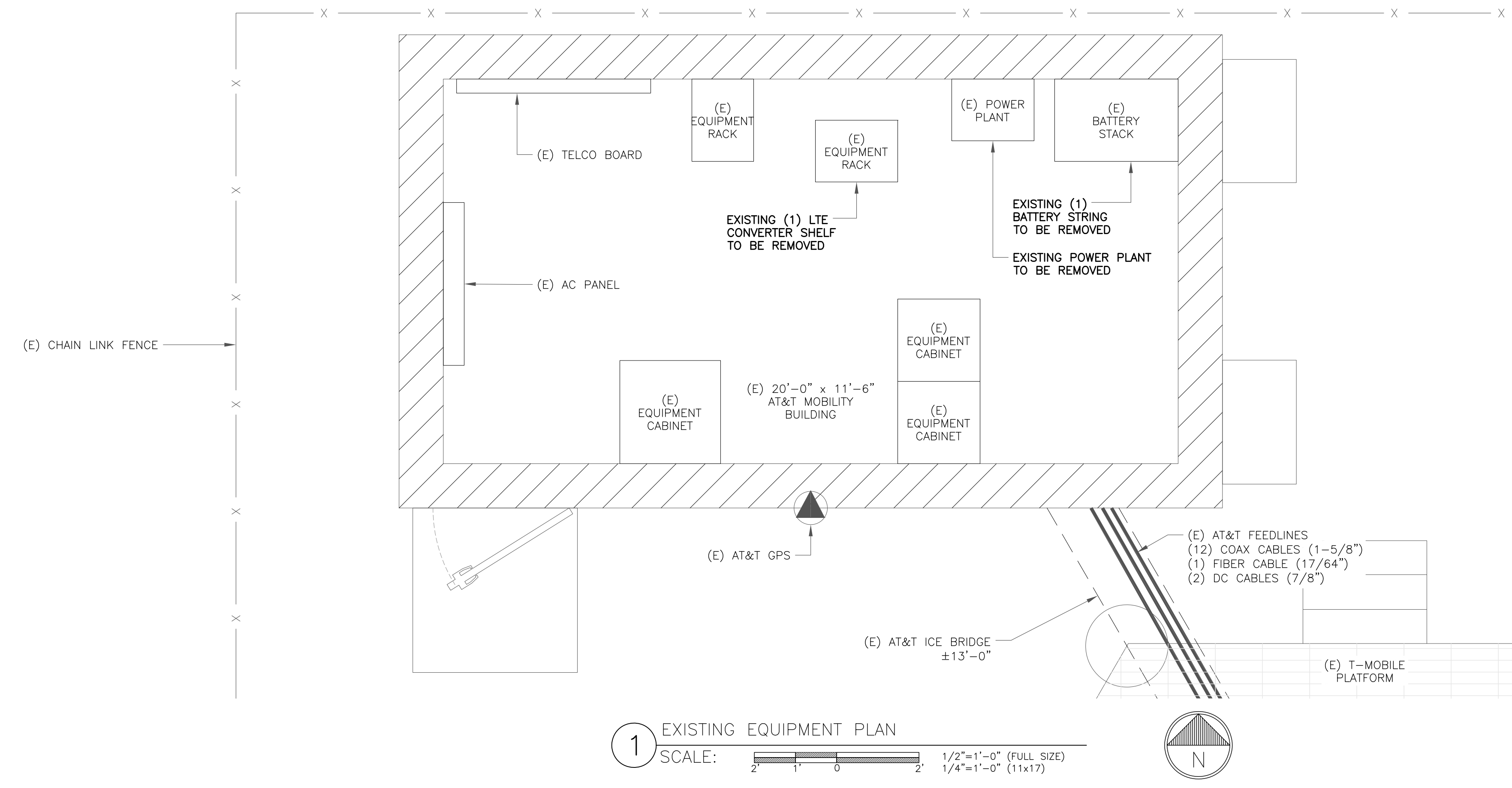
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B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

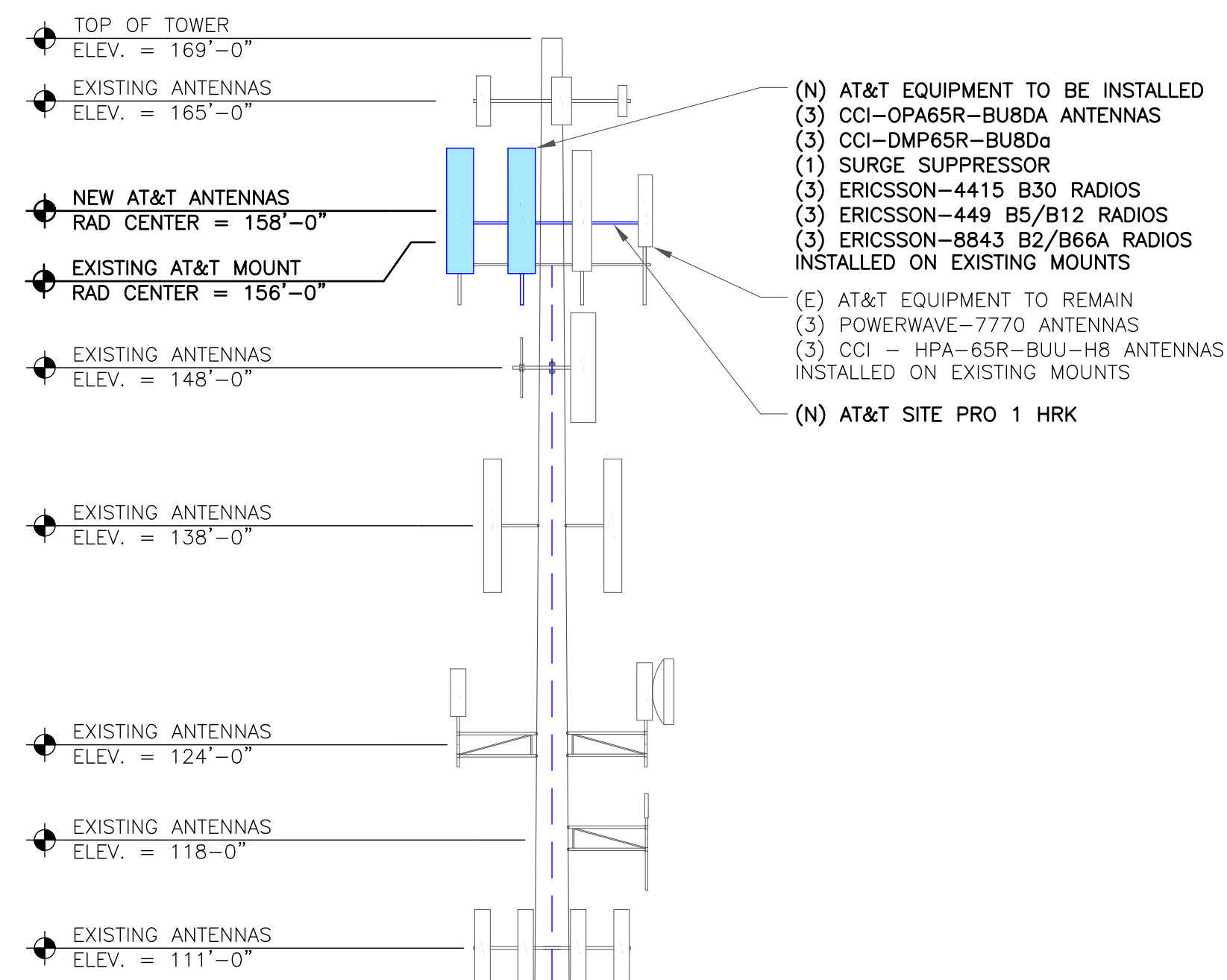
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SHEET NUMBER: **C-1.2** REVISION: **0**

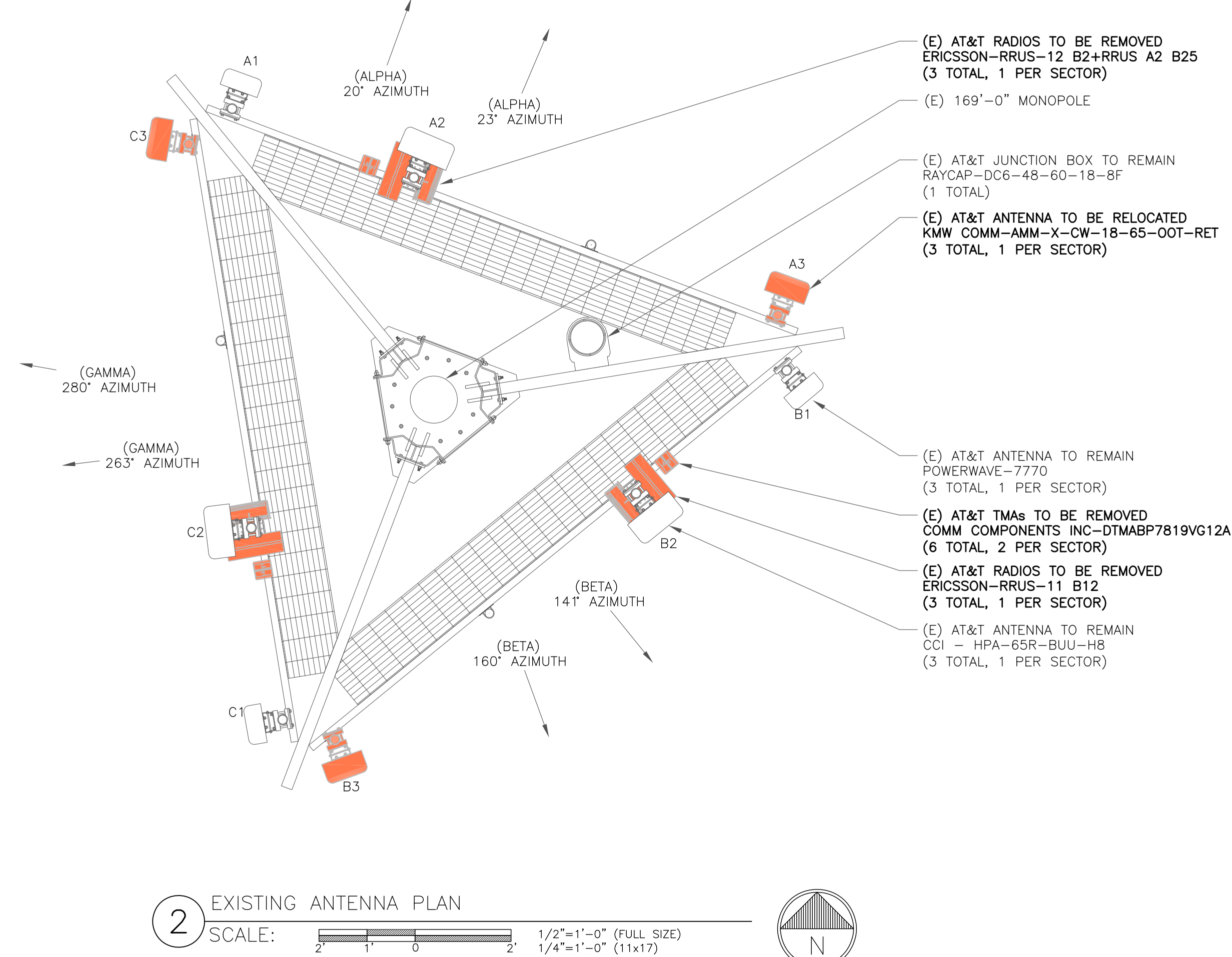


- GROUND SCOPE OF WORK:**
- REMOVE EXISTING POWERPLANT
 - REMOVE EXISTING BATTERY STRING
 - REMOVE EXISTING LTE CONVERTER SHELF
 - INSTALL (1) VERTIV 721 -48V POWER PLANTX
 - INSTALL (12) BATTERIES
 - INSTALL (6) RECTIFIERS
 - INSTALL (4) -48V CONVERTER MODULES
 - INSTALL (15) VERTIV UP-CONVERTES
 - INSTALL (1) 6630
 - INSTALL (1) IDLE CABLE
 - INSTALL (1) INDOOR DC12 RAYCAP

