PROJECT INFORMATION

SCOPE OF WORK:

ITEMS TO BE MOUNTED ON THE EXISTING ROOF TOP:
- NEW AT&T ANTENNAS: AIR6419 B77D (TYP. OF 1 PER SECTOR ALPHA & BETA SECTOR, TOTAL OF 2).
- NEW AT&T ANTENNAS: OPA65R-BU6DA (TYP. OF 1 PER ALPHA/BETA SECTOR, TOTAL OF 2).
- NEW AT&T ANTENNAS: TPA65R-BU6DA-K (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: NNH4-65B-R3-UPM WITH AIR6419 B77D ATTACHED TO THE BACK OF ANTENNA (TOTAL OF 1 PER GAMMA SECTOR).
- NEW AT&T RRUS: 4415 B25 (PCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS 4490 B5/B12A (850/700BC)(TYP. OF 1 PER SECTOR, TOTAL OF 3).
- PROPOSED (1) #6AWG DC TRUNK (GAMMA SECTOR) TO REPLACE (1) EXISTING #8AWG TRUNK.

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:
- ADD (1) 6651 + XCEDE
- ADD (4) RECTIFIERS.

ITEMS TO BE REMOVED:
- EXISTING AT&T ANTENNAS: 800-10122 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNAS: QS66512-2 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNAS: OPA65R-LCUU-H6 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUS-12 B2 (1900) (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T RRUS: RRUS-11 B5 (850) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T TMA: LGP12104 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T DIPLEXER: LGP21901 (TYP. OF 2 PER SECTOR, TOTAL OF 6).

ITEMS TO REMAIN:
- (9) RRU'S, (6) SURGE ARRESTORS, (12) COAX CABLES, (9) DC POWER & (3) FIBER.

SITE ADDRESS:	79 WALNUT STREET SAINT ALBANS, VT 05478
SITE/LAND OWNER:	NUTRA BLEND LLC 79 WALNUT STREET ALBANS, VT 05478
LATITUDE:	44.8174969° N, 44° 49' 2.98" N
LONGITUDE:	73.0955561° W, 73° 5' 44.00" W
TYPE OF SITE:	ROOF TOP / INDOOR EQUIPMENT
STRUCTURE HEIGHT:	138'-6"±
RAD CENTER:	81'-6"±
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
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C-1	PLOT PLAN	9
A-1	ROOF & EQUIPMENT PLANS	9
A-2	EXISTING ANTENNA LAYOUT	9
A-3	PROPOSED ANTENNA LAYOUT	9
A-4	ELEVATION	9
A-5	DETAILS	9
A-6	DETAILS	9
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G-1	GROUNDING DETAILS	9
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RF-3	RF PLUMBING DIAGRAM (GAMMA)	9

NOTE TO GENERAL CONTRACTOR: (PRIOR/DURING CONSTRUCTION)

CONTRACTOR TO CONTACT E.O.R. (TEP OPCO,LLC) PRIOR TO ROOF/WALL OPENINGS TO COORDINATE/SCHEDULE THE FOLLOWING:

- INSPECTION OF EXISTING CONDITIONS AND LOCATIONS WHERE CONNECTIONS ARE BEING PROPOSED, INCLUDING INSPECTIONS OF STUB-UP ANCHORS AND/OR WALL ANCHORS PRIOR TO CONCEALING.

SITE NUMBER: VTL06469

SITE NAME: RCC-DT ALBANS

FA CODE: 10133323

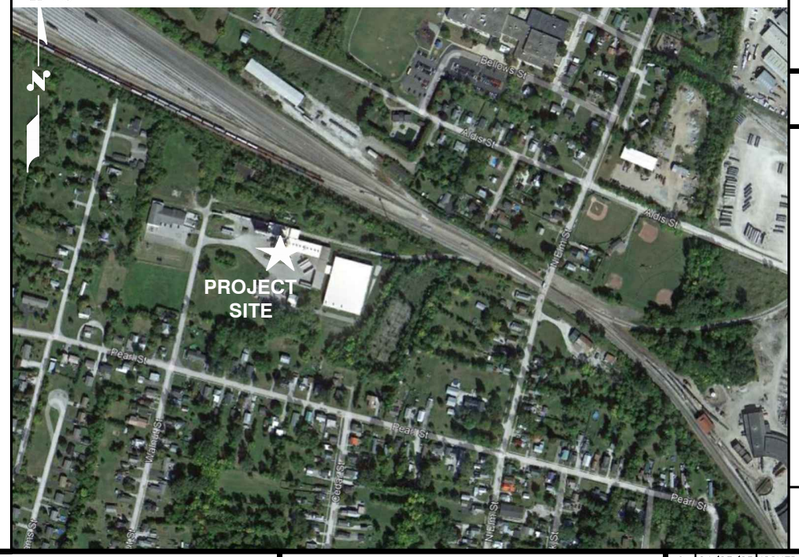
PACE ID: WSCTB0008498, WSCTB0009983, WSCTB0013161, WSCTB0013255

PROJECT: 5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION UPGRADE

VICINITY MAP

DIRECTIONS TO SITE:

START AT 550 COCHITUATE RD, FRAMINGHAM GOING TOWARD WHITTIER ST – MAKE A U-TURN AT WHITTIER ST. ONTO COCHITUATE RD(RT-30 E) – TAKE RAMP ONTO I-90 E TOWARD BOSTON/MASS PIKE ENTRANCE/JCT I-95 (TOLL APPLIES) – TAKE EXIT #14/N.H.-MAINE/SOUTH SHORE ONTO I-95 N TOWARD N.H.-MAINE/POINTS NORTH/WALTHAM/GLOUCESTER (TOLL APPLIES) – TAKE EXIT #37B/CONCORD N H ONTO I-93 N (PORTIONS TOLL) – TAKE THE LEBANON/WHITE RIVER JCT VT EXIT ONTO I-89 N (TOLL APPLIES) – TAKE EXIT #19/ST. ALBANS (US-7) ONTO ST ALBANS ST. S – CONTINUE ON INTERSTATE ACCESS RD – TURN RIGHT ON S MAIN ST(US-7) – TURN LEFT ON NASON ST – TURN RIGHT ON LEMNAH DR – TURN LEFT ON LOWER WELDEN ST – TURN RIGHT ON RUSSELL ST – TURN LEFT ON LAKE ST(VT-36) – TURN RIGHT ON WALNUT ST – ARRIVE AT 79 WALNUT ST, ST ALBANS



1. 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.
2. 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.
3. 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.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

UNDERGROUND SERVICE ALERT

811 DigSafe MA·ME·NH·RI·VT

WWW.DIGSAFE.COM
72 HOURS PRIOR

TEP
TEP OPCO, LLC.
45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE: (978) 557-5553

SAI
12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: VTL06469
SITE NAME: RCC-DT ALBANS

79 WALNUT STREET
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AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

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7	02/12/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
6	02/05/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
5	11/25/24	ISSUED FOR CONSTRUCTION	TR	AT	DPH

SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT · DANIEL P. HAMM · NO. 0395 · LICENSED · PROFESSIONAL ENGINEER

AT&T

TITLE SHEET
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	T-1	9

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 – SAI
   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 WITH VT FIRE & SAFETY CODE AMENDMENTS
    ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS

    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.

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	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

TEP OPCO, LLC.
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5	11/25/24	ISSUED FOR CONSTRUCTION	TR	AT	DPH

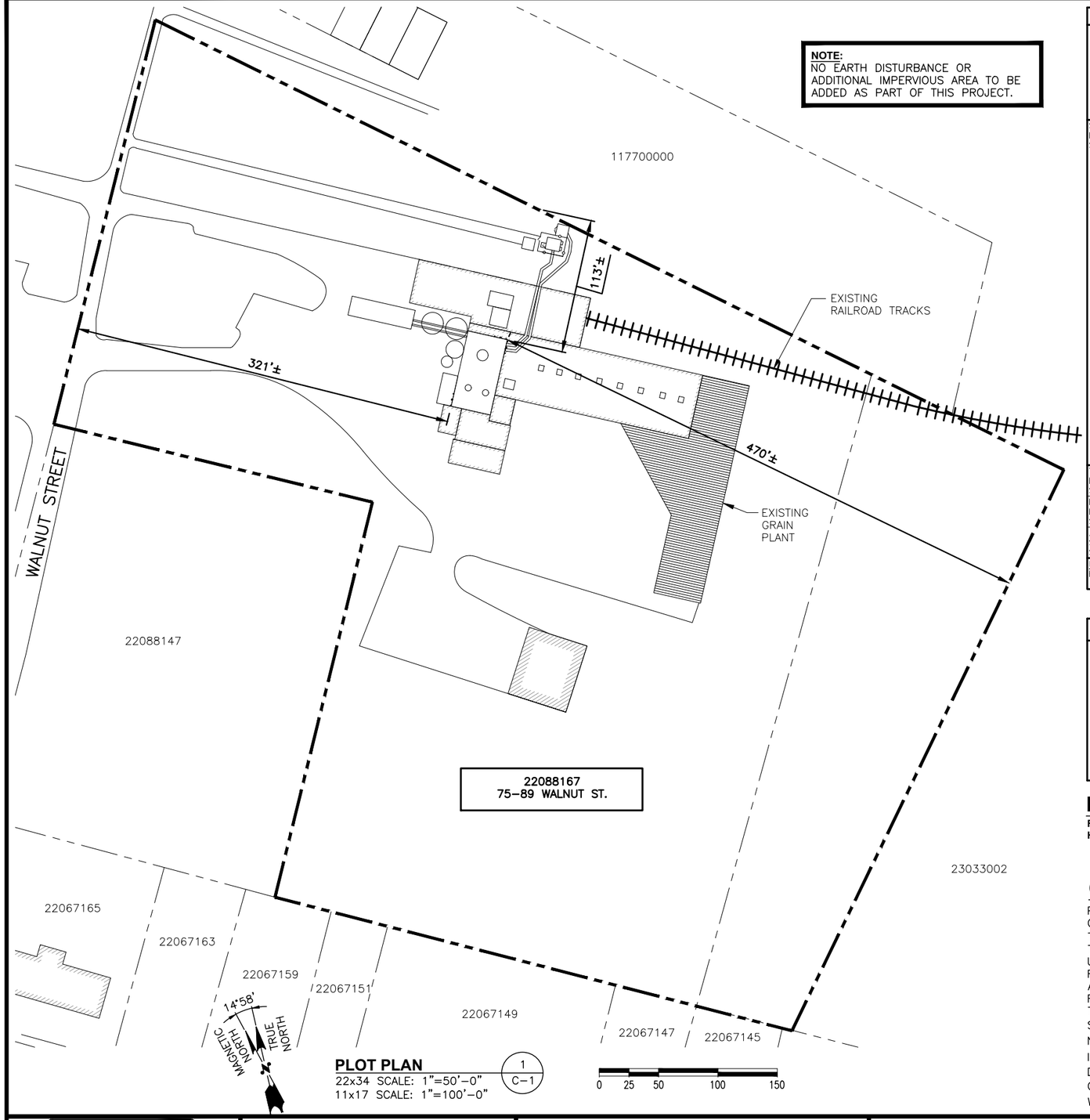
SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT
DANIEL P. HAMM
NO. 0395
LICENSED
PROFESSIONAL ENGINEER

