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THIRD AMENDMENT TO REVOCABLE LICENSE AGREEMENT

This **Third Amendment to Revocable License Agreement** ("Third Amendment"), is entered into by and between the **Board of Education of the City of Chicago**, as Licensor ("Licensor"), and **New Cingular Wireless, PCS, LLC,** a Delaware limited liability company, as Licensee ("Licensee").

R E C I T A L S

A. Licensor and Licensee entered into that Revocable License Agreement, dated September 1, 2016 (the "Original Agreement"), that First Amendment to Revocable License Agreement, dated June 28, 2018 ("First Amendment"), that Second Amendment to Revocable License Agreement, dated April 5, 2021 ("Second Amendment", and together with the Original Agreement and the First Amendment shall be referred to as "Agreement") pursuant to which, Licensor agreed to permit Licensee to install equipment at Smyser Accelerated School, 4310 N. Melvina Avenue, Chicago, Illinois 60634 ("Property");

B. The current Term commenced as of March 1, 2022 and continues through February 28, 2027 ("Initial Term"), and is automatically renewed in five (5) year periods, provided that the Term, comprised of the Initial Term and all Renewal Terms, does not exceed twenty-five (25) years;

C. Licensor and Licensee desire to modify the Agreement to reflect the installation of certain additional equipment at the Property by Licensee.

A G R E E M E N T

NOW THEREFORE, for good and valuable consideration, the receipt and legal sufficiency of which are hereby acknowledged, Licensor and Licensee agree as follows.

1. Incorporation of Recitals. The foregoing recitals are incorporated into this Third Amendment by reference as if fully set forth in the body of this Third Amendment.

2. Additional Equipment. As set forth in the space plan attached as Exhibit "A" to this Third Amendment, Licensee shall: 1) remove three (3) existing, and install three (3) new, antennas; 2) install additional equipment at the antenna sectors; 3) paint all proposed antennas, equipment, frames, cable trays and conduit visible from the ground to match adjacent masonry; and 4) provide 3'0" clearance between cable trays and adjacent walls/parapets to allow access for repairs to roof flashing (collectively, the "Work"). The Work shall be completed, weather permitting, within ninety (90) days after the full execution of this Third Amendment. The Exhibit "A" attached to this Third Amendment shall amend and supplement the Exhibit "A" attached to the Agreement.

3. Administrative Fee. Licensee shall pay to Licensor a fee in the amount of Five Thousand Dollars ($5,000.00), in accordance with the terms of Section 5.2 of the Agreement.

4. Full Force and Effect. Except as specifically modified by the terms of this Third Amendment, all the terms, definitions, covenants, and provisions of the Agreement remain in full force and effect and are not otherwise revised, amended or changed.

5. Conflict. In the event of any conflict between the terms of this Third Amendment and the terms of the Agreement, the terms of this Third Amendment shall control.

6. Whole Agreement. The mutual obligations of the parties as provided herein are the sole consideration for this Third Amendment, and no representations, promises or inducements have been made by the parties other than as appear in this Third Amendment. This Third Amendment may not be amended except in writing signed by both parties.

IN WITNESS WHEREOF, Licensor and Licensee have executed this Third Amendment to Revocable License Agreement as of the 17th day of July, 2025.

LICENSOR

Board of Education of the City of Chicago

By: Signed by: Sean B. Harden 1DE3F1380D7645F... DS DFH

Sean B. Harden, President

Date: July 15, 2025 | 5:00:52 PM CDT

Attest: DocuSigned by: ADCB249319B6449...

Susan J. Narrajos, Secretary

By: Signed by: B0E10BAC8D764AF...

Macquline King, Ed.D/Interim Superintendent

Its: Chief Executive Officer

Approved as to Legal Form

By: DocuSigned by: 5BB562E0FFA44C9... DS DFH

Ruchi Verma, General Counsel

Board Report No.: 15-0422-OP1- 187

LICENSEE

New Cingular Wireless PCS, LLC

By: AT&T Mobility Corporation

Its: Manager

By: Signed by: EF497B05360D4E7...

Title: SRM

Date: 06-Jun-2025

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EXHIBIT "A"

SPACE PLAN

Docusign Envelope ID: 79E771A2-269A-4730-9510-639A4EE078D2

STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED

I CERTIFY THAT I AM THE DESIGN PROFESSIONAL OF RECORD FOR THIS PROJECT. I ALSO CERTIFY THAT TO THE BEST OF MY PROFESSIONAL KNOWLEDGE AND BELIEF THAT THE PLANS FOR

ADDRESS: 4310 N. MELVINA AVE. , CHICAGO, IL 60634

DO NOT NEED TO COMPLY

WITH THE REQUIREMENTS OF CHAPTER 18-13, ENERGY CONSERVATION OF THE MUNICIPAL CODE OF CHICAGO AS EFFECTIVE APRIL 22, 2009 OR THE STATE OF ILLINOIS ENERGY CONSERVATION CODE AS REQUIRED BY STATE LEGISLATION.

THE PROJECT NEED NOT COMPLY BECAUSE:

THE SCOPE OF WORK FOR THIS PROJECT DOES NOT INVOLVE MODIFICATIONS TO THE EXTERIOR ENVELOPE OF THE BUILDING, HVAC SYSTEMS, OR THE ELECTRICAL LIGHTING

SIGNED: DATE:

ARCHITECT

ILLINOIS LICENSE NUMBER: 001-014586

STATE OF ILLINOIS BANKS 001-014586 LICENSED ARCHITECT

PROJECT INFORMATION

SITE NAME:	SMYSER SCHOOL
COUNTY:	COOK
ADDRESS:	4310 N. MELVINA AVE. CHICAGO, IL 60634
SITE NUMBER:	IL0180
PTN:	3301A0XJ1L
PACE NUMBER:	MRCHI055713
JURISDICTION:	CITY OF CHICAGO
USID:	53196
ZONING:	M1-1
LATITUDE:	41° 57' 33.01992" N
LONGITUDE:	87° 46' 58.41012" W
PROPERTY OWNER:	THE BOARD OF EDUCATION OF THE CITY OF CHICAGO
LANDLORD CONTACT:	DEBORAH HILL PHONE: (312) 462-0414
APPLICANT:	AT&T WIRELESS 930 NATIONAL PARKWAY SCHAUMBURG, IL 60173
AT&T PROJECT MANAGER:	DONCO KOCESKI EMAIL: DK1012@ATT.COM

PROJECT CONSULTANTS

PROJECT MANAGEMENT:	MASTEC COMMUNICATION GROUP CONTACT: MICHAEL REBNER EMAIL: MICHAEL.REBNER@MASTEC.COM PHONE: (484) 239-9280
ARCHITECTURE & ENGINEERING:	JOHN M BANKS 604 FOX GLEN BARRINGTON, IL 60010 PHONE: (847) 277-0070
SITE ACQUISITION: MANAGEMENT:	MASTEC COMMUNICATION GROUP CONTACT: MICHAEL REBNER EMAIL: MICHAEL.REBNER@MASTEC.COM PHONE: (484) 239-9280
AT&T CONSTRUCTION MANAGER:	IFEY ONUA PHONE: (847) 330-3471 EMAIL: I01826@ATT.COM