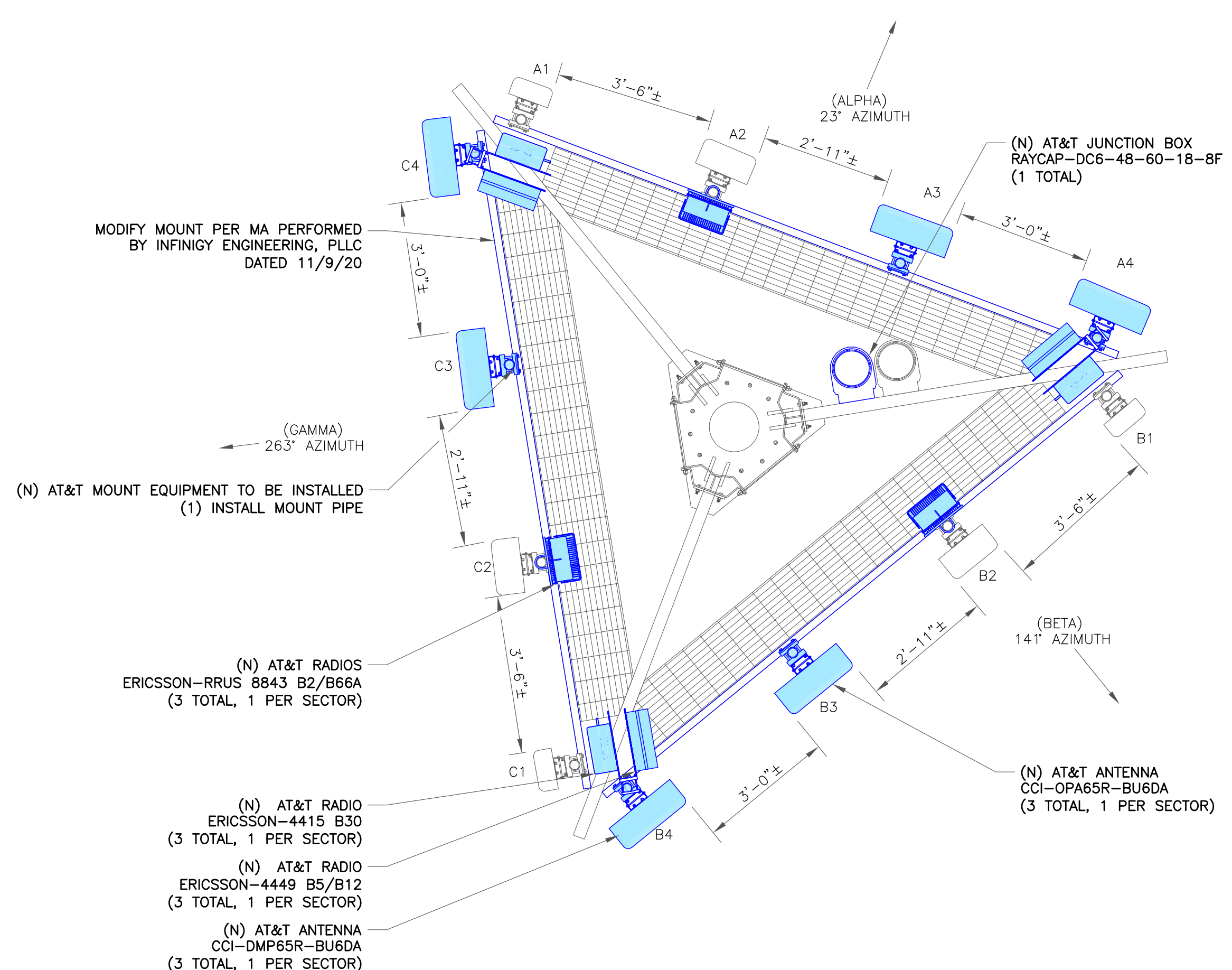
NOTE:
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1 FINAL ELEVATION
SCALE: NOT TO SCALE



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



3 FINAL ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=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.

- 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.

575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

1717 S. BOULDER
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AT&T SITE NUMBER:
CTL01135

BU #: 828054
SOUTH WINDSOR/RT5

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169'-0" MONOPOLE

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B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/21

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SHEET NUMBER: **C-2** REVISION: **0**

146595.001.01_South Windsor RT 5_ETI_AT&T.dwg - Sheet: C-2 - User: jfaunbar - Jan 25, 2021 - 3:40pm



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 ON TOWER	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE	
ALPHA SECTOR																			
A1	UMTS	EXISTING	23°	(E) POWERWAVE 7770	158'-0"	0°	10'/4"	1 5/8"	180'	2	-			-	-	Y	N	N	
A2	LTE	EXISTING	23°	(E) CCI HPA-65R-BUU-H8	158'-0"	0°	2'	1 5/8"	180'	2	-	DC6-48-60-18-8F DC6-48-60-18-8F	(1) 17/64" FIBER (2) 7/8" DC LINES (1) 17/64" FIBER (2) 7/8" DC LINES	(1) 8843 B2/B66A	TOWER	N	N	N	
A3	LTE	NEW	23°	(N) CCI OPA65R-BU8DA	158'-0"	0°	2'	-	-	-	-			-	-	-	N	N	N
A4	LTE	NEW	23°	(N) CCI DMP65R-BU8DA	158'-0"	0°	3'	-	-	-	-			-	(1) 4449 B5/B12 (1) 4415 B30	TOWER	N	N	N
BETA SECTOR																			
B1	UMTS	EXISTING	141°	(E) POWERWAVE 7770	158'-0"	0°	10'/4"	1 5/8"	180'	2	-			-	-	Y	N	N	
B2	LTE	EXISTING	141°	(E) CCI HPA-65R-BUU-H8	158'-0"	0°	2'	1 5/8"	180'	2	-			(1) 8843 B2/B66A	TOWER	N	N	N	
B3	LTE	NEW	141°	(N) CCI OPA65R-BU8DA	158'-0"	0°	2'	-	-	-	-			-	-	N	N	N	
B4	LTE	NEW	141°	(N) CCI DMP65R-BU8DA	158'-0"	0°	4'/3"	-	-	-	-			(1) 4449 B5/B12 (1) 4415 B30	TOWER	N	N	N	
GAMMA SECTOR																			
C1	UMTS	EXISTING	263°	(E) POWERWAVE 7770	158'-0"	0°	6'	1 5/8"	180'	2	-			-	-	Y	N	N	
C2	LTE	EXISTING	263°	(E) CCI HPA-65R-BUU-H8	158'-0"	0°	4'	1 5/8"	180'	2	-			(1) 8843 B2/B66A	TOWER	N	N	N	
C3	LTE	NEW	263°	(N) CCI OPA65R-BU8DA	158'-0"	0°	4'	-	-	-	-			-	-	N	N	N	
C4	LTE	NEW	263°	(N) CCI DMP65R-BU8DA	158'-0"	0°	11'/10'/3"	-	-	-	-			(1) 4449 B5/B12 (1) 4415 B30	TOWER	N	N	N	

NOTE: BOLD DENOTES NEW EQUIPMENT

AT&T SITE NUMBER:
CTL01135

BU #: **828054**
SOUTH WINDSOR/RT5

300 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074

EXISTING
169'-0" MONOPOLE

ISSUED FOR:

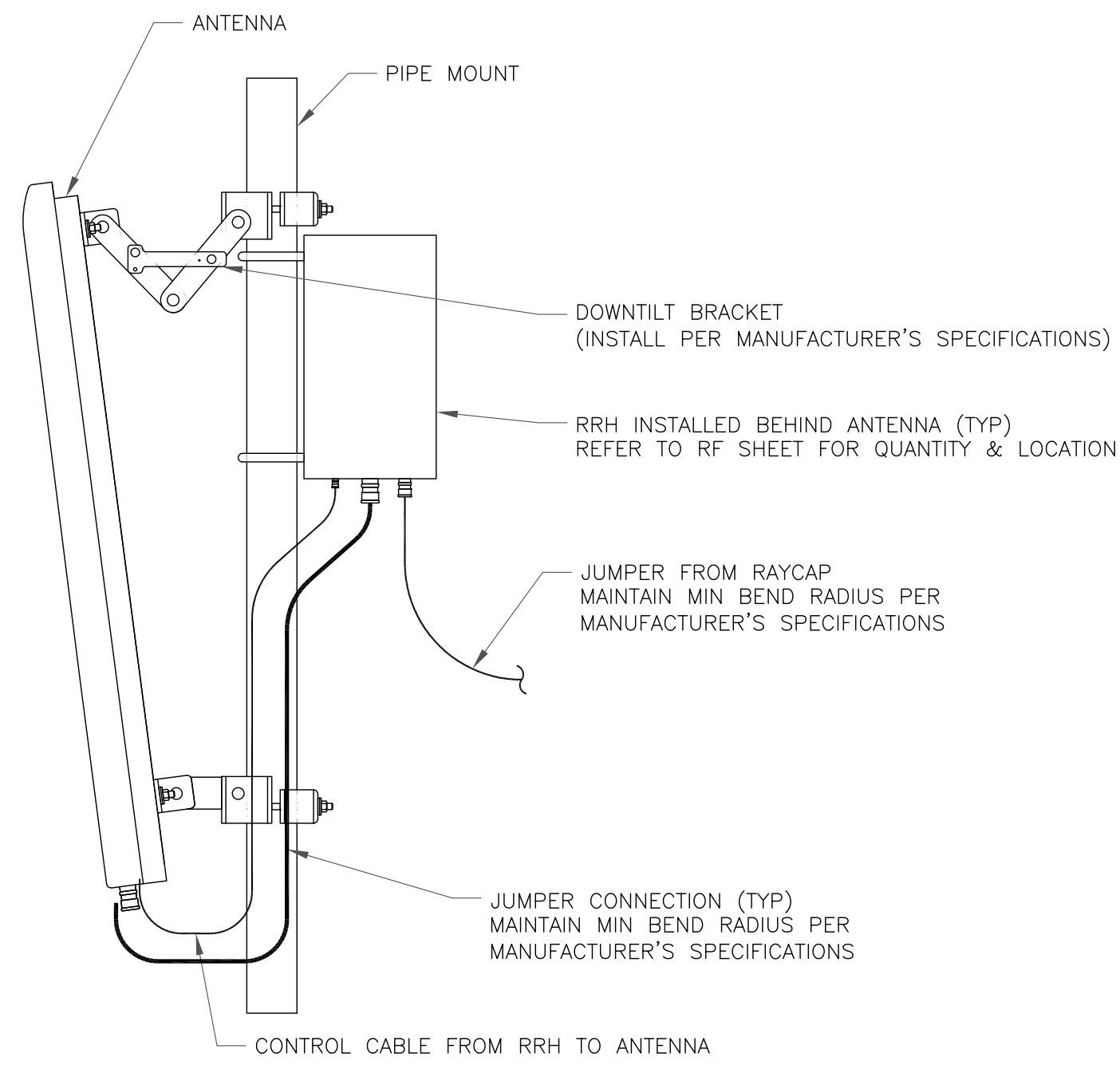
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B	12/7/20	GEH	PRELIMINARY REVIEW	GEH
C	12/8/20	GEH	PRELIMINARY REVIEW	MTJ
D	12/23/20	JJD	PRELIMINARY REVIEW	MTJ
0	1/25/21	JJD	CONSTRUCTION	RMC



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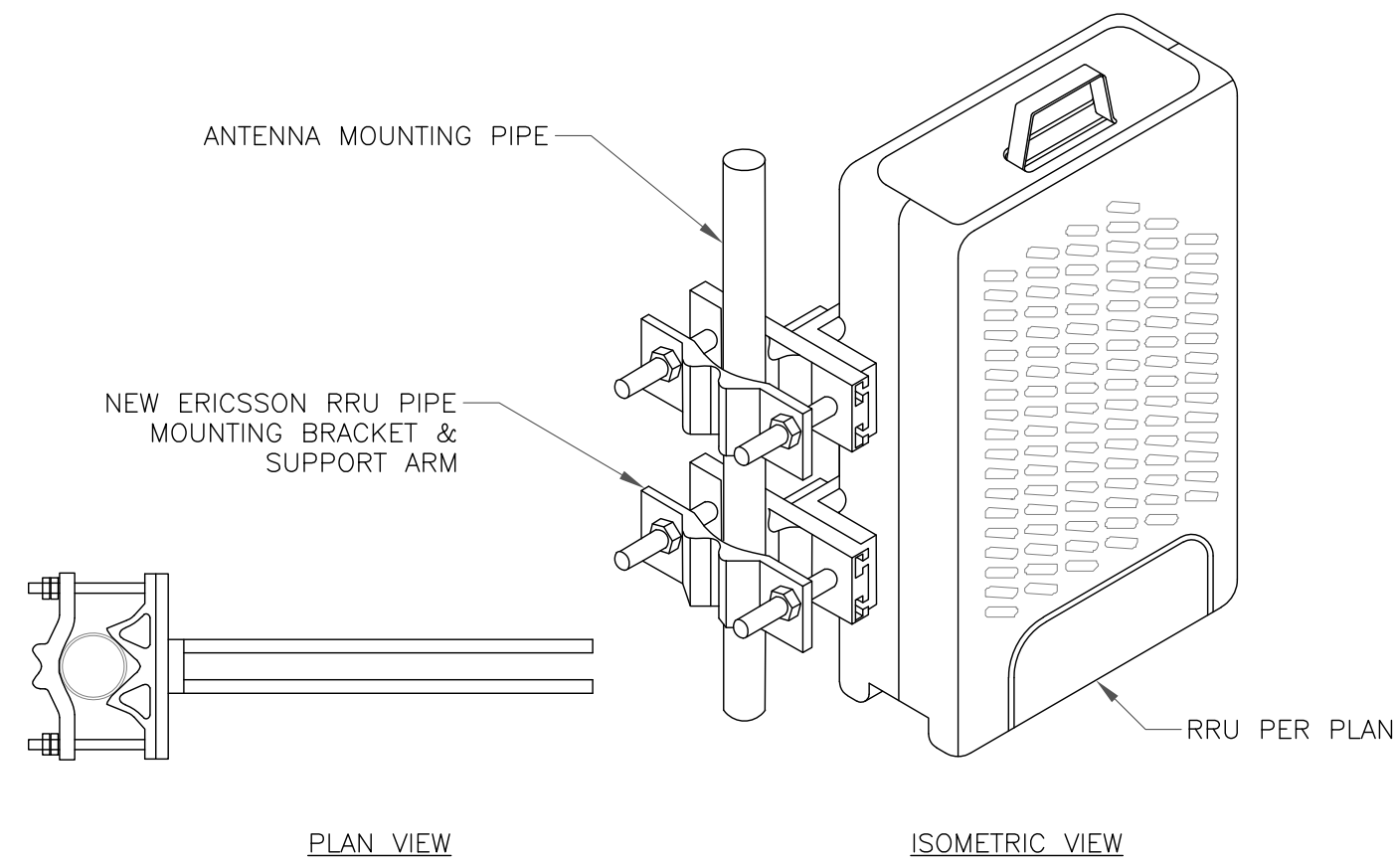
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SHEET NUMBER: **C-3** REVISION: **0**