AT&T

GENERAL NOTES
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	GN-1	9



PLOT PLAN (1 / C-1)
22x34 SCALE: 1"=50'-0"
11x17 SCALE: 1"=100'-0"

NOTE:
NO EARTH DISTURBANCE OR ADDITIONAL IMPERVIOUS AREA TO BE ADDED AS PART OF THIS PROJECT.

PROJECT INFORMATION & DIMENSIONS

	EXISTING (APPROVED)						PROPOSED						NET INCREASE (SQ.FT)
	EQUIPMENT	DIMENSIONS (INCHES) H		W	QTY.	VISIBLE AREA (SQ.FT)	EQUIPMENT	DIMENSIONS (INCHES) H		W	QTY.	VISIBLE AREA (SQ. FT)	
SURFACE AREA OF THE FACES OF ANTENNAS ON SUPPORT STRUCTURE	ANTENNA:	75.5	x	10.3	(3)	16.20	ANTENNA: AIR6419 B77D	28.2	x	16.1	(3)	9.46	
	ANTENNA:	72	x	14.8	(3)	22.20	ANTENNA: TPA65R-BU6DA-K	71.2	x	20.7	(3)	30.71	
	ANTENNA:	72	x	12	(3)	18.00	ANTENNA: OPA65R-BU6DA	71.2	x	20.7	(2)	20.47	
	SURGE ARRESTOR: (SEE NOTE)	31.4	x	10.2	(6)	13.35	ANTENNA: NNH4-65B-R3-UPM	72	x	19.6	(1)	9.80	
	RRU-11 B5: (SEE NOTE)	19.7	x	17	(3)	6.98	RRUS- 4415 B25: (SEE NOTE)	16.5	x	13.4	(3)	4.61	
	RRU-12 B2: (SEE NOTE)	20.4	x	18.5	(6)	15.73	RRUS- 4490B5/B12A: (SEE NOTE)	17.5	x	15.1	(3)	5.51	
	RRU-32 B30: (SEE NOTE)	27.2	x	12.1	(3)	6.86							
	RRU-32 B66A: (SEE NOTE)	27.2	x	12.1	(3)	6.86	EXISTING EQUIPMENT TO REMAIN						
	RRU-4478 B14: (SEE NOTE)	18.1	x	13.4	(3)	5.05							
							RRU-4478 B14: (SEE NOTE)	18.1	x	13.4	(3)	5.05	
							RRU-32 B30: (SEE NOTE)	27.2	x	12.1	(3)	6.86	
							RRU-32 B66A: (SEE NOTE)	27.2	x	12.1	(3)	6.86	111.23
							SURGE ARRESTOR: (SEE NOTE)	31.4	x	10.2	(6)	13.35	112.68
	TOTAL VISIBLE AREA: 111.23						TOTAL VISIBLE AREA: 112.68						**1.45**
VERTICAL EXTENSION FROM EXISTING SUPPORT STRUCTURE	0 FT						0 FT						0'
HORIZONTAL EXTENSION FROM EXISTING SUPPORT STRUCTURE	APPROX. 1'-6"±						APPROX. 1'-10"±						2"
AMOUNT OF IMPERVIOUS SURFACE BEING ADDED TO SITE	0 FT²						0 FT²						0'

NOTE:
RRU & ASSOCIATED EQUIPMENT LOCATED BEHIND ANTENNAS, CALCULATION IS FOR PORTION OF RRU & ASSOCIATED EQUIPMENT THAT EXTENDS BEYOND ANTENNAS.

LEGEND

———	SUBJECT PROPERTY LINE
———	ABUTTING PROPERTY LINE
— — —	ACCESS DRIVE/EASEMENT
— · — · —	ZONING DISTRICT BOUNDARY LINE
XXX-XXX-XXX	PARCEL ID

ZONING INFORMATION

ZONING DISTRICT:	N/A	
DIMENSIONS REQUIREMENTS:	REQUIRED	PROPOSED
ANTENNA SETBACKS		
FRONT YARD SETBACK:	150'	321'±
SIDE YARD SETBACK:	20'	113'±
REAR YARD SETBACK:	20'	470'±

(ALL MEASUREMENTS ARE IN FEET ± UNLESS OTHERWISE NOTED)
(SETBACK TO EXISTING EQUIPMENT SHELTER UNLESS OTHERWISE NOTED)

HANDICAP REQUIREMENTS

FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION.
HANDICAPPED ACCESS REQUIREMENTS NOT REQUIRED.

NOTE:
PLAN PREPARED BY TEP (TEP OPCO, LLC.) UTILIZING ASSESSORS DATA AND OTHER SOURCES AND DOES NOT REPRESENT AN ACTUAL FIELD OR BOUNDARY SURVEY. INFORMATION TAKEN FROM EXISTING PLANS OF RECORD.

GENERAL NOTES:

PROPERTY LINE INFORMATION (WHEN APPLICABLE) WAS PREPARED USING TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUCTED AS A BOUNDARY SURVEY. NO NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (THERE IS NO HANDICAP ACCESS REQUIRED).
THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE. CONNECTION TO ELECTRICAL & TELEPHONE UTILITIES TO BE DETERMINED BY THE APPROPRIATE UTILITY COMPANY. SUBCONTRACTOR TO VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEER PRIOR TO INSTALLATION. SEE ANTENNA CONFIGURATION SHEETS FOR SITE SPECIFIC DETAILS. SUBCONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO EXCAVATING. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. THERE ARE NO TOPOGRAPHIC CHANGES BEING PROPOSED UNDER THE CURRENT APPLICATION.
THE MAXIMUM AREA OF DISTURBANCE IS LESS THAN 1 ACRE. THE PROJECT IMPACT AREA IS BELOW THE EXEMPTION THRESHOLD OF 43,560 SQUARE FEET IN 40 CFR PARTS 9, 122-124 AND THEREFORE IS NOT SUBJECT TO REGULATION UNDER THE EPA OR STATE-MANAGED NPDES GENERAL CONSTRUCTION PERMIT PROGRAM. THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL SITE DEVELOPMENT IN ACCORDANCE WITH THE "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL" ISSUED BY THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION. ADDITIONALLY, THE PROJECT OWNERS GENERAL CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION ACTIVITIES IN A MANNER THAT DOES NOT RESULT IN STORM WATER DISCHARGES WITH AN ADVERSE IMPACT ON ANY STORM WATER COLLECTION/CONVEYANCE SYSTEM, WETLAND, WATER BODY, OR OTHER WATER RESOURCE AREAS.