THE DRAWINGS AND SPECIFICATIONS HAVE NOT BEEN REVIEWED FOR ENVIRONMENTAL SCOPE OF WORK. DISTURBANCE OF LEAD AND ASBESTOS ARE REGULATED FOR SCHOOLS. STATE AND FEDERAL REGULATIONS REQUIRE THAT ALL MATERIALS IN SCHOOLS MUST BE ASSUMED TO BE ASBESTOS CONTAINING BUILDING MATERIALS (ACBM). ANYONE WHO DRILLS, CUTS, OR OTHERWISE DISTURBS ANY SURFACE KNOWN OR ASSUMED TO BE ASBESTOS MUST BE AN ASBESTOS LICENSED CONTRACTOR. THEREFORE ANY DISTURBANCE TO ANY SURFACE (LEAD OR ASBESTOS) MUST BE DONE BY A LICENSED CONTRACTOR AND THE CPS MUST HAVE ENVIRONMENTAL REVIEW. CONTACT PRINS SALES, CPS ENVIROMENTAL COMPLIANCE MANAGER, FOR ANY WORK THAT MAY INVOLVE ENVIRONMENTAL REMEDIATION AT OCSALES@CPS.EDU OR 773-553-3155.

SITE PHOTO

AT&T

PROJECT:	5G NR 1SR CBAND
SITE #:	IL0180
FA#:	10029448
PTN#:	3301A0XJ1L
PACE#:	MRCHI055713
PIN #:	1317302037
JURISDICTION:	CITY OF CHICAGO
SITE NAME:	SMYSER SCHOOL
ADDRESS:	4310 N. MELVINA AVE. CHICAGO, IL 60634

DIGGER
CHICAGO UTILITY ALERT NETWORK
312-744-7000

SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

- REMOVE (3) EXISTING AT&T COMMSCOPE SBNHH-1D65B ANTENNAS IN POSITION 2
- REMOVE (3) EXISTING AT&T RRUS-32 IN POSITION 2
- REMOVE (6) EXISTING AT&T CSS DBC-750 DIPLEXERS IN POSITION 1
- REMOVE EXISTING AT&T (1) DC6-48-60-18-8C POWER ONLY
- INSTALL (3) NEW AT&T ERICSSON AIR6419 B77D ANTENNAS IN POSITION 2
- INSTALL (3) NEW AT&T CBC78T-DS-43 DIPLEXER
- INSTALL (6) NEW AT&T P2.0STD 6'-0" LONG MOUNTING PIPES W/(6) NEW AT&T RRU DUAL MOUNTS
- INSTALL NEW AT&T (1) DC9-48-60-18-8C-EV
- INSTALL NEW AT&T (1) 24PR FIBER TRUNK
- INSTALL NEW AT&T (1) #6 AWG DC POWER TRUNK
- TO RELOCATE (3) EXISTING AT&T 4449 B5/B12 RRH
- TO RELOCATE (3) EXISTING AT&T 4426 B66 RRH
- TO RELOCATE (3) EXISTING AT&T RRUS-32 B30
- TO RELOCATE (3) EXISTING AT&T 4478 B14 RRH
- TO RELOCATE (3) EXISTING AT&T 4415 B2/B25 RRH
- TO REMAIN (3) COMMSCOPE NNH4-65B-R6H4 ANTENNAS IN POSITION 1
- TO REMAIN (3) COMMSCOPE NNH4-65B-R6H4 ANTENNAS IN POSITION 4
- TO REMAIN (2) DC6-48-60-18-8C FULL SQUIDS.
- TO REMAIN (1) 18PR & (1) 12PR FIBER TRUNKS, (8) #6 AWG DC POWER TRUNKS & (6) 1-1/4" COAX CABLES

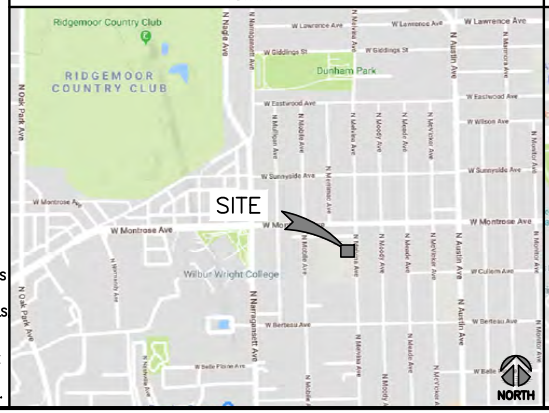
**NOTE: ALL PROPOSED ANTENNAS, EQUIPMENT, FRAMES, CABLE TRAYS, AND CONDUIT VISIBLE FROM THE GROUND SHOULD BE PAINTED TO MATCH THE ADJACENT MASONRY.

DRIVING DIRECTIONS

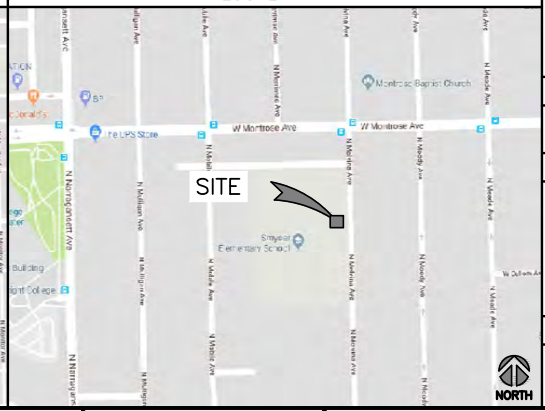
DRAWING INDEX

T1	TITLE SHEET
T2	CODE MATRIX
SP1	NOTES & SPECIFICATIONS
A1	OVERALL SITE PLAN
A1-A	ROOFTOP PLAN
A2	EQUIPMENT PLAN
A3	BUILDING ELEVATION
A4	ANTENNA PLAN
A5	ANTENNA & CABLE CONFIGURATION
A6	ANTENNA, RRU AND MOUNTING DETAILS
A7	CABLE NOTES, COLOR CODING & ANTENNA FRAME DETAIL
E1	UTILITY PLAN
G1	GROUNDING DETAILS

VICINITY MAP



LOCAL MAP



CODE COMPLIANCE

- 2019 CHICAGO BUILDING CODE
- ANSI/TIA-222 STRUCTURAL STANDARD FOR ANTENNA STRUCTURES
- NFPA 780 PROTECTION CODE

2019 CHICAGO ELECTRICAL CODE

REFERENCE MATERIALS

- THESE DRAWINGS ARE BASED AT&T SCOPING DOCUMENT DATED 08/05/2024

SPECIAL NOTES

- ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT AT&T CONSTRUCTION INSTALLATION GUIDE.
- EXISTING CONDITIONS WILL BE CHANGED & VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 11"X17" SHEET SIZE.
- STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED. -SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

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ae@westchesterservices.com

JOHN M. BANKS
ARCHITECT
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5G NR 1SR CBAND
10029448
SMYSER SCHOOL
4310 N. MELVINA AVE.
CHICAGO, IL 60634

REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
1	03/28/2025	PERMIT/CONSTRUCTION	SH
0	02/20/2025	PERMIT/CONSTRUCTION	CG
A	12/13/2024	ISSUED FOR REVIEW	CG

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSED STRUCTURAL ENGINEER
ABRAHAM J. ROKACH
081-004073
Exp. 11/30/2026
STATE OF ILLINOIS

