

From: Jason Blinkhorn <jblinkhorn@qualtekwireless.com>

Sent: Monday, May 24, 2021 1:54 PM

To: CSC-DL Siting Council <Siting.Council@ct.gov>; town council@easthamptonct.gov;
dcox@easthamptonct.gov

Cc: Michael Cypranowski <mcypranowski@qualtekwireless.com>; Corey Michaud
<cmichaud@qualtekwireless.com>; John Centore <jcentore@qualtekwireless.com>; ATT Closeouts
<attcloseouts@empiretelecomm.com>; New England Compliance
<newenglandcompliance@empiretelecomm.com>; Siyuan Liu <sliu@qualtekwireless.com>; Karin Turner
<kturner@qualtekwireless.com>

Subject: CT5838 ATT BUILD AT CSC EM-AT&T-042-210401

CSC team,

Can we please request NTP for 6-7.

COP team,

Please note this site requires additional COP documents for CSC.

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 East Hampton
1 Community Drive
East Hampton, CT 06424
Phone: (860) 267-9601

PERMIT # B-21-163

Permit Type: Cell Tower

BUILDING PERMIT

Application Date: 05/10/2021
Issue Date: 05/12/2021
Location: 1 PUBLIC WORKS DR Cell Tower
Parcel ID#: 06/5A/8B

Edition of Code:

Other Required Permits (If Applicable):

Electrical -
Mechanical -
Plumbing -

Applicants Name: Crown Castle
Applicant's Address: 2000 Corporate Drive
Canonsburg, PA 15317

Permit Fee: \$387.50
Valuation: \$30,000.00

Owner: Town Of East Hampton
Address: 1 Community Drive
East Hampton, CT 06424

Contractor : Crown Castle
License#: MCO.0903225
Address:2000 Corporate Drive
Canonsburg, PA 15317

Zone: R-4

Description of Work:

Replace (3) existing antenna & RRU on cell tower. Add (3) antenna, (2) support cabinets to existing tower and compound.

Notes:

Building Official

THIS PERMIT CONVEYS NO RIGHT TO OCCUPY ANY STREET, ALLEY OR SIDEWALK OR ANY PART THEREOF, EITHER TEMPORARILY OR PERMANENTLY, ENCROACHMENTS ON PUBLIC PROPERTY, NOT SPECIFICALLY PERMITTED UNDER THE BUILDING CODE, MUST BE APPROVED BY THE JURISDICTION, STREET OR ALLEY GRADES AS WELL AS DEPTH AND LOCATION OF PUBLIC SEWERS MAY BE COMBINED FROM THE DEPARTMENT OF PUBLIC WORKS. THE ISSUANCE OF THIS PERMIT DOES NOT RELEASE THE APPLICANT FROM THE CONDITIONS OF ANY APPLICABLE SUBDIVISION RESTRICTIONS.

THE GRANTING OF A PERMIT FOR THE PURPOSED WORK SHALL NOT BE ASSUMED OR CONSTRUED TO ALLOW PERFORMANCE CONTRARY TO THE LAWS AND REGULATIONS OF THE STATE OF CONNECTICUT AND THE TOWN OF EAST HAMPTON. THE APPLICANT SHALL BE RESPONSIBLE FOR COMPLIANCE TO AND KNOWLEDGE OF ALL APPLICABLE CODES, STANDARDS AND REQUIREMENTS. ANY FALSE STATEMENT WILL RENDER THIS APPLICATION AND PERMITS OBTAINED HEREBY NULL AND VOID.

PLEASE CALL THE OFFICE TECHNICIAN, 72 HOURS IN ADVANCE, AT 860-267-9601 WITH PERMIT NUMBER, TO SCHEDULE REQUIRED INSPECTIONS.

REQUIRED INSPECTIONS:

Electrical Final
Fire Marshal Oversight

Cell Tower Antenna
Cell Tower Antenna Final
Cell Tower Final



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 01566-1359

RE: **EM-AT&T-042-210401** - AT&T notice of intent to modify an existing telecommunications facility located at 1 Public Works Drive, East Hampton, 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. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. The Council shall be notified in writing at least two weeks prior to the commencement of site construction activities;
4. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
5. 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;
6. The validity of this action shall expire one year from the date of this letter; and
7. 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 March 30, 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

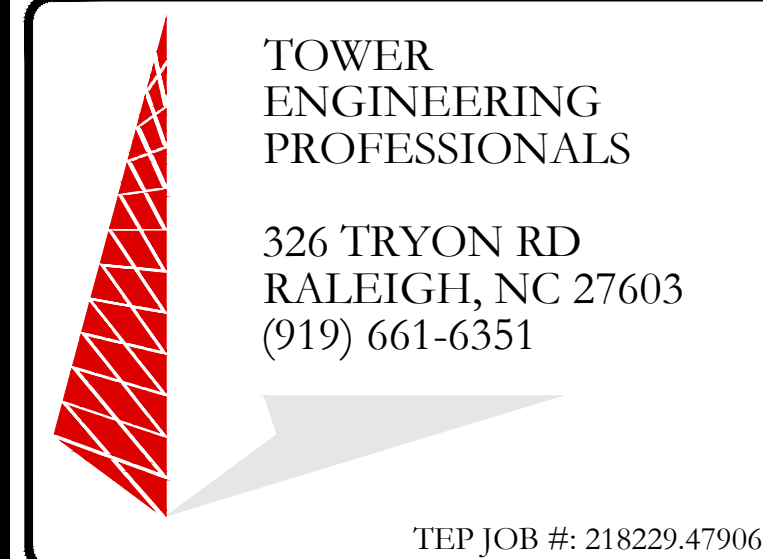
MAB/IN/emr

c: The Honorable Pete Brown, Chairman, Town of East Hampton
(towncouncil@easthamptonct.gov)
David Cox, Town Manager, Town of East Hampton (dcox@easthamptonct.gov)



AT&T SITE NUMBER: CTL05838
AT&T SITE NAME: EAST HAMPTON CENTRAL
AT&T FA CODE: 10071008
AT&T PACE NUMBER: MRCTB048910, MRCTB048919, MRCTB048902, MRCTB048893
AT&T PROJECT: LTE 4C/5C/4TX4RX/5G NR UPGRADE

BUSINESS UNIT #: 876368
SITE ADDRESS: 1 PUBLIC WORKS DRIVE
 EAST HAMPTON, CT 06424
COUNTY: MIDDLESEX
SITE TYPE: MONOPOLE
TOWER HEIGHT: 180'-0"



AT&T SITE NUMBER:
CTL05838
BU #: 876368
YANKEE LAKEAST
HAMPTONTOWN
 1 PUBLIC WORKS DRIVE
 EAST HAMPTON, CT 06424
 (MIDDLESEX COUNTY)
 EXISTING 180' MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/13/21	BSE	PRELIMINARY	JTC
B	01/25/21	BSE	PRELIMINARY	JTC
C	02/12/21	BSE	PRELIMINARY	JTC
0	03/09/21	BSE	CONSTRUCTION	JTC
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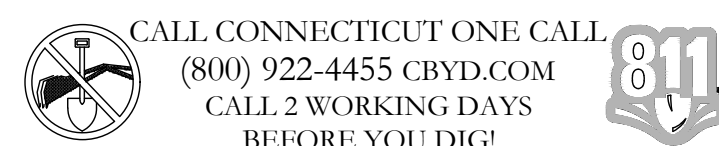
SITE INFORMATION

CROWN CASTLE USA INC. YANKEE LAKE EAST HAMPTON TOWN
 SITE NAME:
 SITE ADDRESS: 1 PUBLIC WORKS DRIVE
 EAST HAMPTON, CT 06424
 COUNTY: MIDDLESEX
 MAP/PARCEL #: 06-5A-8B
 AREA OF CONSTRUCTION: EXISTING
 LATITUDE: 41° 33' 53.14" (41.56476111)
 LONGITUDE: 72° 32' 35.18" (-72.54310556)
 LAT/LONG TYPE: NAD83
 GROUND ELEVATION: 377' (AMSL)
 CURRENT ZONING: R-2
 JURISDICTION: TOWN OF EAST HAMPTON
 OCCUPANCY CLASSIFICATION: U
 TYPE OF CONSTRUCTION: IIB
 A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 TOWN OF EAST HAMPTON & SPRINT SPECTRUM LP PROPTX TAX
 PO BOX 8430 (CT33XC018)
 KANSAS CITY, MO 64114
 PROPERTY OWNER:
 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: CONNECTICUT LIGHT & POWER CO.
 (800) 286-2000
 TELCO PROVIDER: AT&T
 (800) 288-2020

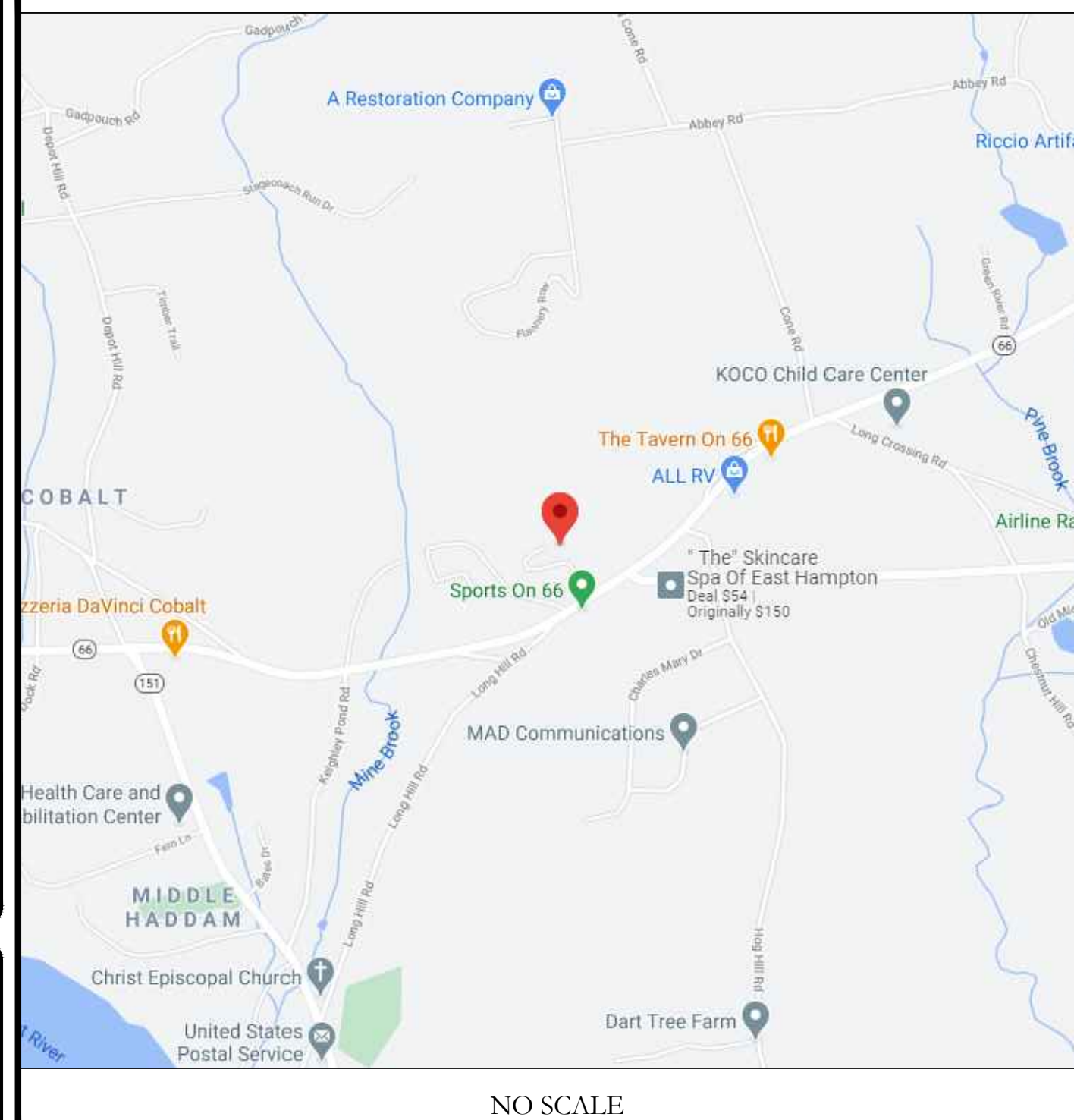
DRAWING INDEX

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
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAMS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 22x34. 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



PROJECT TEAM

A&E FIRM: TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 BRITTON S. ENGLAND - PROJECT MANAGER
 (919) 661-6351
 GRAHAM M. ANDRES - CIVIL ENGINEER
 (919) 661-6351
 GRAHAM M. ANDRES - ELECTRICAL ENGINEER
 (919) 661-6351
 CROWN CASTLE USA INC. DISTRICT CONTACTS:
 1200 MACARTHUR BLVD, SUITE 200
 MAHWAH, NJ 07430
 NICHOLAS ROMBACH - A&E SPECIALIST
 (502) 318-1303

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) RRUS-11 B12 RADIOS POSITION 4
- REMOVE (3) KMW AM-X-CD-16-65-00T-RET ANTENNAS
- INSTALL (3) RRUS 4449 B5/B12
- INSTALL (3) RRUS-32 B66A
- INSTALL (3) RRUS 4478 B14
- INSTALL (3) CCI DMP65R-BU6DA POSITION 4 ALL SECTORS
- INSTALL (3) CCI OPA65R-BU6BA POSITION 3 ALL SECTORS
- INSTALL (1) DC6 SQUID
- INSTALL (2) #6AWG DC POWER TRUNKS
- INSTALL (3) Y CABLES ON DUAL BAND RRHS

GROUND SCOPE OF WORK:

- REMOVE GSM CABINET AND INSTALL NEW FLX12 CABINET
- INSTALL (1) 6630 BASEBAND
- INSTALL (1) IDLE CABLE
- INSTALL (1) 19" DISTRIBUTION SHELF
- INSTALL (12) VERTIV UP-CONVERTERS
- INSTALL (1) PROPOSED FLEX 16 DOOR UPGRADE KIT
- INSTALL (1) PROPOSED DC12
- INSTALL (1) PROPOSED FIBER MANAGEMENT BOX

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 INTERNATIONAL BUILDING CODE
MECHANICAL	2015 INTERNATIONAL MECHANICAL CODE
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS: BY CROWN CASTLE
 DATED: 12/11/2020

MOUNT ANALYSIS: BY POD GROUP
 DATED: 12/07/2020

AC ELECTRICAL POWER DESIGN: BY OTHERS
 DATED:

RFDS REVISION: 2.00
 DATED: 10/28/2020

ORDER ID: 528756
 REVISION: 1

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



03/12/21

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.