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SITE NUMBER: VTL06469
SITE NAME: RCC-DT ALBANS

79 WALNUT STREET
SAINT ALBANS, VT 05478
FRANKLIN COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
9	04/03/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
8	03/24/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
7	02/12/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
6	02/05/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
5	11/25/24	ISSUED FOR CONSTRUCTION	TR	AT	DPH

SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT — DANIEL P. HAMM — NO. 6395 — LICENSED PROFESSIONAL ENGINEER

AT&T

PLOT PLAN
4C NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	C-1	9

NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

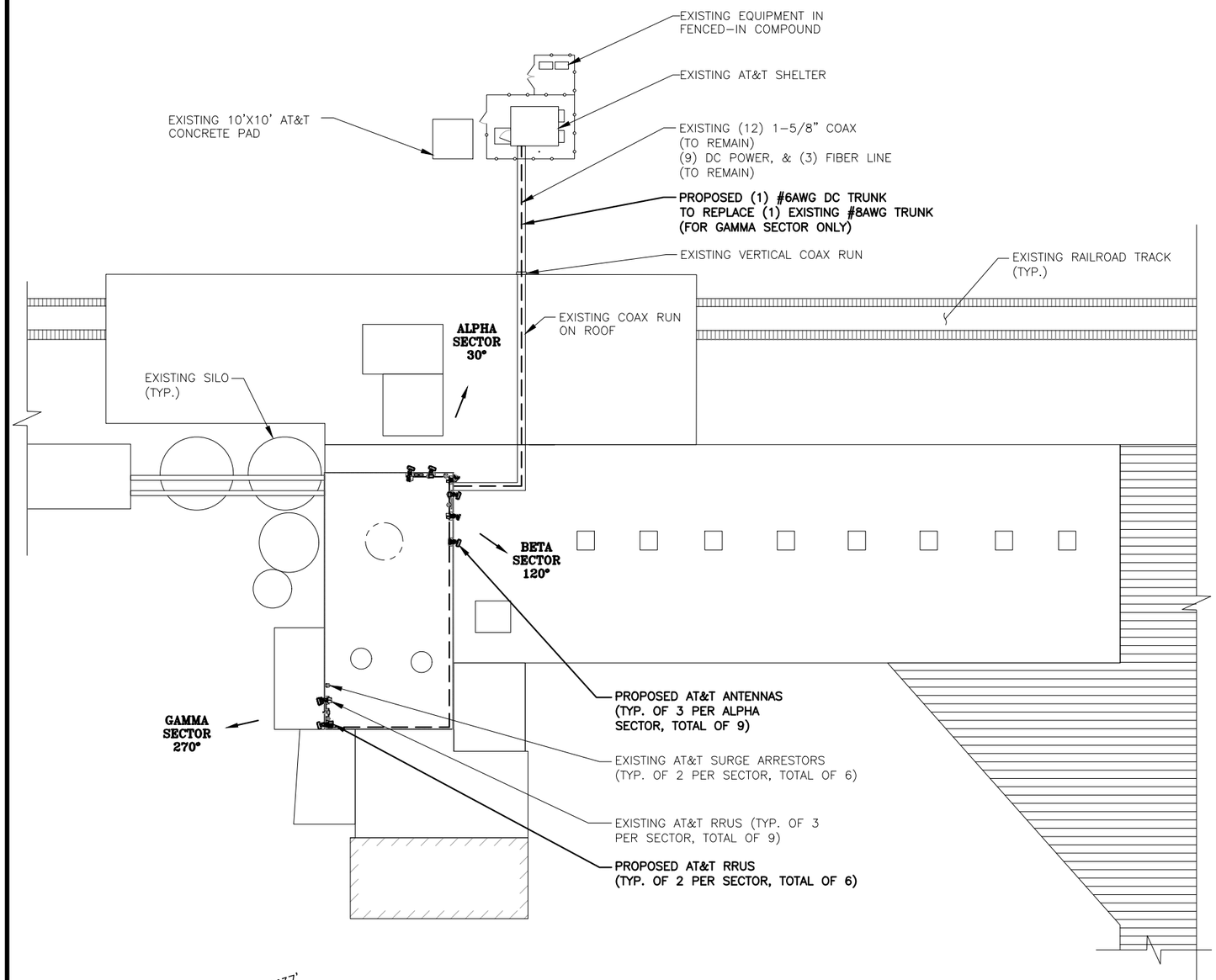
- TEP (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

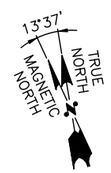
NOTE:

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

NOTE:

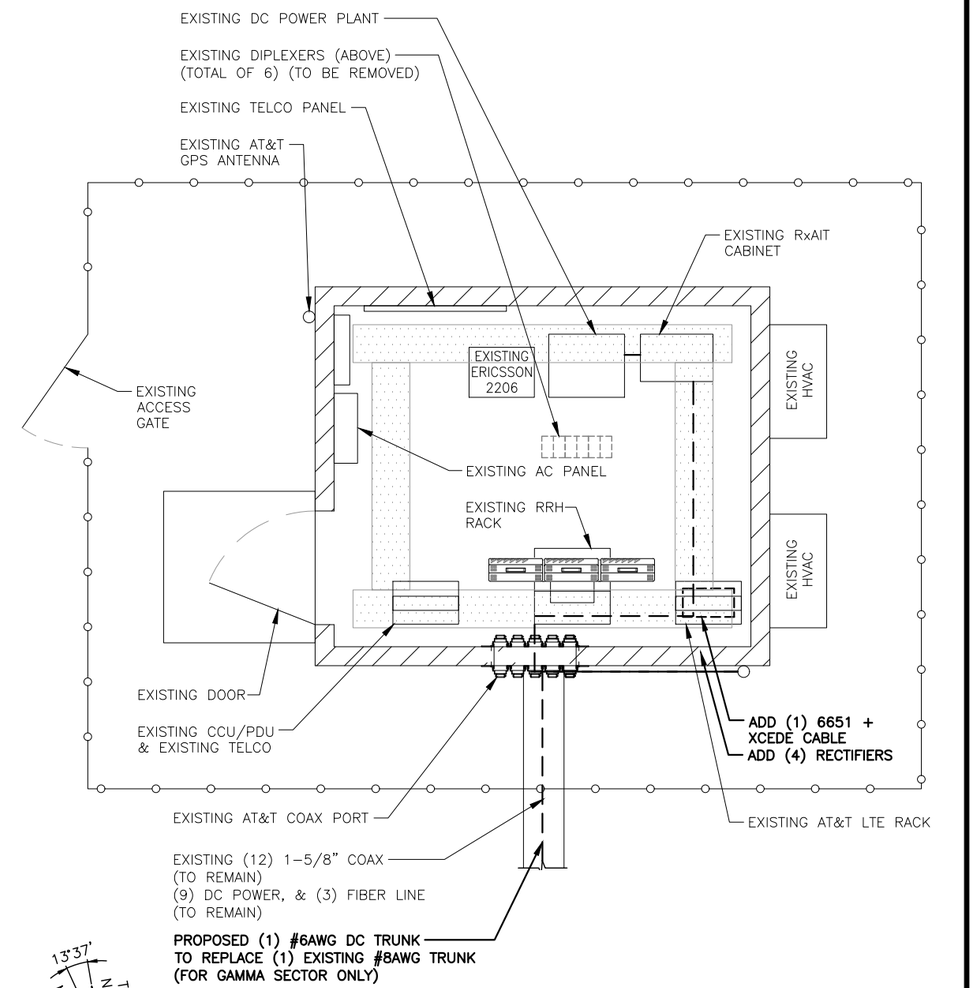
REFER TO **STRUCTURAL ANALYSIS** BY: TEP (TEP OPCO, LLC.). DATED: MARCH 21, 2025 (Rev.4). FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

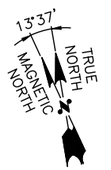




ROOF PLAN (1 / A-1)
22x34 SCALE: 1/16"=1'-0"
11x17 SCALE: 1/32"=1'-0"

0 8'-0" 16'-0" 32'-0" 48'-0"





EQUIPMENT PLAN (2 / A-1)
22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"

0 1'-0" 2'-0" 4'-0" 6'-0"

TEP OPCO, LLC.
45 BEECHWOOD DR.
NORTH ANDOVER, MA 01845
OFFICE: (978) 557-5553

12 INDUSTRIAL WAY
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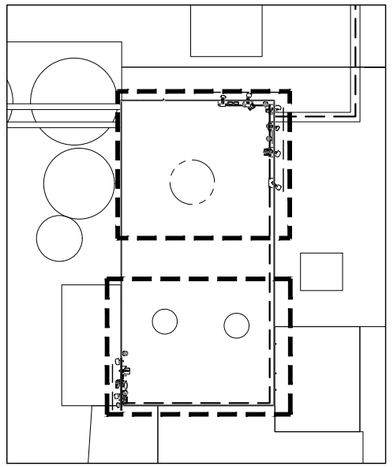
SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT — DANIEL P. HAMM — NO. 0395 — LICENSED — PROFESSIONAL ENGINEER

AT&T

ROOF & EQUIPMENT PLANS
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	A-1	9



ROOFTOP KEY PLAN

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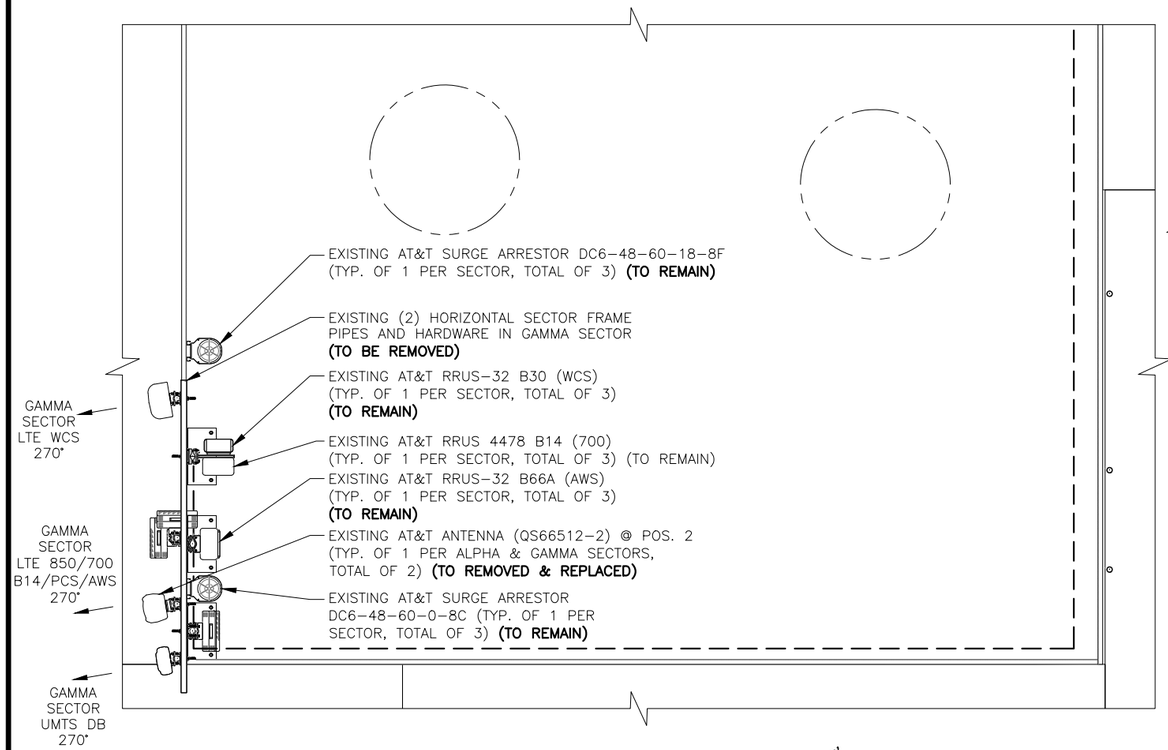