SHEET TITLE	SHEET NUMBER
TITLE SHEET	T1

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CITY OF CHICAGO DEPARTMENT OF BUILDINGS GENERAL BUILDING REQUIREMENTS PER CHICAGO ORDINANACE (CZO) AND CHICAGO BUILDING CODE (CBC) 2018 EDITION

ITEM	ISSUE	GROUP/CHAPTER/PAGE	ORDINANCE REQUIREMENT	ACTUAL	REQUIREMENT N/A	LOCATION SHEET NO.	AGENCY TEST NO.	REMARKS
PART 1 – ZONING REQUIREMENTS								
1.01	ZONING DISTRICT	CZO TITLE 17				A–1		
1.02	LOT AREA				N/A	N/A		
1.03	MAXIMUM FLOOR AREA RATIO				N/A	N/A		
1.04	TOTAL BUILDING AREA				N/A	N/A		
1.05	BUILDING HEIGHT – NO. OF FLOORS				N/A	N/A		
1.06	MINIMUM YARDS				N/A	N/A		
1.07	GRADE ELEVATION (CCD)					T–1		
1.08	OFF STREET LOADING				N/A	N/A		
1.09	OFF STREET PARKING				N/A	N/A		
1.10	LANDSCAPING				N/A	N/A		
1.11	TOWNHOUSE ORDINANCE				N/A	N/A		
PART 2 – BUILDING REQUIREMENTS								
2.01	OCCUPANCY CLASSIFICATION (S)	3 (13–56) PAGE 156			N/A	N/A		
2.02	HEIGHT AND AREA LIMITATIONS	5 (13–48) PAGE 421			N/A	N/A		
	a) EXCEPTIONS TO AREA LIMITATIONS	5 (13–48–090) PAGE 425			N/A	N/A		
	b) MIXED OCCUPANCY BUILDINGS	5 (13–48–100) PAGE 426			N/A	N/A		
2.03	TYPES OF CONSTRUCTIONS	6 (13–60) PAGE 430			N/A	N/A		
2.04	MIXED OCCUPANCY SEPARATIONS	3 (13–56–230) PAGE 160			N/A	N/A		
2.05	REQ. HOURS OF FIRE RESISTANCE	6 (13–60–100) PAGE 432			N/A	N/A		
	EXTERIOR BEARINGS WALLS	TABLE 13–60–100, ROW 1			N/A	N/A		
	EXTERIOR – NONBEARING WALLS	TABLE 13–60–100, ROW 2			N/A	N/A		
	INTERIOR BEARING WALLS	TABLE 13–60–100, ROW 3			N/A	N/A		
	INTERIOR – NONBEARING WALLS	TABLE 13–60–100, ROW 4			N/A	N/A		
	COLUMNS	TABLE 13–60–100, ROW 5			N/A	N/A		
	COLUMNS SUPPORTING ROOFS ONLY	TABLE 13–60–100, ROW 6			N/A	N/A		
	BEAMS	TABLE 13–60–100, ROW 7			N/A	N/A		
	BEAMS SUPPORTING ROOFS ONLY	TABLE 13–60–100, ROW 8			N/A	N/A		
	FLOOR CONSTRUCTION	TABLE 13–60–100, ROW 9			N/A	N/A		
2.06	ELEVATOR FRAMING	6 (13–60–130) PAGE 433			N/A	N/A		
2.07	MEZZANINE FLLORS	6 (13–60–160) PAGE 433			N/A	N/A		
2.08	BASEMENT CONSTRUCTION	6 (13–60–170) PAGE 433			N/A	N/A		
2.09	DRIVEWAYS AND LOADING SPACES	6 (13–60–210) PAGE 434			N/A	N/A		
2.10	FIRE – RESISTIVE REQUIREMENTS	7 (15–08) PAGE 435			N/A	N/A		
	a) FIRE WALLS – CONSTRUCTION	7 (15–8–10) PAGE 435			N/A	N/A		
	b) PARAPETS	7 (15–8–50) PAGE 436			N/A	N/A		
	c) STAIRWAY ENCLOSURES	7 (15–8–140) PAGE 438			N/A	N/A		
	d) ELEVATOR ENCLOSURES	7 (15–8–150) PAGE 438			N/A	N/A		
	e) ENCLOSURES OF HEATING ROOMS	7 (15–8–190) PAGE 440			N/A	N/A		
	f) ENCLOSURES OF WELLS AND CHUTES	7 (15–8–170) PAGE 439			N/A	N/A		
	g) OTHER ENCLOSURES	7 (15–8–240) PAGE 440–442			N/A	N/A		
	h) INTERIOR WALL AND CEILING FINISHES	7 (15–8–380) PAGE 444			N/A	N/A		
	i) STORAGE ROOMS OVER 100 SQ. FT.	7 (15–8–240) (b) PAGE 442			N/A	N/A		
2.11	FIRE – RESISTIVE MATERIAL AND CONSTRUCTION	7 (15–12) PAGE 448			N/A	N/A		
2.12	ACCEPTED ENGINEERING PRACTICE RECOGNIZED AGENCIES	7 (15–12–050) PAGE 449			N/A	N/A		
2.13	FIRE PROTECTION EQUIPMENT	9 (15–16) PAGE 454			N/A	N/A		
	a) SPRINKLER SYSTEMS	9 (15–16–010) PAGE 455			N/A	N/A		
	b) SPECIAL REQUIREMENTS	9 (15–16–030) PAGE 455–456			N/A	N/A		
PART 3 – EXIT REQUIREMENTS								
3.01	TYPES OF EXITS	10 (13–160–030) PAGE 487			N/A	N/A		
3.02	MINIMUM NUMBER OF EXITS	10 (13–160–050) PAGE 488–490			N/A	N/A		
3.03	TRAVEL DISTANCE OF EXITS	10 (13–160–110) PAGE 491			N/A	N/A		
	a) INCREASES PERMITTED	10 (13–160–150) PAGE 491			N/A	N/A		
	b) DEAD END CORRIDOR	10 (13–160–160) PAGE 491–492			N/A	N/A		
3.04	CAPACITY OF EXITS	10 (13–160–210) PAGE 492			N/A	N/A		
3.05	MINIMUM WIDTH OF EXITS	10 (13–160–220) PAGE 492–493			N/A	N/A		
3.06	SWING OF EXIT DOOR	10 (13–160–250) PAGE 494			N/A	N/A		
3.07	HARDWARE	10 (13–160–260) PAGE 494			N/A	N/A		
3.08	REVOLVING DOORS	10 (13–160–270) PAGE 496			N/A	N/A		
3.09	LANDINGS	10 (13–160–310) PAGE 496			N/A	N/A		
3.10	HANDRAILS	10 (13–160–320) PAGE 496–497			N/A	N/A		
3.11	CONSTRUCTION	10 (13–160–330) PAGE 497			N/A	N/A		
3.12	ENCLOSURES	7 (15–8–140) PAGE 438			N/A	N/A		
3.13	HEAD ROOM	10 (13–160–350) PAGE 497			N/A	N/A		

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JOHN M. BANKS
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JBANKS@WESTCHESTERSERVICES.COM

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NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

EXP. 11/30/2026
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BANKS
001-014586
LICENSED ARCHITECT
DATE: 03/28/2025
"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE CITY OF CHICAGO"

SHEET TITLE
CODE MATRIX

SHEET NUMBER
T2

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GENERAL CONSTRUCTION:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR/CM – MASTEC NETWORK SOLUTIONS
   SUB–CONTRACTOR – PER TRADE
   OWNER – AT&T WIRELESS
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND AT&T PROJECT SPECIFICATIONS.
3. GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTIONS OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFOR, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD BE THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWING, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFIRM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. CONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2–A OT 2–A:10–B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE–APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS–BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IN LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWING PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.