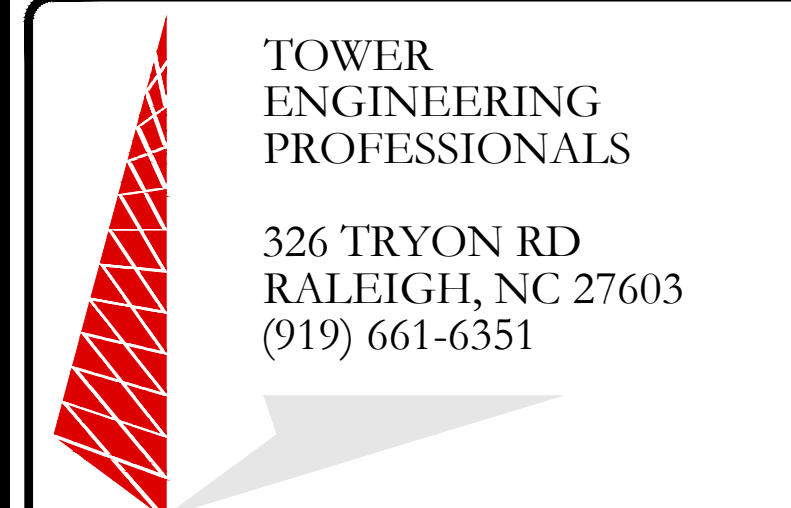
SHEET NUMBER: T-1
REVISION: 1



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430



TOWER
ENGINEERING
PROFESSIONALS

326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 218229.479065

AT&T SITE NUMBER:
CTL05838

BU #: 876368
**YANKEE LAKEAST
HAMPTONTOWN**

1 PUBLIC WORKS DRIVE
EAST HAMPTON, CT 06424
(MIDDLESEX COUNTY)

EXISTING 180' MONOPOLE

ISSUED FOR:

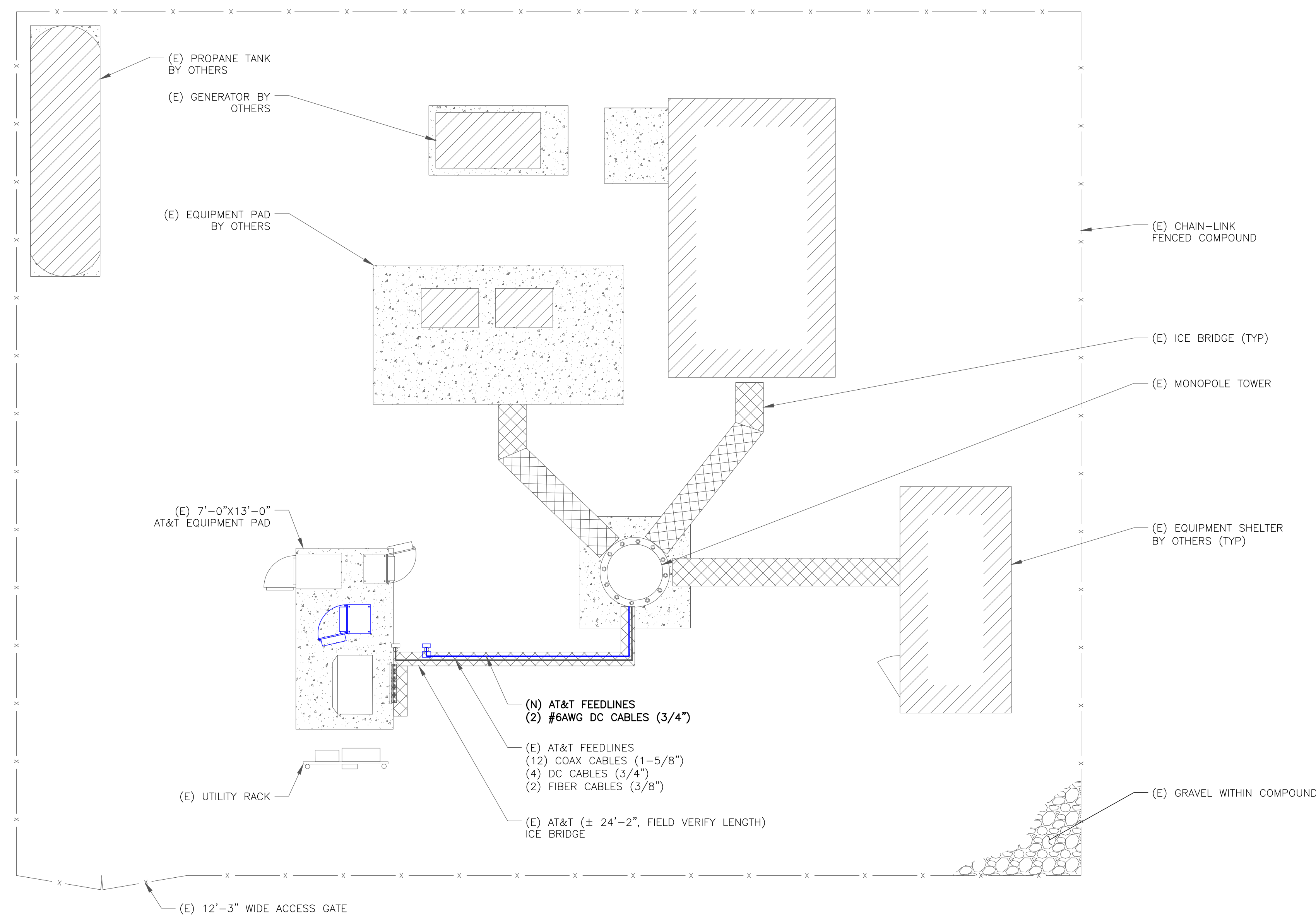
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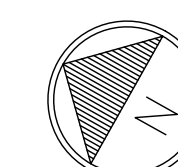
03/12/21

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TO ALTER THIS DOCUMENT.

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



1 SITE PLAN
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)

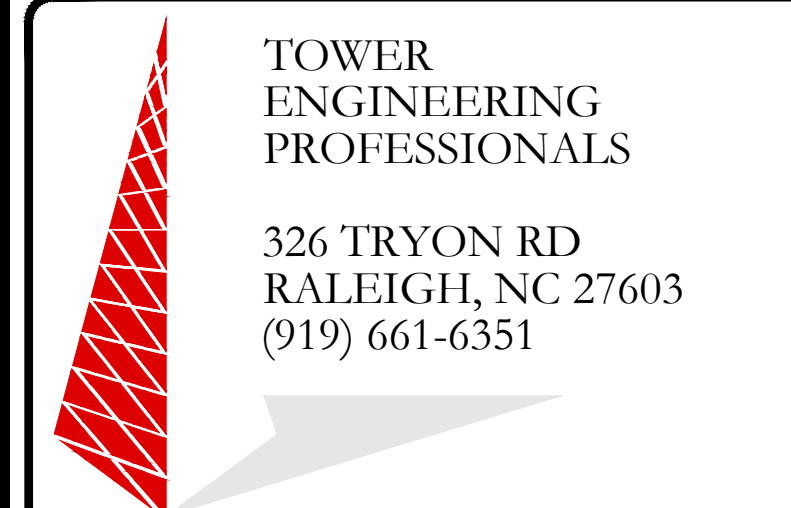




575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430



TOWER
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326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

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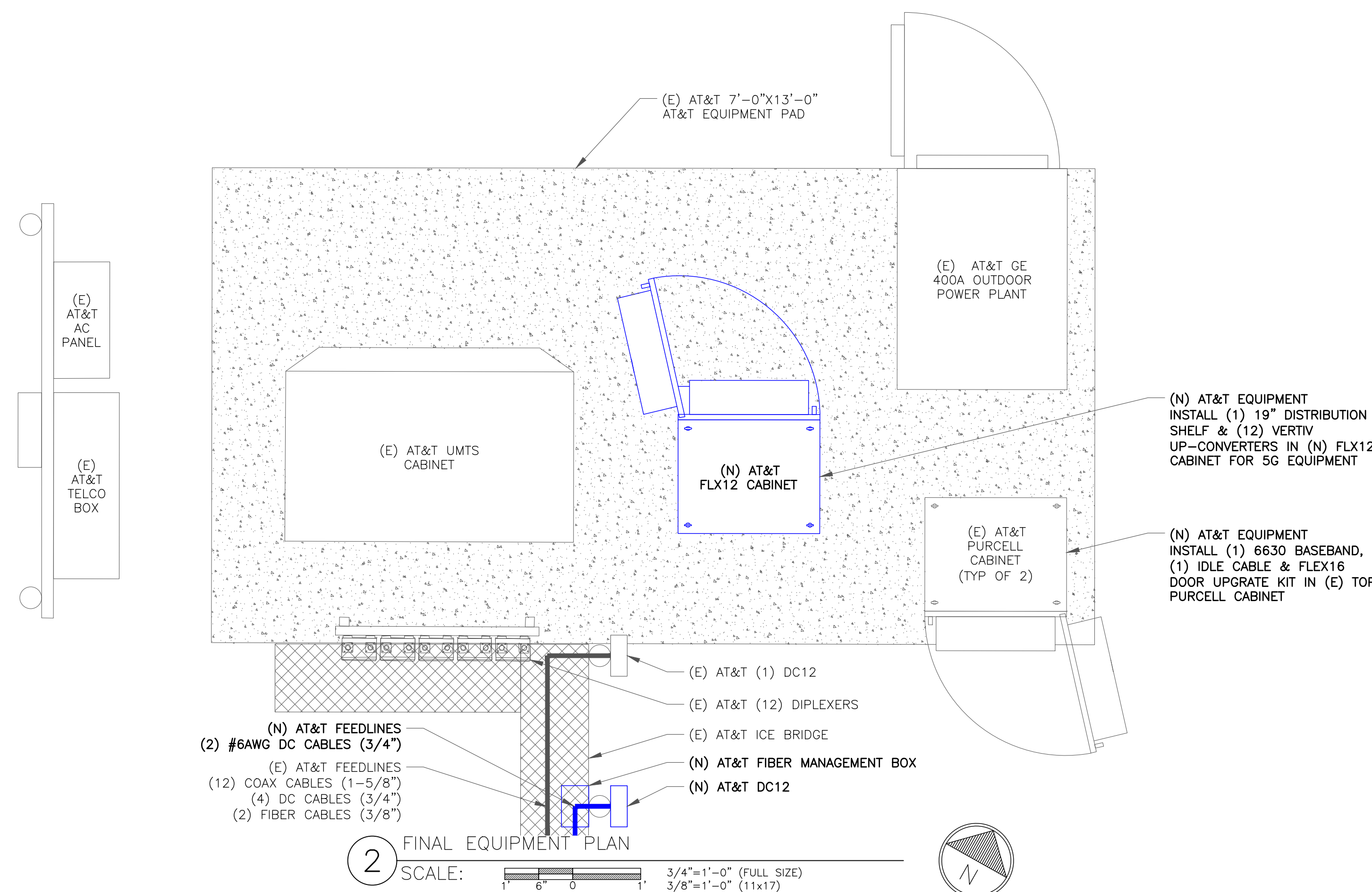
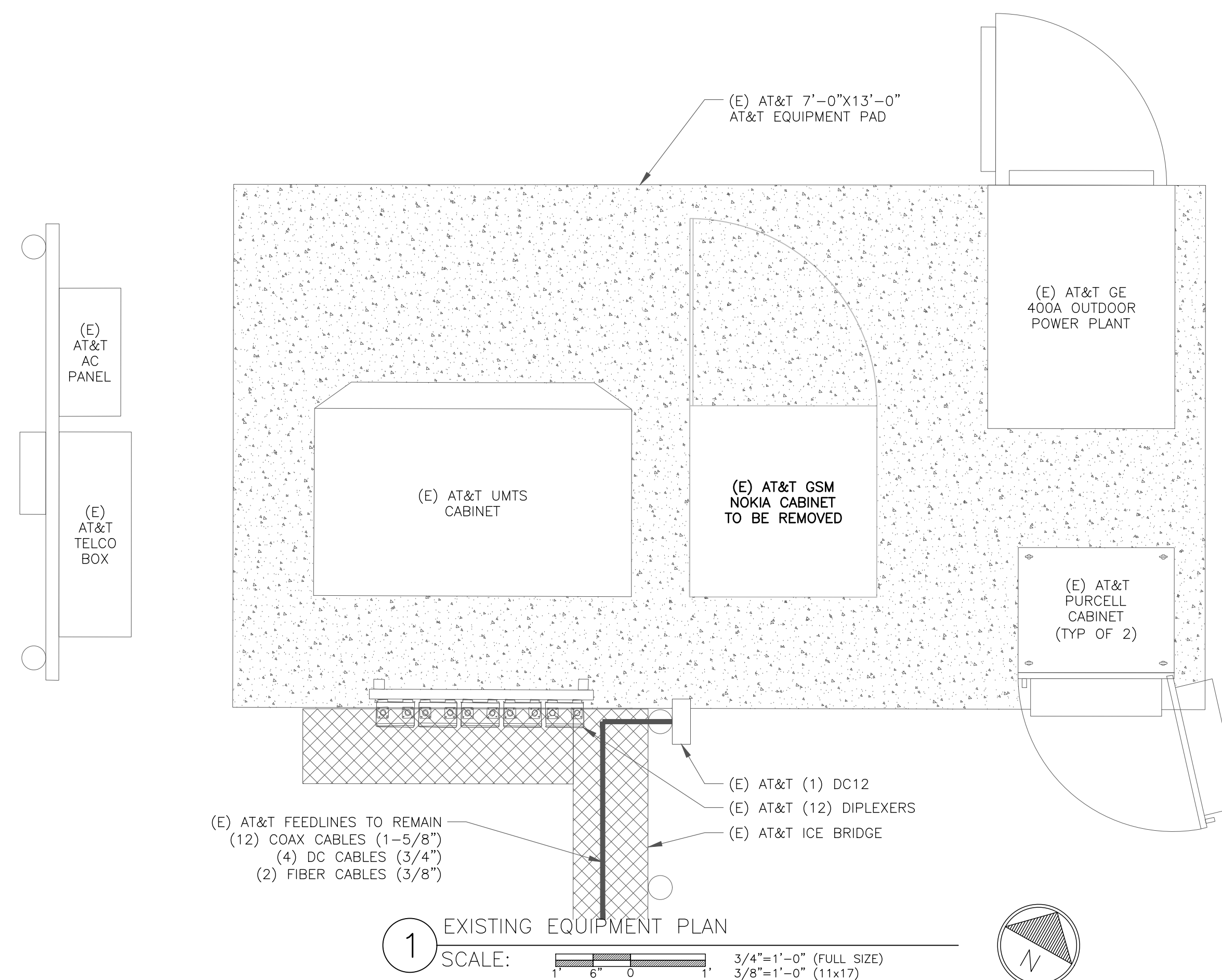
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GROUND SCOPE OF WORK:

- REMOVE GSM CABINET AND INSTALL NEW FLX12 CABINET
- INSTALL (1) 6630 BASEBAND
- INSTALL (1) IDLE CABLE
- INSTALL (1) 19" DISTRIBUTION SHELF
- INSTALL (12) VERTIV UP-CONVERTERS
- INSTALL (3) Y CABLES ON DUAL BAND RRHS
- INSTALL (1) FLEX16 DOOR UPGRADE KIT
- INSTALL (1) DC12
- INSTALL (1) FIBER MANAGEMENT BOX

NOTE:

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03/12/21

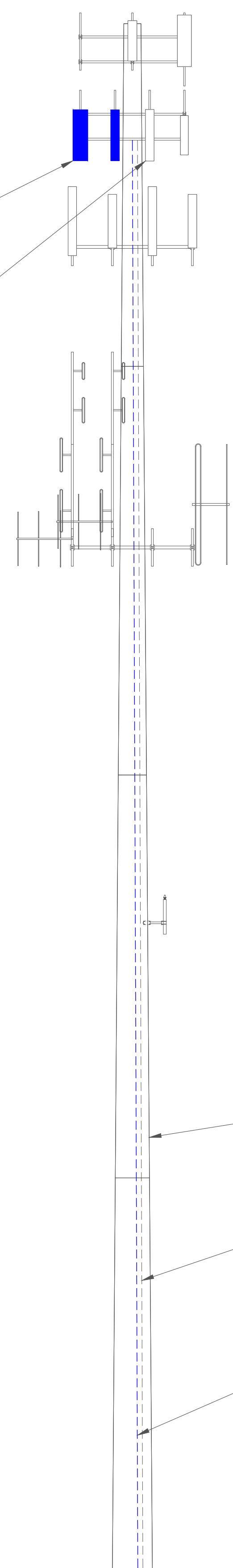
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SHEET NUMBER: **C-1.2** REVISION: **1**

HEIGHT OF STRUCTURE
ELEV. = 180'-0"

(N) AT&T EQUIPMENT
(6) ANTENNAS
(9) RRHs
(1) RAYCAP

(E) AT&T EQUIPMENT
(6) ANTENNAS
(6) RRHs
(6) TMAs
(3) DIPLEXERS
(2) RAYCAPs



TOP OF EXISTING APPURTENANCE
ELEV. = 181'-0"
EXISTING MCL
ELEV. = 177'-0"
EXISTING MCL
ELEV. = 168'-0"
EXISTING ACL
ELEV. = 167'-0"
EXISTING MCL
ELEV. = 154'-0"
EXISTING MCL
ELEV. = 119'-0"

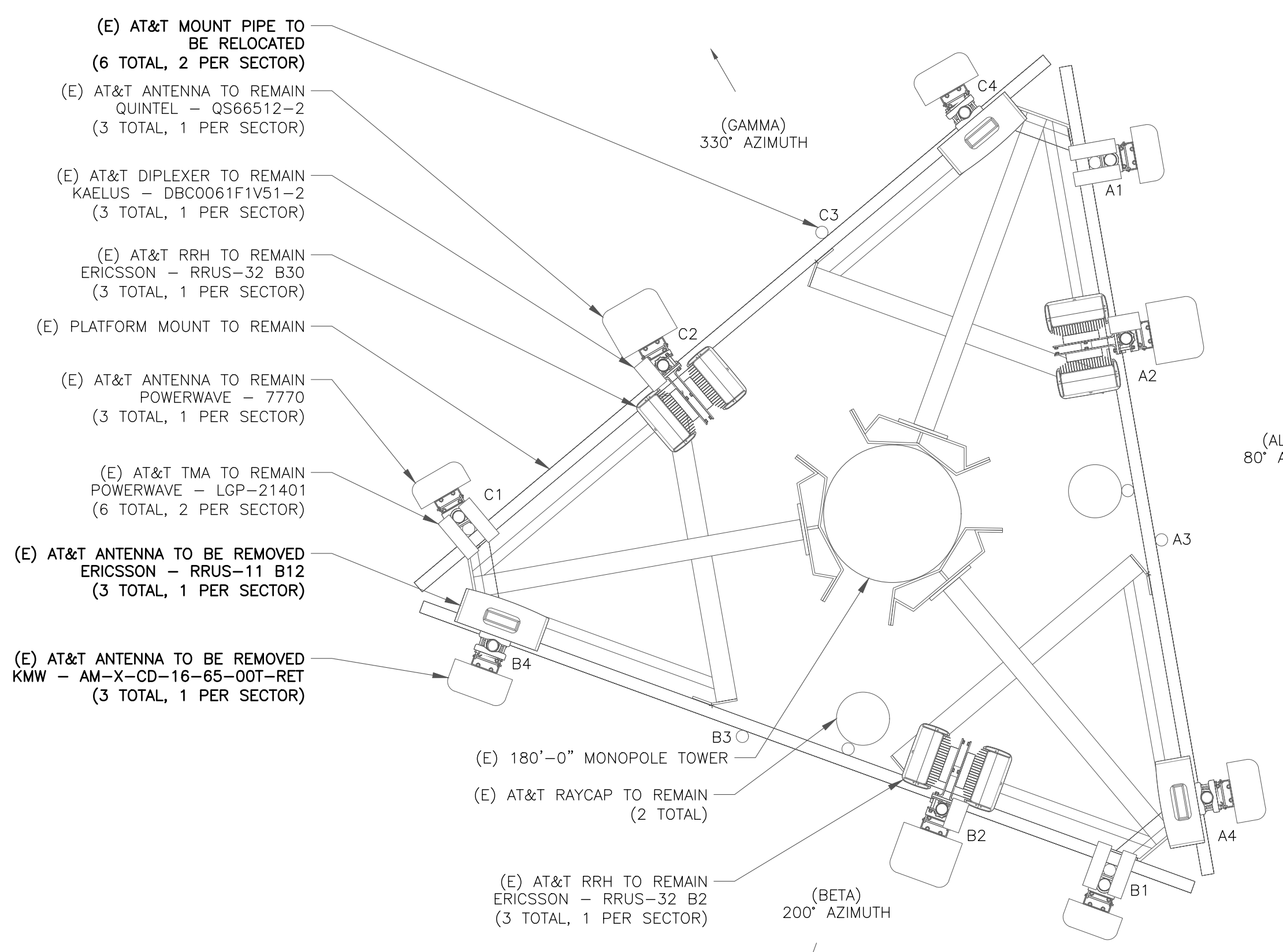
EXISTING MCL
ELEV. = 77'-0"

(E) 180'-0" MONOPOLE TOWER
(E) AT&T FEEDLINES
(12) COAX CABLES (1-5/8")
(4) DC CABLES (3/4")
(2) FIBER CABLES (3/8")
(ROUTED PER STRUCTURAL ANALYSIS)

(N) AT&T FEEDLINES
(2) #6AWG DC CABLES (3/4")
(1) 2" FLEX COUDUIT
(ROUTED INTERNALLY PER
STRUCTURAL ANALYSIS)

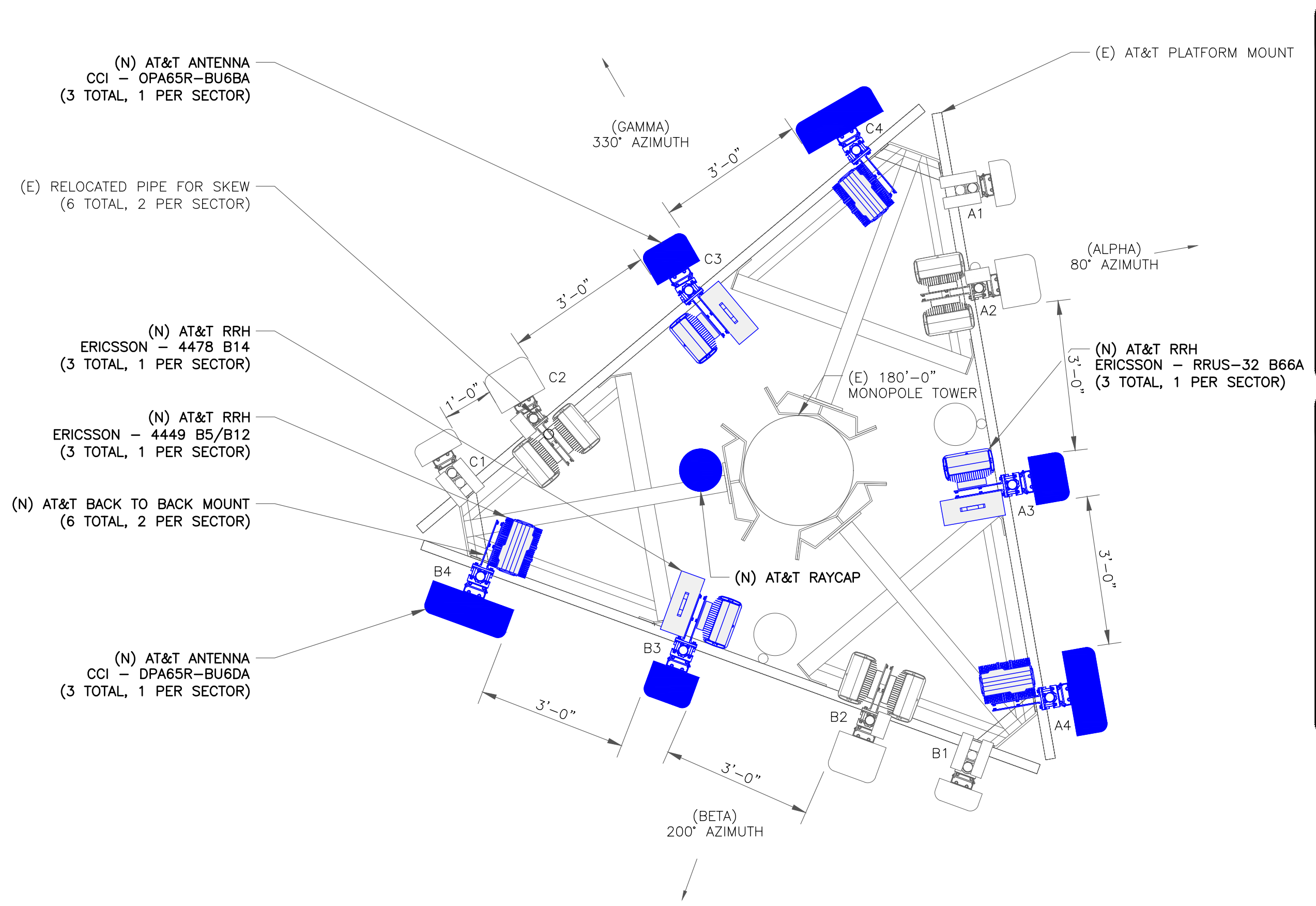
REFERENCE
ELEV. = 0'-0"

1 FINAL ELEVATION
SCALE: NOT TO SCALE



(E) AT&T MOUNT PIPE TO BE RELOCATED
(6 TOTAL, 2 PER SECTOR)
(E) AT&T ANTENNA TO REMAIN
QUINTEL - QS66512-2
(3 TOTAL, 1 PER SECTOR)
(E) AT&T DIPLEXER TO REMAIN
KAELUS - DBC0061F1V51-2
(3 TOTAL, 1 PER SECTOR)
(E) AT&T RRH TO REMAIN
ERICSSON - RRUS-32 B30
(3 TOTAL, 1 PER SECTOR)
(E) PLATFORM MOUNT TO REMAIN
(E) AT&T ANTENNA TO REMAIN
POWERWAVE - 7770
(3 TOTAL, 1 PER SECTOR)
(E) AT&T TMA TO REMAIN
POWERWAVE - LGP-21401
(6 TOTAL, 2 PER SECTOR)
(E) AT&T ANTENNA TO BE REMOVED
ERICSSON - RRUS-11 B12
(3 TOTAL, 1 PER SECTOR)
(E) AT&T ANTENNA TO BE REMOVED
KMW - AM-X-CD-16-65-00T-RET
(3 TOTAL, 1 PER SECTOR)
(E) 180'-0" MONOPOLE TOWER
(E) AT&T RAYCAP TO REMAIN
(2 TOTAL)
(E) AT&T RRH TO REMAIN
ERICSSON - RRUS-32 B2
(3 TOTAL, 1 PER SECTOR)