13°37' TRUE NORTH MAGNETIC NORTH

EXISTING ANTENNA LAYOUT

22x34 SCALE: 3/8"=1'-0"
11x17 SCALE: 3/16"=1'-0"

1 / A-2

0 1'-4" 2'-8" 5'-4" 8'-0"

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5	11/25/24	ISSUED FOR CONSTRUCTION	TR	AT	DPH

SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

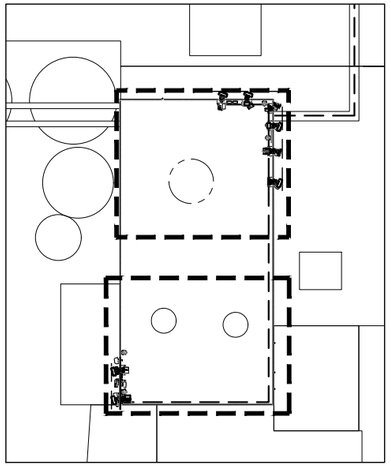
STATE OF VERMONT DANIEL P. HAMM 10035 LICENSED PROFESSIONAL ENGINEER

AT&T

EXISTING ANTENNA LAYOUT
NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	A-2	9

ROOFTOP KEY PLAN



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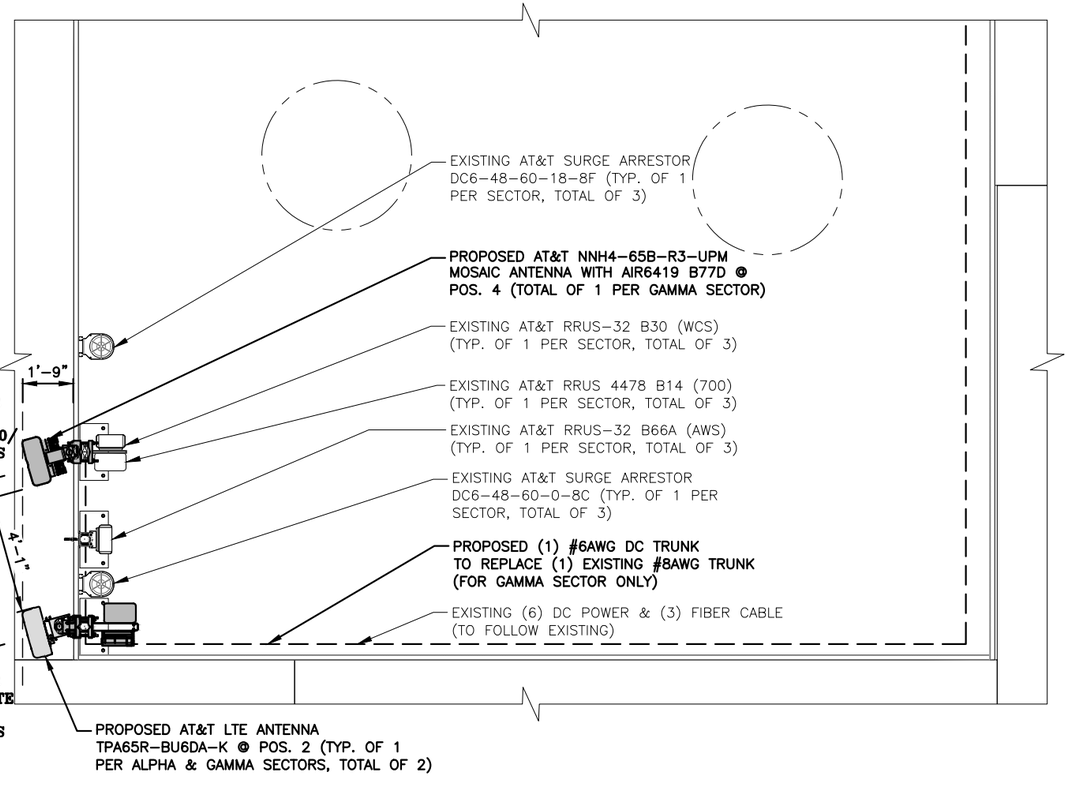

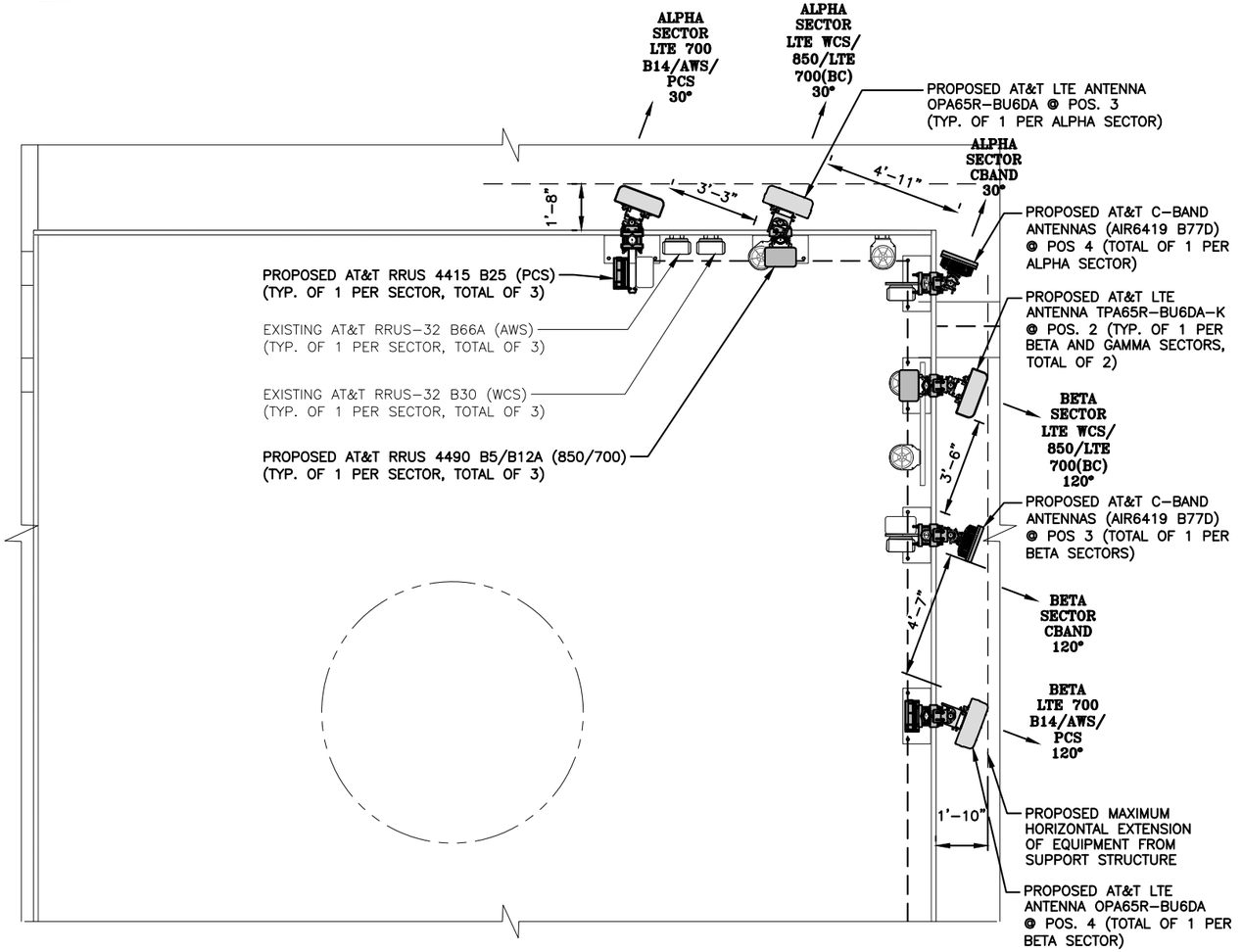

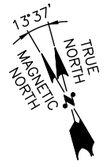

PROPOSED ANTENNA LAYOUT

1 / A-3

22x34 SCALE: 3/8"=1'-0"
11x17 SCALE: 3/16"=1'-0"

0 1'-4" 2'-8" 5'-4" 8'-0"