ANTENNA MOUNTING

40. DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA–222 OR APPLICABLE LOCAL CODES.
41. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT–DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
42. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC–COATING (HOT–DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
43. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
44. ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUE TO MANUFACTURER'S RECOMMENDATIONS.
45. CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
46. ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50–OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
47. PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/– 0.5% AS DEFINED BY THE RFDS. REFER TO ND–00246.
48. JUMPERS FROM THE TMA'S MUST BE TERMINATED TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
49. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
50. TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.

TORQUE REQUIREMENTS

51. ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
52. ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
    A. RF CONNECTION BOTH SIDES OF THE CONNECTOR.
    B. GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.

FIBER & POWER CABLE MOUNTING

53. THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO A CALBE TRYA SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPS. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
54. THE TYPE TC–ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AND EXCEPTION; WHERE TYPE TC–ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL TRAYS, OR CABLE TRAY WHICH ARE SERVING SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
55. WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC–ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

COAXIAL CABLE NOTES

62. TYPES AND SIZES OF THE ANTENNA CABLE ARE BASED ON ESTIMATED LENGTHS. PRIOR TO ORDERING CABLE, CONTRACTOR SHALL VERIFY ACTUALLY BASED ON CONSTRUCTION LAYOUT AND NOTIFY THE PROJECT MANAGER IF ACTUAL LENGTHS EXCEED ESTIMATED LENGTHS.
63. CONTRACTOR SHALL VERIFY THE DOWN–TILT OF EACH ANTENNA WITH A DIGITAL LEVEL.
64. CONTRACTOR SHALL CONFIRM COAX COLOR CODING PRIOR TO CONSTRUCTION.
65. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE SHALL BE 1/2" DIA. LDF AND SHALL NOT EXCEED 6'–0".
66. ALL COAXIAL CABLE SHALL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE, IN AN APPROVED MANNER, AT DISTANCES NOT TO EXCEED 4'–0" OC.
67. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS REGARDING BOTH THE INSTALLATION AND GROUNDING OF ALL COAXIAL CABLES, ANTENNAS, AND ALL OTHER EQUIPMENT.
68. CONTRACTOR SHALL GROUND ALL EQUIPMENT, INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES, AND RET CONTROL CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATION.
69. CONTRACTOR SHALL PROVIDE STRAIN–RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND RET CONTROL CABLES. CABLE STAIN–RELIEFS AND CABLE SUPPORT SHALL BE APPROVED FOR THE PURPOSE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
70. CONTRACTOR TO VERIFY THAT EXISTING COAX HANGERS ARE STACKABLE SNAP IN HANGERS. IF EXISTING HANGERS ARE NOT STACKABLE SNAP IN HANGERS THE CONTRACTOR SHALL REPLACE EXISTING HANGERS WITH NEW SNAP IN HANGERS IF APPLICABLE.

GENERAL CABLE AND EQUIPMENT NOTES

71. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE A MODELS PRIOR TO INSTALLATION.
72. ALL CONNECTIONS, FOR HANGERS SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
73. CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
74. ALL OUTDOOR RF CONNECTIONS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE–HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES, WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
75. IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
    A. TEMPERATURE SHALL BE ABOVE 50°F.
    B. PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
    C. FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
    D. DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
76. ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUND KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS
    A. GROUNDING AT THE ANTENNA LEVEL.
    B. GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'–0", ADDITIONAL CABLE GROUNDING REQUIRED.
    C. GROUNDING AT BASE OF TOWER TO TURNING HORIZONTAL.
    D. GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
    E. GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
77. ALL PROPOSED GROUND BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUND BAR DOWNLEADS A MINIMUM DISTANCE OF 4'–0" BELOW GROUND BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.

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REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
1	03/28/2025	PERMIT/CONSTRUCTION	SH
0	02/20/2025	PERMIT/CONSTRUCTION	CG
A	12/13/2024	ISSUED FOR REVIEW	CG

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EXP. 11/30/2026
STATE OF ILLINOIS
JOHN M. BANKS
001-014586
LICENSED ARCHITECT
DATE: 03/28/2025
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SHEET TITLE
NOTES & SPECIFICATIONS

SHEET NUMBER
SP1

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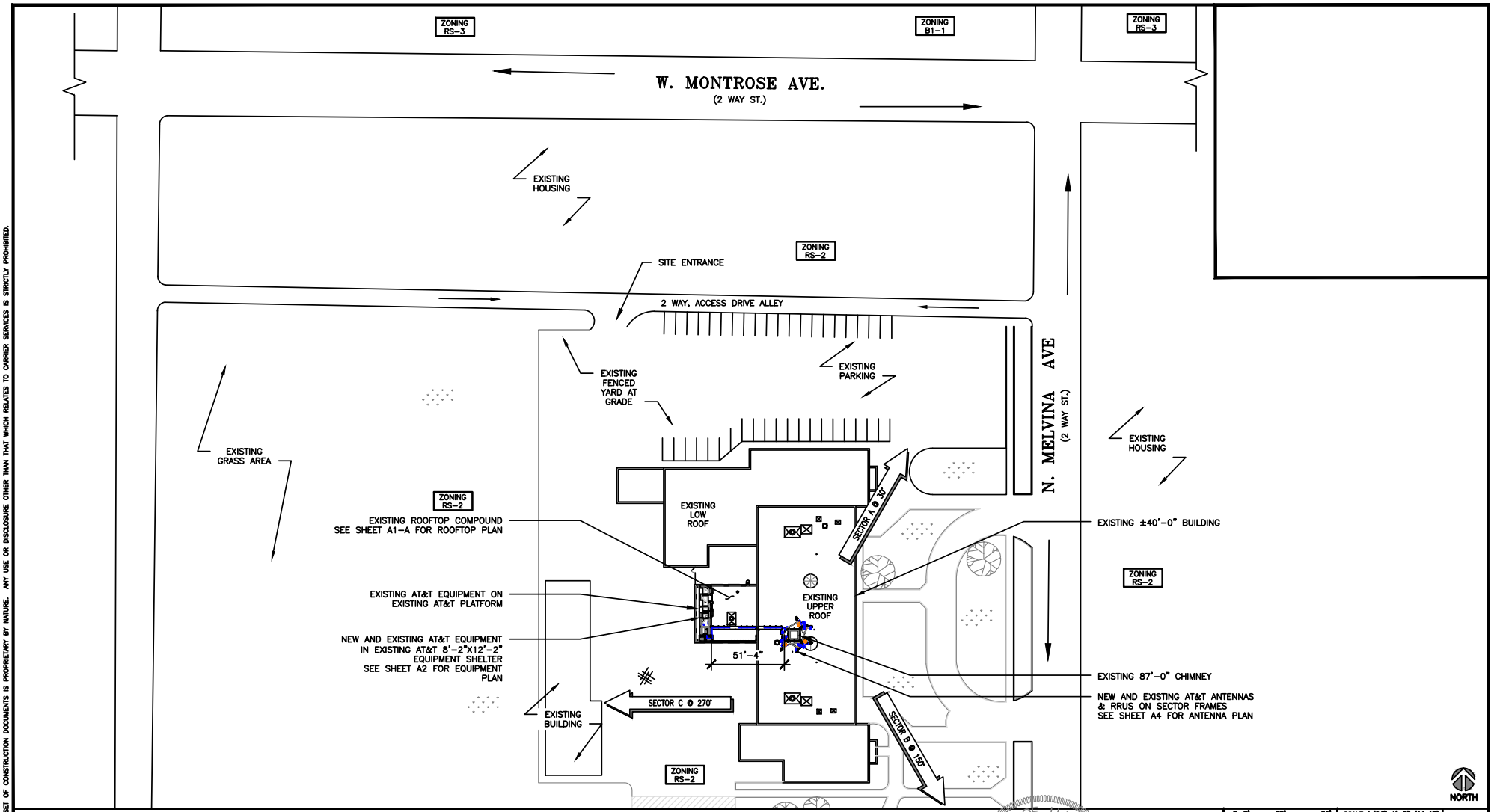