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



(N) AT&T ANTENNA
CCI - OPA65R-BU6BA
(3 TOTAL, 1 PER SECTOR)
(E) RELOCATED PIPE FOR SKEW
(6 TOTAL, 2 PER SECTOR)
(N) AT&T RRH
ERICSSON - 4478 B14
(3 TOTAL, 1 PER SECTOR)
(N) AT&T RRH
ERICSSON - 4449 B5/B12
(3 TOTAL, 1 PER SECTOR)
(N) AT&T BACK TO BACK MOUNT
(6 TOTAL, 2 PER SECTOR)
(N) AT&T ANTENNA
CCI - OPA65R-BU6BA
(3 TOTAL, 1 PER SECTOR)

(E) AT&T PLATFORM MOUNT
(E) 180'-0" MONOPOLE TOWER
(N) AT&T RRH
ERICSSON - RRUS-32 B66A
(3 TOTAL, 1 PER SECTOR)
(N) AT&T RAYCAP

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

1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
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1 PUBLIC WORKS DRIVE
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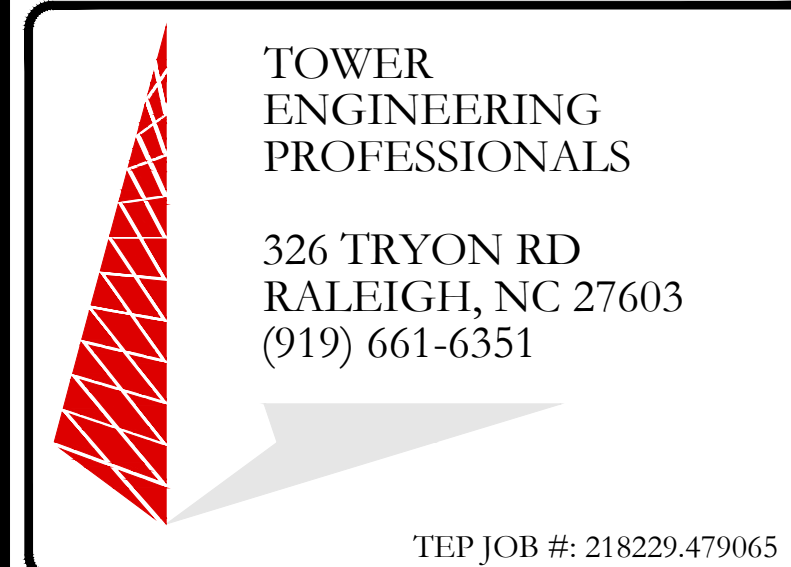
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C	02/12/21	BSE	PRELIMINARY	JTC
0	03/09/21	BSE	CONSTRUCTION	JTC
1	03/12/21	BSE	CONSTRUCTION	JTC

03/12/21

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



AT&T SITE NUMBER:
CTL05838

BU #: 876368
**YANKEE LAKEAST
HAMPTONTOWN**

1 PUBLIC WORKS DRIVE
EAST HAMPTON, CT 06424
(MIDDLESEX COUNTY)

EXISTING 180' MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES/QA
A	01/13/21	BSE	PRELIMINARY	JTC
B	01/25/21	BSE	PRELIMINARY	JTC
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0	03/09/21	BSE	CONSTRUCTION	JTC
1	03/12/21	BSE	CONSTRUCTION	JTC



03/12/21

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

FINAL EQUIPMENT SCHEDULE
(VERIFY WITH CURRENT RFDS)

ALPHA

POSITION	ANTENNA				RADIO			DIPLEXER			TMA			SURGE PROTECTION		CABLES		
	TECH.	STATUS/MANUFACTURER MODEL	AZIMUTH	RAD CENTER	QTY.	STATUS/MODEL	LOCATION	QTY.	STATUS	LOCATION	QTY.	STATUS/MANUFACTURER MODEL	QTY.	STATUS/MODEL	QTY.	STATUS/TYPE	SIZE	LENGTH
A1	UMTS 850	(E) POWERWAVE 7770	80°	167'	-	-	-	2	(E)	GROUND	2	(E) POWERWAVE - LGP-21401	-	-	2	(E) COAX	1-5/8"	219'-0"
A2	LTE 1900/WCS	(E) QUINTEL QS66512-2	80°	167'	1	(E) RRUS-32 B2	TOWER	1	(E)	TOWER	-	-	1	(E) DC6-48-60-18-8C-EV	1	(E) FIBER	3/8"	219'-0"
					1	(E) RRUS-32 B30	TOWER	1	(E)	GROUND	2	(E) DC			3/4"	219'-0"		
A3	LTE 700/AWS	(N) CCI OPA65R-BU6BA	80°	167'	1	(N) 4478 B14	TOWER	-	-	-	-	-	-	-	-	-	-	-
					1	(N) RRUS-32 B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
A4	LTE 700/850/5G 850	(N) CCI DMP65R-BU6DA	80°	167'	1	(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-

BETA

B1	UMTS 850	(E) POWERWAVE 7770	200°	167'	-	-	-	2	(E)	GROUND	2	(E) POWERWAVE - LGP-21401	-	-	2	(E) COAX	1-5/8"	219'-0"
B2	LTE 1900/WCS	(E) QUINTEL QS66512-2	200°	167'	1	(E) RRUS-32 B2	TOWER	1	(E)	TOWER	-	-	1	(E) DC6-48-60-18-8F	1	(E) FIBER	3/8"	219'-0"
					1	(E) RRUS-32 B30	TOWER	1	(E)	GROUND	2	(E) COAX			1-5/8"	219'-0"		
B3	LTE 700/AWS	(N) CCI OPA65R-BU6BA	200°	167'	1	(N) 4478 B14	TOWER	-	-	-	-	-	-	-	-	-	-	-
					1	(N) RRUS-32 B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
B4	LTE 700/850/5G 850	(N) CCI DMP65R-BU6DA	200°	167'	1	(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-

GAMMA

C1	UMTS 850	(E) POWERWAVE 7770	330°	167'	-	-	-	2	(E)	GROUND	2	(E) POWERWAVE - LGP-21401	-	-	2	(E) COAX	1-5/8"	219'-0"
C2	LTE 1900/WCS	(E) QUINTEL QS66512-2	330°	167'	1	(E) RRUS-32 B2	TOWER	1	(E)	TOWER	-	-	1	(N) DC6-48-60-18-8C-EV	2	(N) #6AWG DC	3/4"	219'-0"
					1	(E) RRUS-32 B30	TOWER	1	(E)	GROUND	2	(E) COAX			1-5/8"	219'-0"		
C3	LTE 700/AWS	(N) CCI OPA65R-BU6BA	330°	167'	1	(N) 4478 B14	TOWER	-	-	-	-	-	-	-	-	-	-	-
					1	(N) RRUS-32 B66A	TOWER	-	-	-	-	-	-	-	-	-	-	-
C4	LTE 700/850/5G 850	(N) CCI DMP65R-BU6DA	330°	167'	1	(N) 4449 B5/B12	TOWER	-	-	-	-	-	-	-	-	-	-	-

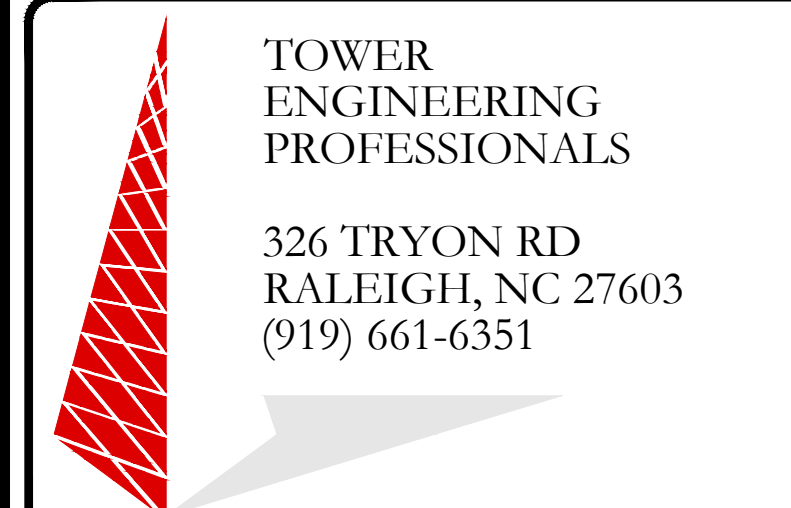
NOTE:
(E) - EXISTING
(N) - NEW



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430



TOWER
ENGINEERING
PROFESSIONALS

326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 218229.479065

AT&T SITE NUMBER:
CTL05838

BU #: 876368
**YANKEE LAKEAST
HAMPTONTOWN**

1 PUBLIC WORKS DRIVE
EAST HAMPTON, CT 06424
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EXISTING 180' MONOPOLE

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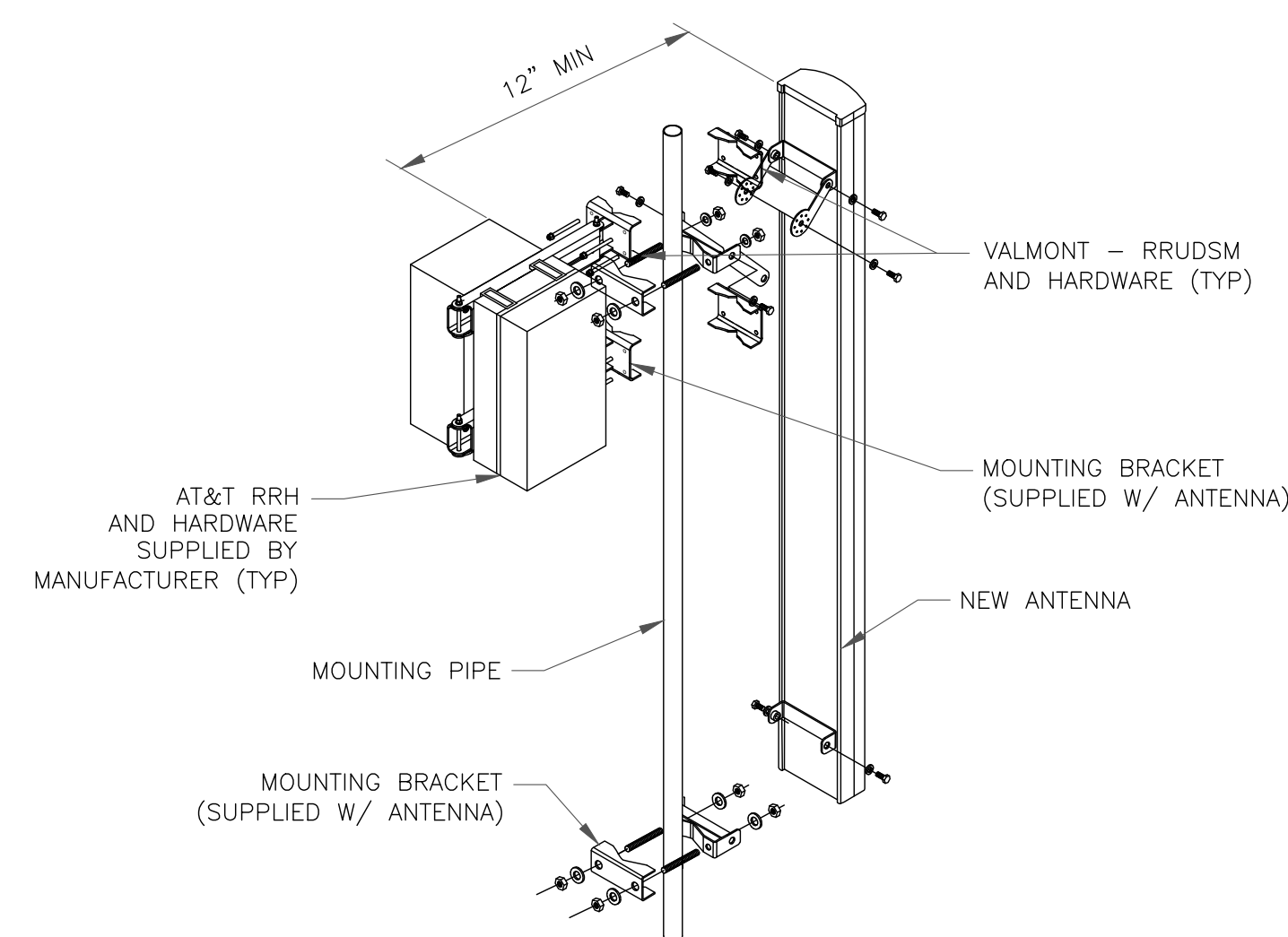
03/12/21

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SHEET NUMBER: C-4	REVISION: 1
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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.