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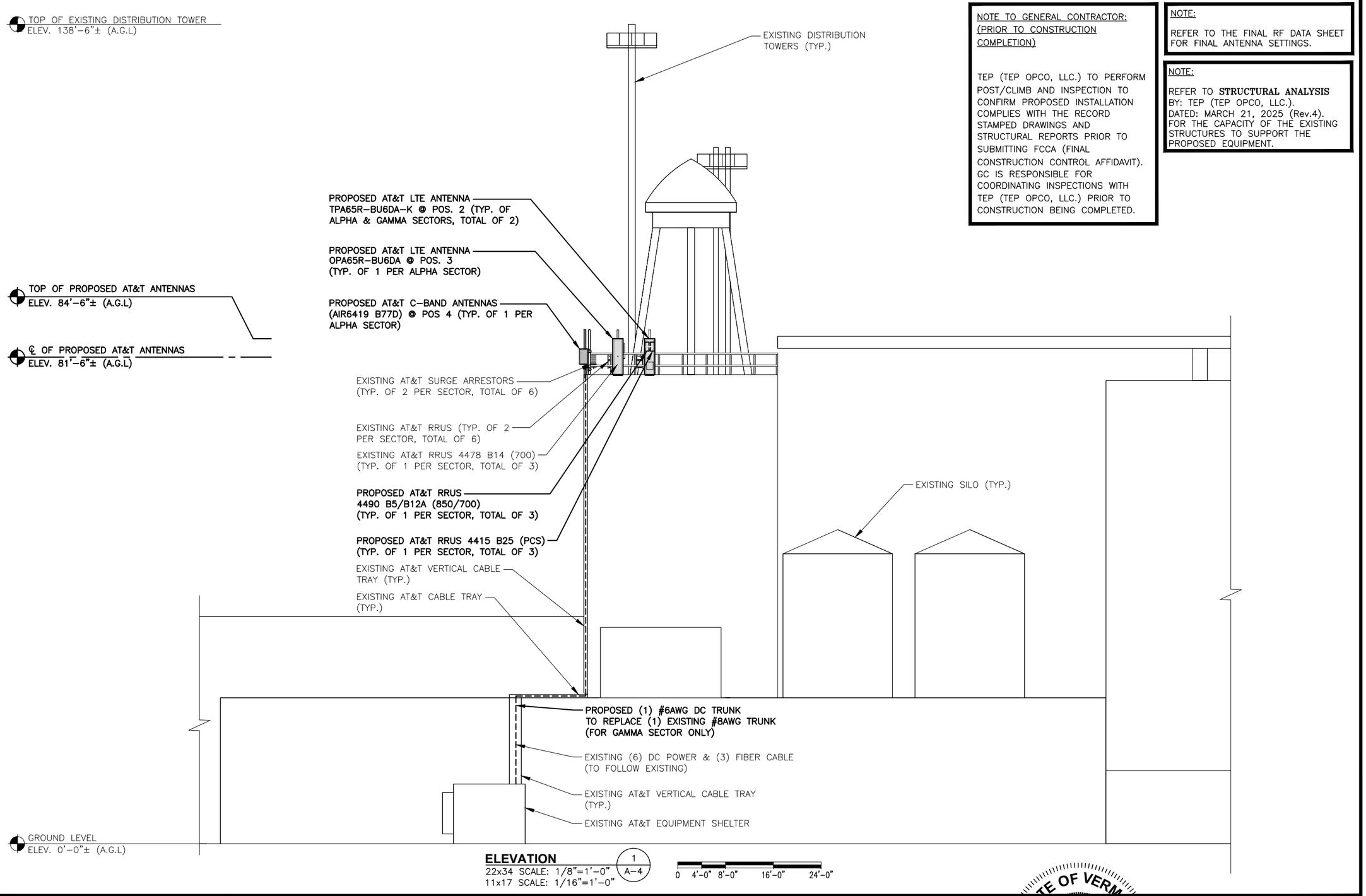
SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT
DANIEL P. MANN
No. 8395
LICENSED
PROFESSIONAL ENGINEER

AT&T

PROPOSED ANTENNA LAYOUT
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	A-3	9



ELEVATION 1 / A-4
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

0 4'-0" 8'-0" 16'-0" 24'-0"

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STATE OF VERMONT
DANIEL P. HAMM
NO. 8395
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ELEVATION
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	A-4	9

ANTENNA SCHEDULE

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA ℄ HEIGHT	AZIMUTH	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	–	–	–	–	–	–	–	–	(E)(4) 1–5/8 COAX	(E) (1) RAYCAP DC6–48–60–18–8F (E) (1) RAYCAP DC6–48–60–0–8C
A2	**PROPOSED**	**LTE 700 B14/AWS/ PCS**	**TPA65R–BU6DA–K**	**71.2X20.7X7.7**	**81'–6"±**	**30°**	(E)(1) RRUS–32 B66A (AWS) (E)(1) 4478 B14 (700) **(P)(1) 4415 B25 (PCS)**	– – **16.5X13.4X5.9**	(E)(2) DC POWER & (1) FIBER	
A3	**PROPOSED**	**LTE WCS/ 850/LTE 700(BC)**	**OPA65R–BU6DA**	**71.2X20.7X7.7**	**81'–6"±**	**30°**	–	–	–	
A4	**PROPOSED**	**CBAND**	**AIR6419 B77D**	**28.2X16.1X7.3**	**81'–6"±**	**30°**	**(P)(1) 4490 B5/B12A (850/700)** (E)(1) RRUS–32 B30 (WCS)	**17.5X15.1X6.8** –	(E)(2) DC POWER	
B1	–	–	–	–	–	–	–	–	(E)(4) 1–5/8 COAX	(E) (1) RAYCAP DC6–48–60–18–8F (E) (1) RAYCAP DC6–48–60–0–8C
B2	**PROPOSED**	**LTE WCS/ 850/LTE 700(BC)**	**OPA65R–BU6DA**	**71.2X20.7X7.7**	**81'–6"±**	**120°**	**(P)(1) 4490 B5/B12A (850/700)** (E)(1) RRUS–32 B30 (WCS)	**17.5X15.1X6.8** –	(E)(2) DC POWER & (1) FIBER	
B3	**PROPOSED**	**CBAND**	**AIR6419 B77D**	**28.2X16.1X7.3**	**81'–6"±**	**120°**	–	–	–	
B4	**PROPOSED**	**LTE 700 B14/AWS/ PCS**	**TPA65R–BU6DA–K**	**71.2X20.7X7.7**	**81'–6"±**	**120°**	(E)(1) RRUS–32 B66A (AWS) (E)(1) 4478 B14 (700) **(P)(1) 4415 B25 (PCS)**	– – **16.5X13.4X5.9**	(E)(1) DC POWER	
C1	–	–	–	–	–	–	–	–	(E)(4) 1–5/8 COAX	(E) (1) RAYCAP DC6–48–60–18–8F (E) (1) RAYCAP DC6–48–60–0–8C
C2	**PROPOSED**	**LTE 700 B14/AWS/ PCS**	**TPA65R–BU6DA–K**	**71.2x20.7x7.7**	**81'–6"±**	**270°**	(E)(1) RRUS–32 B66A (AWS) **(P)(1) 4490 B5/B12A (850/700)** **(P)(1) 4415 B25 (PCS)**	– **17.5X15.1X6.8** **16.5X13.4X5.9**	(E)(2) DC POWER & (1) FIBER	
C3	–	–	–	–	–	–	–	–	–	
C4	**PROPOSED**	**LTE WCS/ 850/LTE 700(BC)**	**NNHH–65B–R3–UPM W/ AIR6419 B77D**	**72.0x19.6x14.3**	**81'–6"±**	**270°**	(E)(1) 4478 B14 (700) (E)(1) RRUS–32 B30 (WCS)	– –	**(P)(1) DC POWER**	

FINAL ANTENNA SCHEDULE (1 / A–5)
SCALE: N.T.S

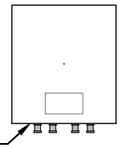
RRU CHART

QUANTITY	MODEL	SIZE (L x W x D)
3(P)	**4415 B25 (PCS)**	**16.5"x13.4"x5.9"**
3(P)	**4490 B5/B12A (850/700)**	**17.5"x15.1"x6.8"**
3(E)	4478 B14 (700)	18.1"X13.4"X8.3"
3(E)	RRUS–32 B30 (WCS)	27.2"x12.1"x7.0"
3(E)	RRUS–32 B66A (AWS)	27.2"x12.1"x7.0"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

NOTE:

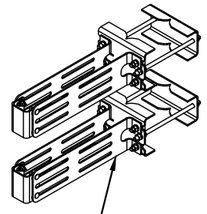
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER



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

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED RRUS DETAIL (2 / A–5)
SCALE: N.T.S



DUAL RRU MOUNT
(COMMSCOPE RR–FA2)
(TOTAL OF 3 PER SECTOR)

DUAL RRU MOUNT DETAIL (3 / A–5)
SCALE: N.T.S

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STATE OF VERMONT
DANIEL P. MAMA
NO. 8395
LICENSED
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AT&T