OVERALL SITE PLAN

0 8' 32' 64'

SCALE: 1/64"=1'-0" (11x17)
(OR) 1/32"=1'-0" (22x34)

1

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OVERALL SITE PLAN

SHEET NUMBER
A1

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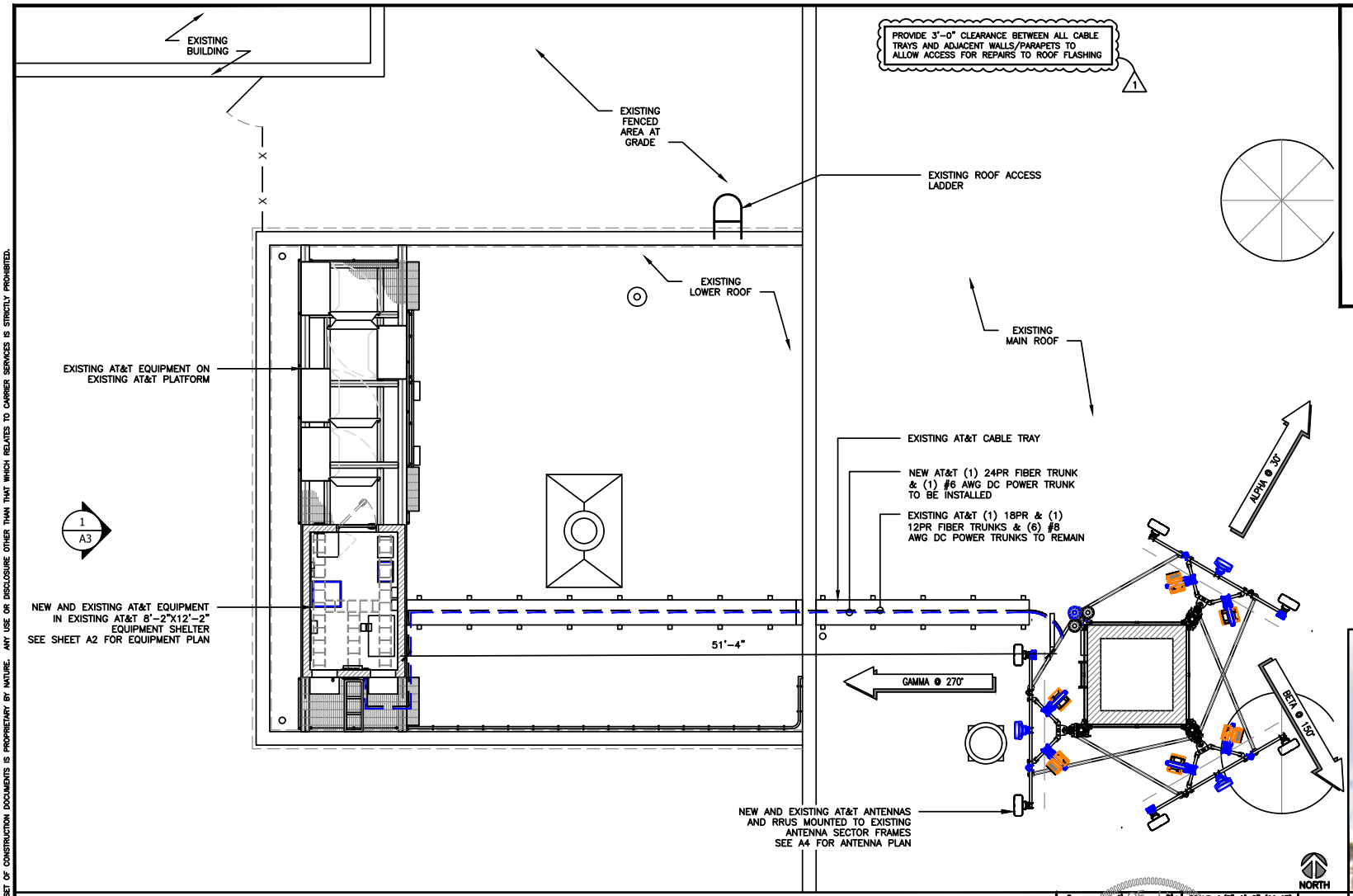

ROOFTOP PLAN

SCALE: 1/8"=1'-0" (11x17)
(OR) 1/16"=1'-0" (22x34)