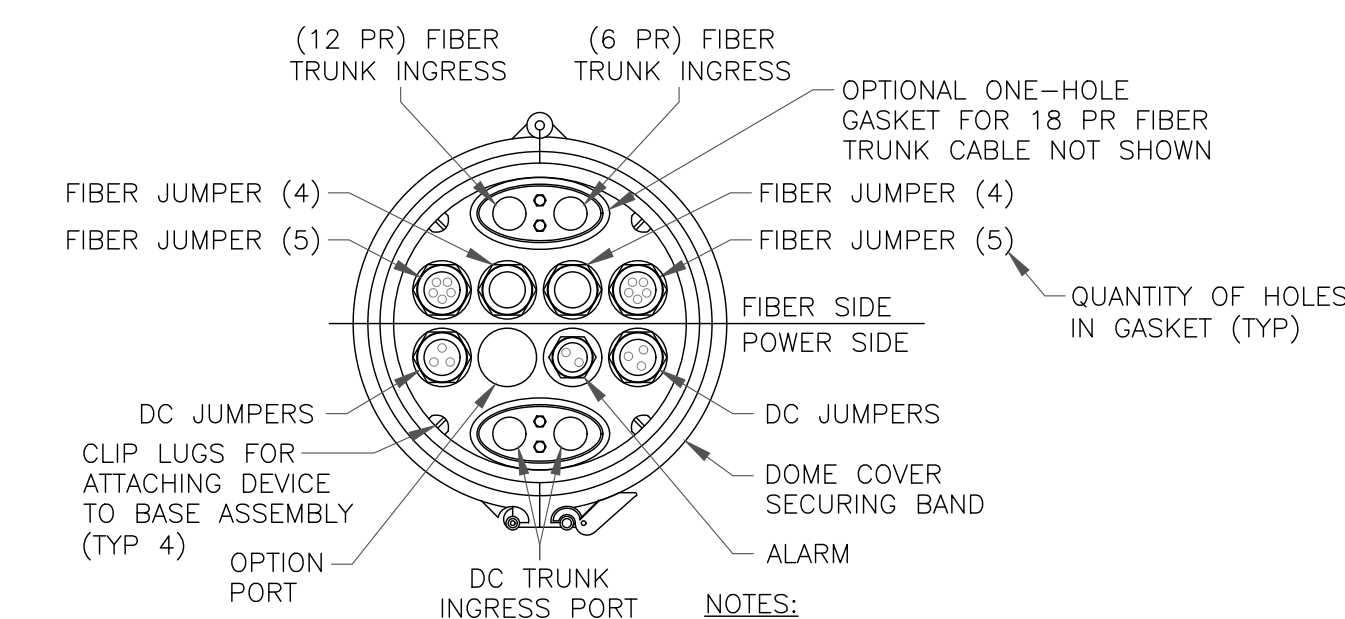
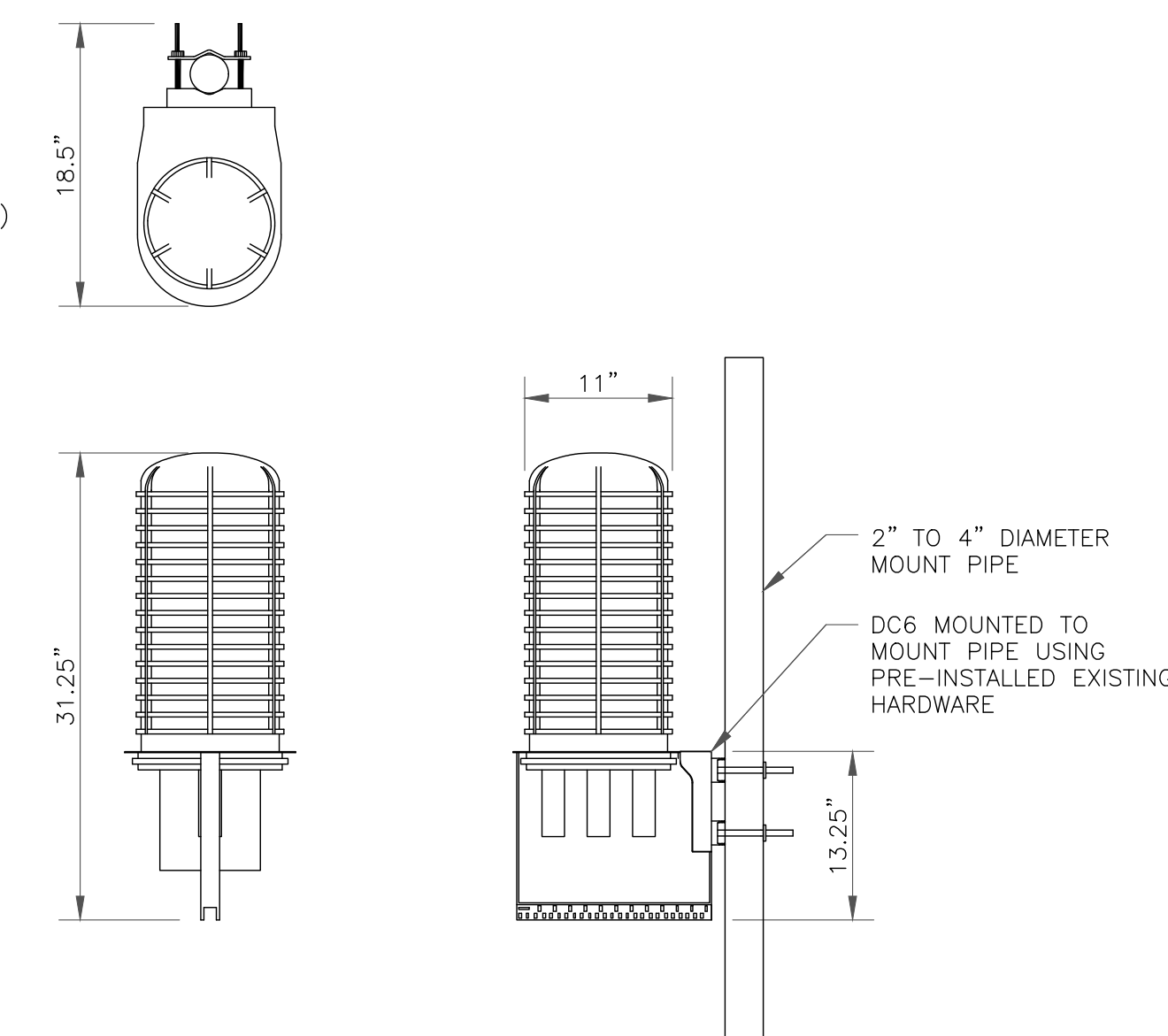


1 ANTENNA WITH RRHs MOUNTING DETAIL
SCALE: NOT TO SCALE

RAYCAP
DC6-48-60-18-8C-EV

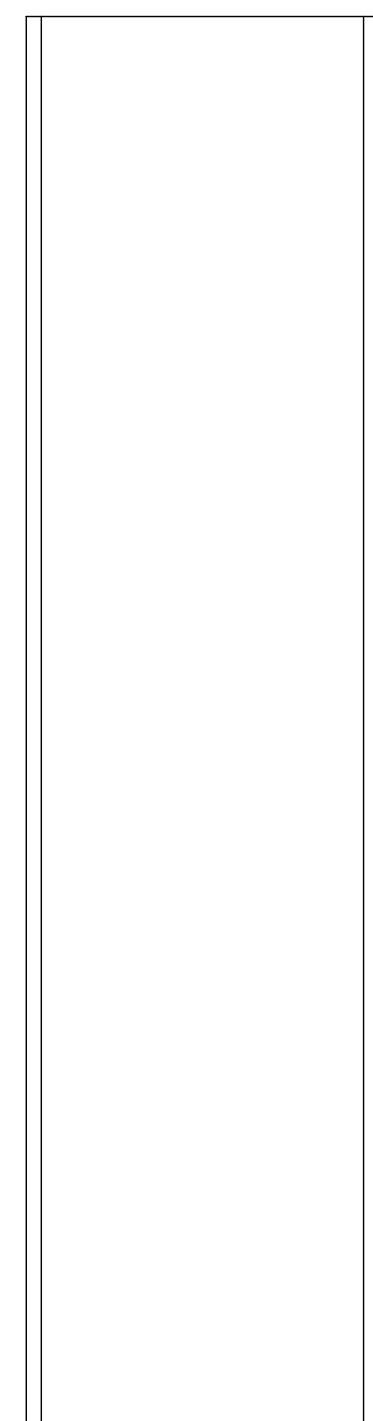
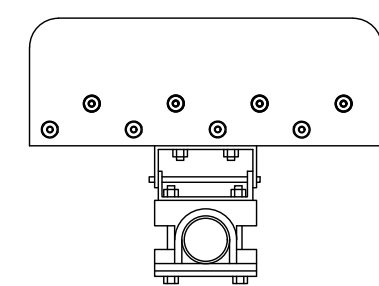
RAYCAP - DC6-48-60-18-8C-EV
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 400 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

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



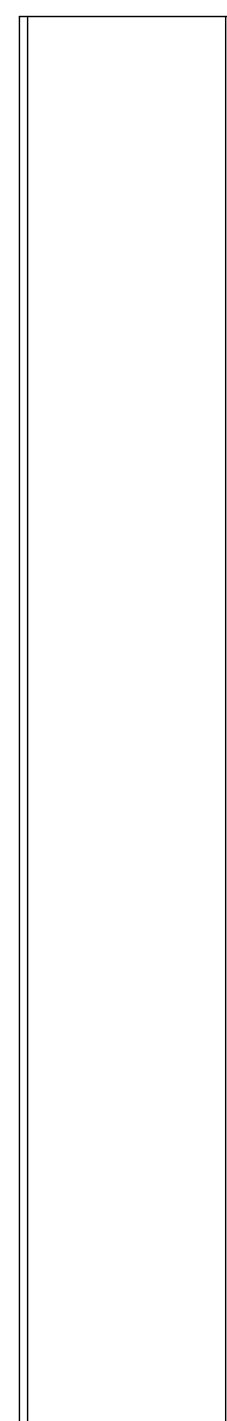
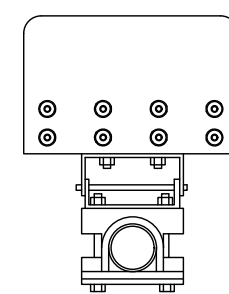
- NOTES:**
1. REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC-TO-1\"/>

2 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE



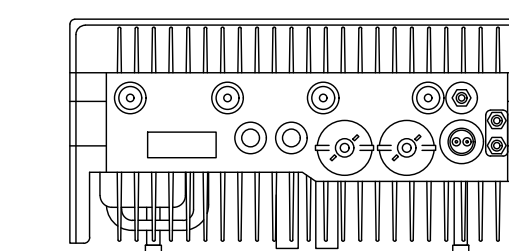
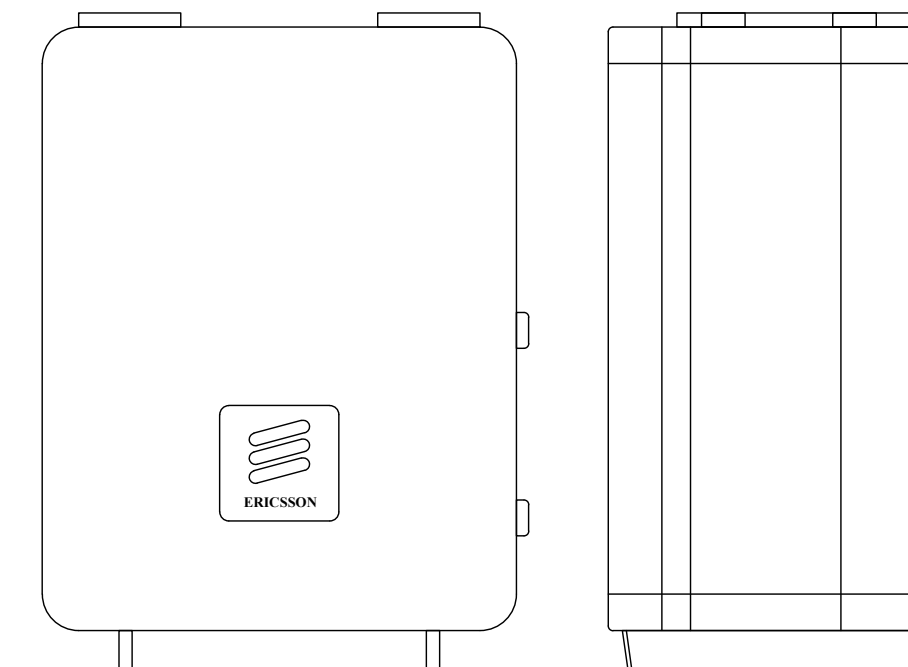
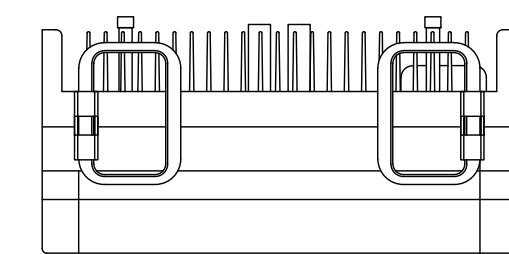
CCI - DMP65R-BU6DA
WEIGHT (WITHOUT MOUNTING HARDWARE): 96.0 LBS
SIZE (HxWxD): 71.20x20.7x7.70 IN.

1 CCI - DMP65R-BU6DA
SCALE: NOT TO SCALE



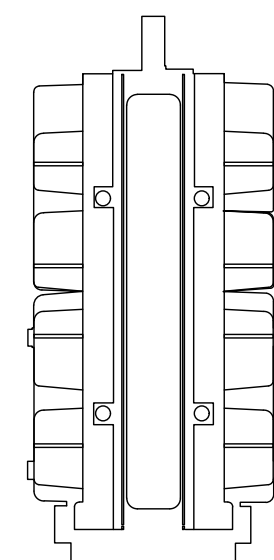
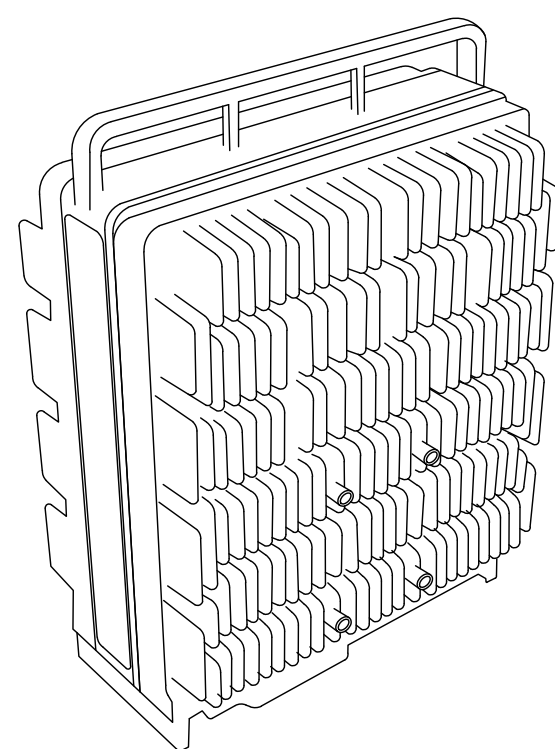
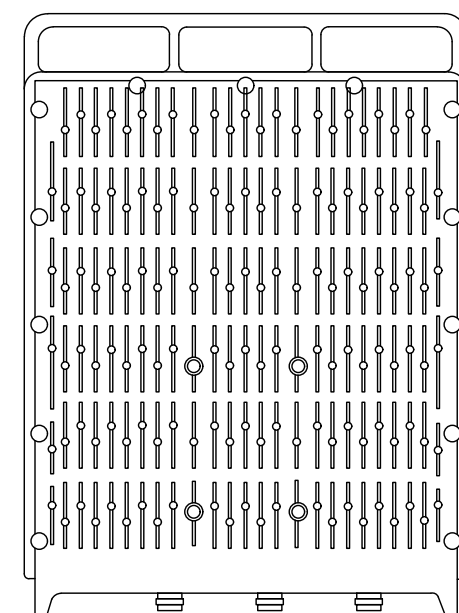
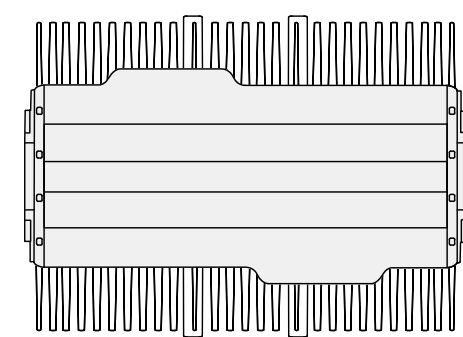
CCI - OPA65R-BU6BA
WEIGHT (WITHOUT MOUNTING HARDWARE): 55.0 LBS
SIZE (HxWxD): 71.10x11.7x8.40 IN.