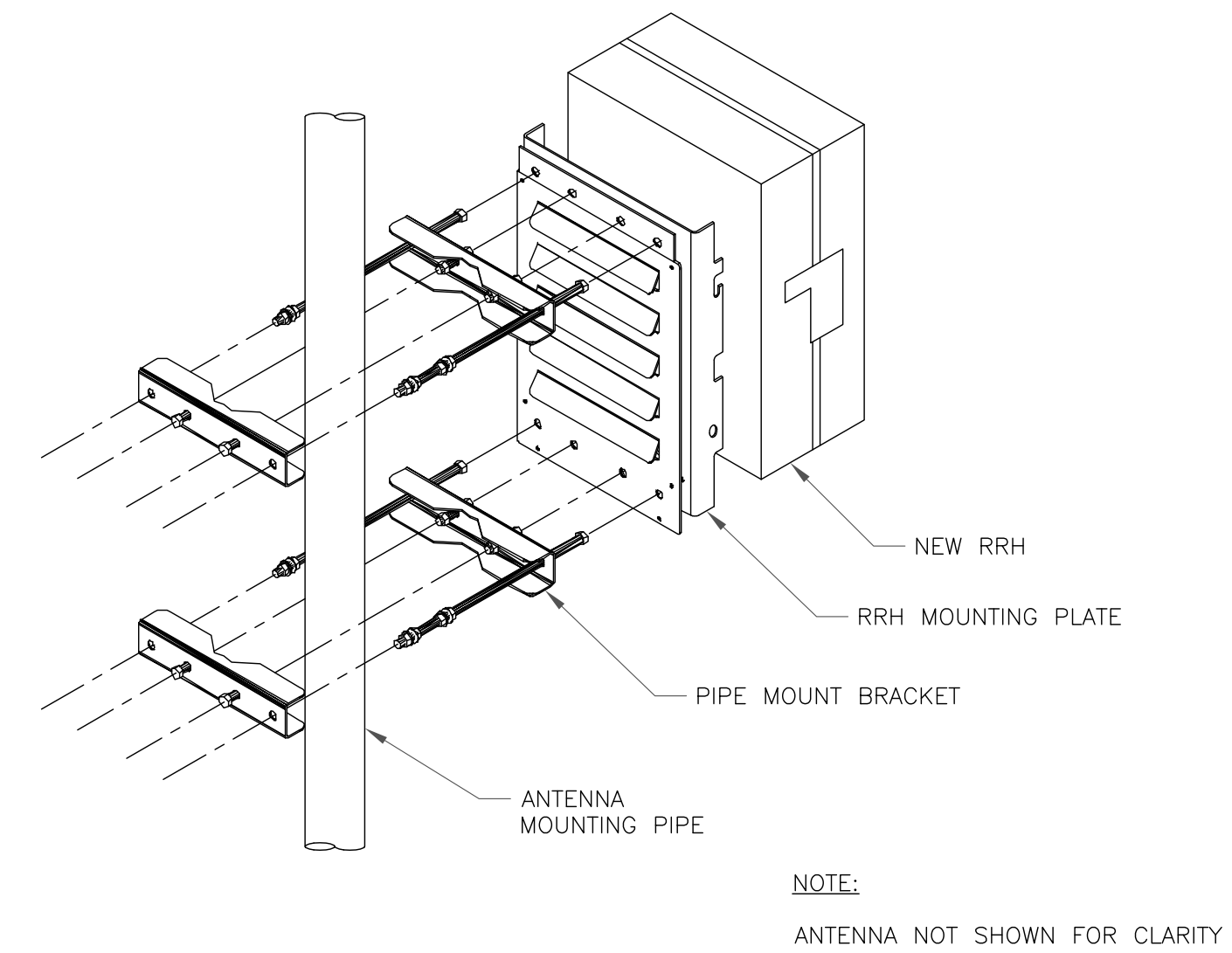


1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE

ERICSSON RRU MOUNTING KIT:
 SXK 107 2839/1: SINGLE RRU SUPPORT KIT (PART # 5335) (OR ENGINEER APPROVED EQUIVALENT)
 SXK 107 2839/2: EXPANSION KIT (PART # 5336) (OR ENGINEER APPROVED EQUIVALENT)
MOUNTING NOTES:
 REFER TO PRODUCT SPECS FOR BOLT SIZE & PIPE DIAMETER TOLERANCES. THE PART NO. SXK107-2839/2 IS REQUIRED FOR (2) RRUS.



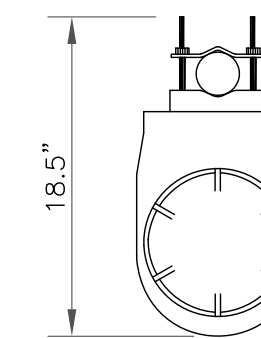
2 ERICSSON - SXK 107 2839
SCALE: NOT TO SCALE



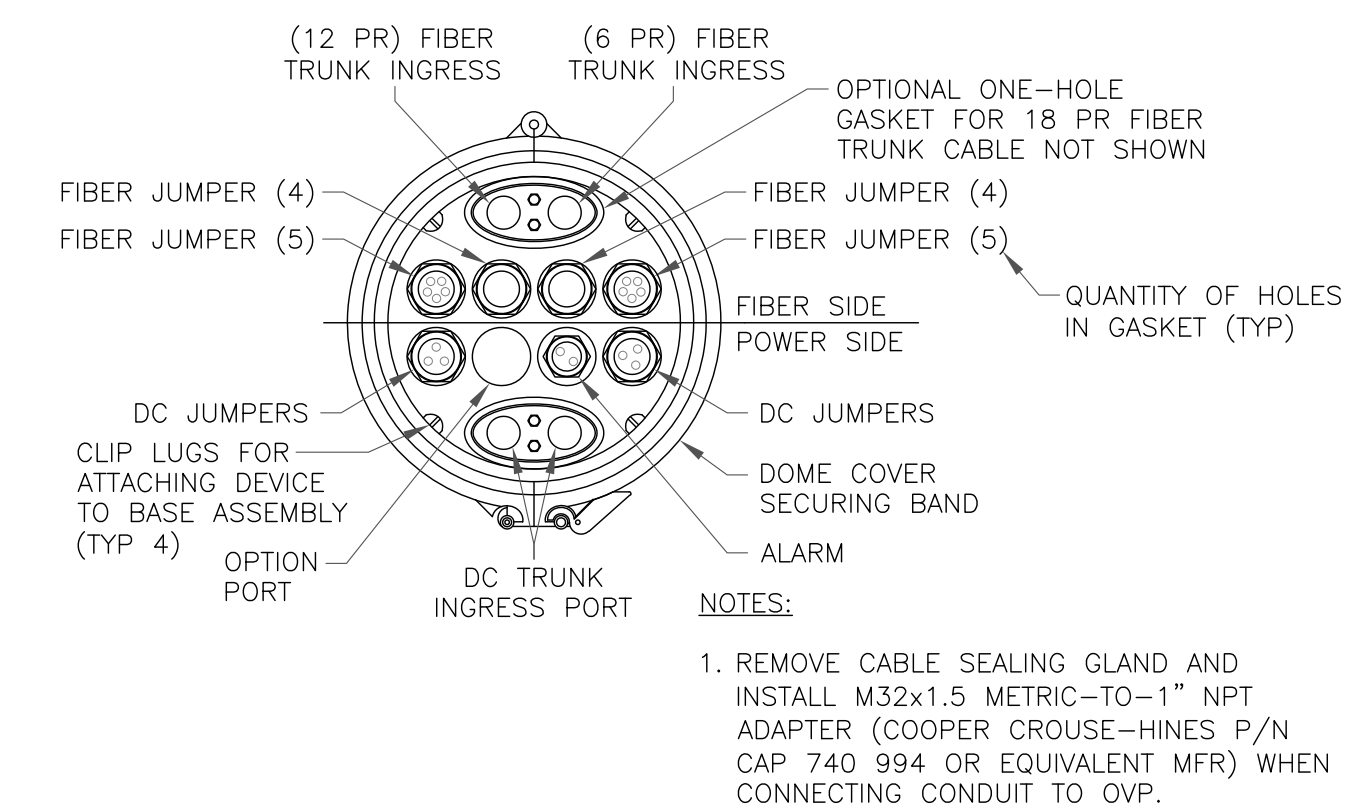
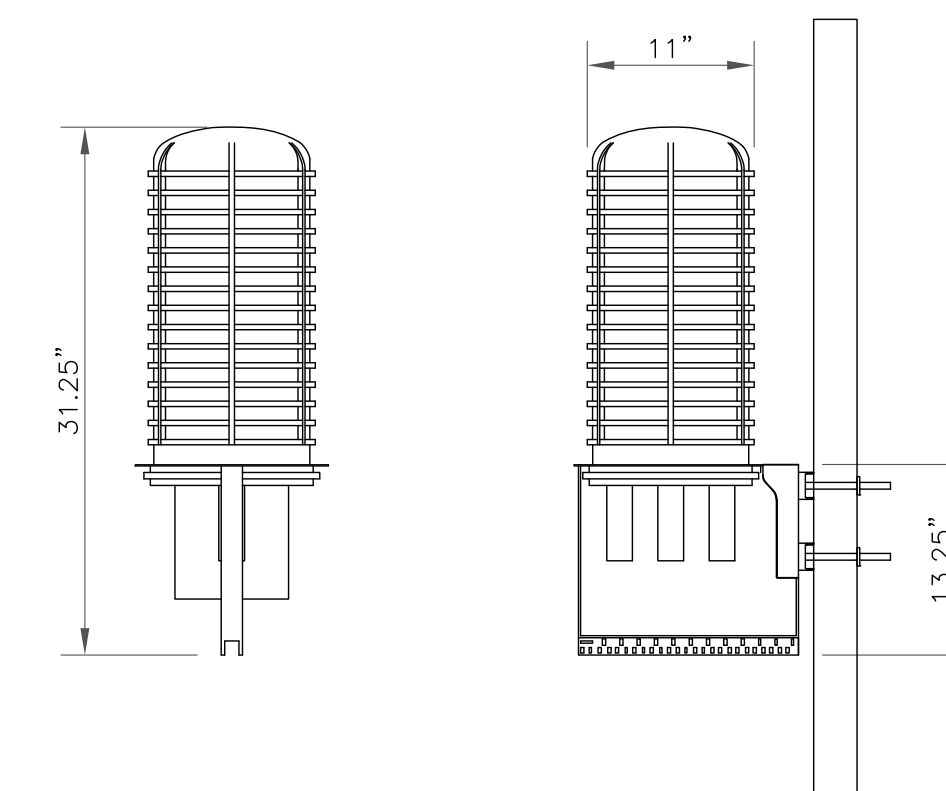
3 SINGLE RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

RAYCAP
 DC6-48-60-18-8F

RAYCAP - DC6-48-60-18-8F
 SIZE: 11x31.25 IN.
 WEIGHT: 32.8 LBS
 NOMINAL OPERATING VOLTAGE: 48 VDC
 VOLTAGE PROTECTION RATING: 400 V
 WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
 WIND LOADING: 195 MPH GUST (213.6 LBS)