2 | SITE PHOTO 1 | NO SCALE | 1

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ROOFTOP PLAN

SHEET NUMBER
A1-A

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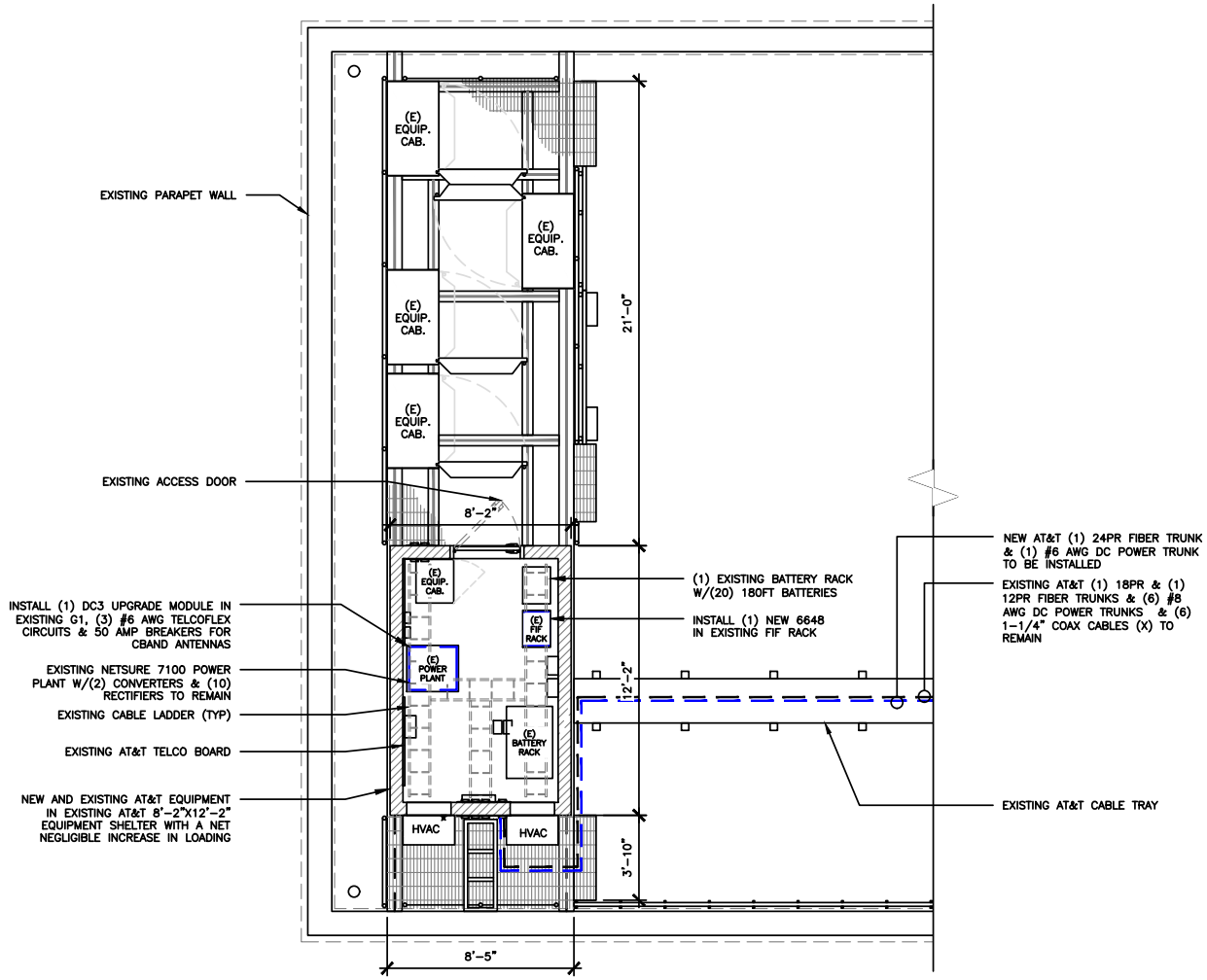
• NOTE: EXISTING EQUIPMENT TO BE UPGRADED AS NEEDED TO SUPPORT 4C/5C EQUIPMENT BEING INSTALLED.



EQUIPMENT PLAN

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

1

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EQUIPMENT PLAN

SHEET NUMBER
A2

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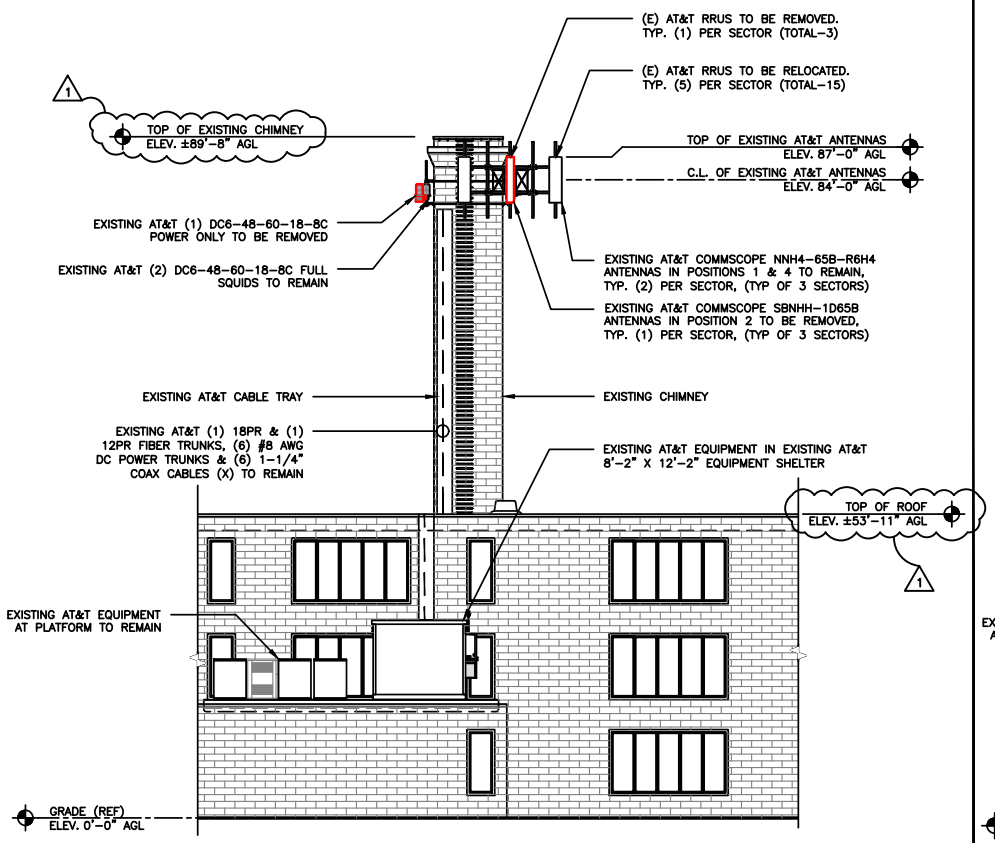
STRUCTURAL NOTES:

- STRUCTURAL CALCULATIONS PREPARED BY "FULLERTON" DATED 02/20/2025. CONTRACTOR TO VERIFY WITH PROJECT MANAGER TO OBTAIN A COPY.
- CONTRACTOR TO REFER TO STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF STRUCTURE SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

NOTE:
GENERAL CONTRACTOR SHALL MAKE SURE SAFETY CLIMB IS 100% FREE OF COAX AND MOUNTS AFTER INSTALL IS COMPLETE.

NOTE: ALL NEW APPURTENANCES AND/OR AREAS IMPACTED BY IMPROVEMENTS WHICH ARE VISIBLE FROM THE GROUND SHALL BE PAINTED TO MATCH ADJACENT MASONRY
DO NOT PAINT RRUS

