

From: Tristen Spear <tspear@clinellc.com>
Sent: Thursday, February 16, 2023 2:46 PM
To: CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: David Ford <dford@clinellc.com>
Subject: RE: 1825 South Main St (EM-CING-083-220517)

Good afternoon,

Please see the attached as built CDs and sector overview photos. Only 3 antennas were installed per sector as opposed to the originally proposed 4 antennas per sector.

Thank you,
Tristen



Tristen Spear | Project Coordinator

95 Ryan Drive, Suite 1

Raynham, MA 02767

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tspear@clinellc.com | www.centerlinecommunications.com

PROJECT INFORMATION

SCOPE OF WORK: ITEMS TO BE MOUNTED ON THE EXISTING MONOPOLE:

- NEW AT&T ANTENNAS: TPA65R-BU6DA-K (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6419 B77G (TYP. OF 1 PER SECTOR, TOTAL OF 3)(TOP).
- NEW AT&T ANTENNAS: AIR6449 B77D (TYP. OF 1 PER SECTOR, TOTAL OF 3)(BOTTOM).
- NEW AT&T ANTENNAS: DMP65R-BU6DA (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS: 4449 B5/B12 (700) (ADD "Y" CABLE) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS: 8843 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS: 4478 B14 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T SURGE ARRESTOR: DC6-48-60-18-8F (TOTAL OF 2).
- NEW AT&T (4) 6AWG DC POWER & (2) 18 PAIRS OF FIBER TRUNKS.
- INSTALL (6) Y-CABLES

ITEMS TO BE MOUNTED IN EQUIPMENT LOCATION:

- INSTALL (2) FIBER BOXES ON ICE BRIDGE POST.
- INSTALL (1) BATTERY RACK WITH (3) STRINGS OF 180AH BATTERIES.
- INSTALL (1) DC12 & (2) FIBER TRAYS IN EXISTING RACK.
- INSTALL (4) -48V RECTIFIERS FOR A TOTAL OF (10) -48V RECTIFIERS
- ADD 6648 FHG + XCEDE CABLE
- ADD (1) NEW 6630 + IDLE CABLE
- FINAL 1X6601/1X5216/1XXMU03 || XXXXX/2X6630 MIXED-MODE/XXXXX+IDLe/6648+XCEDE

ITEMS TO BE REMOVED:

- EXISTING AT&T ANTENNA: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNA: AM-X-CD-16-65-00T-RET (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNA: HPA-65R-BUU-H6 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUS-11 B12 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUS-32 B2 (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- EXISTING AT&T TMAS: LGP 21901 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T (12) 1-5/8" COAX CABLES.

ITEMS TO REMAIN:

- (1) SURGE ARRESTOR, (2) DC POWER & (1) FIBER.

SITE ADDRESS: 1825 SOUTH MAIN STREET
MIDDLETOWN, CT 06457

LATITUDE: 41.5112231° N, 41° 30' 40.40" N
LONGITUDE: -72.6707431° W, 72° 40' 14.67" W
TYPE OF SITE: MONOPOLE TOWER / INDOOR EQUIPMENT
STRUCTURE HEIGHT: 160'-0"±
RAD CENTER: 105'-2"±, 107'-0"± & 108'-9"±
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY



By Stephen Roth at 9:12:13 AM, 8/1/2022



Redlined - A2, A3
Centerline Communications
Tristen Spear
12/15/22 10:26 AM

SITE NUMBER: CTL01208

SITE NAME: MIDDLETOWN SO MAIN

FA CODE: 10042329

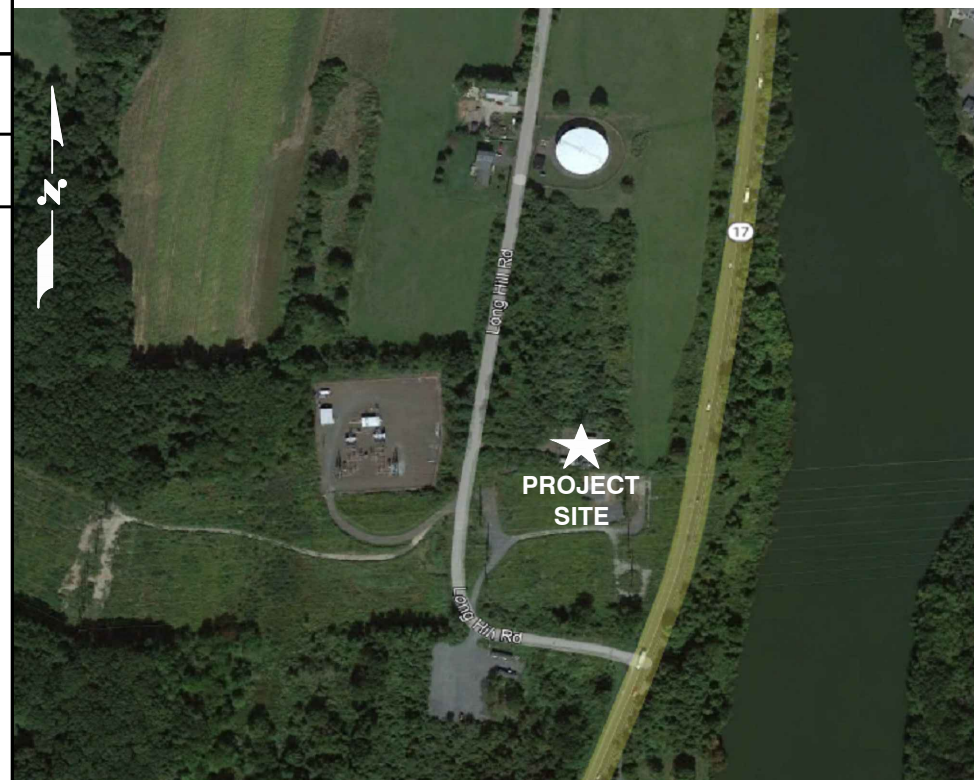
**PACE ID: MRCTB054418, MRCTB055351, MRCTB055862, MRCTB056196,
MRCTB055375, MRCTB054381, MRCTB055726, MRCTB053318**

**PROJECT: 5G NR 1DR-1 LTE 3C 5G NR RADIO, 5G NR 1SR CBAND, 4TX4RX
SOFTWARE RETRO, 2022 UPGRADE**

VICINITY MAP

DIRECTIONS TO SITE:

HEAD SOUTHEAST TOWARD CAPITAL BLVD, TURN LEFT ONTO CAPITAL BLVD, USE THE LEFT 2 LANES TO TURN LEFT ONTO STATE HWY 411, TURN LEFT TO MERGE WITH I-91 S, MERGE WITH I-91 S, TAKE EXIT 22S ON THE LEFT TO MERGE WITH CT-9 S, TOWARD MIDDLETOWN/OLD SAYBROOK, TAKE EXIT 13 FOR CT-17 S TOWARD NEW HAVEN, CONTINUE ONTO CT-17 S, PASS BY KFC (ON THE LEFT IN 0.8 MI), TURN RIGHT ONTO LONG HILL RD, DESTINATION WILL BE ON THE RIGHT.



GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLANS	1
A-2	ANTENNA LAYOUT PLANS & ELEVATION	1
A-3	DETAILS	1
A-4	DETAILS	1
G-1	GROUNDING DETAILS	1
RF-1	RF PLUMBING DIAGRAM	1

72 HOURS



CALL BEFORE YOU DIG



CALL TOLL FREE 1-800-922-4455

OR CALL 811

UNDERGROUND SERVICE ALERT

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NORTH ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01208
SITE NAME: MIDDLETOWN SO MAIN

1825 SOUTH MAIN STREET
MIDDLETOWN, CT 06457
MIDDLESEX COUNTY

500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
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SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VS



AT&T		
TITLE SHEET		
5G NR 1DR-1 LTE 3C 5G NR RADIO, 5G NR 1SR CBAND, 4TX4RX SOFTWARE RETRO		
SITE NUMBER	DRAWING NUMBER	REV
CTL01208	T-1	1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR – CENTERLINE
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER – AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. **APPLICABLE BUILDING CODES:**
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

**BUILDING CODE: IBC 2015 & MA STATE BUILDING CODE 780 CMR 9TH EDITION
 ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE (NFPA 70, 2020)**

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

**AS BUILT
 Centerline Communications
 Tristen Spear
 12/15/22 10:26 AM**

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIO CENTER LINE	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

45 BEECHWOOD DRIVE
 NORTH ANDOVER, MA 01845
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 FAX: (978) 336-5586

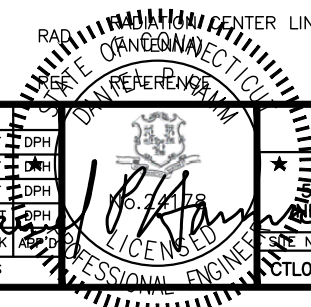
750 WEST CENTER STREET, SUITE #301
 WEST BRIDGEWATER, MA 02379

**SITE NUMBER: CTL01208
 SITE NAME: MIDDLETOWN SO MAIN**

1825 SOUTH MAIN STREET
 MIDDLETOWN, CT 06457
 MIDDLESEX COUNTY

500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

1	06/28/22	ISSUED FOR CONSTRUCTION	SG	AT	DPH
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AT&T

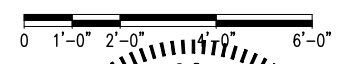
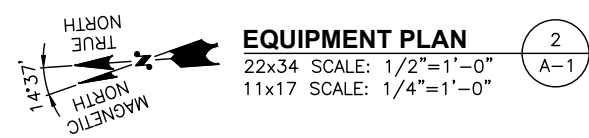
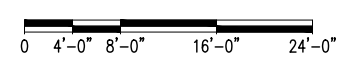
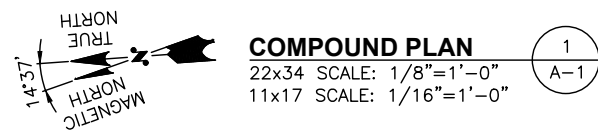
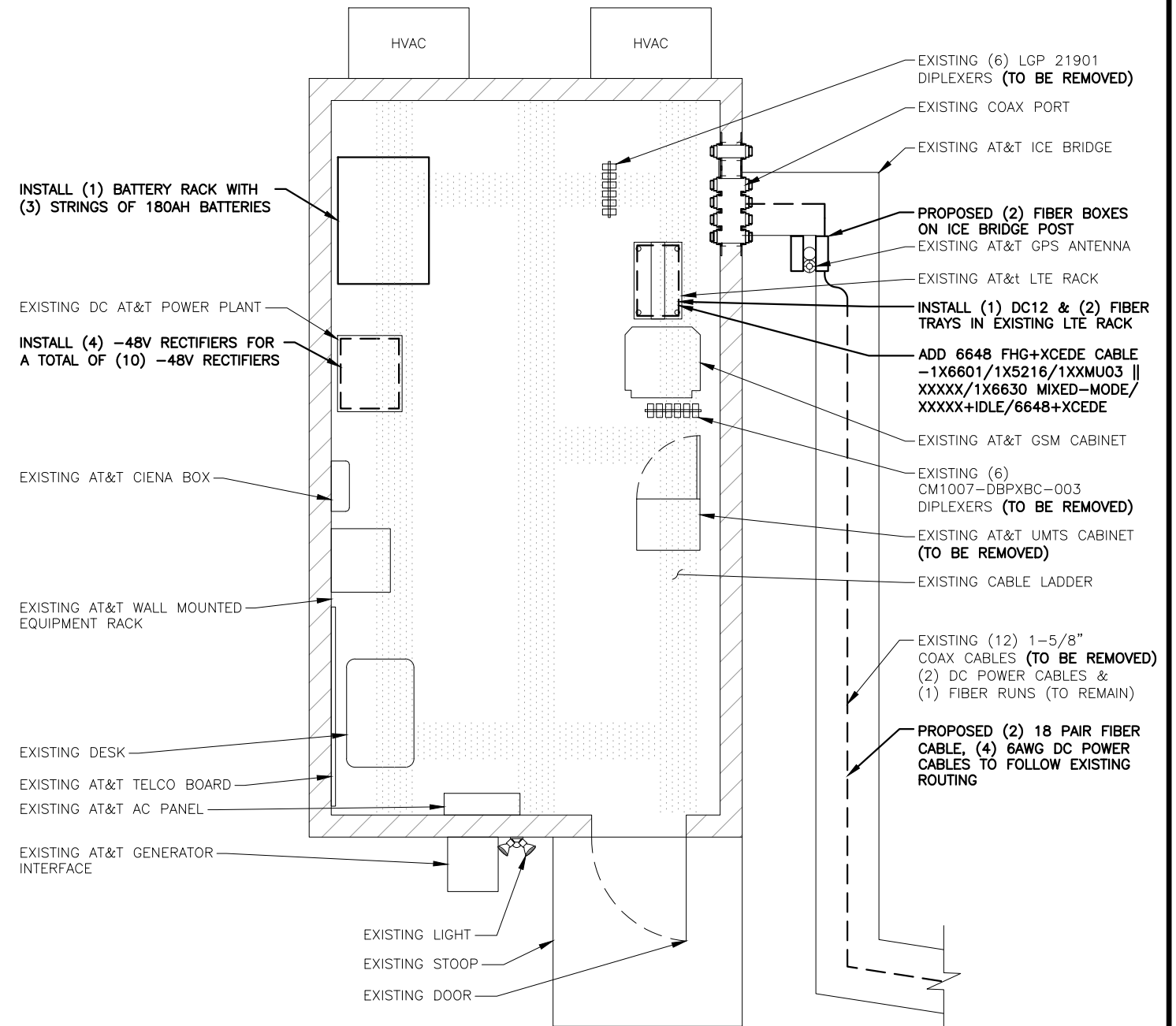
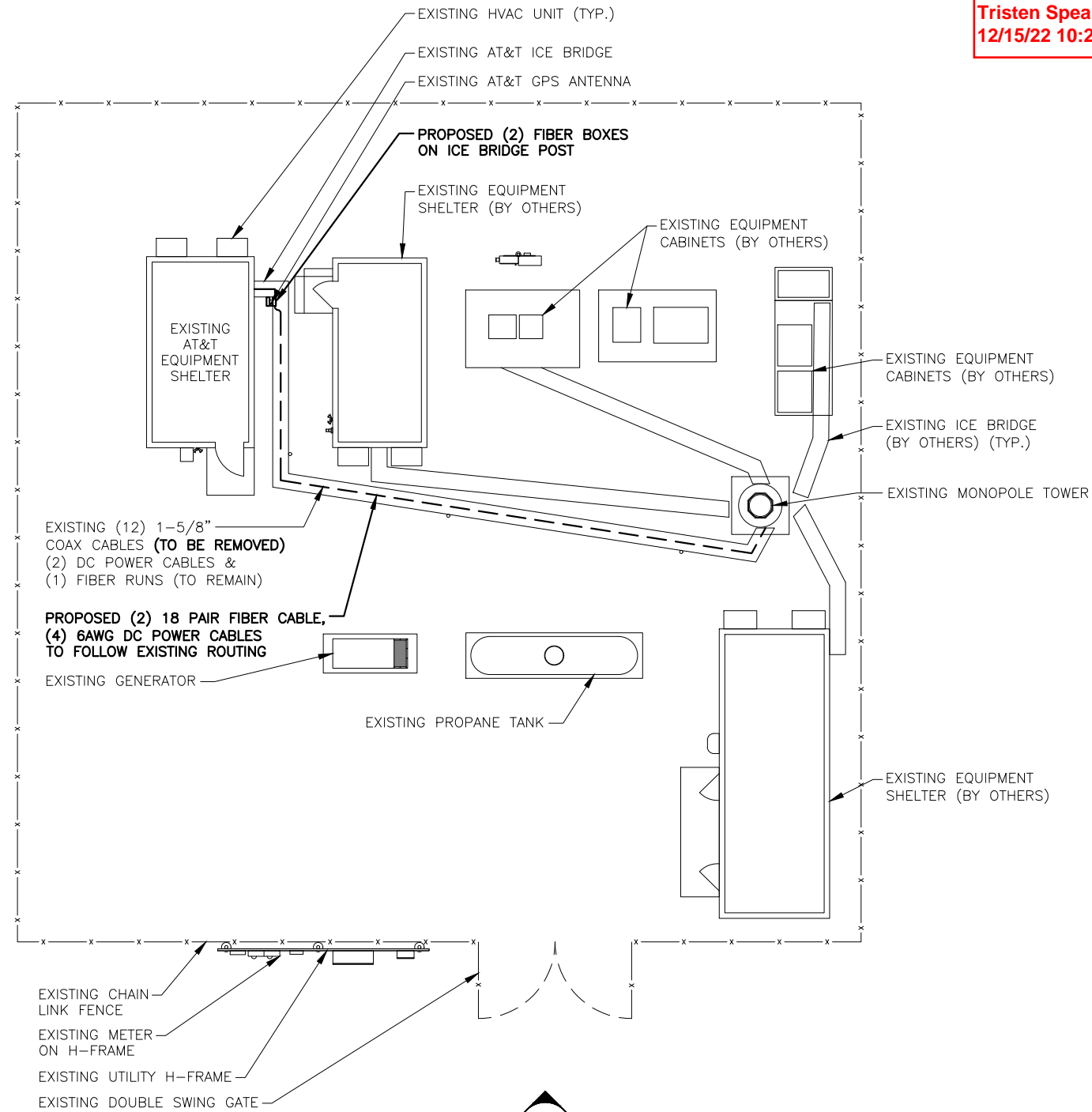
GENERAL NOTES
 5G NR 1DR-1 LTE 3C 5G NR RADIO, 5G NR 1SR CBAND, 4TX4RX SOFTWARE RETRO