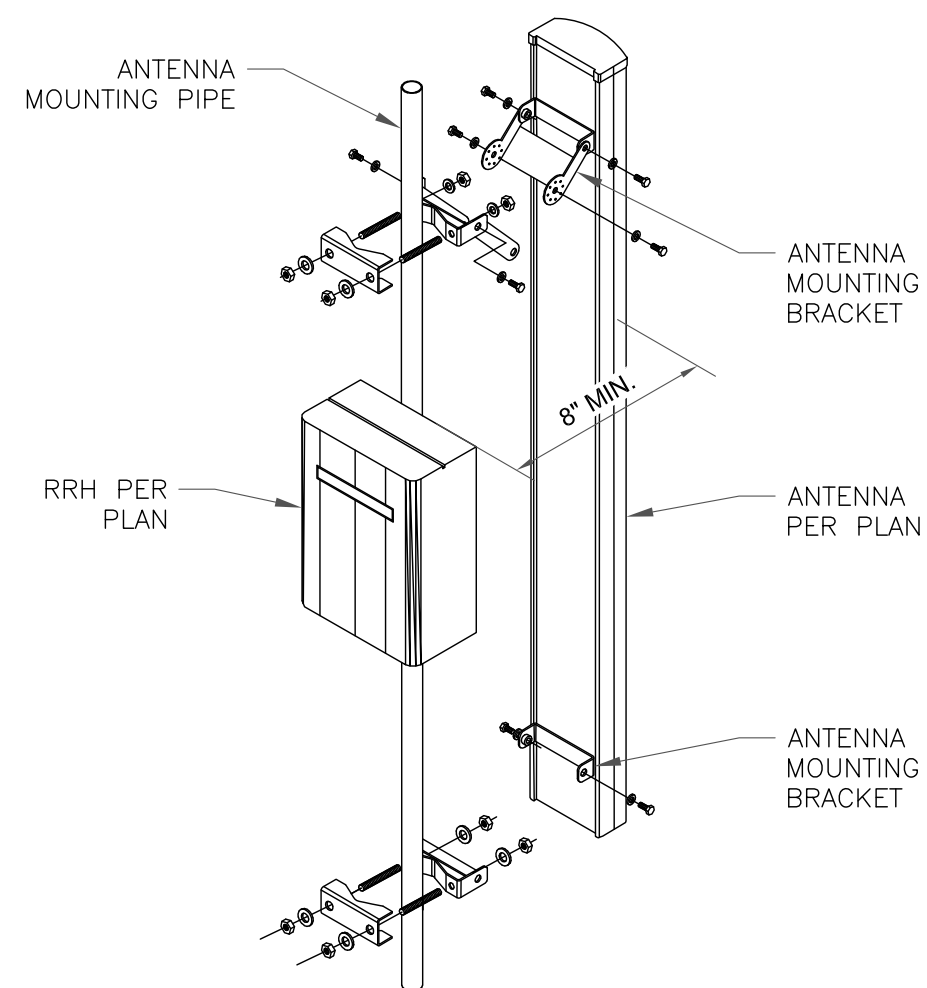


CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION



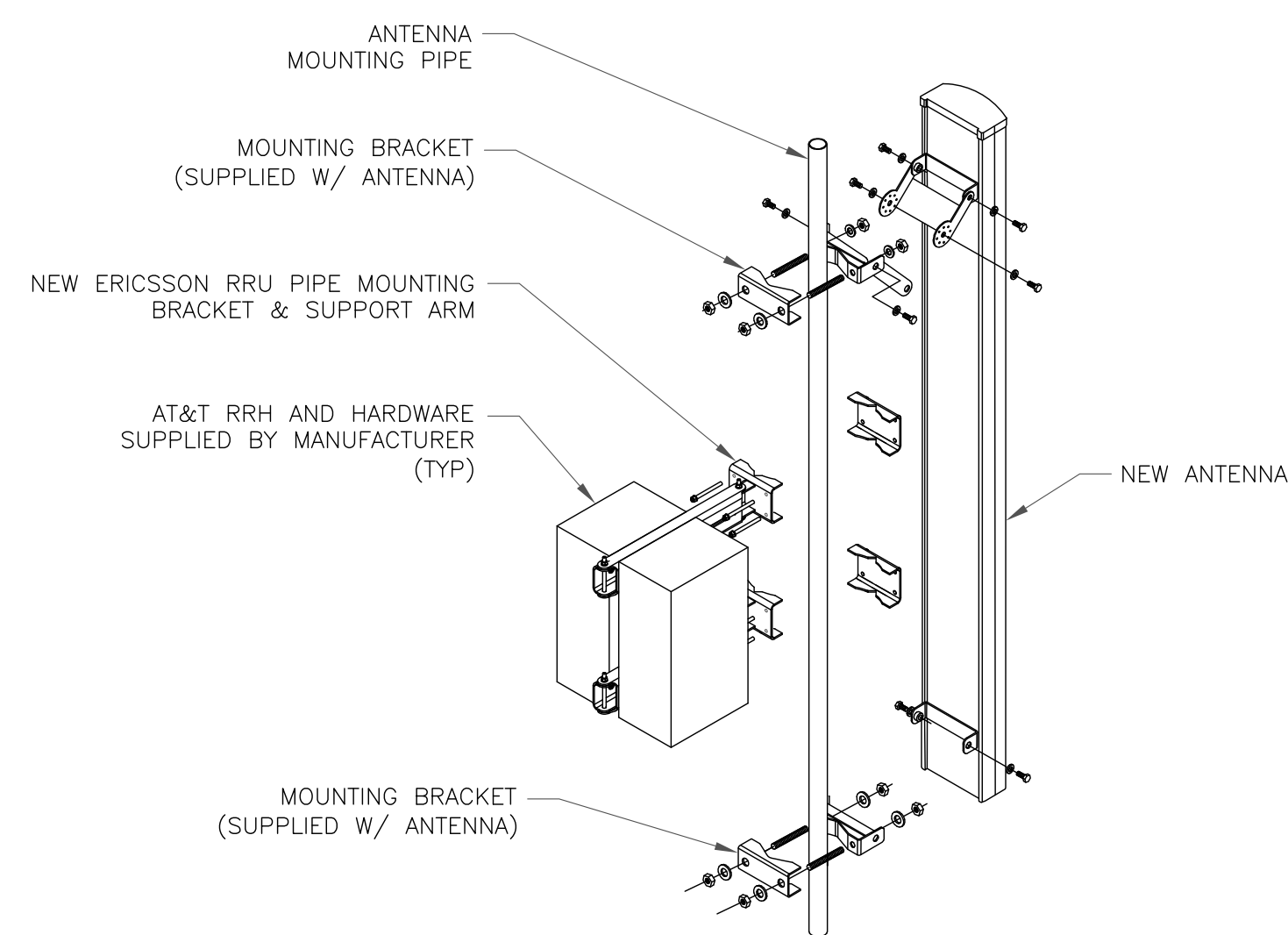
6 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:
 1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
 2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.
 4. 8" MINIMUM SEPARATION BETWEEN BACK OF PANEL ANTENNA AND RRH.



4 ANTENNA WITH RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:
 1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHS RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
 2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
 3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



5 ANTENNA WITH DUAL RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

575 MOROSGO DRIVE
ATLANTA, GA 30324-3300

3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.blgrp.com

AT&T SITE NUMBER:
CTL01135

BU #: **828054**
SOUTH WINDSOR/RT5

300 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074

EXISTING
169'-0" MONOPOLE

ISSUED FOR:

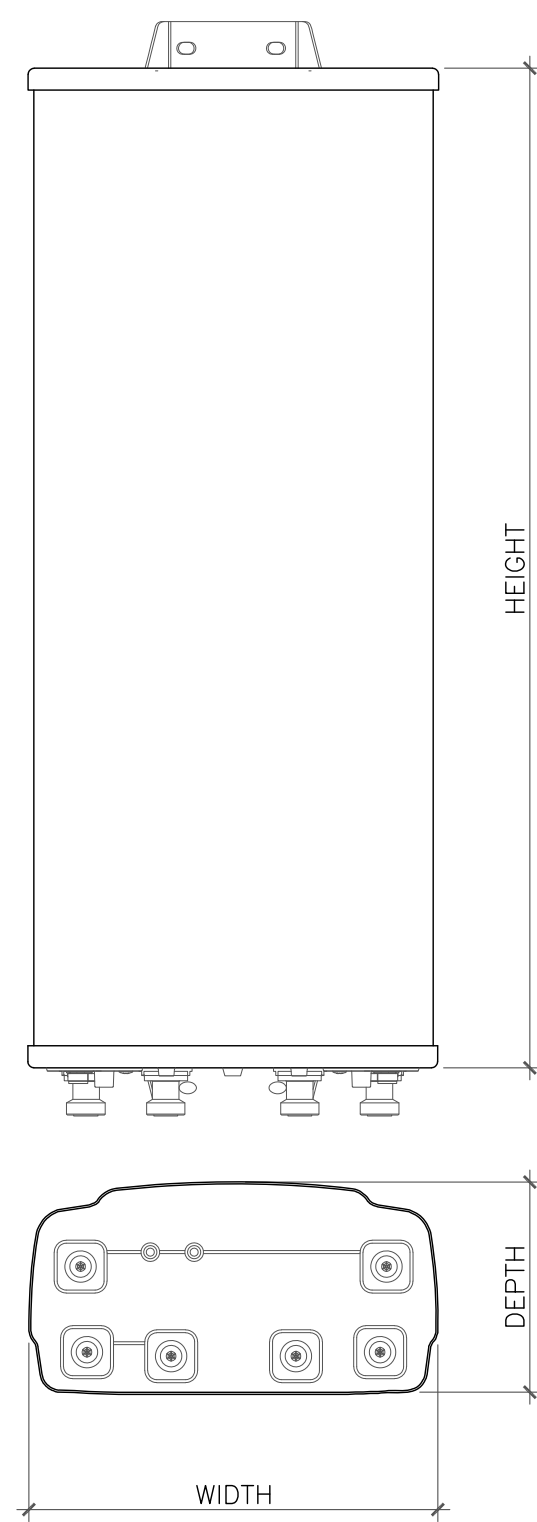
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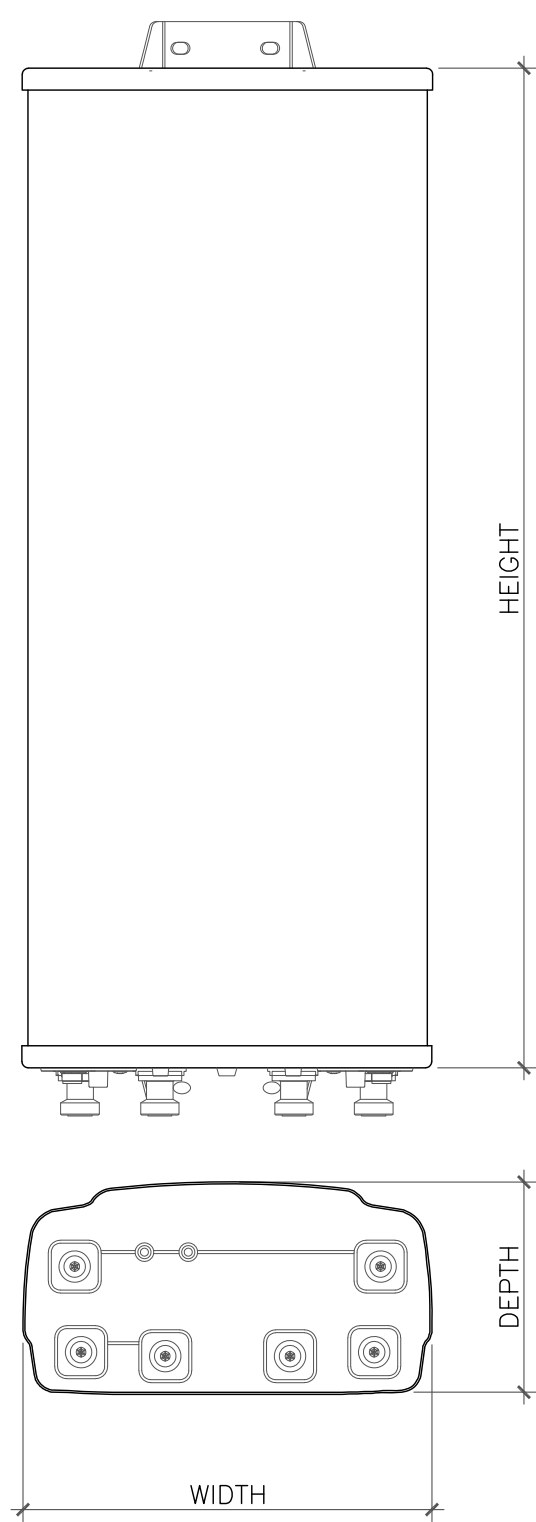
SHEET NUMBER: **C-4** REVISION: **0**

146595.001.01_South Windsor RT 5_ETA_AT&T.dwg - Sheet: C-4 - User: jbaumbar - Jan 25, 2021 3:40pm



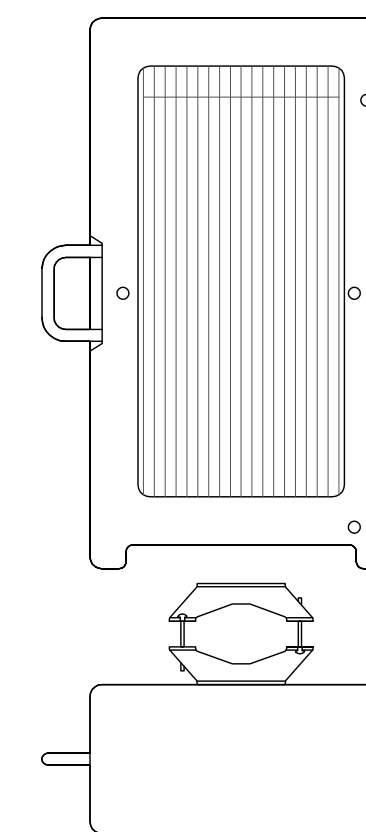
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU8D	96"	20.70"	7.70"	105.60lbs

1 ANTENNA DETAIL
SCALE: NOT TO SCALE



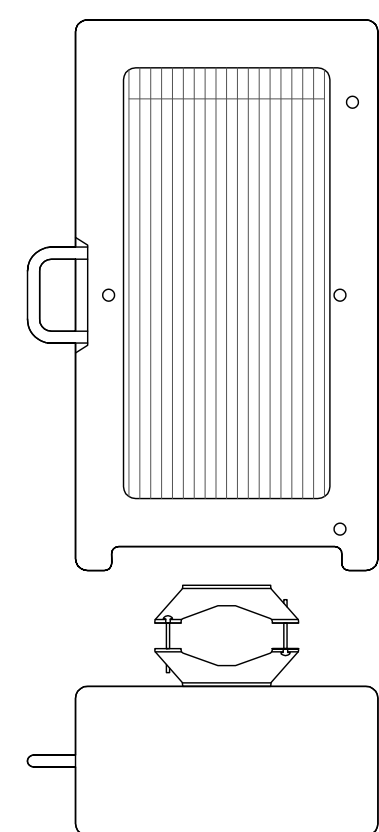
ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
OPA65R-BU8D	96"	21.00"	7.80"	76.50lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE



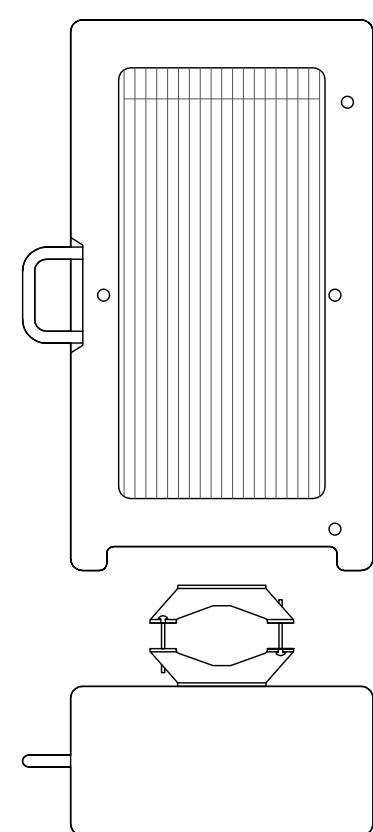
ERICSSON - 4415 B30
WEIGHT (FULLY EQUIPPED): 42.90 LBS
SIZE (HxWxD): 14.96x13.18x5.04 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