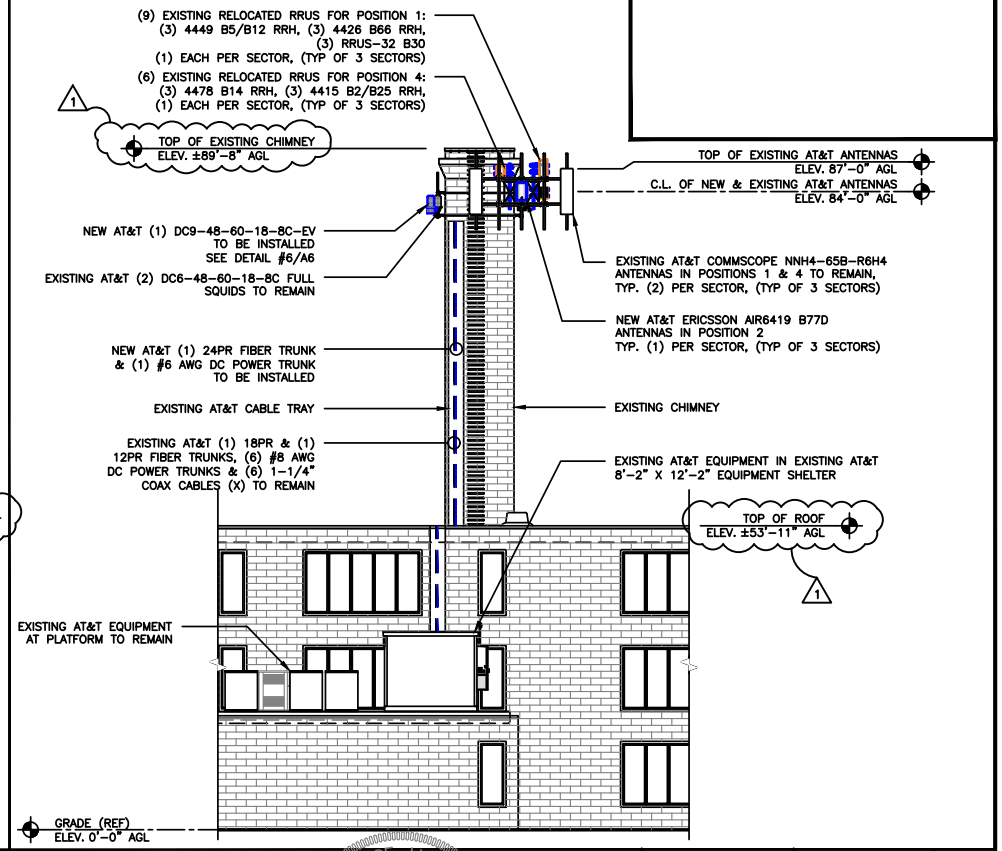


EXISTING TOWER ELEVATION

0 2' 8' 16'

SCALE: 1/16"=1'-0" (11x17)
(OR) 1/8"=1'-0" (22x34)

2



NEW TOWER ELEVATION

0 2' 8' 16'

SCALE: 1/16"=1'-0" (11x17)
(OR) 1/8"=1'-0" (22x34)

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A3

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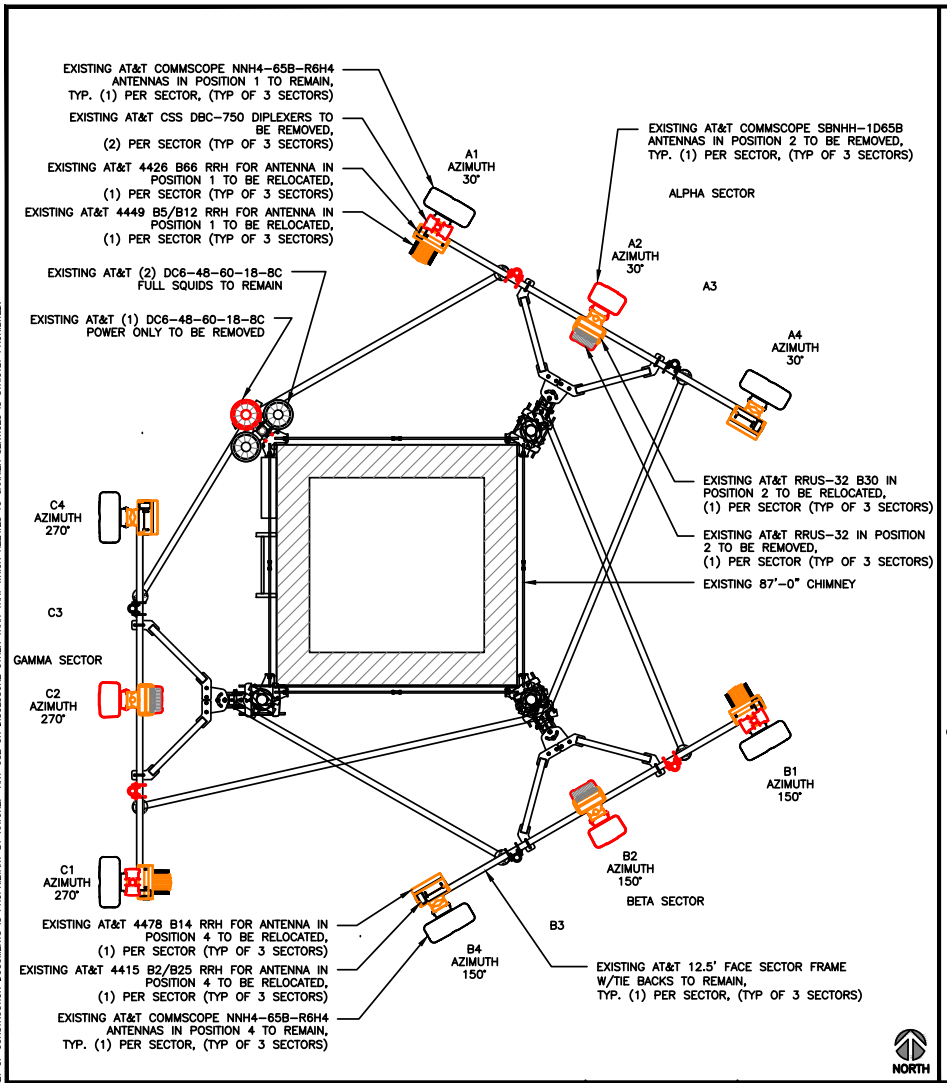
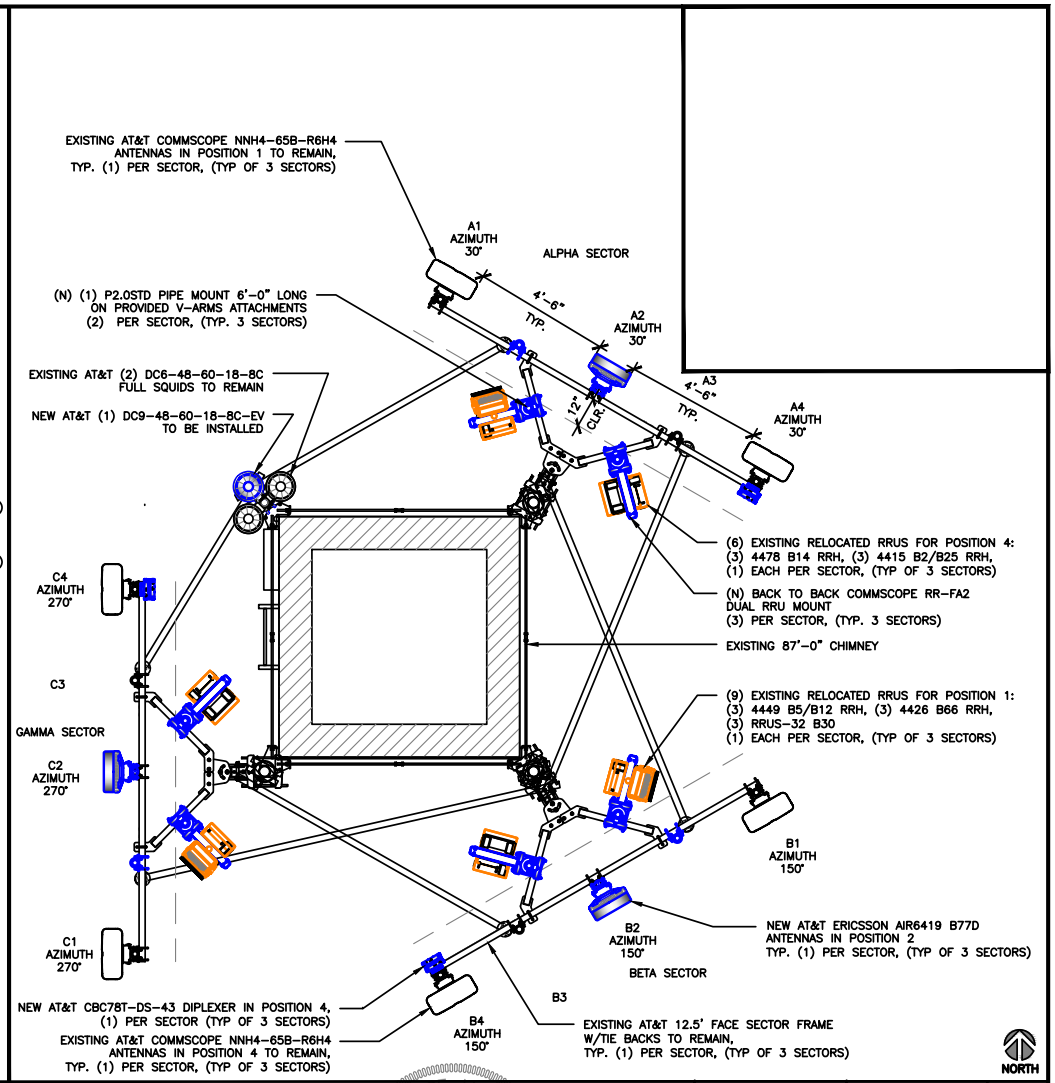