SITE NUMBER	DRAWING NUMBER	REV
CTL01208	GN-1	1

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Centerline Communications
Tristen Spear
12/15/22 10:26 AM

NOTE:
 AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

NOTE:
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



HG HUDSON Design Group LLC
 45 BEECHWOOD DRIVE
 NORTH ANDOVER, MA 01845
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 FAX: (978) 336-5586

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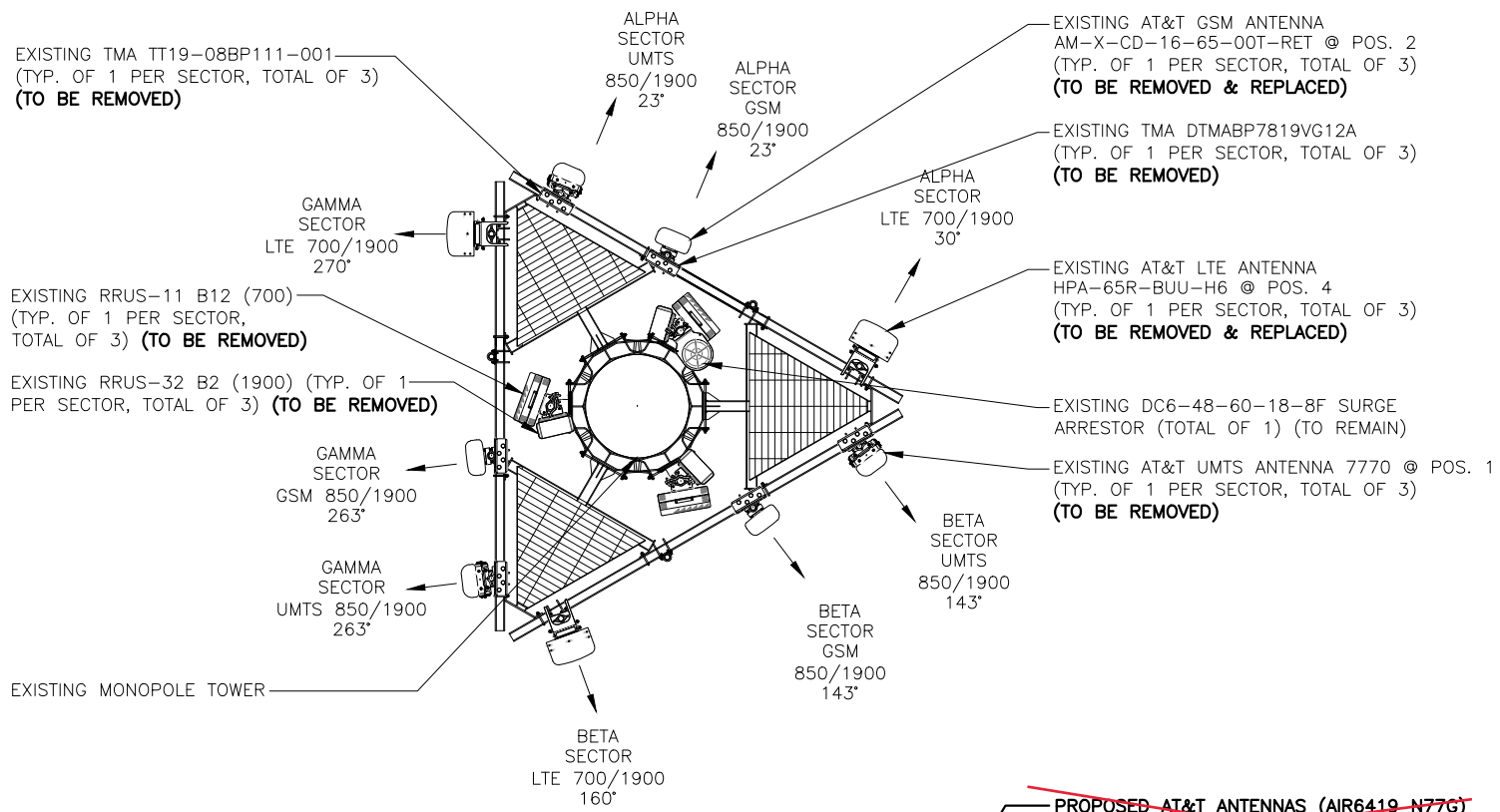
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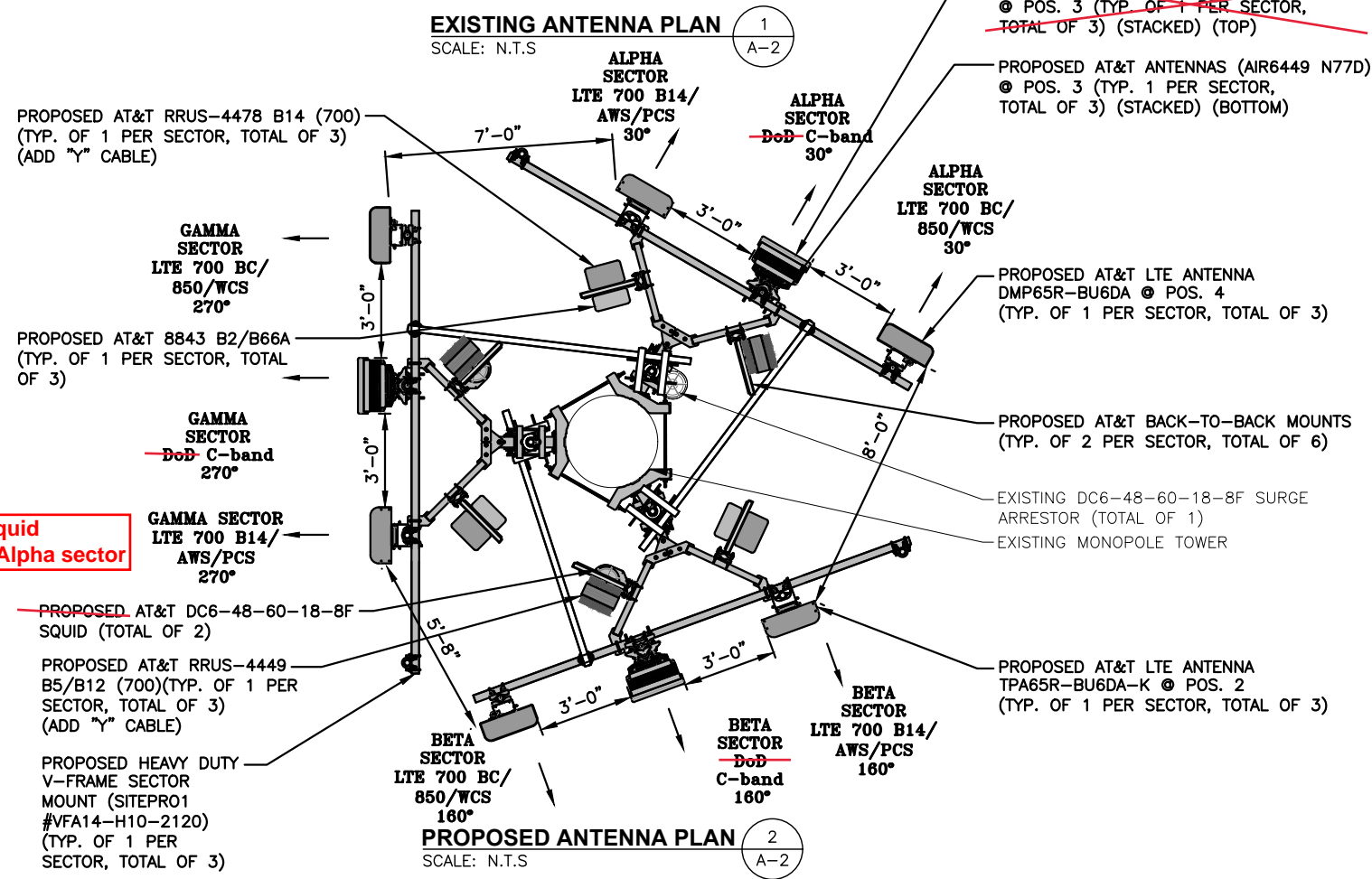