2 CCI - OPA65R-BU6BA
SCALE: NOT TO SCALE



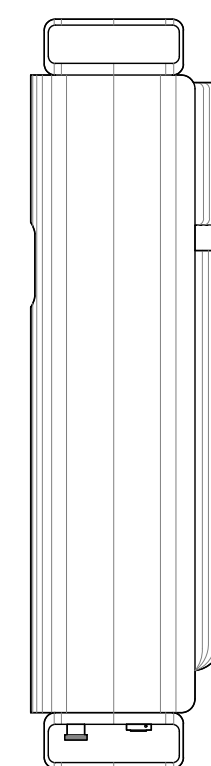
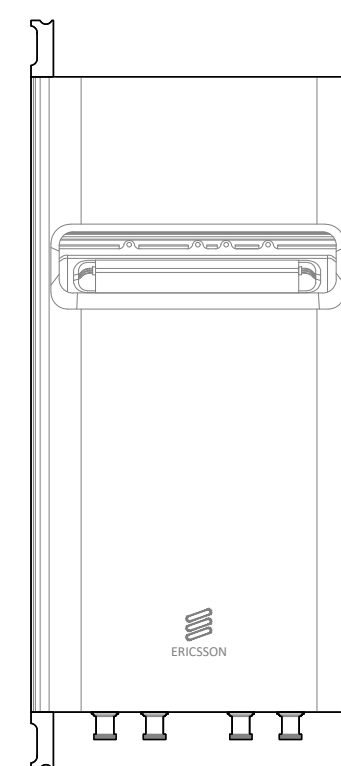
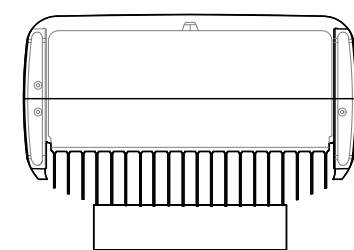
ERICSSON - RADIO 4478 B14
WEIGHT: 59.9 LBS
SIZE (HxWxD): 16.50x13.40x7.70 IN.

3 ERICSSON - RADIO 4478 B14
SCALE: NOT TO SCALE



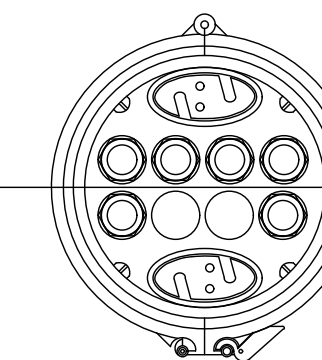
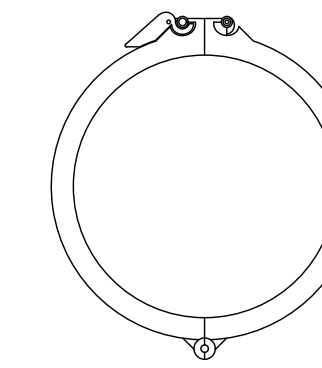
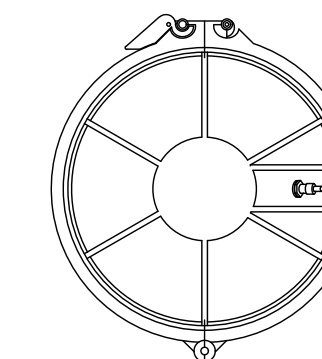
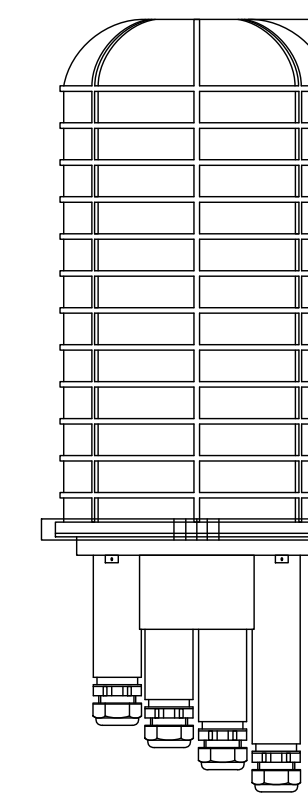
ERICSSON - RADIO 4449 B5/B12
WEIGHT: 71.0 LBS
SIZE (HxWxD): 17.90x13.19x9.44 IN.

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



ERICSSON - RRUS-32 B66A
WEIGHT: 55.12 LBS
SIZE (HxWxD): 27.60x12.45x7.41 IN.

5 ERICSSON - RRUS-32 B66A
SCALE: NOT TO SCALE



RAYCAP - DC6-48-60-18-8C-EV
WEIGHT: 32.80 LBS
SIZE (HxWxD): 31.25x11.0x11.0 IN.

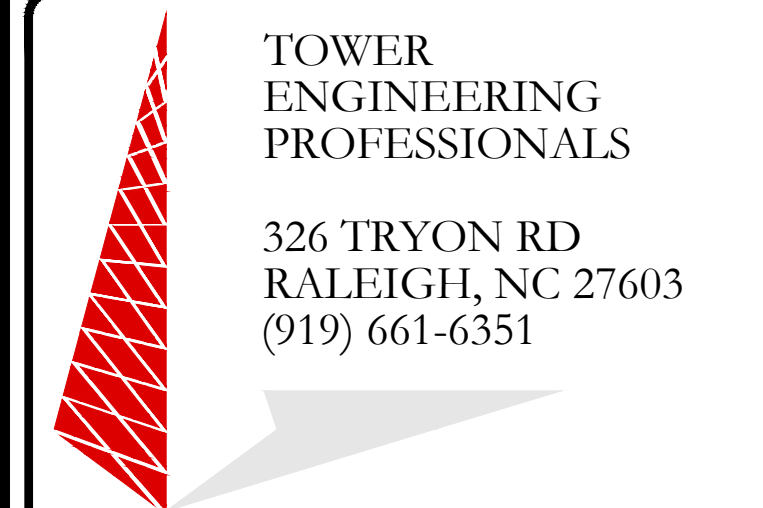
6 RAYCAP - DC6-48-60-18-8C-EV
SCALE: NOT TO SCALE



575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430



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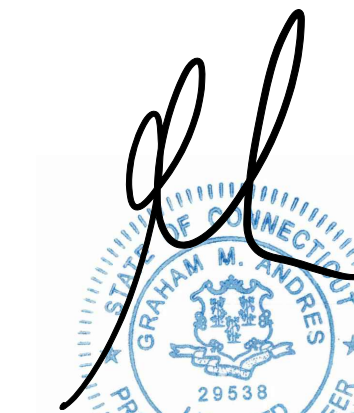
BU #: 876368
**YANKEE LAKEAST
HAMPTONTOWN**

1 PUBLIC WORKS DRIVE
EAST HAMPTON, CT 06424
(MIDDLESEX COUNTY)

EXISTING 180' MONOPOLE

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03/12/21

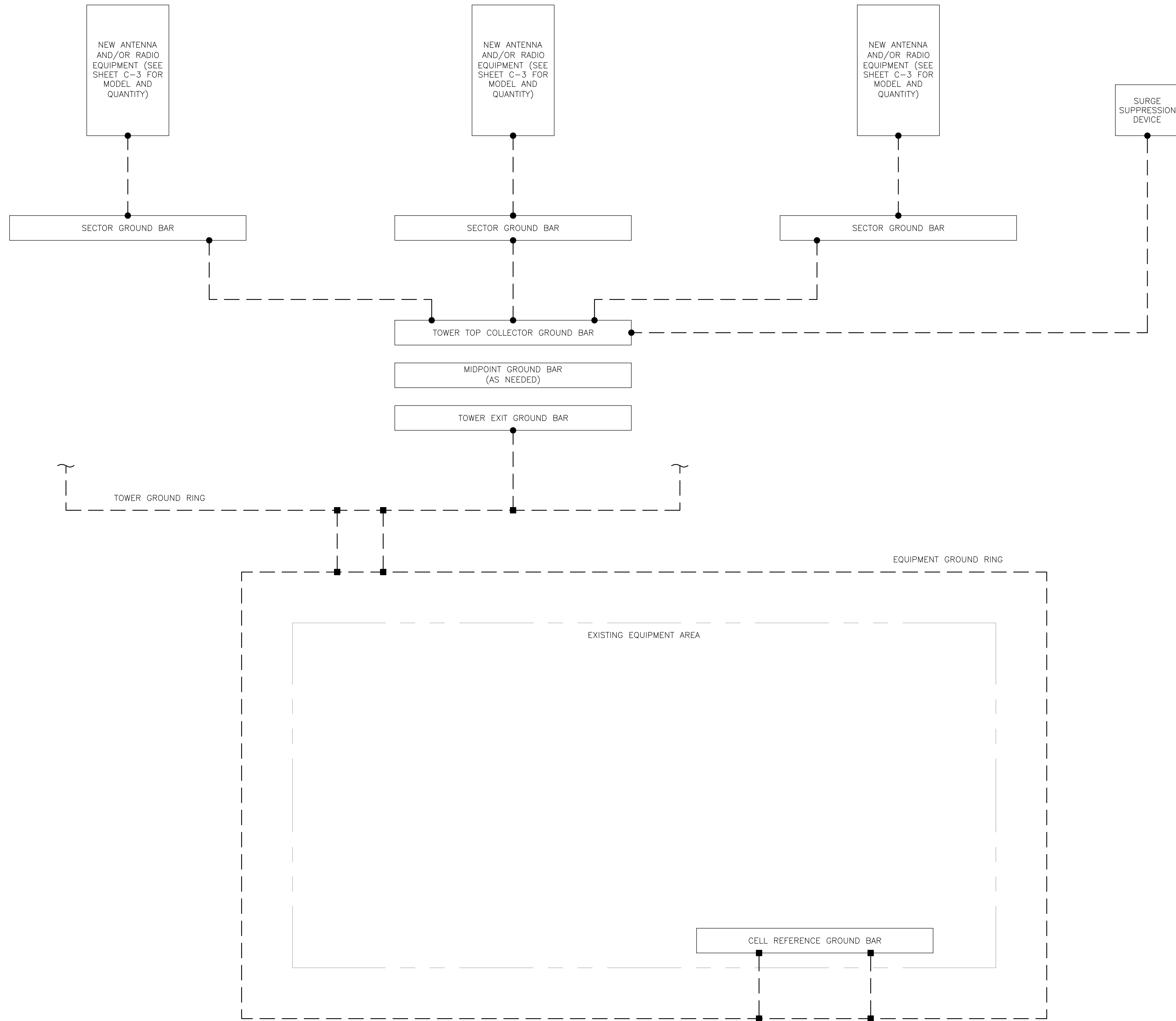
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SHEET NUMBER:

C-5

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

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HAMPTONTOWN

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EXISTING 180' MONOPOLE

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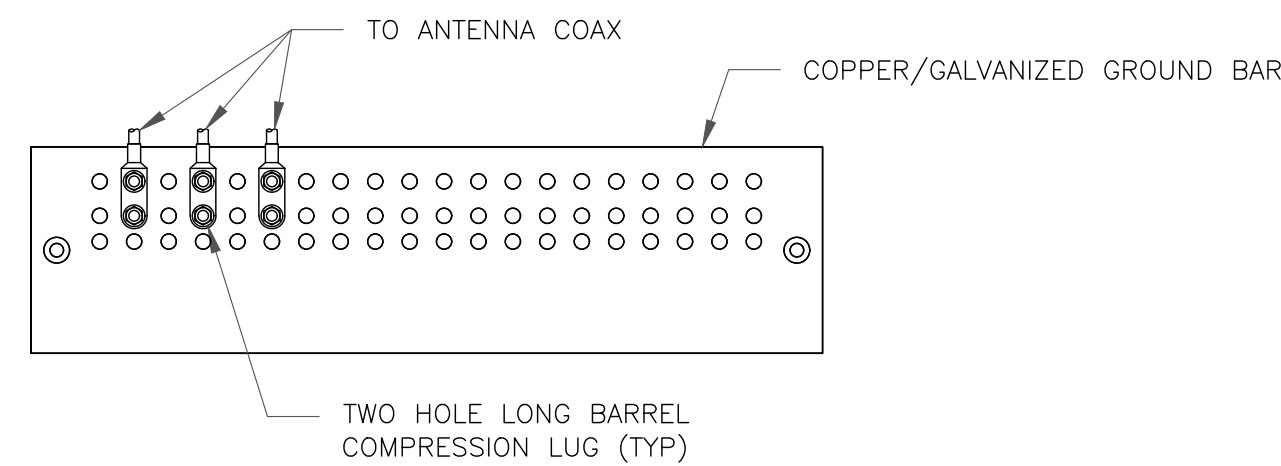
03/12/21