3 NOKIA - AHFIB
SCALE: NOT TO SCALE



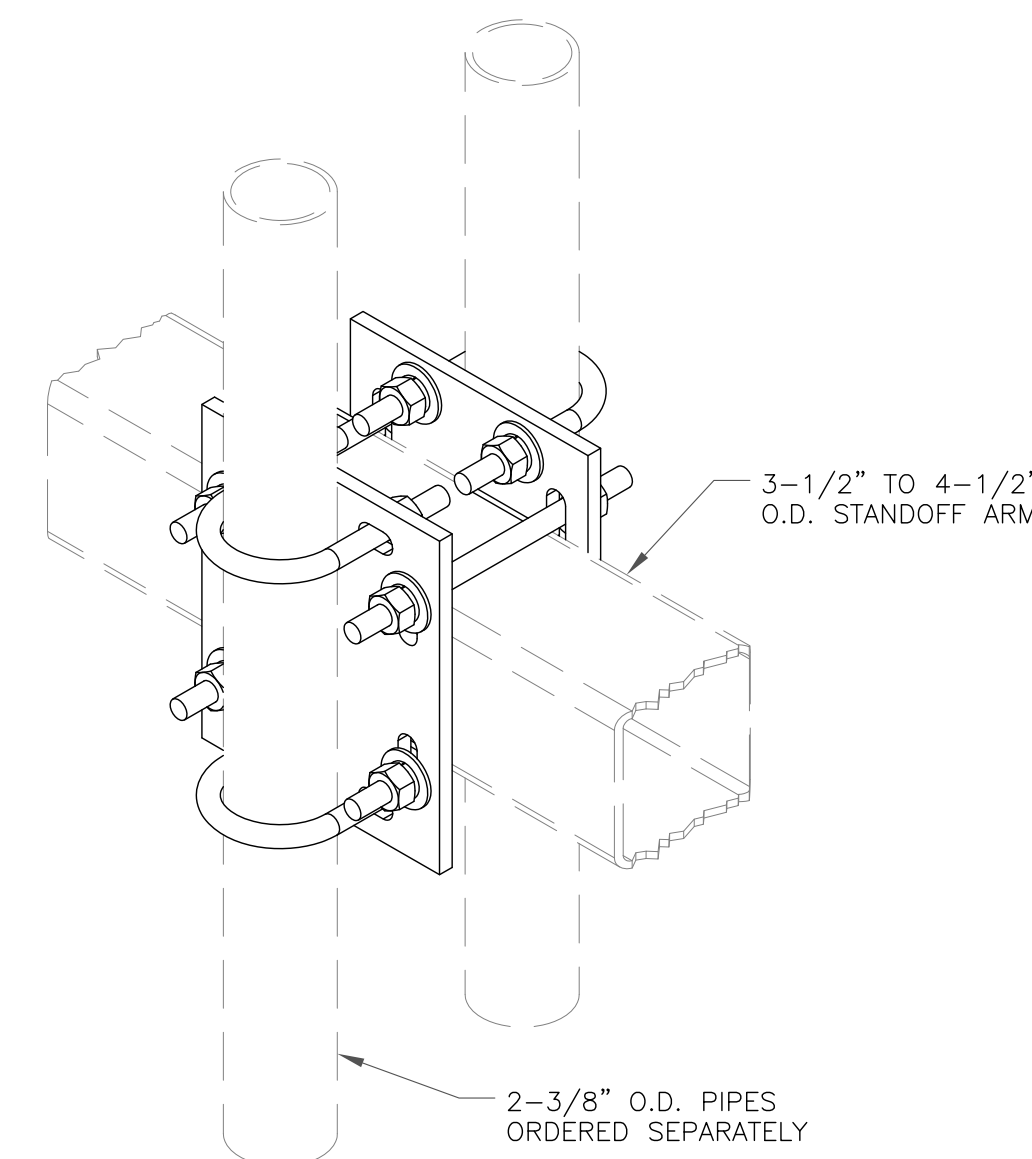
ERICSSON - 8843 B2/B66A
WEIGHT (FULLY EQUIPPED): 72.00 LBS
SIZE (HxWxD): 14.90x13.20x10.90 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

4 NOKIA - AHFIB
SCALE: NOT TO SCALE



ERICSSON - 4449 B5/B12
WEIGHT (FULLY EQUIPPED): 73.00 LBS
SIZE (HxWxD): 14.96x13.19x10.43 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

5 NOKIA - AHFIB
SCALE: NOT TO SCALE



6 VALMONT - BBPM-K1
SCALE: NOT TO SCALE

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AT&T SITE NUMBER:
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BU #: **828054**
SOUTH WINDSOR/RT5

300 GOVERNORS HIGHWAY
SOUTH WINDSOR, CT 06074

EXISTING
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0	1/25/21	JJD	CONSTRUCTION	RMC



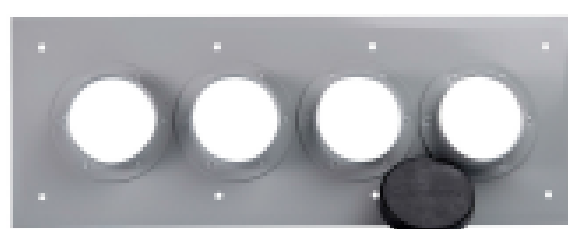
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SHEET NUMBER: **C-5** REVISION: **0**

204673-4

4 Port Entrance Panel, 1 x 4



Product Classification

Product Type Entrance panel
Ordering Note CommScope® non-standard product

General Specifications

Color Gray
Entry Panel Port Size 101.6 mm | 4 in
Number of Ports 4
Panel Type Multiple

Dimensions

Height 241.3 mm | 9.5 in
Width 647.7 mm | 25.5 in

Material Specifications

Material Type Aluminum

Environmental Specifications

Weather Resistance Test Method 04AS00-03.9.0 | IEC 60529:2001, IP66

Packaging and Weights

Height, packed 668.02 mm | 26.3 in
Width, packed 259.08 mm | 10.2 in
Length, packed 50.8 mm | 2 in
Included Entry cap | Hardware | Port

204673-4

Packaging quantity 1
Weight, gross 1.4 kg | 3.086 lb

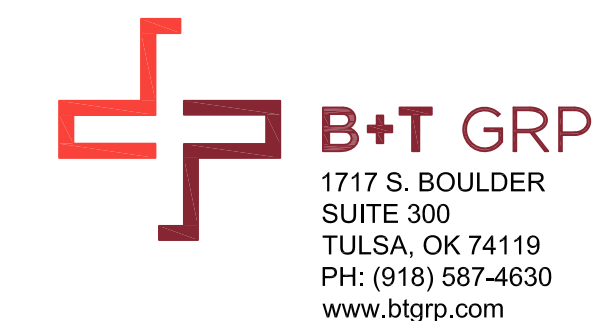
Regulatory Compliance/Certifications

Agency **Classification**
 CHINA-ROHS Below maximum concentration value
 ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system
 REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance
 ROHS Compliant



Included Products

CAP-4 - Snap-in Entry Port Cap, 4 in



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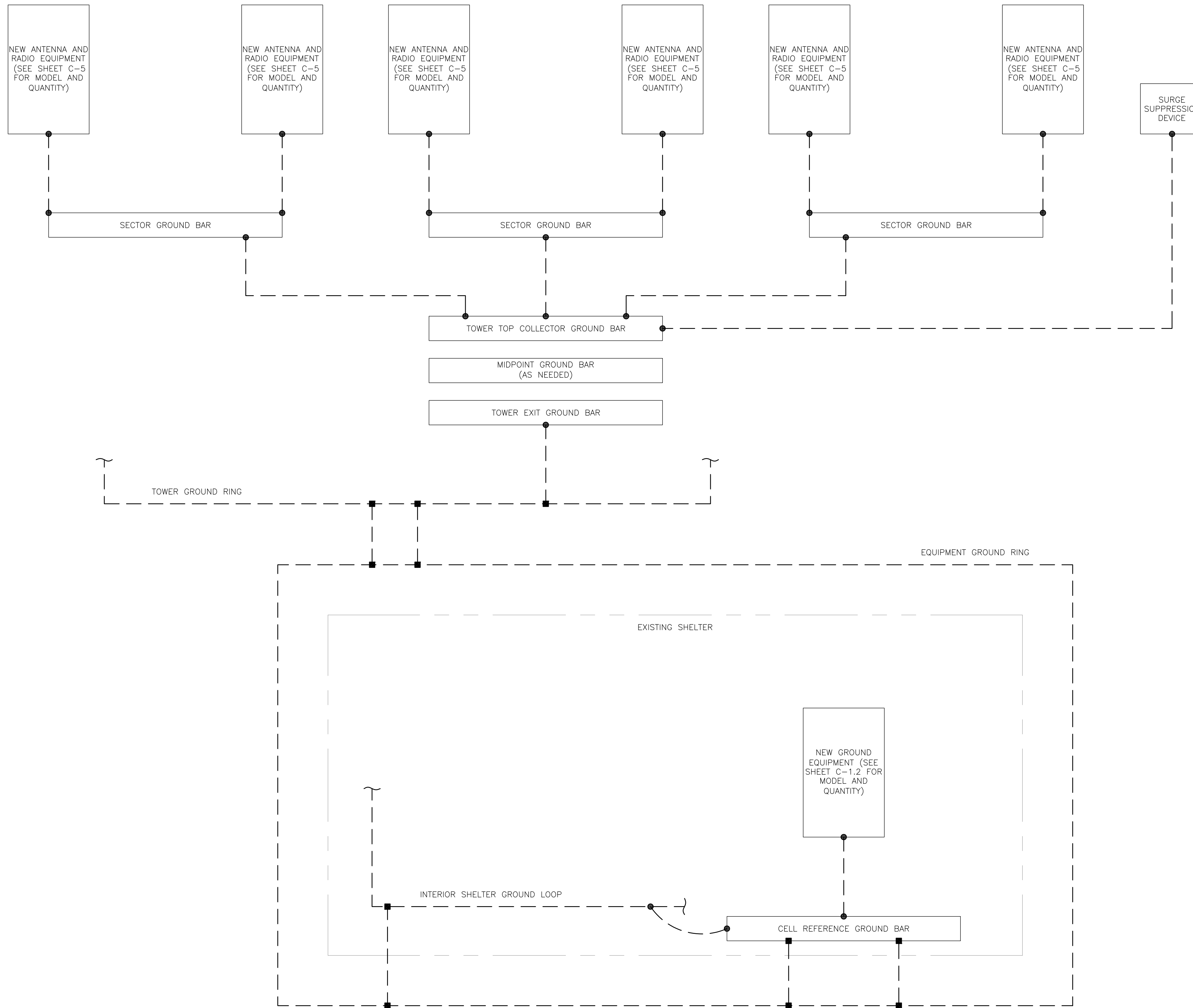


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SHEET NUMBER: **C-6** REVISION: **0**





GROUNDING PLAN LEGEND:

---	GROUND WIRE		COPPER GROUND ROD
■	EXOTHERMIC WELD		GROUND ROD W/ TEST WELL
●	MECHANICAL CONNECTION		

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.

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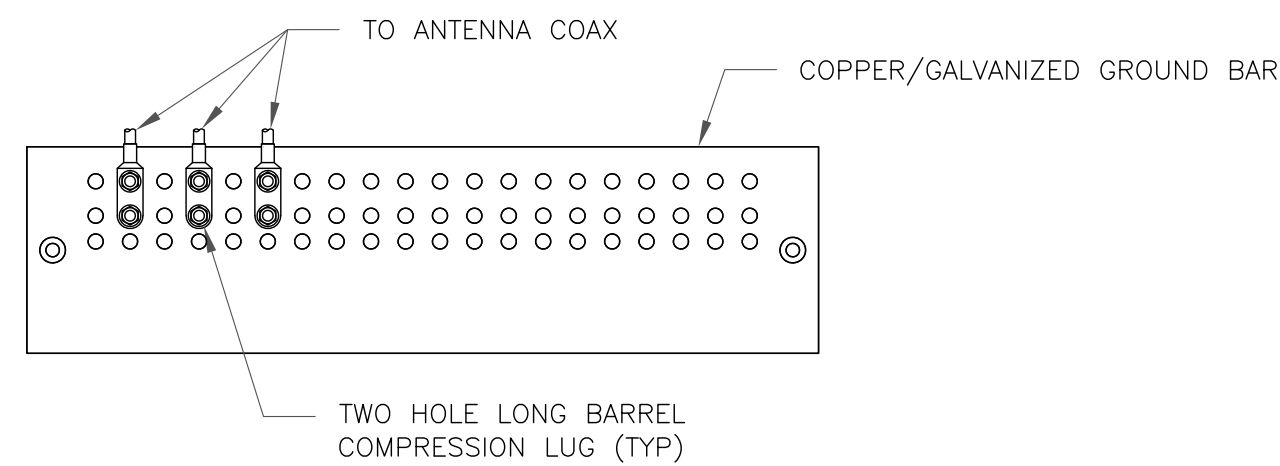
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SHEET NUMBER: **G-1** **REVISION:** **0**

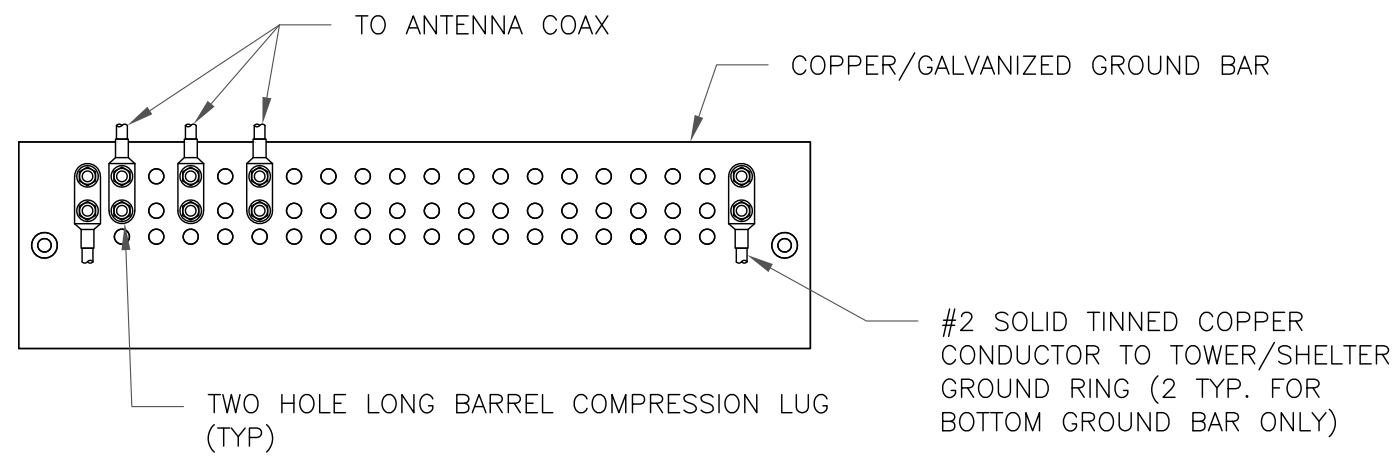
1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE



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

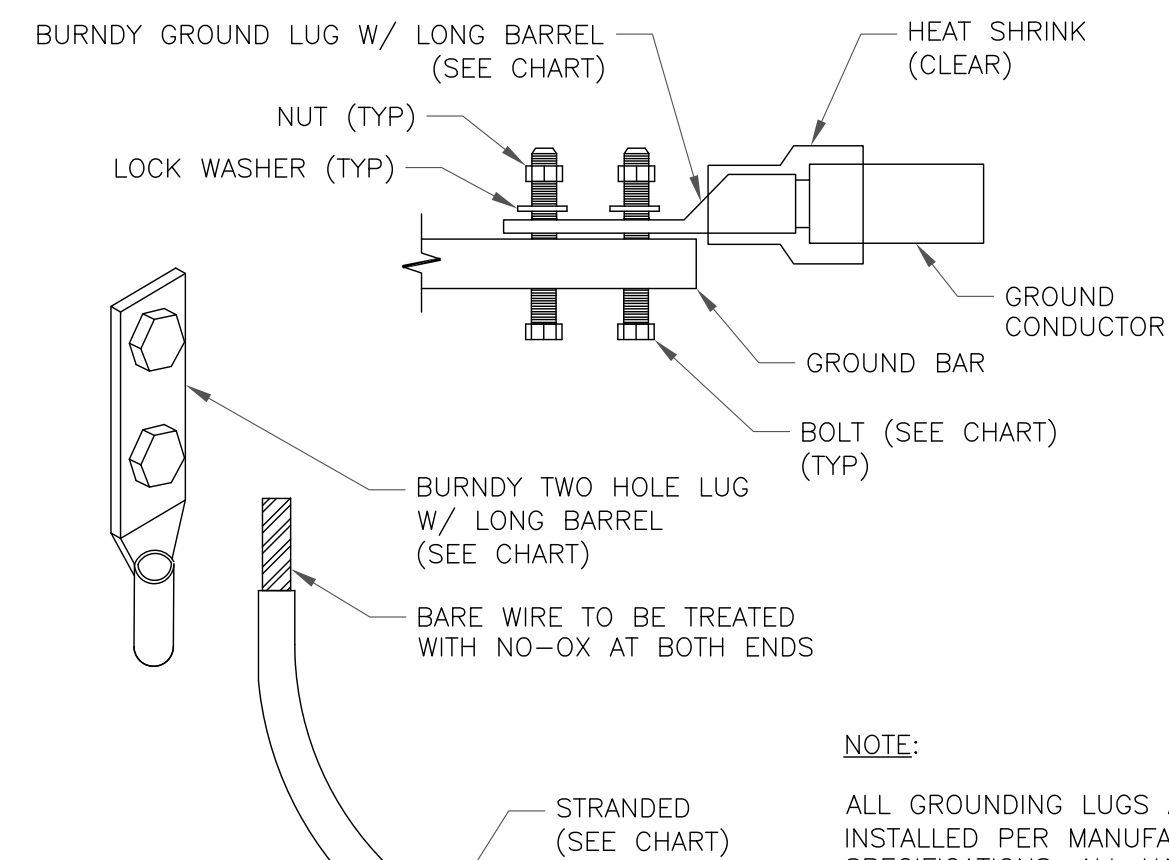


NOTES:

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

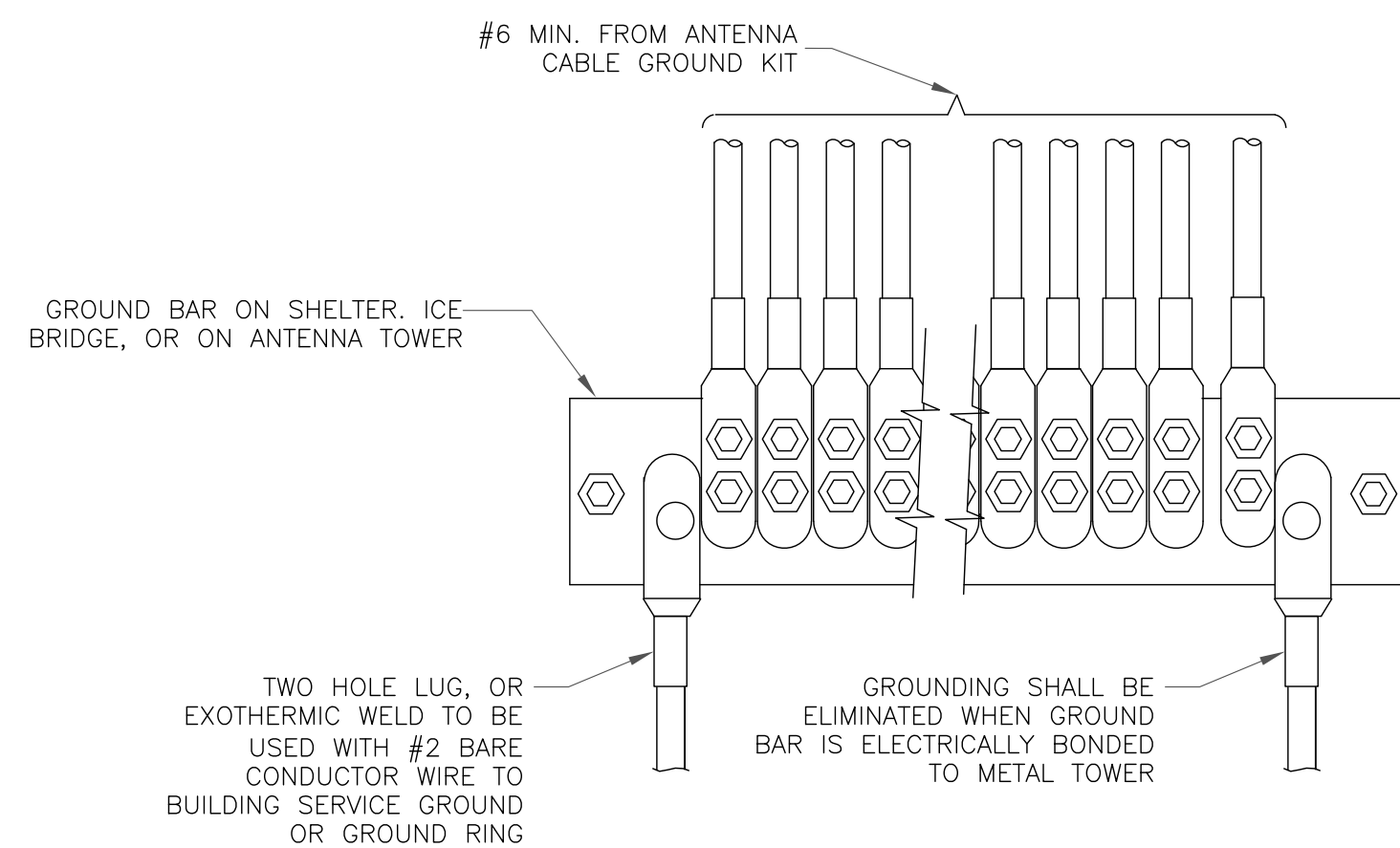
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



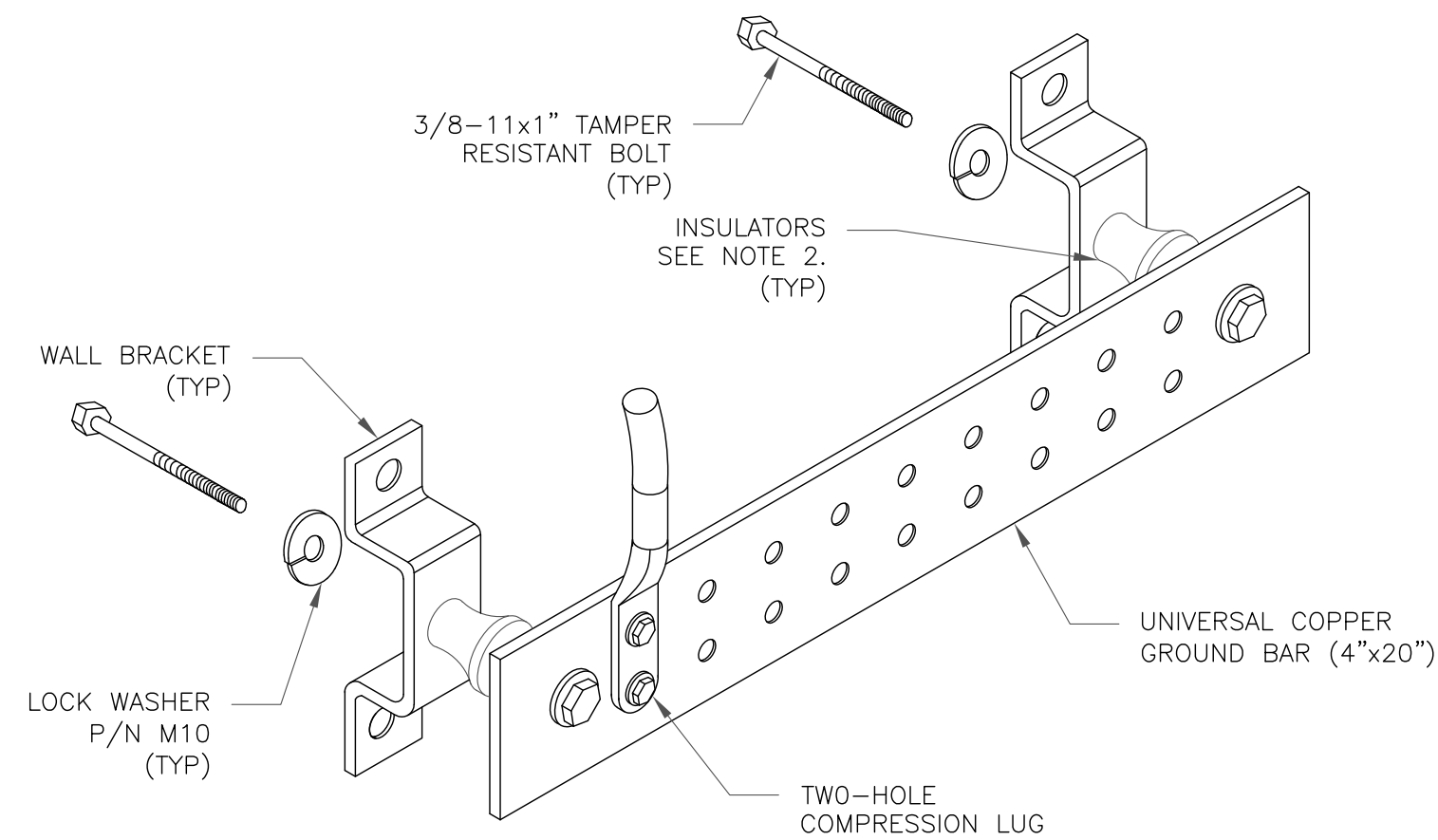
NOTE:

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, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



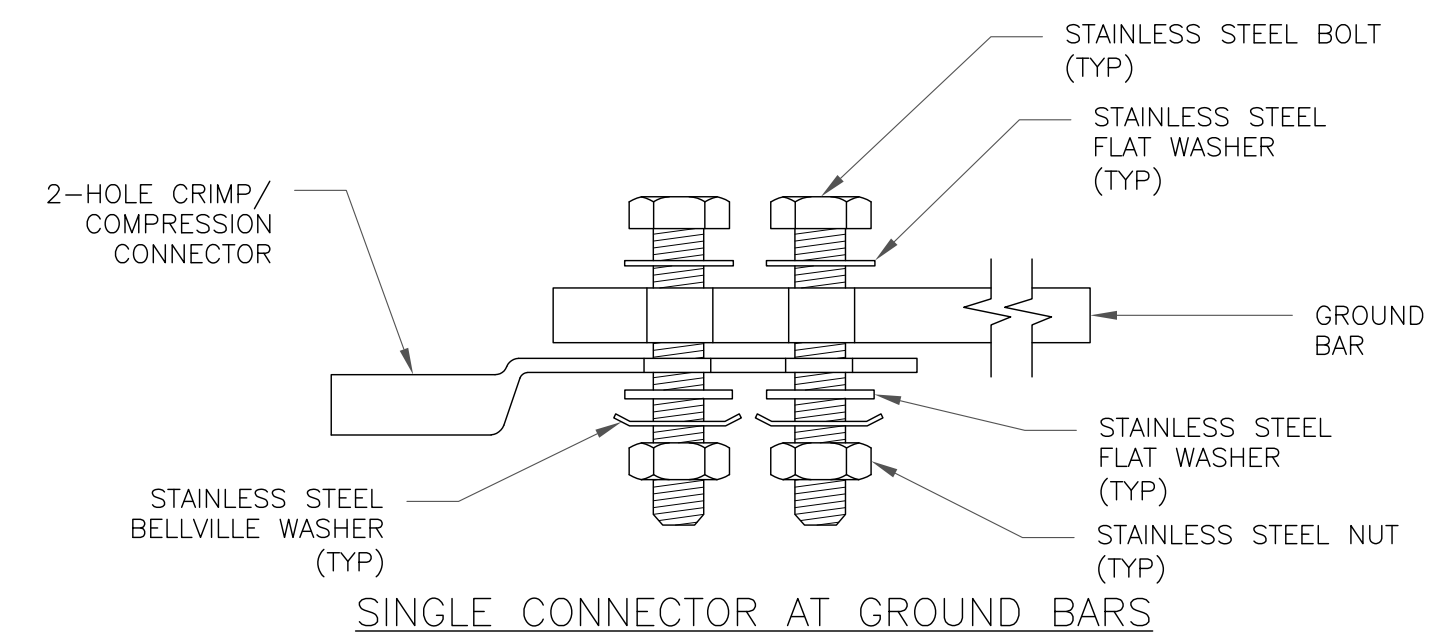
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