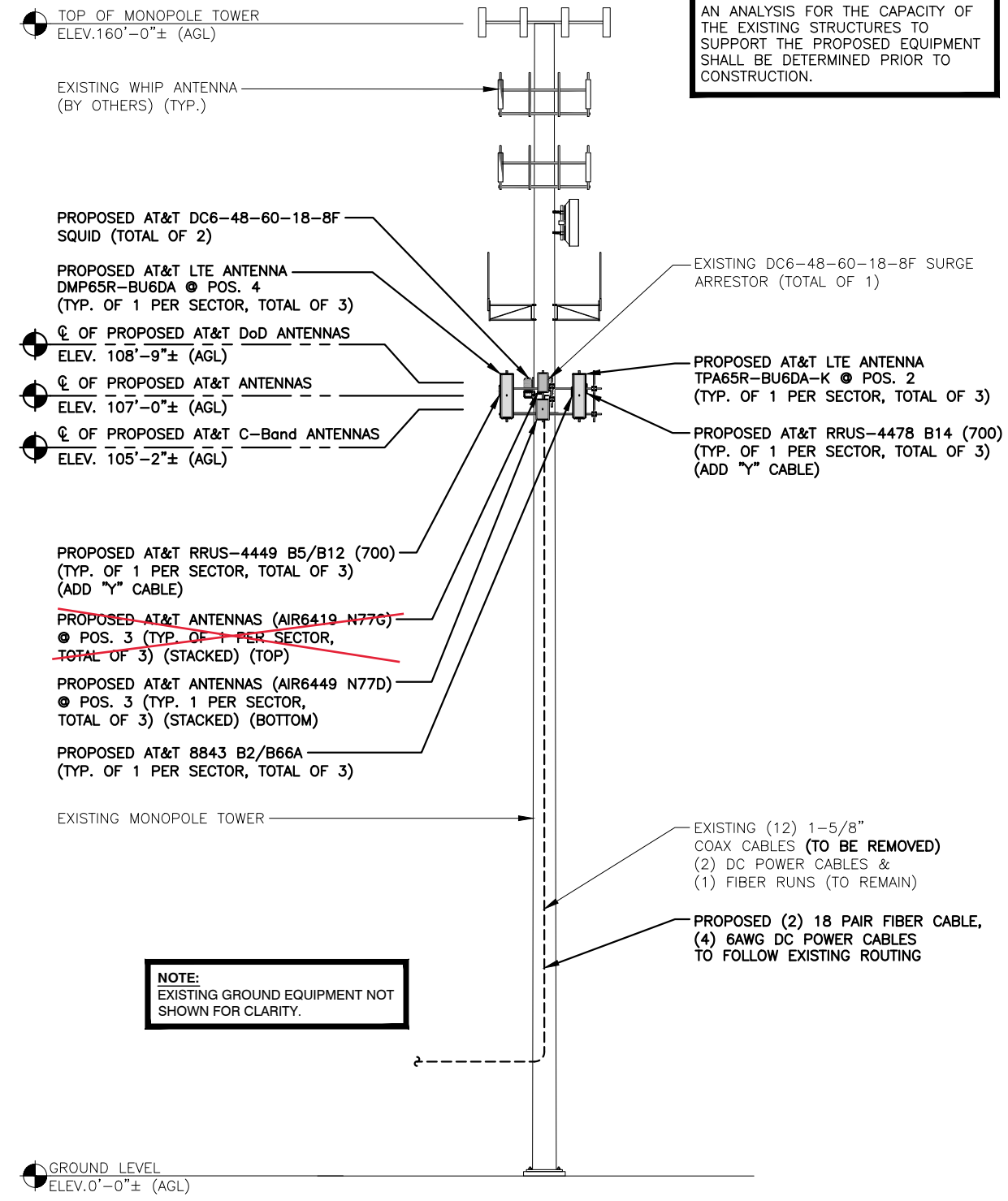
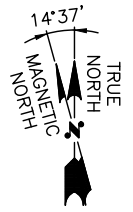
AT&T
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 SITE NUMBER: CTL01208
 DRAWING NUMBER: A-1
 REV: 1



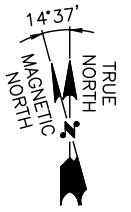
Redlined - A2, A3
Centerline Communications
Tristen Spear
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NOTE:
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Proposed squid installed in Alpha sector



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SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VS