DETAILS
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
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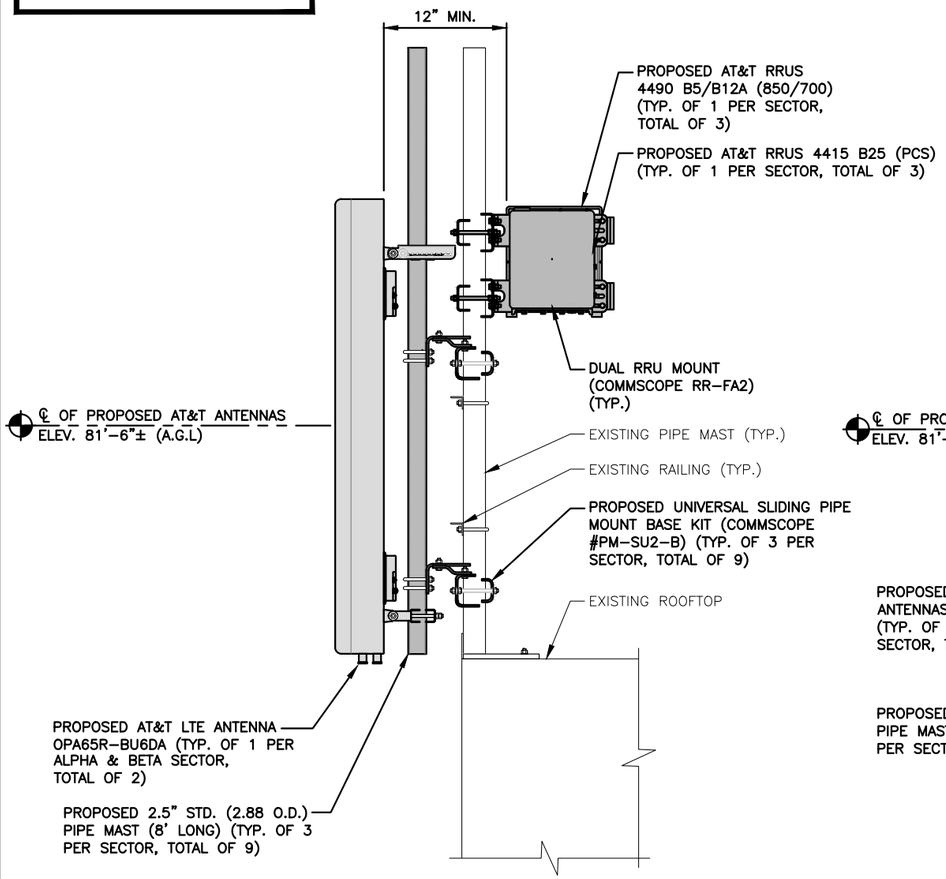
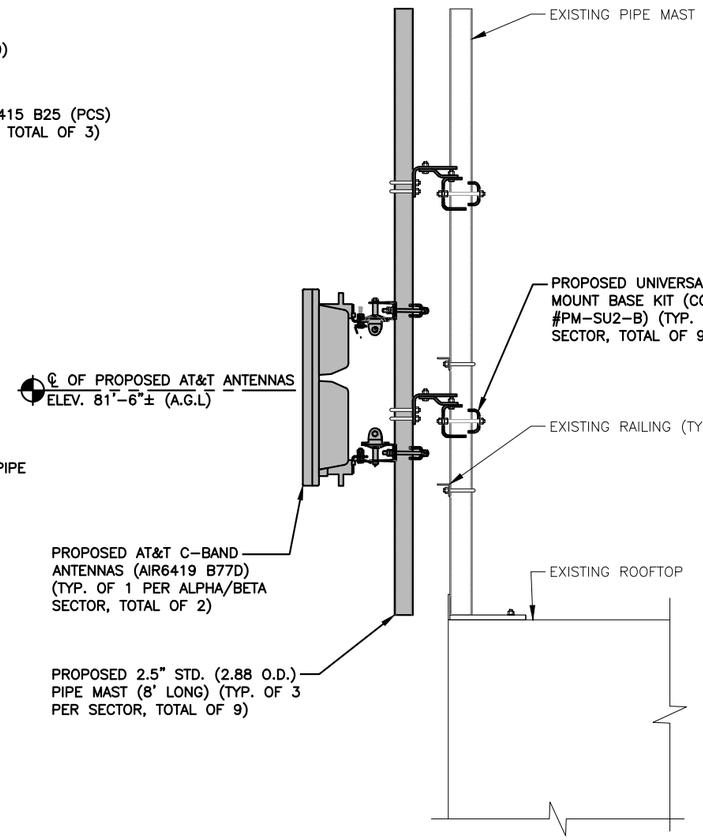


PROPOSED LTE ANTENNA MOUNTING DETAIL (1 / A-6)

22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

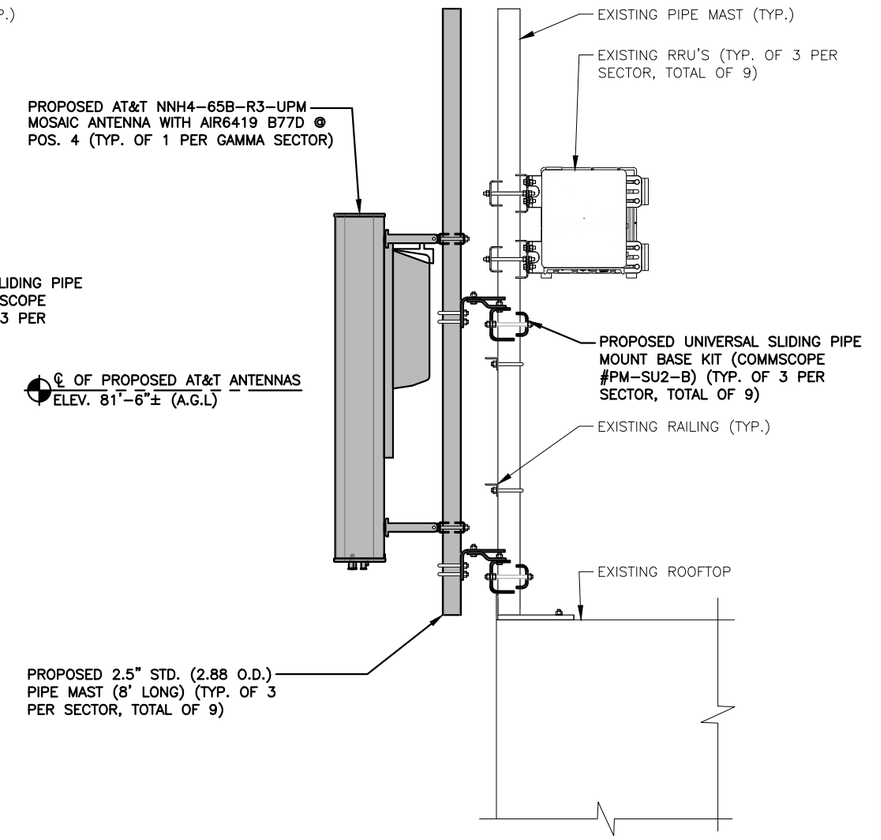
0 0'-6" 1'-0" 2'-0" 3'-0"



PROPOSED AIR ANTENNA MOUNTING DETAIL (ALPHA /BETA SECTORS) (2 / A-6)

22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

0 0'-6" 1'-0" 2'-0" 3'-0"



PROPOSED AIR ANTENNA MOUNTING DETAIL (GAMMA SECTOR) (3 / A-6)

22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

0 0'-6" 1'-0" 2'-0" 3'-0"

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NORTH ANDOVER, MA 01845
OFFICE: (978) 557-5553

12 INDUSTRIAL WAY
SALEM, NH 03079

SITE NUMBER: VTL06469
SITE NAME: RCC-DT ALBANS

79 WALNUT STREET
SAINT ALBANS, VT 05478
FRANKLIN COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
9	04/03/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
8	03/24/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
7	02/12/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
6	02/05/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
5	11/25/24	ISSUED FOR CONSTRUCTION	TR	AT	DPH

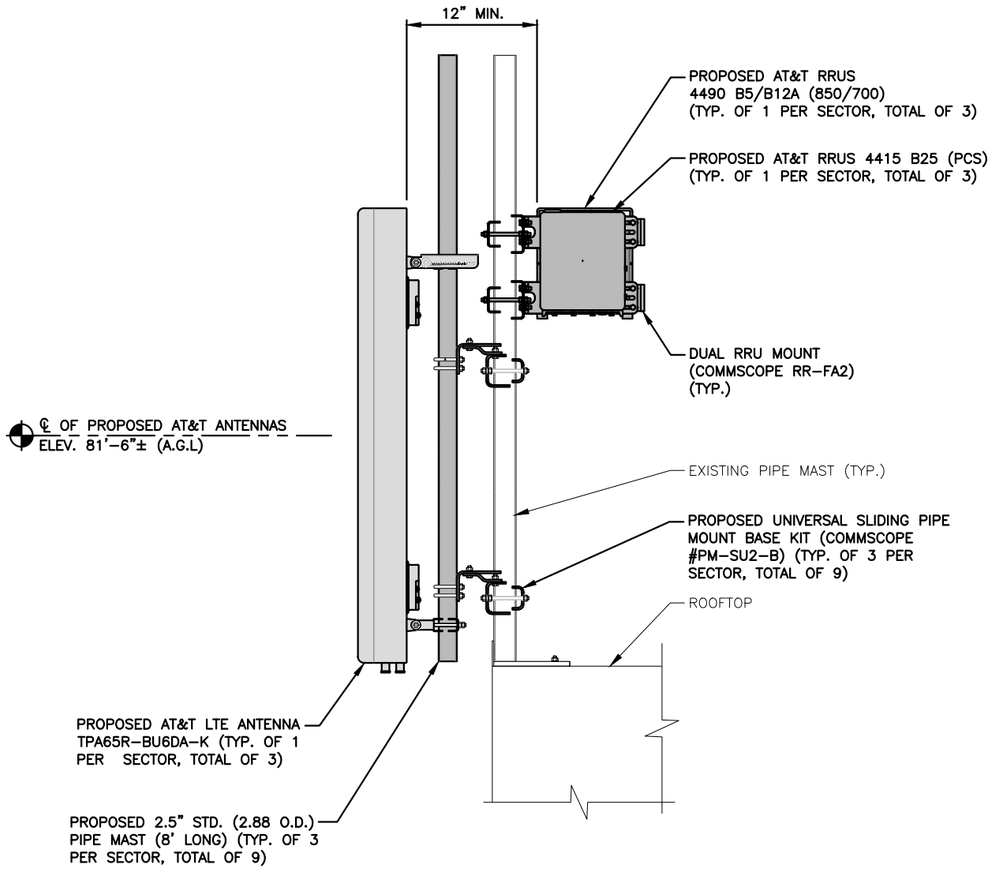
SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT
DANIEL P. HAMM
NO. 0395
LICENSED
PROFESSIONAL ENGINEER