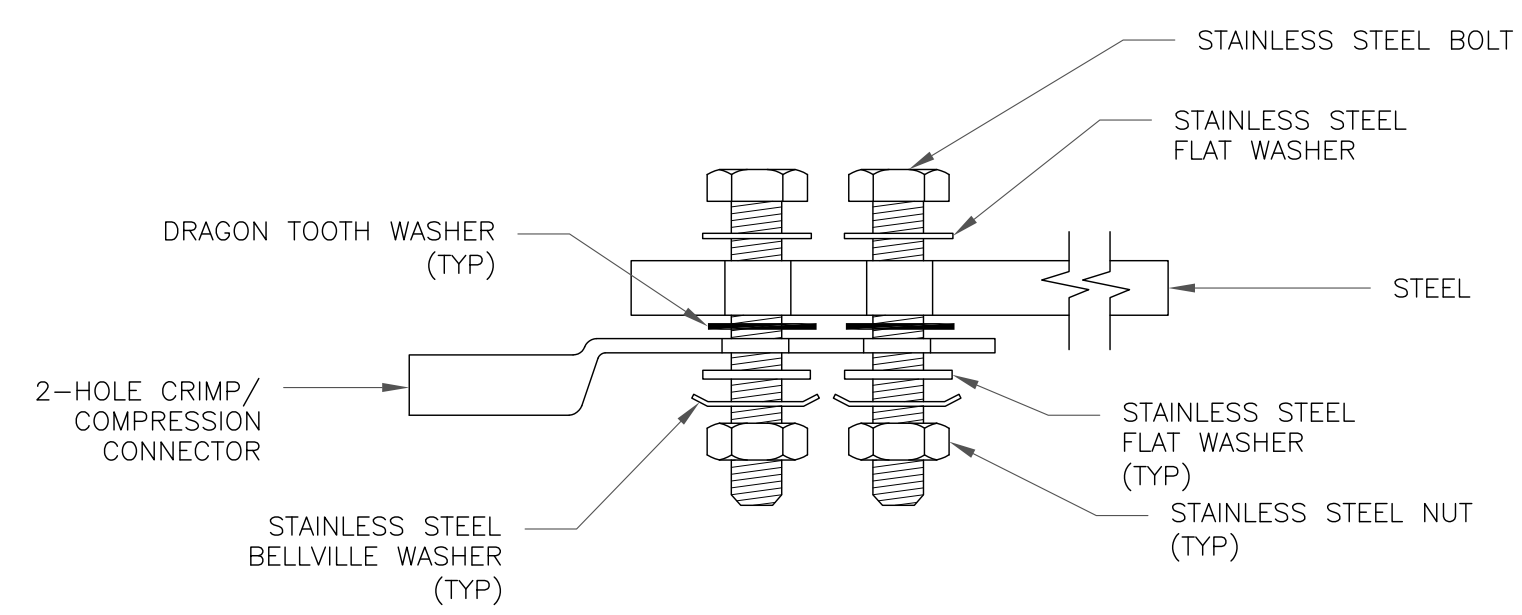
NOTES:

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.

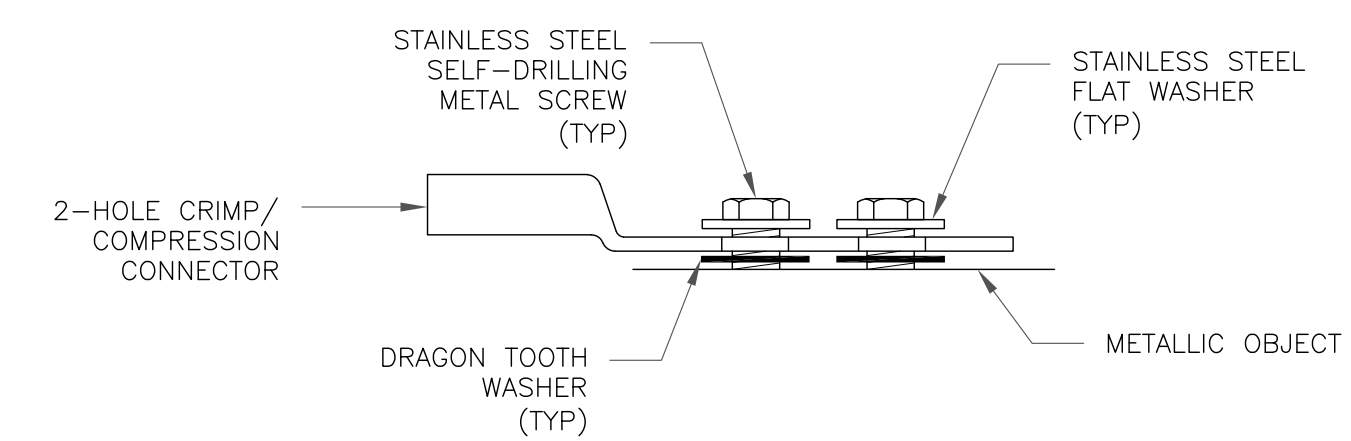
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



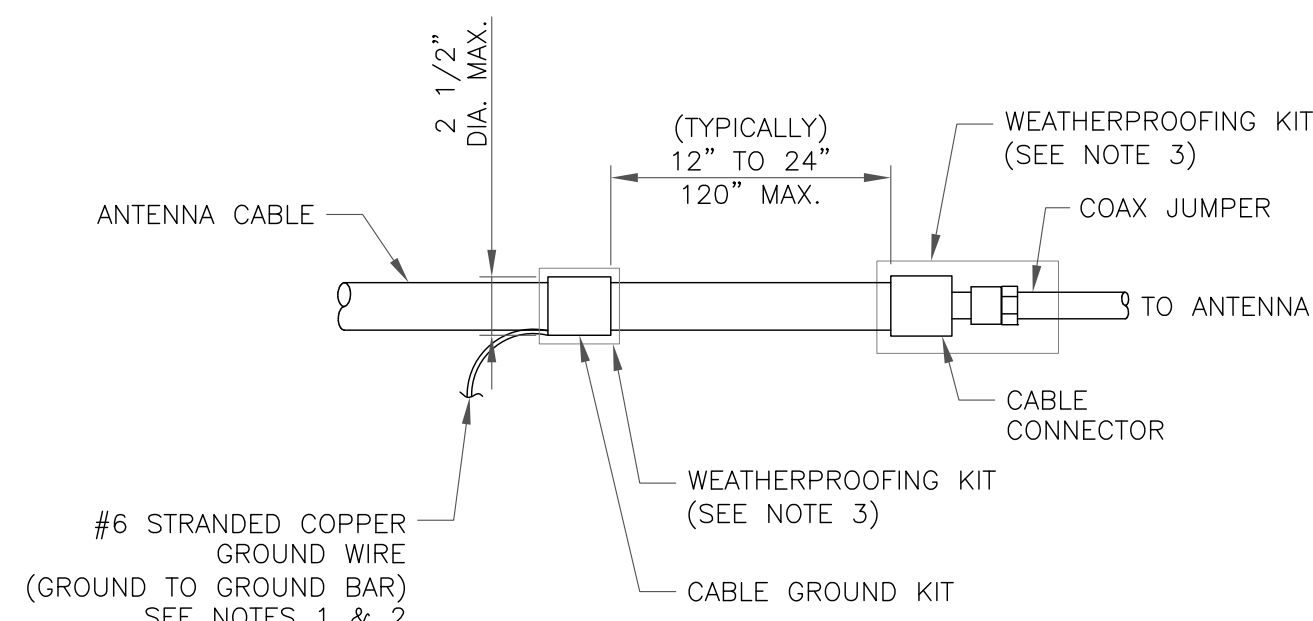
SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



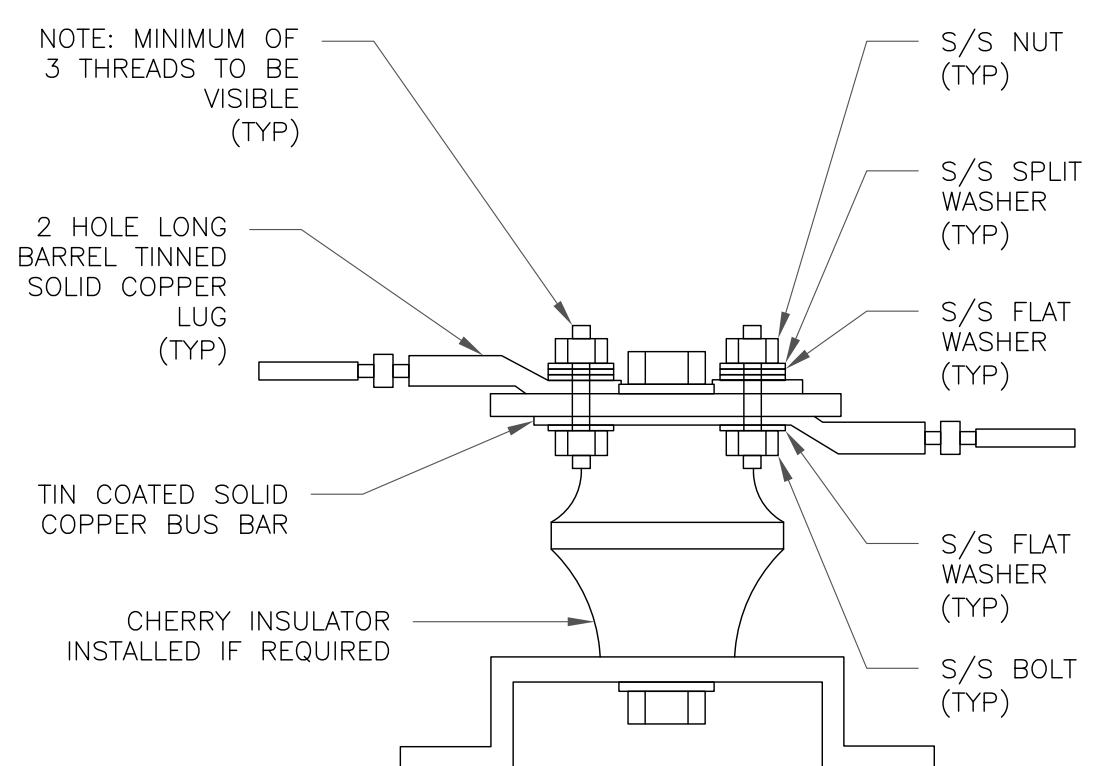
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS



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

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE

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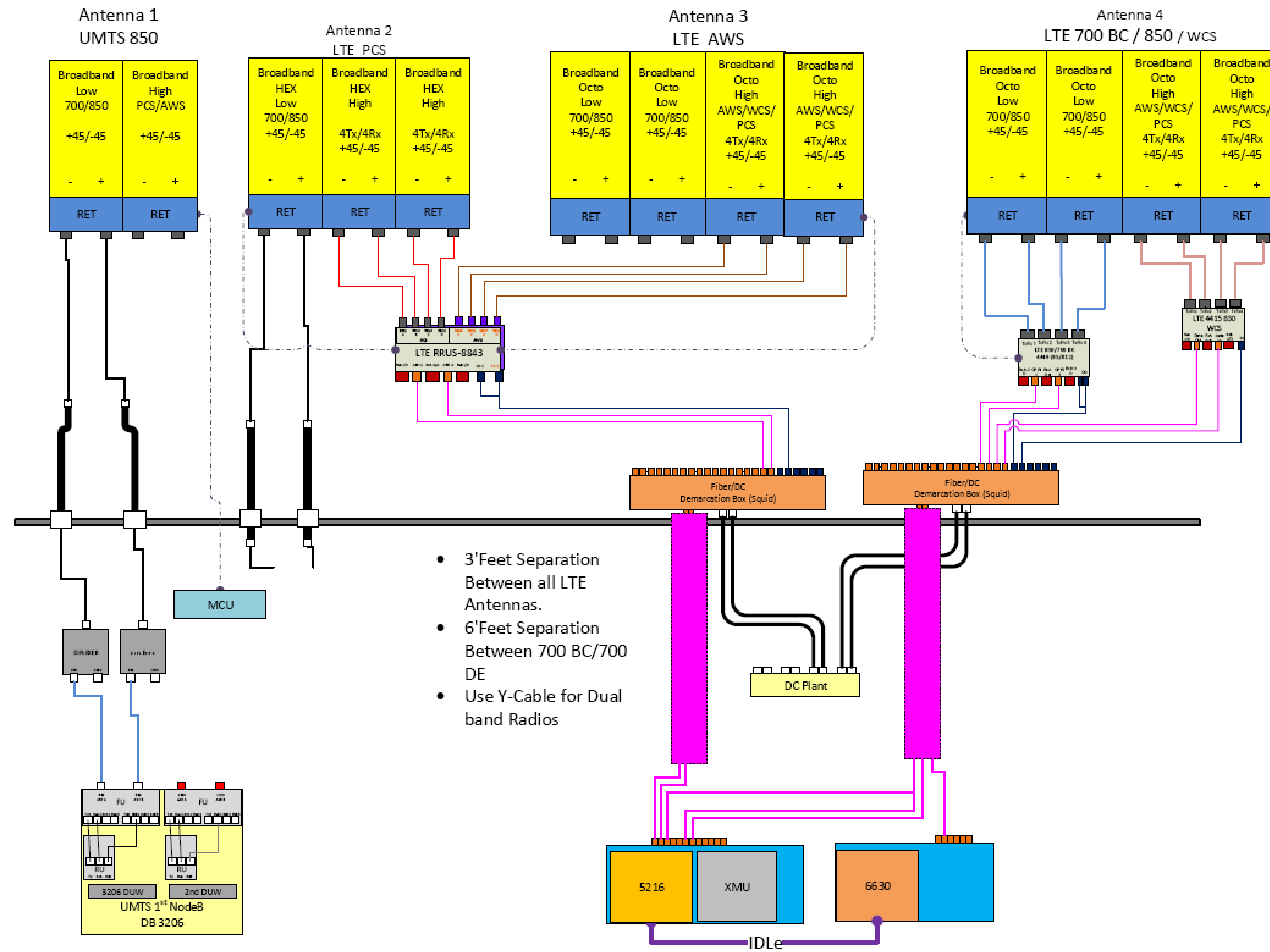
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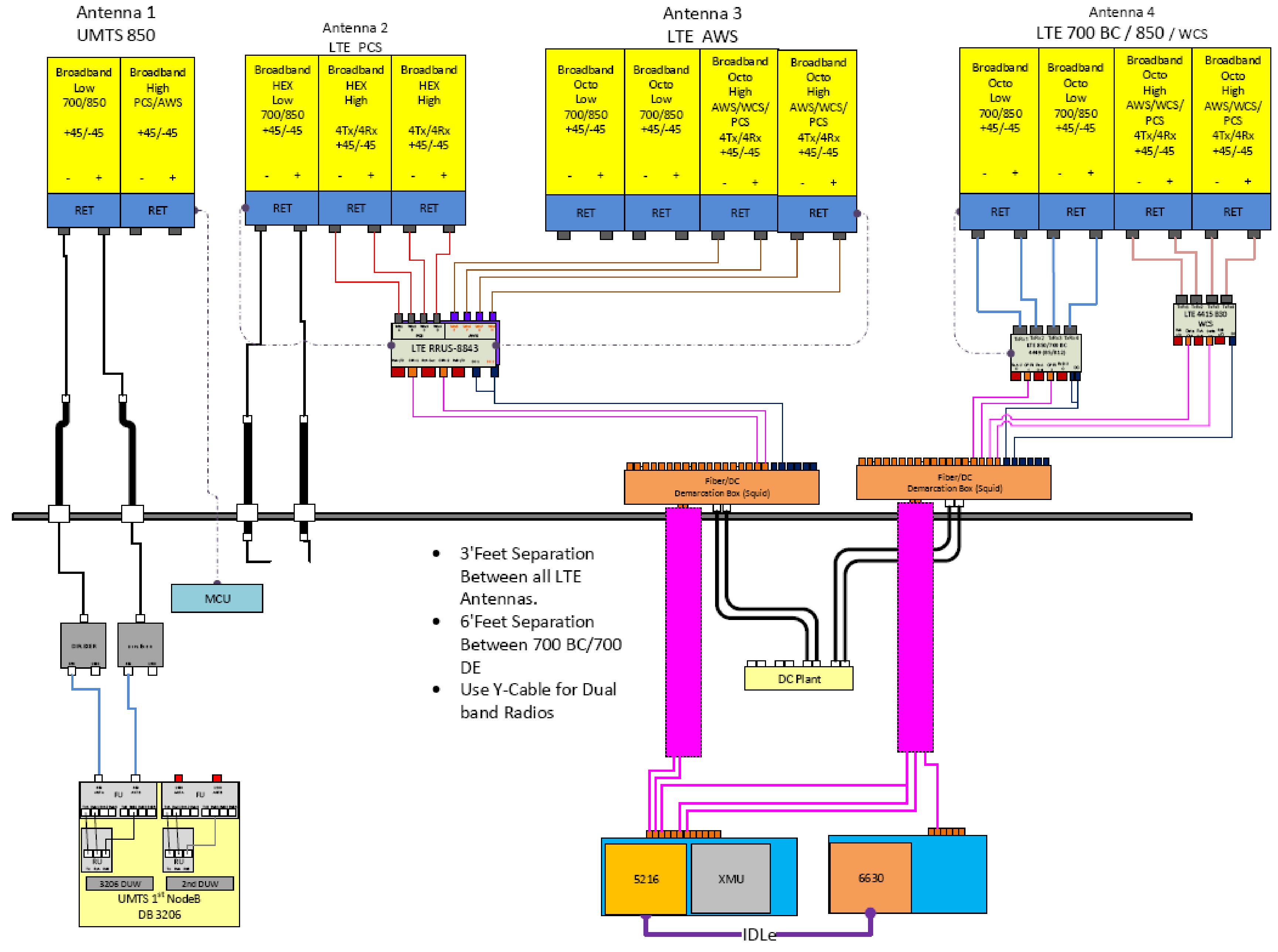


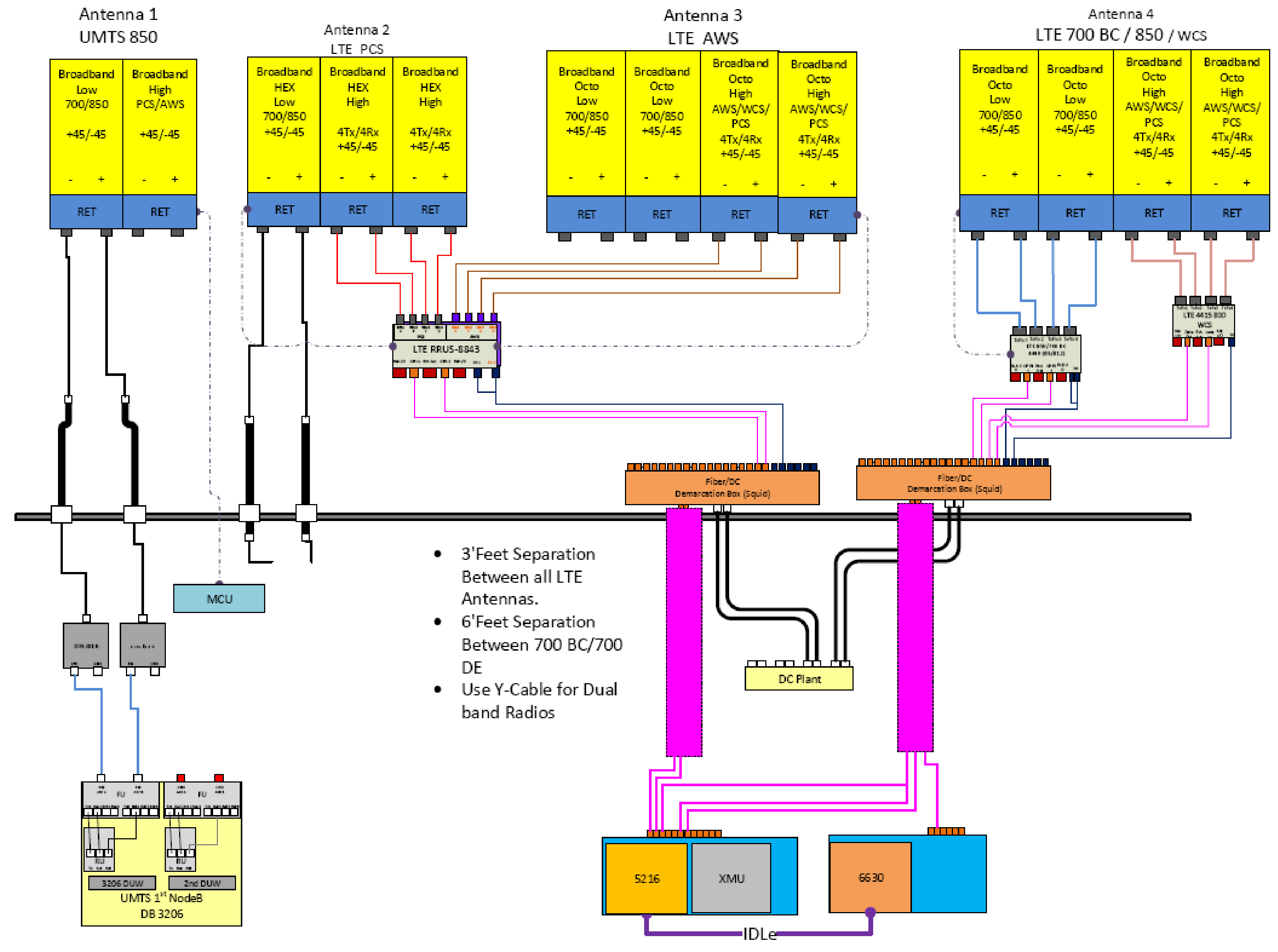
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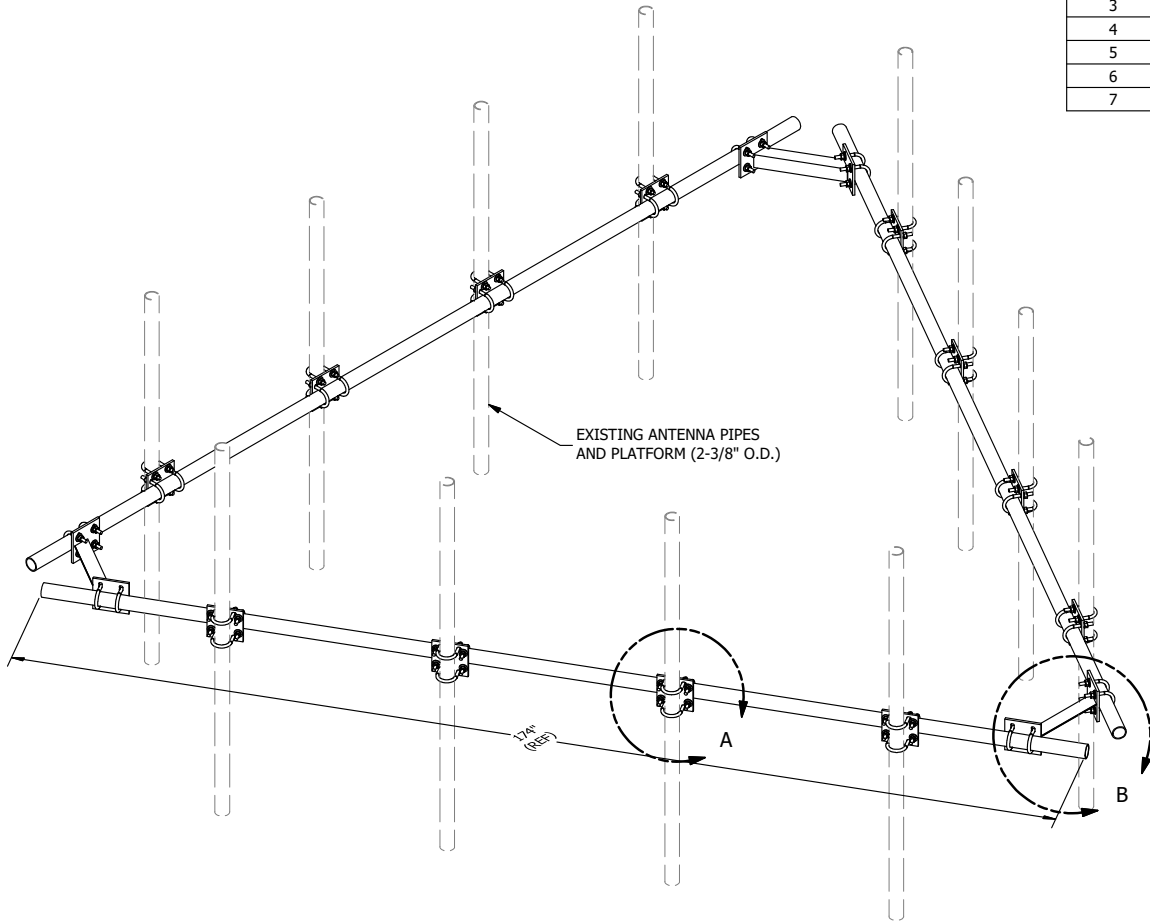
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SHEET NUMBER: **G-2** REVISION: **0**

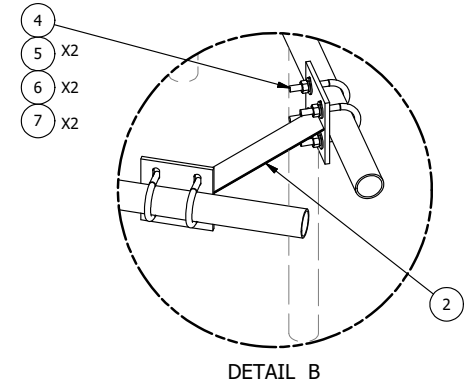
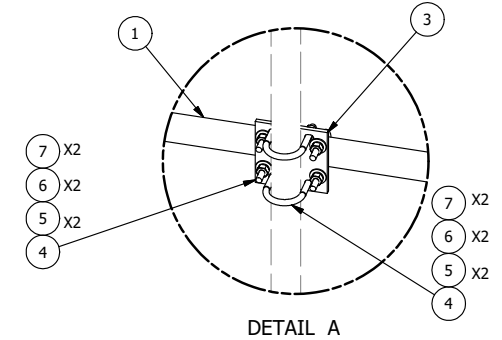








PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2174	2-3/8" OD X 174" SCH 40 GALVANIZED PIPE	174 in	55.75	167.24
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	12	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6 in	3.71	44.50
4	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	37.51
5	120	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.09
6	120	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	1.67
7	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.60
TOTAL WT. #						302.36



TOLERANCE NOTES

**TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)**

**PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT
 INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF
 VALMONT INDUSTRIES IS STRICTLY PROHIBITED.**

DESCRIPTION
**HANDRAIL KIT
 FOR 14'-6" FACE**

SITE PRO 1
 Engineering Support Team:
 1-888-753-7446
 Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	REPLACED HCP WITH X-AHCP	CEK		7/11/2014
REVISION HISTORY				

CPD NO.	DRAWN BY	ENG. APPROVAL
	KC8 5/30/2012	
CLASS	SUB	DRAWING USAGE
81	01	CUSTOMER
		CHECKED BY
		BMC 7/13/2014

PART NO.	HRK14
DWG. NO.	HRK14