DANIEL P. HAY
REGISTERED PROFESSIONAL ENGINEER
STATE OF CONNECTICUT
No. 21178

AT&T
★ ANTENNA LAYOUT PLANS & ELEVATION
5G NR 1DR-1 LTE 3C 5G NR RADIO, 5G NR 1SR CBAND, 4TX4RX SOFTWARE RETRO

SITE NUMBER	DRAWING NUMBER	REV
CTL01208	A-2	1

ANTENNA SCHEDULE

SECTOR	EXISTING/PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA CL HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	-	-	-	-	-	-	-	-	-	-	(1) RAYCAP DC6-48-60-18-8F
A2	PROPOSED	LTE 700 B14/AWS/PCS	TPA65R-BU6DA-K	71.2"x20.7"x7.7"	107'-0"±	30°	-	(P)(1) 4478 B14 (700) (P)(1) 8843 B2/B66A	18.1"x13.4"x8.3" 15.1"x13.2"x6.0"	(E)(2) DC POWER (1) FIBER (P)(1)(Y-CABLE)	(1) RAYCAP DC6-48-60-18-8F
A3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"x16.1"x7.3" 30.4"x15.9"x8.1"	108'-9"± 105'-2"±	30°	-	-	-	-	(1) RAYCAP DC6-48-60-18-8F
A4	PROPOSED	LTE 700 BC/850/WCS	DMP65R-BU6DA	71.2"x20.7"x7.7"	107'-0"±	30°	-	(P)(1) 4449 B5/B12 (700)	17.9"x13.2"x10.4"	(P)(1)(Y-CABLE)	(1) RAYCAP DC6-48-60-18-8F
B1	-	-	-	-	-	-	-	-	-	-	(1) RAYCAP DC6-48-60-18-8F
B2	PROPOSED	LTE 700 B14/AWS/PCS	TPA65R-BU6DA-K	71.2"x20.7"x7.7"	107'-0"±	160°	-	(P)(1) 4478 B14 (700) (P)(1) 8843 B2/B66A	18.1"x13.4"x8.3" 15.1"x13.2"x6.0"	(P)(2) DC POWER & (1) FIBER (P)(1)(Y-CABLE)	(1) RAYCAP DC6-48-60-18-8F
B3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"x16.1"x7.3" 30.4"x15.9"x8.1"	108'-9"± 105'-2"±	160°	-	-	-	-	(1) RAYCAP DC6-48-60-18-8F
B4	PROPOSED	LTE 700 BC/850/WCS	DMP65R-BU6DA	71.2"x20.7"x7.7"	107'-0"±	160°	-	(P)(1) 4449 B5/B12 (700)	17.9"x13.2"x10.4"	(P)(1)(Y-CABLE)	(1) RAYCAP DC6-48-60-18-8F
C1	-	-	-	-	-	-	-	-	-	-	(1) RAYCAP DC6-48-60-18-8F
C2	PROPOSED	LTE 700 B14/AWS/PCS	TPA65R-BU6DA-K	71.2"x20.7"x7.7"	107'-0"±	270°	-	(P)(1) 4478 B14 (700) (P)(1) 8843 B2/B66A	18.1"x13.4"x8.3" 15.1"x13.2"x6.0"	(P)(2) DC POWER & (1) FIBER (P)(1)(Y-CABLE)	(1) RAYCAP DC6-48-60-18-8F
C3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"x16.1"x7.3" 30.4"x15.9"x8.1"	108'-9"± 105'-2"±	270°	-	-	-	-	(1) RAYCAP DC6-48-60-18-8F
C4	PROPOSED	LTE 700 BC/850/WCS	DMP65R-BU6DA	71.2"x20.7"x7.7"	107'-0"±	270°	-	(P)(1) 4449 B5/B12 (700)	17.9"x13.2"x10.4"	(P)(1)(Y-CABLE)	(1) RAYCAP DC6-48-60-18-8F

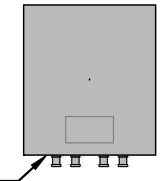
RRU CHART

QUANTITY	MODEL	SIZE (L x W x D)
P(3)	4449 B5/B12 (700)	17.9"x13.2"x10.4"
P(3)	8843 B2/B66A	15.1"x13.2"x6.0"
P(3)	4478 B14 (700)	18.1"x13.4"x8.3"

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

NOTE:
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER

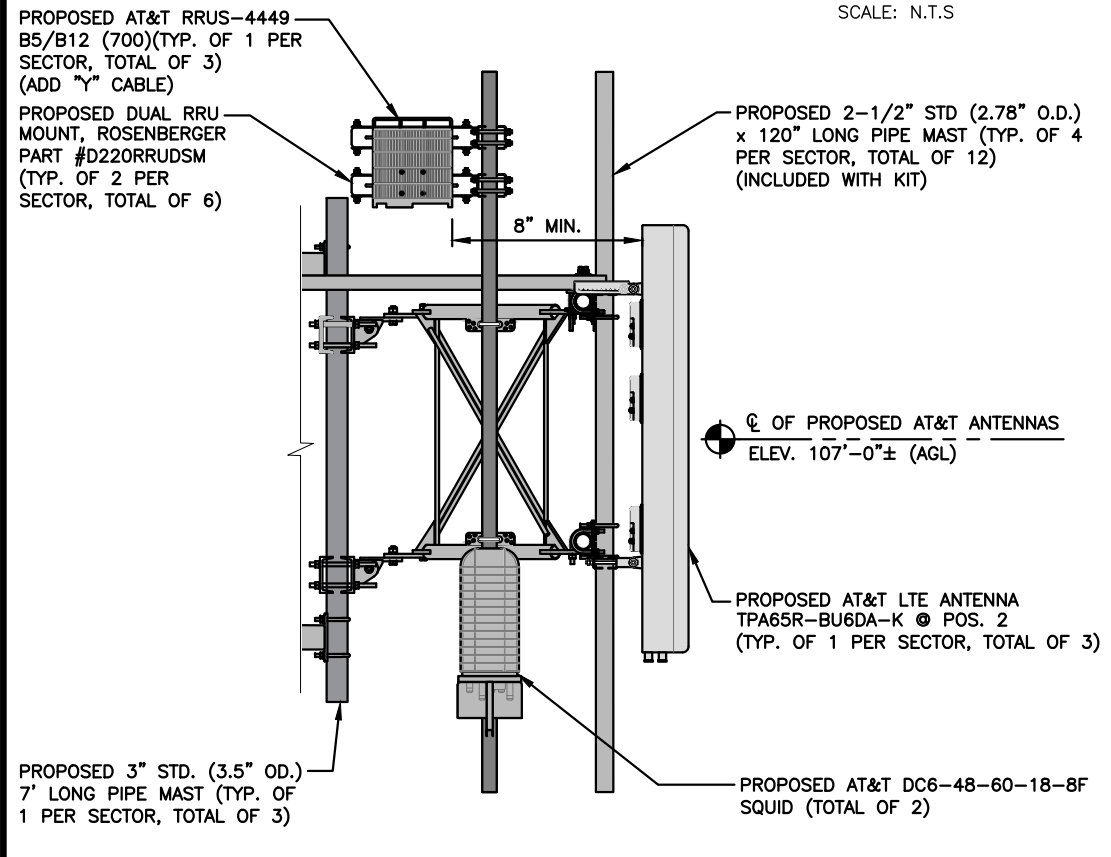


PROPOSED RRUS REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

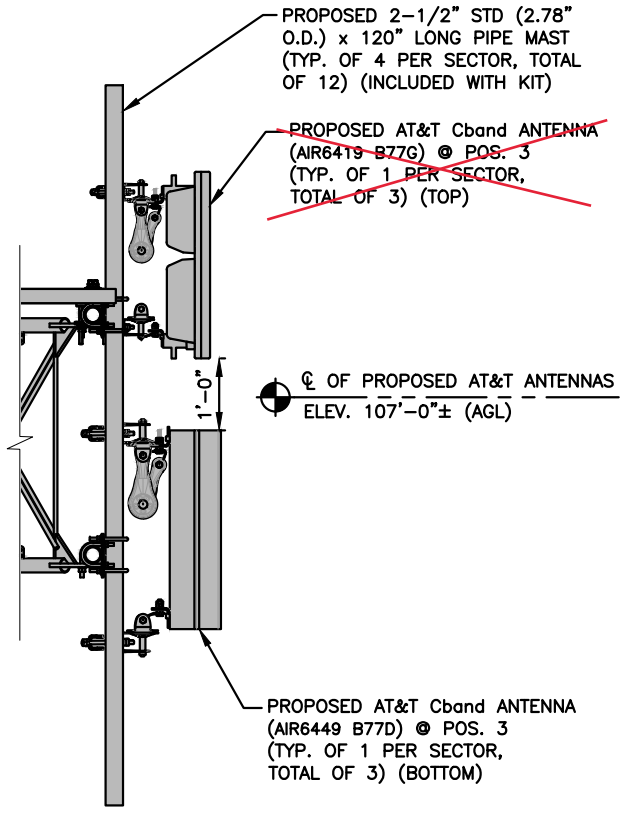
Redlined - A2, A3
Centerline Communications
Tristen Spear
12/15/22 10:26 AM

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.
PROPOSED RRUS DETAIL
SCALE: N.T.S.