AT&T

DETAILS
NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	A-6	9



PROPOSED LTE ANTENNA
MOUNTING DETAIL (GAMMA SECTOR) 1/A-7

22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

0 0'-6" 1'-0" 2'-0" 3'-0"

NOTE:

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

NOTE:

REFER TO **STRUCTURAL ANALYSIS** BY: TEP (TEP OPCO, LLC.). DATED: MARCH 21, 2025 (Rev.4). FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

TEP (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

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SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT
DANIEL P. MANN
No. 8795
LICENSED
PROFESSIONAL ENGINEER

AT&T

DETAILS
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	A-7	9

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND DI.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
16. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
19. SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

NOTES:

1. ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
2. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
3. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
4. VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
5. CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
6. EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

NOTES:

1. REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
2. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
3. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
4. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
5. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
6. AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

SPECIAL INSPECTION CHECKLIST

BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS [1]
N/A	MATERIAL SPECIFICATIONS REPORT [2]
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS [3]
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS [4]
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION [5]
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS [6]
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

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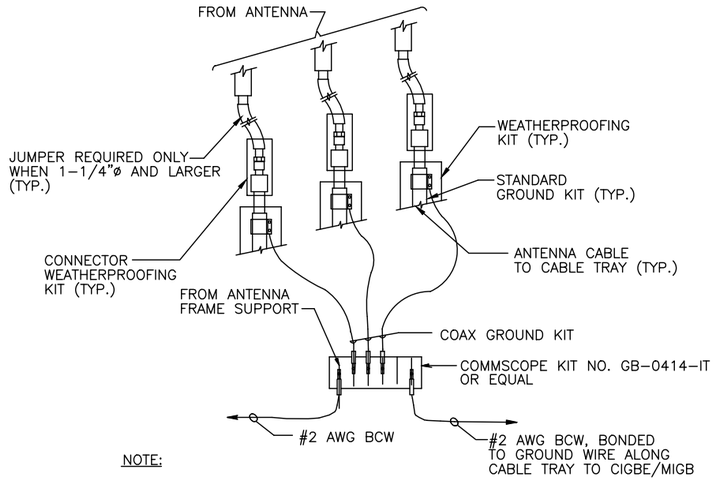
SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

STATE OF VERMONT — DANIEL P. HAMM — NO. 0395 — LICENSED — PROFESSIONAL ENGINEER

AT&T

STRUCTURAL NOTES
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	SN-1	9



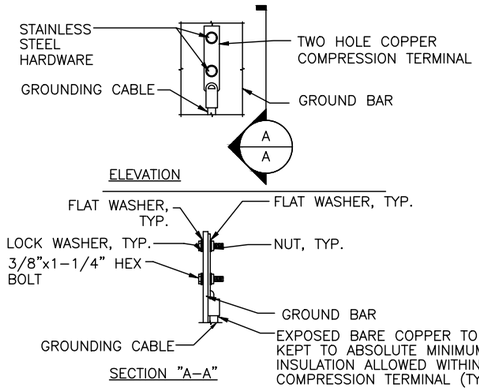
NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

1 / G-1



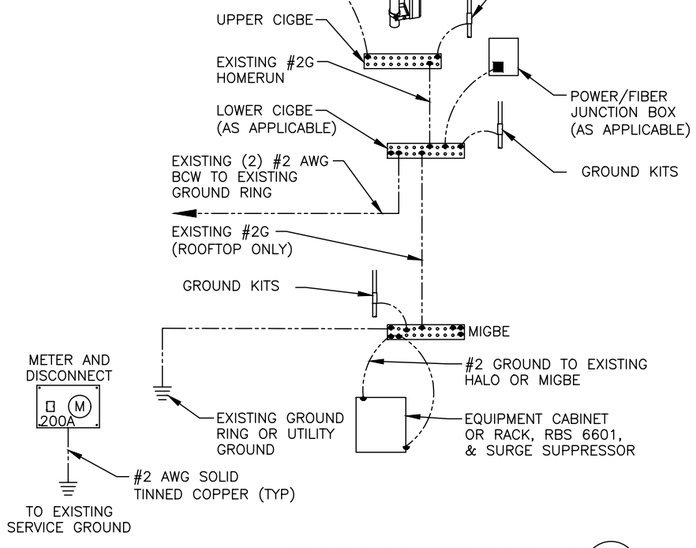
NOTES:

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

SCALE: N.T.S

3 / G-1



GROUNDING RISER DIAGRAM

SCALE: N.T.S

2 / G-1

AT&T GROUNDING STANDARDS TO BE FOLLOWED:

ATT-TP-76416
ATT-TP-76300
ATT-CEM-18002
ATT-002-290-531
ATT-002-290-701
ATT-CEM-23001

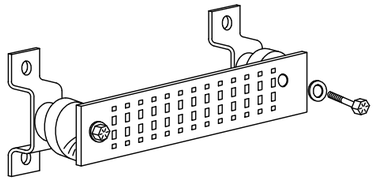
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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

4

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STATE OF VERMONT DANIEL P. HAMM 039595 LICENSED PROFESSIONAL ENGINEER

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GROUNDING DETAILS
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

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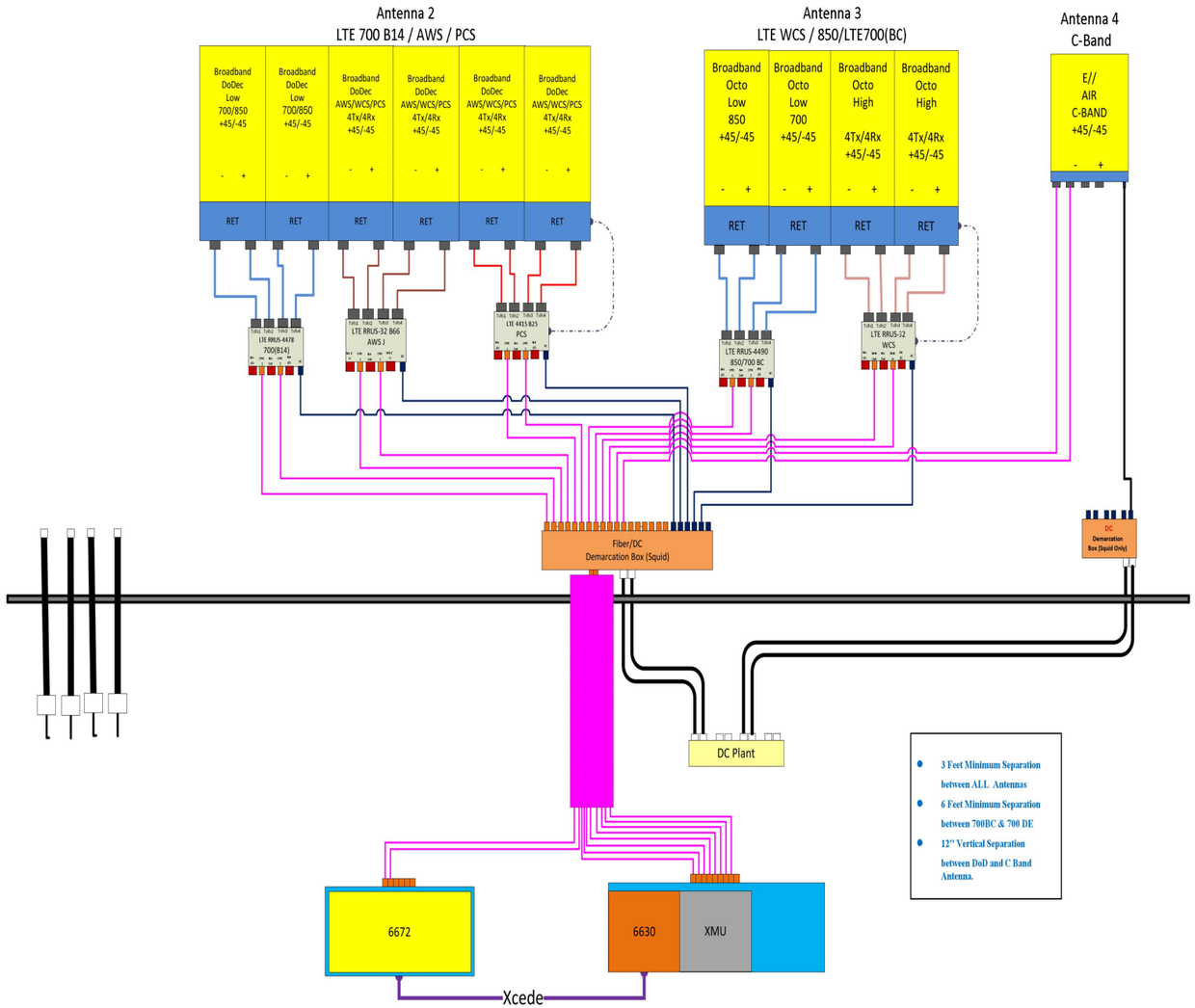
NOTE:

DATED: 03/07/2025
RFDS ID: 50367

Sector A



RF PLUMBING DIAGRAM (ALPHA) 1 / RF–1
SCALE: N.T.S

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS.
3. RFDS USED FOR REFERENCE.