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1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

SHEET NUMBER:
G-1

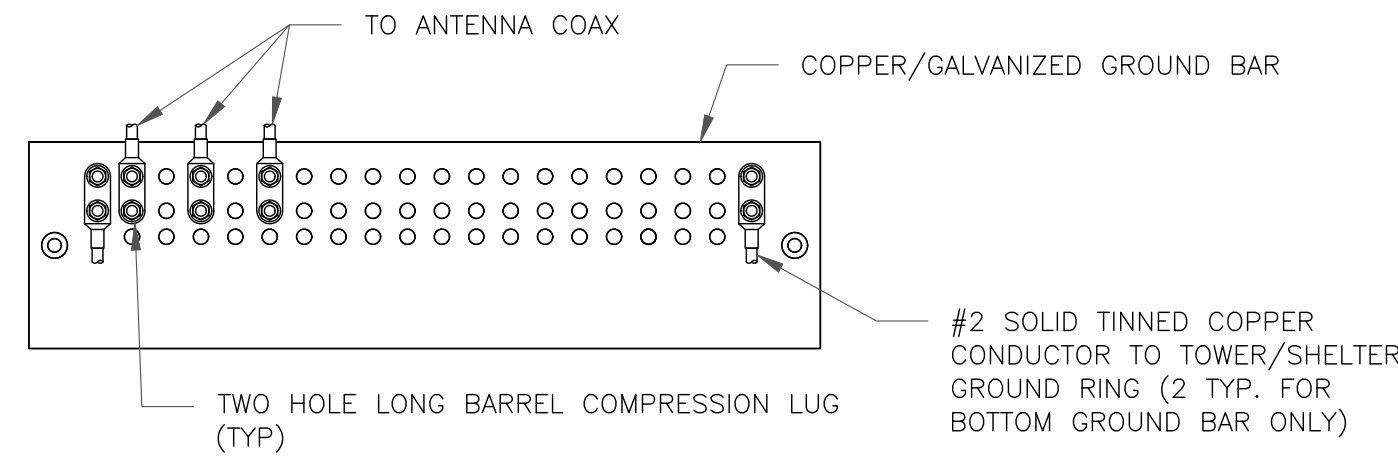
REVISION:
1



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

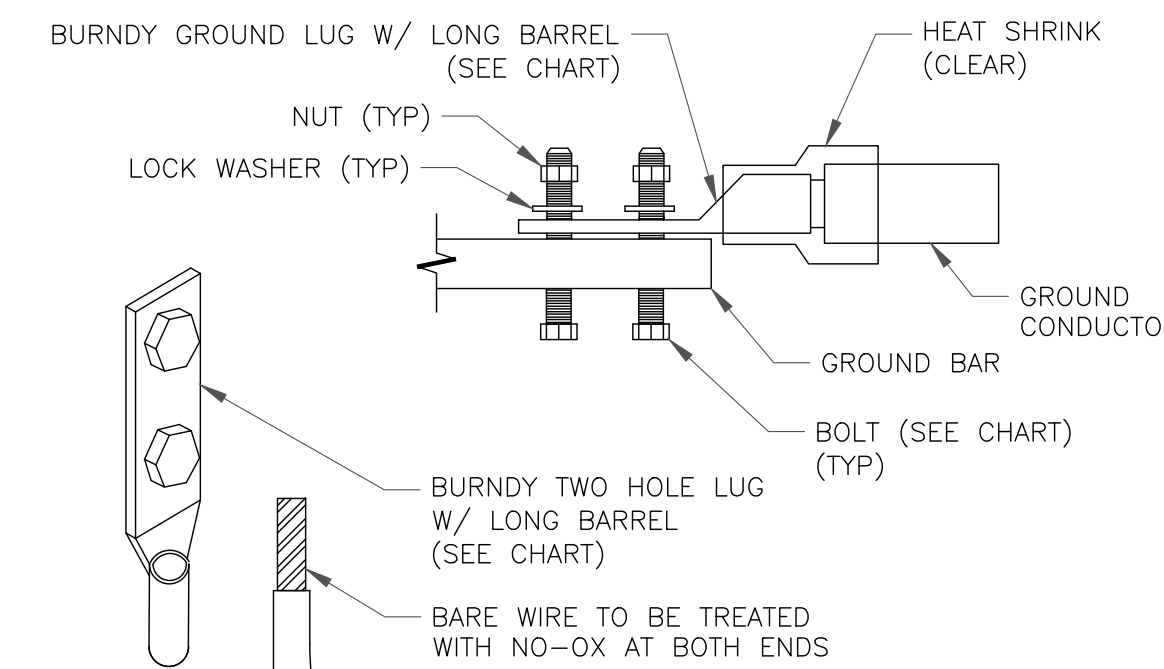


NOTES:

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

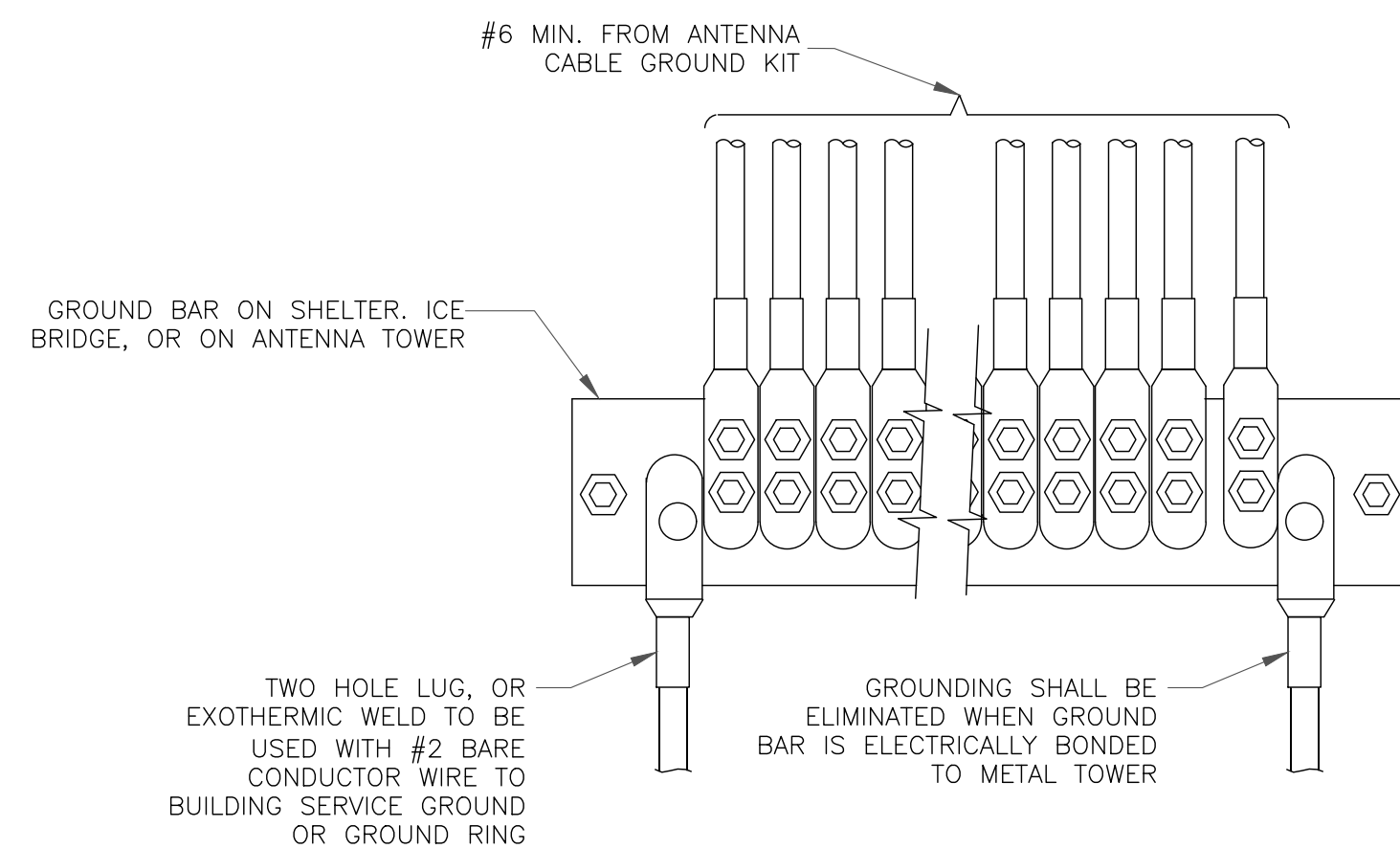
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC38	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC38	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC38	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT



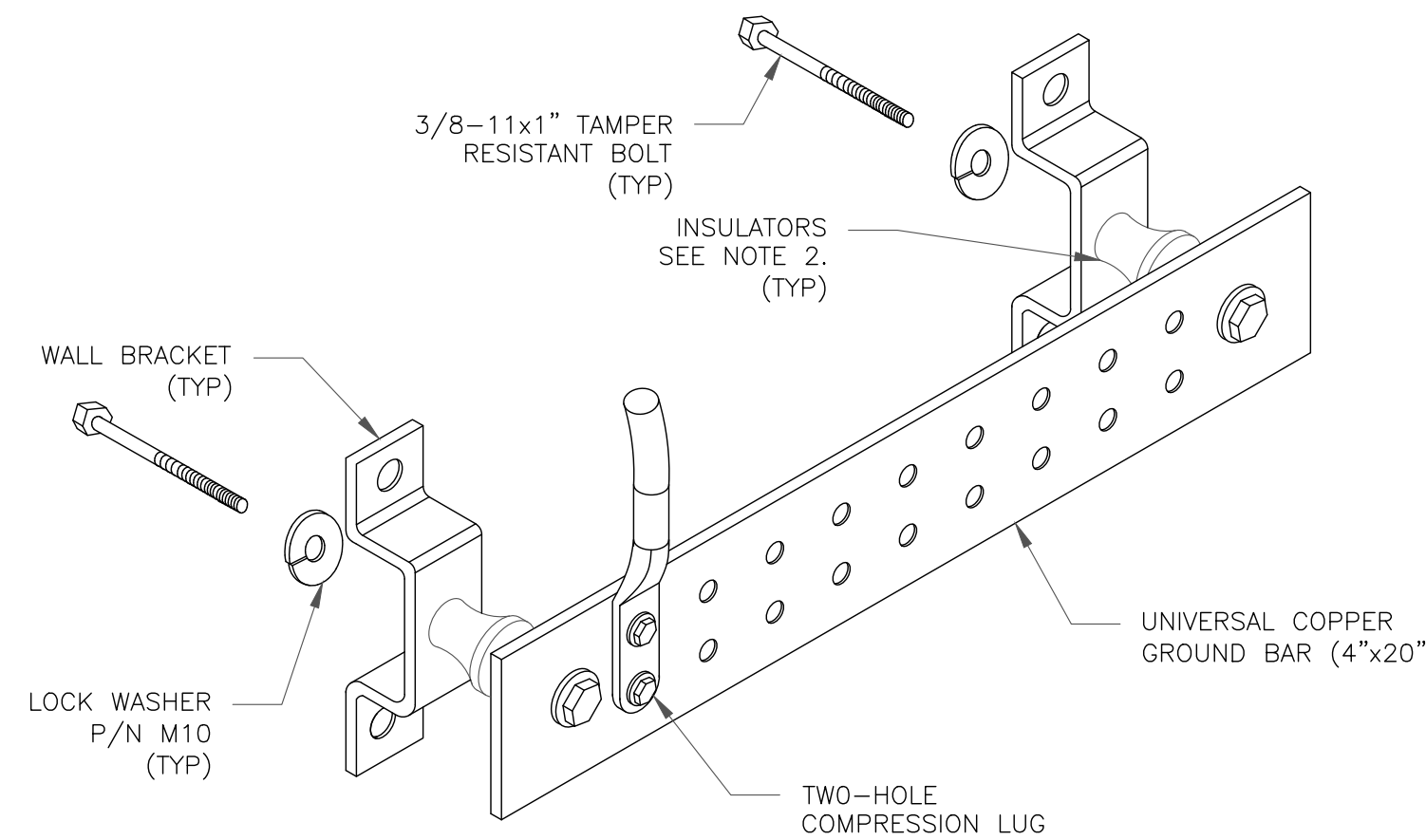
NOTE:

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

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



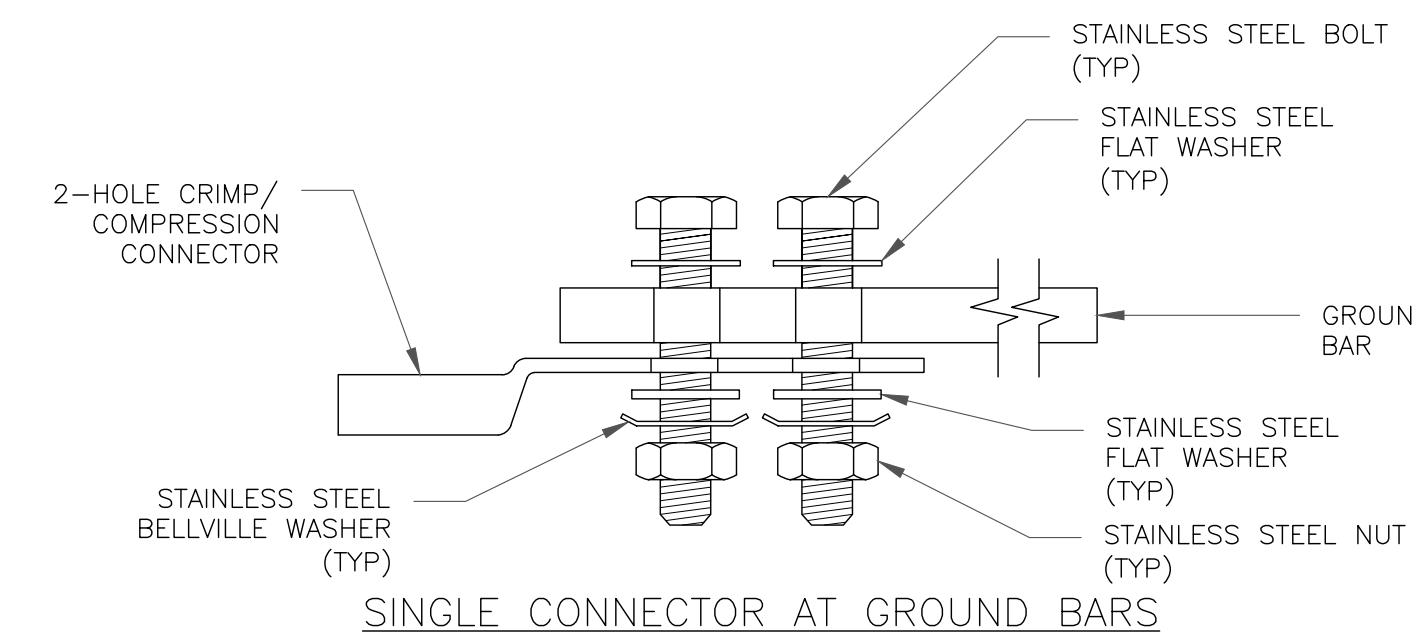
4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



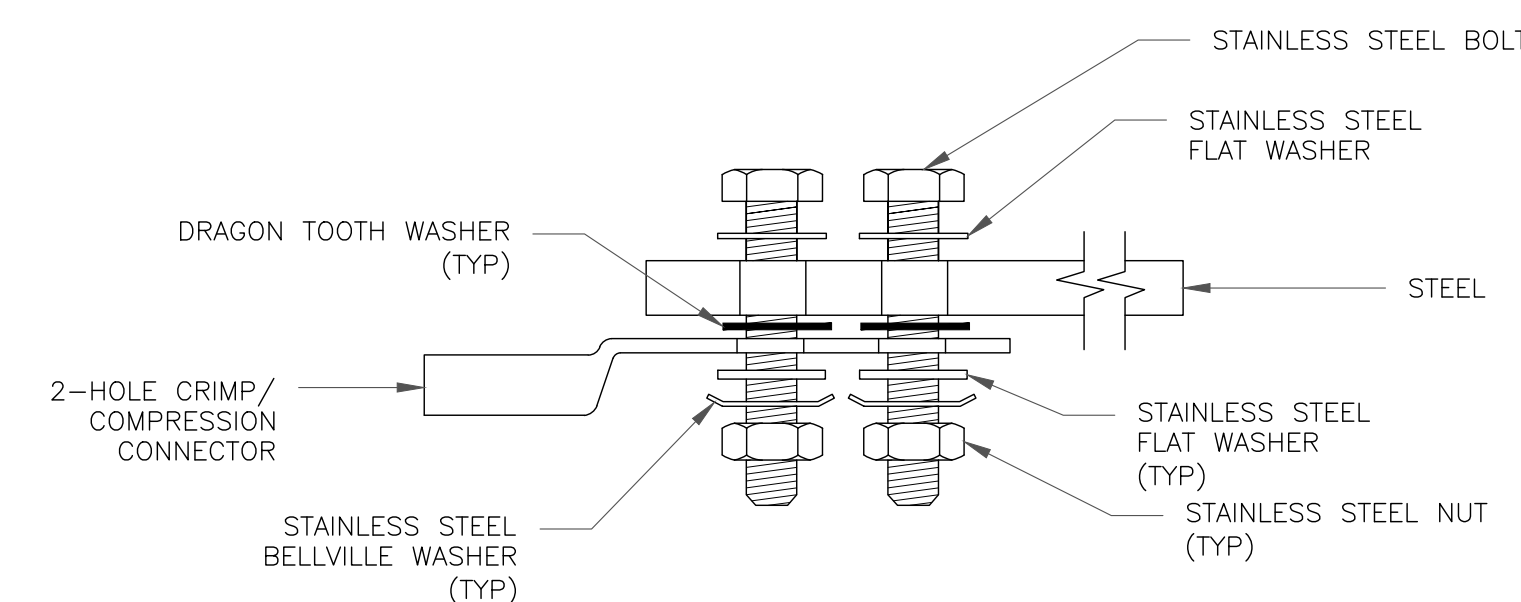
NOTES:

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.

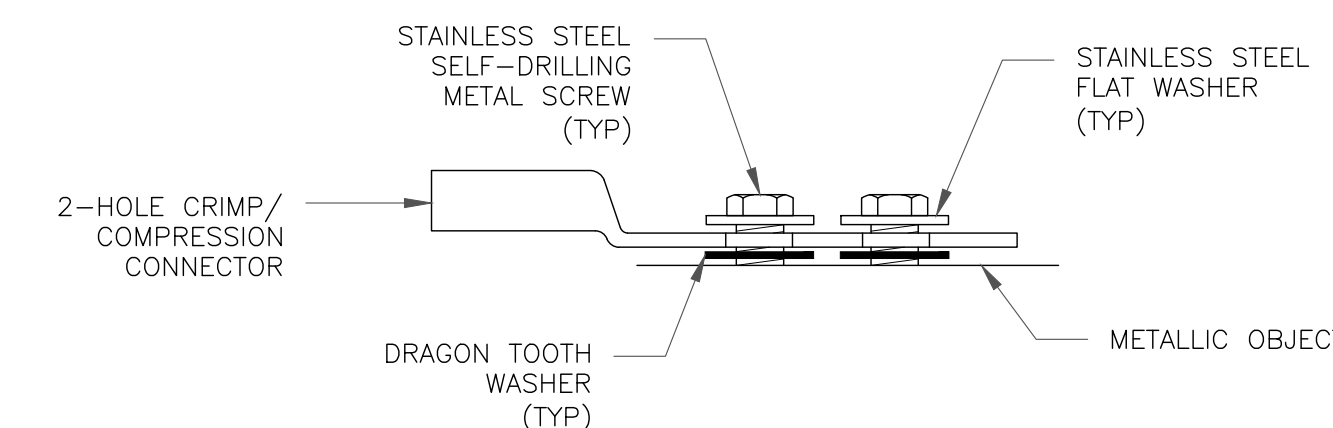
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

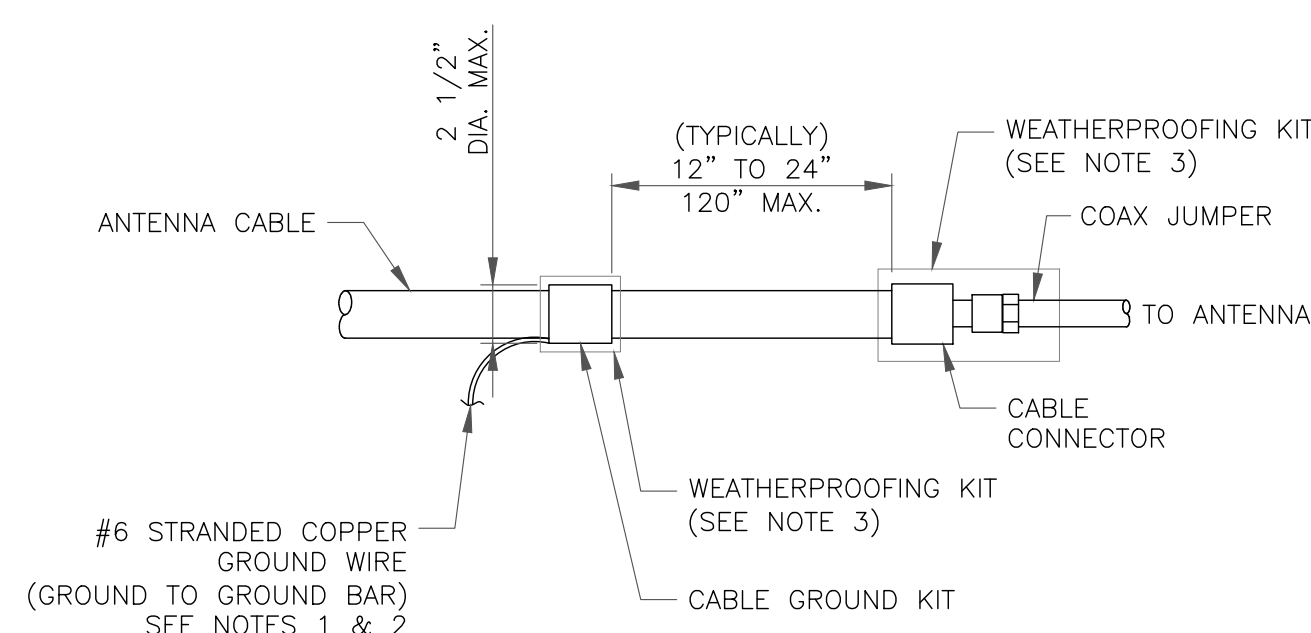


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

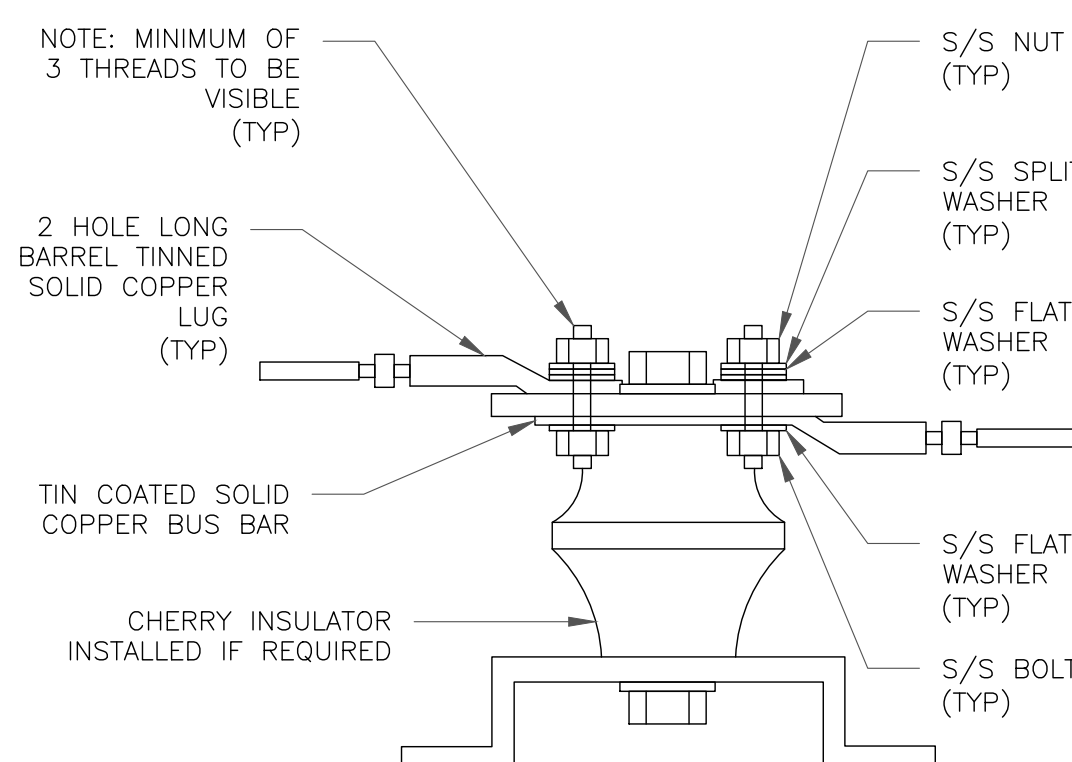
8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



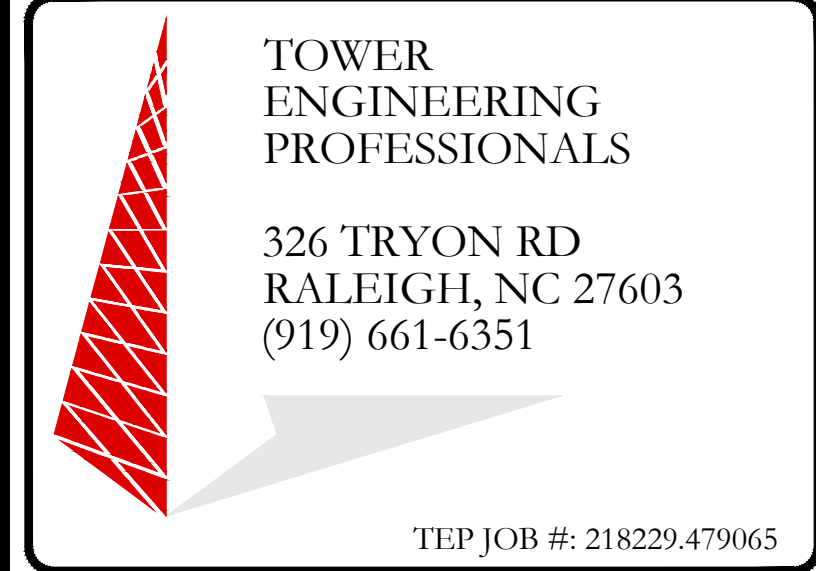
NOTES:

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



AT&T SITE NUMBER:
CTL05838

BU #: 876368
YANKEE LAKEAST HAMPTONTOWN

1 PUBLIC WORKS DRIVE
EAST HAMPTON, CT 06424
(MIDDLESEX COUNTY)

EXISTING 180' MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/13/21	BSE	PRELIMINARY	JTC
B	01/25/21	BSE	PRELIMINARY	JTC
C	02/12/21	BSE	PRELIMINARY	JTC
0	03/09/21	BSE	CONSTRUCTION	JTC
1	03/12/21	BSE	CONSTRUCTION	JTC



03/12/21

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: **G-2** REVISION: **1**