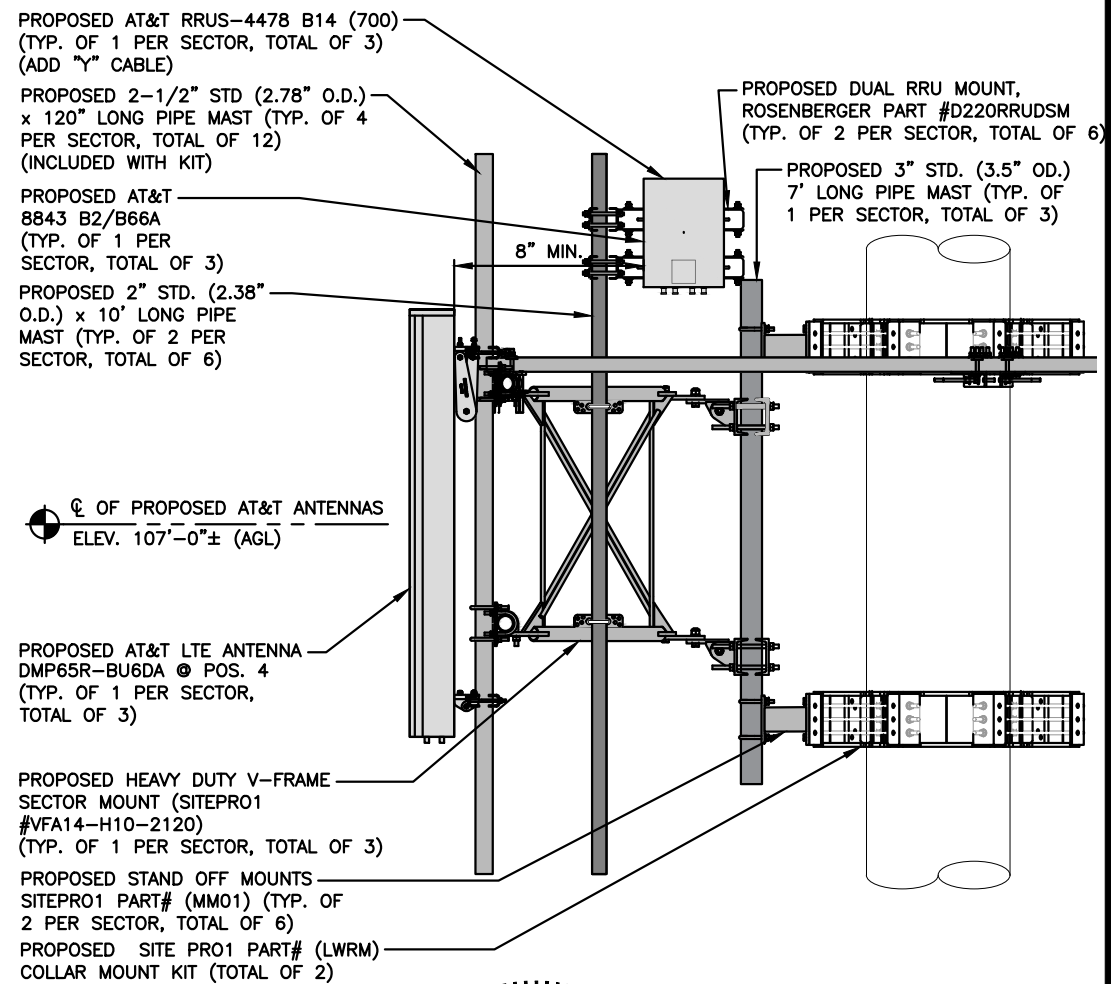
FINAL ANTENNA SCHEDULE 1 A-3
SCALE: N.T.S.



PROPOSED ANTENNA @ POS. 2 3 A-3
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"



PROPOSED ANTENNA @ POS. 3 4 A-3
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"



PROPOSED ANTENNA @ POS. 4 4 A-3
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"

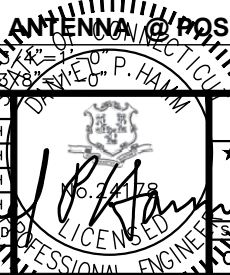
HG HUDSON Design Group LLC
45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01208
SITE NAME: MIDDLETOWN SO MAIN
1825 SOUTH MAIN STREET
MIDDLETOWN, CT 06457
MIDDLESEX COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

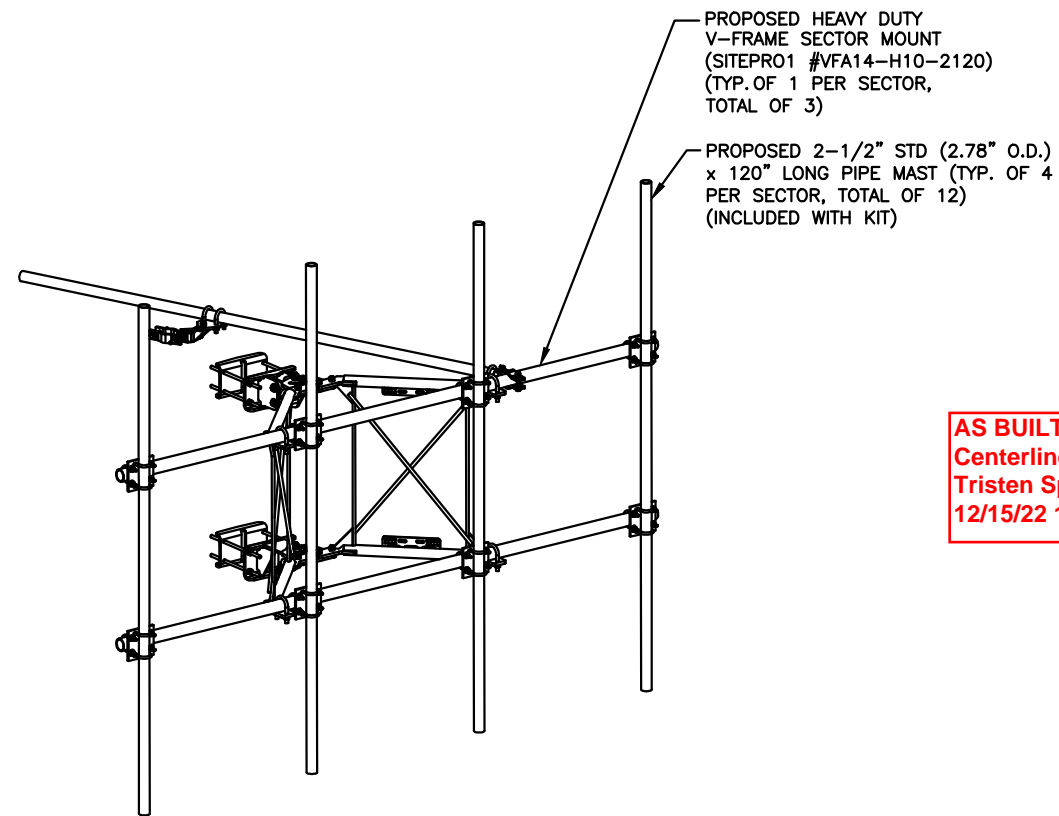
NO.	DATE	REVISIONS	BY	CHK	APP'D
1	06/28/22	ISSUED FOR CONSTRUCTION	SG	AT	DPH
C	06/20/22	ISSUED FOR PERMITTING	SG	AT	DPH
B	05/03/22	ISSUED FOR PERMITTING	SG	AT	DPH
A	04/04/22	ISSUED FOR REVIEW	SG	AT	DPH