NOTE:

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RF PLUMBING DIAGRAM (ALPHA)
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	RF–1	9

NOTE:

DATED: 03/07/2025
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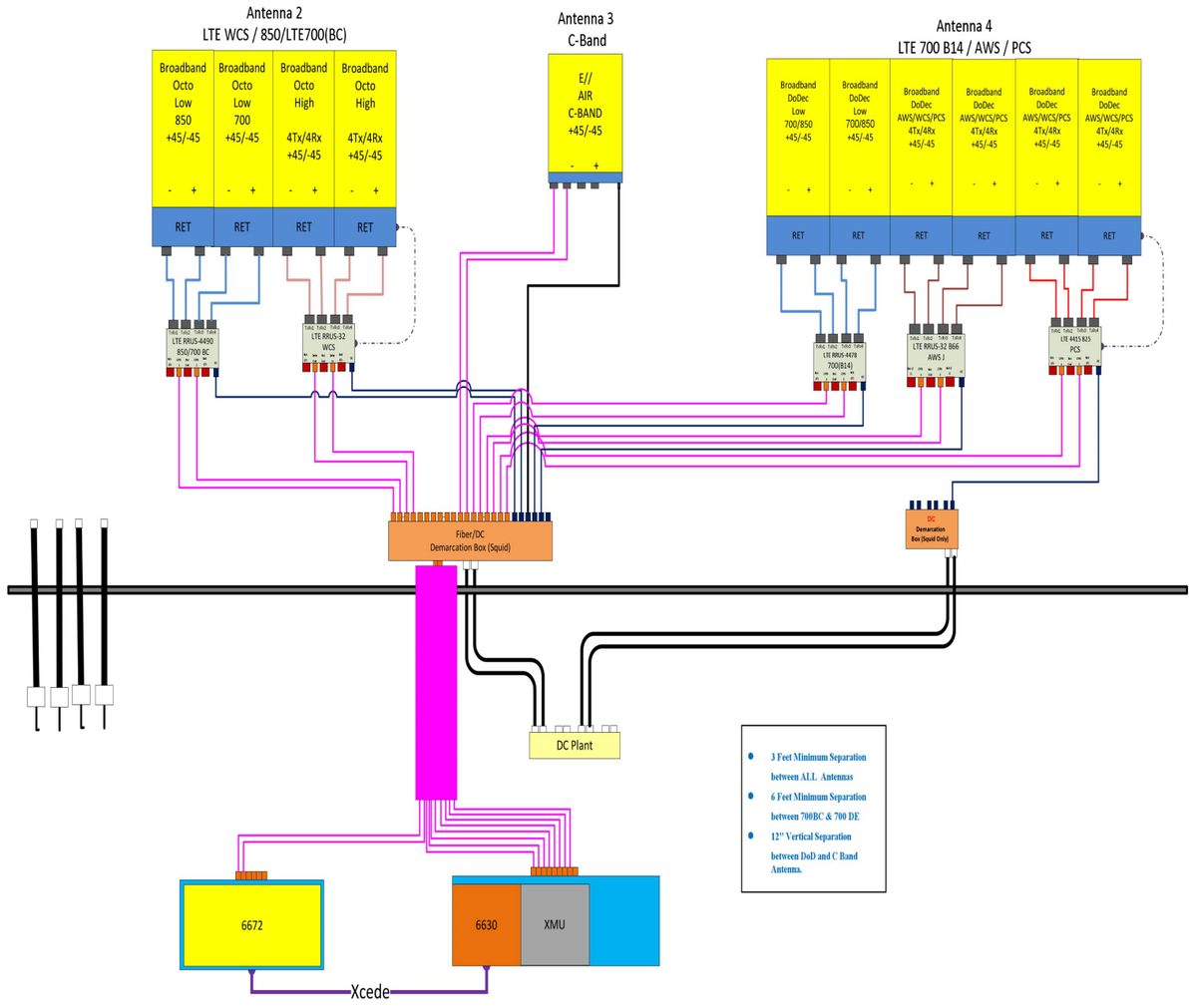
Sector B



RF PLUMBING DIAGRAM (BETA) 1 / RF–2
SCALE: N.T.S

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS.
2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS.
3. RFDS USED FOR REFERENCE.

NOTE:

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RF PLUMBING DIAGRAM (BETA)
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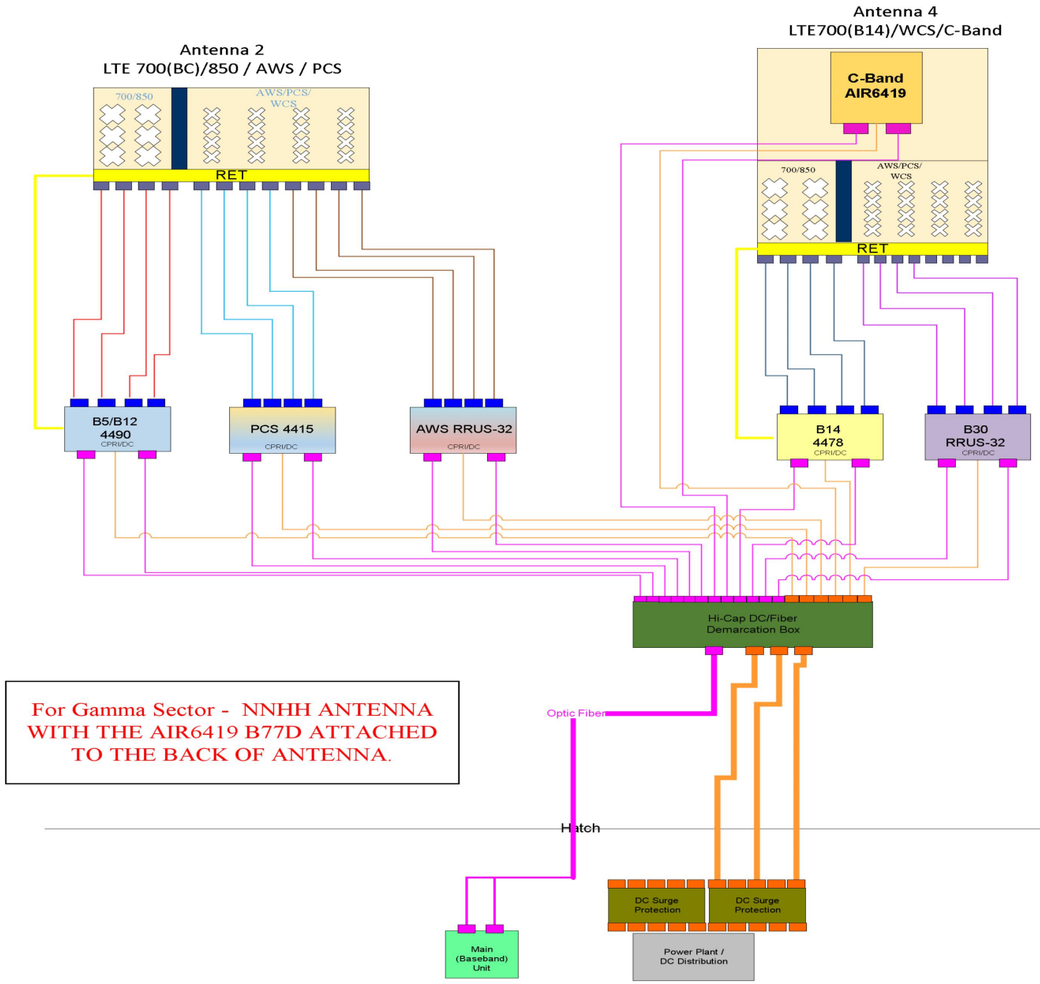
NOTE:

DATED: 03/07/2025
RFDS ID: 50367

Sector C



For Gamma Sector - NNHH ANTENNA WITH THE AIR6419 B77D ATTACHED TO THE BACK OF ANTENNA.

RF PLUMBING DIAGRAM (GAMMA) (1 / RF–3)

SCALE: N.T.S

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

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NO.	DATE	REVISIONS	BY	CHK	APP'D
9	04/03/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
8	03/24/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
7	02/12/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
6	02/05/25	ISSUED FOR CONSTRUCTION	GA	JC	DPH
5	11/25/24	ISSUED FOR CONSTRUCTION	TR	AT	DPH

SCALE: AS SHOWN | DESIGNED BY: BB | DRAWN BY: MR

AT&T

RF PLUMBING DIAGRAM (GAMMA)
5G NR UPGRADE, CELL SITE RF MODIFICATIONS,5G NR 1SR CBAND,5G NR ACTIVATION

SITE NUMBER	DRAWING NUMBER	REV
VTL06469	RF–3	9