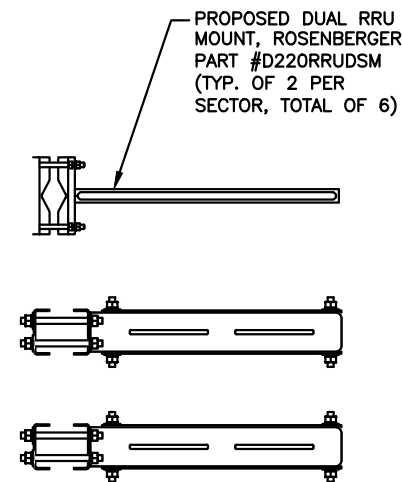
AT&T DETAILS
5G NR 1DR-1 LTE 3C 5G NR RADIO, 5G NR 1SR CBAND, 4TX4RX SOFTWARE RETRO
SITE NUMBER: CTL01208
DRAWING NUMBER: A-3
REV: 1

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



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Tristen Spear
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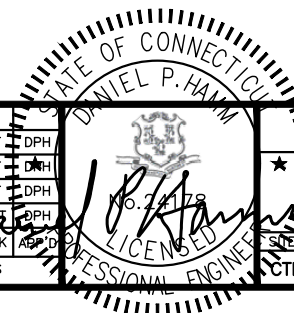


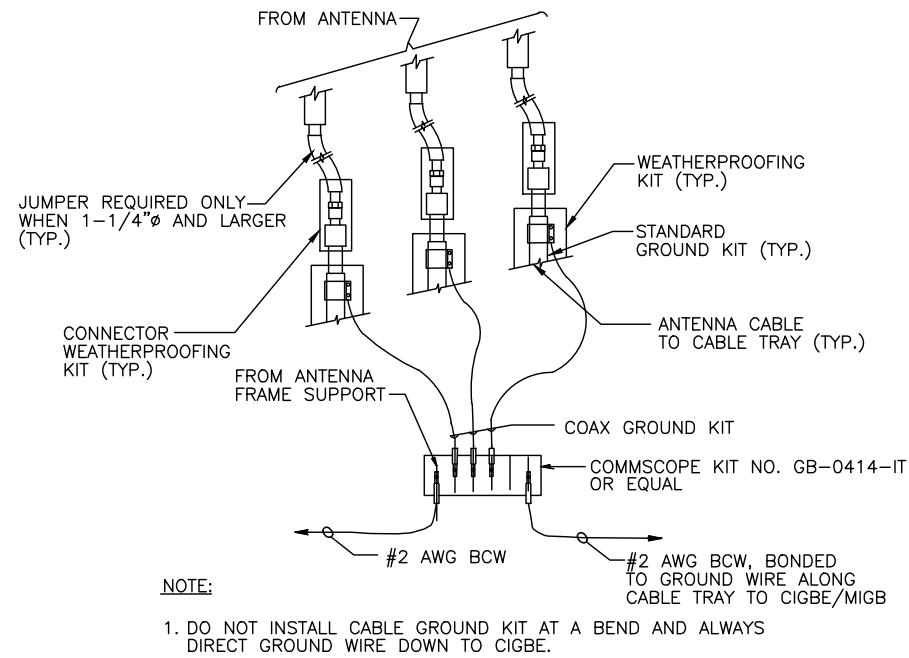
PROPOSED MOUNT (SITEPRO1 #VFA14-H10-2120) DETAIL 1
SCALE: N.T.S. A-4

BACK TO BACK RRU MOUNT DETAIL 2
SCALE: N.T.S. A-4

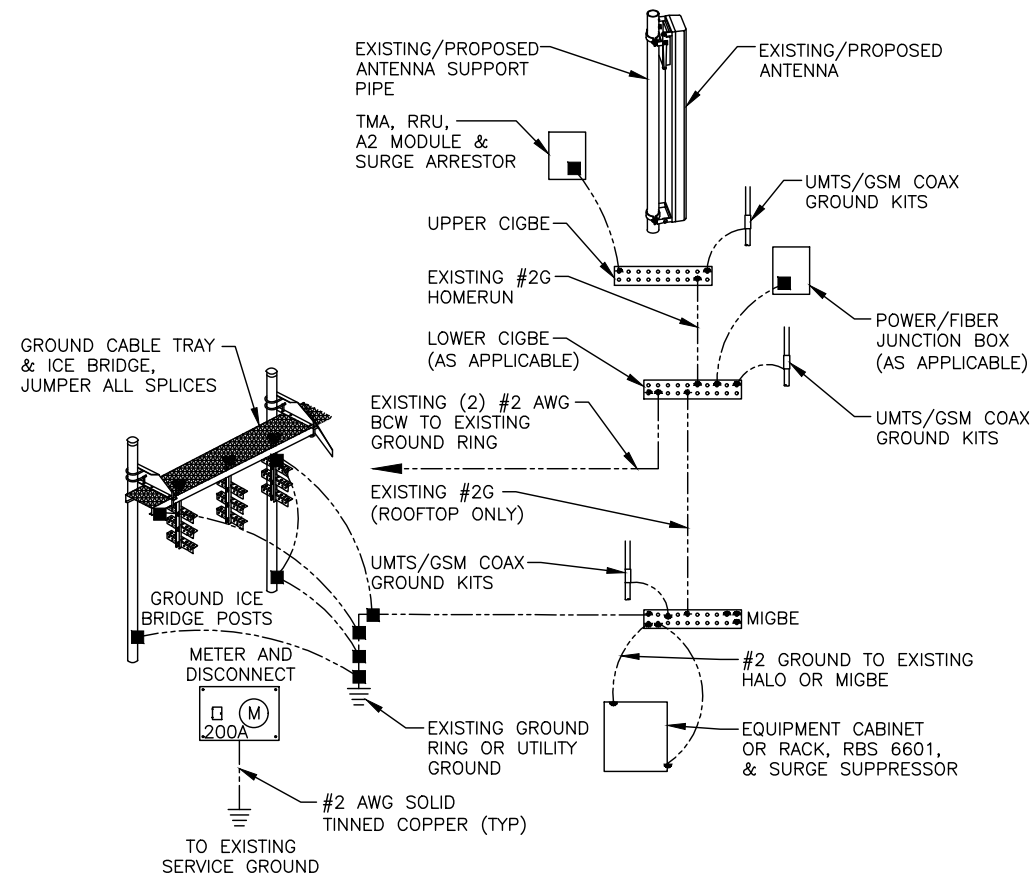
NO.	DATE	REVISIONS	BY	CHK	APP'D
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C	06/20/22	ISSUED FOR PERMITTING	SG	AT	DPH
B	05/03/22	ISSUED FOR PERMITTING	SG	AT	DPH
A	04/04/22	ISSUED FOR REVIEW	SG	AT	DPH

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VS

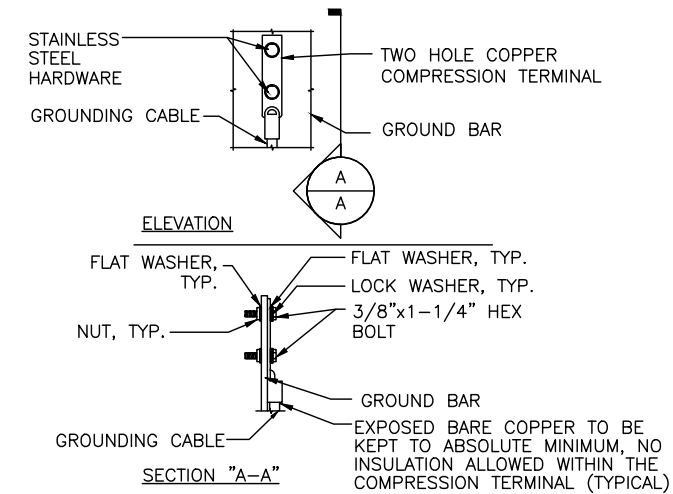




GROUND WIRE TO GROUND BAR CONNECTION DETAIL 1
SCALE: N.T.S. G-1



GROUNDING RISER DIAGRAM 2
SCALE: N.T.S. G-1



- NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
 3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

TYPICAL GROUND BAR CONNECTION DETAIL 3
SCALE: N.T.S. G-1

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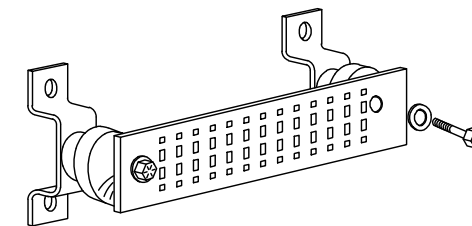
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
- +24V POWER SUPPLY RETURN BAR (#2 AWG)
- 48V POWER SUPPLY RETURN BAR (#2 AWG)
- RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

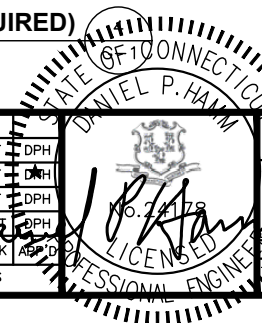
- INTERIOR GROUND RING (#2 AWG)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
- BUILDING STEEL (IF AVAILABLE) (#2 AWG)



GROUND BAR - DETAIL (AS REQUIRED)
SCALE: N.T.S.

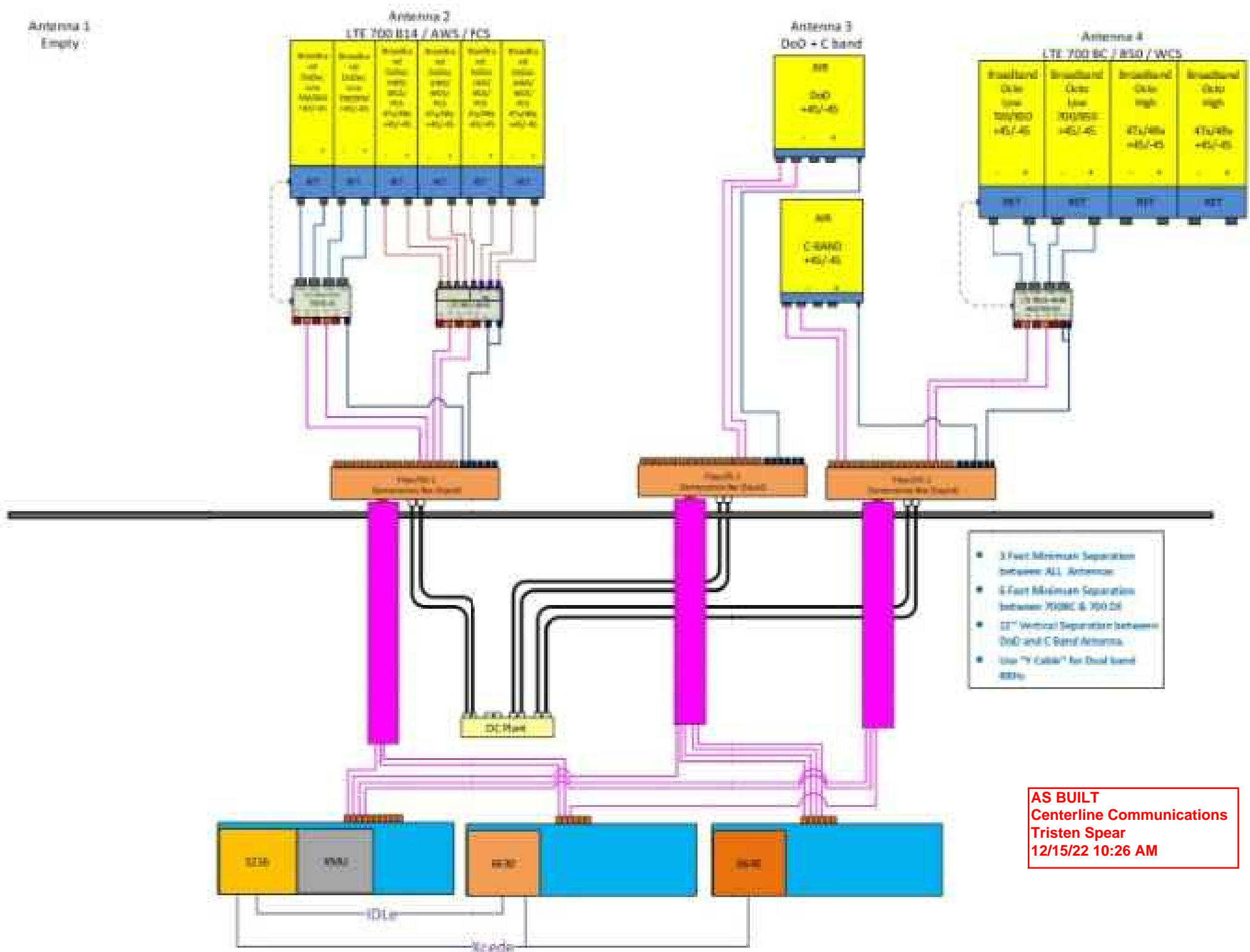
NO.	DATE	REVISIONS	BY	CHK	APP'D
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C	06/20/22	ISSUED FOR PERMITTING	SG	AT	DPH
B	05/03/22	ISSUED FOR PERMITTING	SG	AT	DPH
A	04/04/22	ISSUED FOR REVIEW	SG	AT	DPH

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VS



AT&T
GROUNDING DETAILS
5G NR 1DR-1 LTE 3C 5G NR RADIO, 5G NR 1SR CBAND, 4TX4RX SOFTWARE RETRO

SITE NUMBER	DRAWING NUMBER	REV
CTL01208	G-1	1



AS BUILT
Centerline Communications
Tristen Spear
12/15/22 10:26 AM

NOTE:
 1. CONTRACTOR TO CONFIRM ALL PARTS.
 2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

NOTE:
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

RF PLUMBING DIAGRAM 1
 SCALE: N.T.S. RF-1

1	06/28/22	ISSUED FOR CONSTRUCTION	SG	AT	DPH
C	06/20/22	ISSUED FOR PERMITTING	SG	AT	DPH
B	05/03/22	ISSUED FOR PERMITTING	SG	AT	DPH
A	04/04/22	ISSUED FOR REVIEW	VS	MKT	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: VS		

AT&T		
RF PLUMBING DIAGRAM		
5G NR 1DR-1 LTE 3C 5G NR RADIO, 5G NR 1SR CBAND, 4TX4RX SOFTWARE RETRO		
SITE NUMBER	DRAWING NUMBER	REV
CTL01208	RF-1	1

Nov 17, 2022 at 4:04:36 PM
1825 S Main St
Middletown CT 06457
United States





Nov 17, 2022 at 4:01:43 PM
1825 S Main St
Middletown CT 06457
United States

Nov 17, 2022 at 4:00:59 PM
1825 S Main St
Middletown CT 06457
United States