EXISTING ANTENNA PLAN

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

2



NEW ANTENNA PLAN

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

1

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REVISIONS

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1	03/28/2025	PERMIT/CONSTRUCTION	SH
0	02/20/2025	PERMIT/CONSTRUCTION	CG
A	12/13/2024	ISSUED FOR REVIEW	CG

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EXP. 11/30/2026
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BANKS
001-014586
LICENSED ARCHITECT
DATE: 03/28/2025
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SHEET TITLE
ANTENNA PLAN

SHEET NUMBER
A4

Docusign Envelope ID: 79E771A2-269A-4730-9510-639A4EE078D2

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EXISTING											
SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	MODEL	RAD CENTER (AGL)	AZIMUTH	COAX CABLES	TRUNK CABLES	TMA'S	TOWER DIPLEXERS	RRU'S	OTHER DEVICES
ALPHA	LTE 700/AWS 5G 850	#1	(X) COMMSCOPE NNH4-65B-R6H4	84'-0"	30°	(6) 1-1/4" COAX CABLES (X)	(1) 18PR & (1) 12PR FIBER TRUNKS (X) (6) #8 AWG DC POWER TRUNKS (X)	N/A	(2) CSS DBC-750 DIPLEXERS	(1) 4449 B5/B12 RRH (XR) (1) 4426 B66 RRH (XR)	(2) DC6-48-60-18-8C FULL SQUIDS (X) (1) DC6-48-60-18-8C POWER ONLY (R)
	LTE WCS UMTS 850	#2	(R) COMMSCOPE SBNHH-1D65B					N/A	N/A	(1) RRUS-32 B30 (XR) (1) RRUS-32 (R)	
	-	#3	-					N/A	N/A	N/A	
	LTE 700/1900	#4	(X) COMMSCOPE NNH4-65B-R6H4					N/A	N/A	(1) 4478 B14 RRH (XR) (1) 4415 B2/B25 RRH (XR)	
BETA	LTE 700/AWS 5G 850	#1	(X) COMMSCOPE NNH4-65B-R6H4	84'-0"	150°			N/A	(2) CSS DBC-750 DIPLEXERS	(1) 4449 B5/B12 RRH (XR) (1) 4426 B66 RRH (XR)	
	LTE WCS UMTS 850	#2	(R) COMMSCOPE SBNHH-1D65B					N/A	N/A	(1) RRUS-32 B30 (XR) (1) RRUS-32 (R)	
	-	#3	-					N/A	N/A	N/A	
	LTE 700/1900	#4	(X) COMMSCOPE NNH4-65B-R6H4					N/A	N/A	(1) 4478 B14 RRH (XR) (1) 4415 B2/B25 RRH (XR)	
GAMMA	LTE 700/AWS 5G 850	#1	(X) COMMSCOPE NNH4-65B-R6H4	84'-0"	270°			N/A	(2) CSS DBC-750 DIPLEXERS	(1) 4449 B5/B12 RRH (XR) (1) 4426 B66 RRH (XR)	
	LTE WCS UMTS 850	#2	(R) COMMSCOPE SBNHH-1D65B					N/A	N/A	(1) RRUS-32 B30 (XR) (1) RRUS-32 (R)	
	-	#3	-					N/A	N/A	N/A	
	LTE 700/1900	#4	(X) COMMSCOPE NNH4-65B-R6H4					N/A	N/A	(1) 4478 B14 RRH (XR) (1) 4415 B2/B25 RRH (XR)	

THE DESIGN SHOWN ON THESE DRAWINGS IS BASED ON INFORMATION GATHERED FROM AT&T RFDS AT&T RFDS V2020_1.00 DATED 11/22/2024

EXISTING											
SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	MODEL	RAD CENTER (AGL)	AZIMUTH	COAX CABLES	TRUNK CABLES	TMA'S	TOWER DIPLEXERS	RRU'S	OTHER DEVICES
ALPHA	LTE 700/AWS/WCS 5G 850	#1	(X) COMMSCOPE NNH4-65B-R6H4	84'-0"	30°	(6) 1-1/4" COAX CABLES (X)	(1) 18PR & (1) 12PR FIBER TRUNKS (X) (6) #8 AWG DC POWER TRUNKS (X) (1) 24PR FIBER TRUNK (N) (1) #6 AWG DC POWER TRUNK (N) (6) 1-1/4" COAX CABLES (X)	N/A	N/A	(1) 4449 B5/B12 RRH (XR) (1) 4426 B66 RRH (XR) (1) RRUS-32 B30 (XR)	(2) DC6-48-60-18-8C FULL SQUIDS (X) (1) DC9-48-60-18-8C-EV (N)
	C-BAND	#2	(N) ERICSSON AIR6419 B77D					N/A	N/A	N/A	
	-	#3	-					N/A	N/A	N/A	
	LTE 700/1900	#4	(X) COMMSCOPE NNH4-65B-R6H4					N/A	(1) CBC78T-DS-43 DIPLEXER (N)	(1) 4478 B14 RRH (XR) (1) 4415 B2/B25 RRH (XR)	
BETA	LTE 700/AWS/WCS 5G 850	#1	(X) COMMSCOPE NNH4-65B-R6H4	84'-0"	150°			N/A	N/A	(1) 4449 B5/B12 RRH (XR) (1) 4426 B66 RRH (XR) (1) RRUS-32 B30 (XR)	
	C-BAND	#2	(N) ERICSSON AIR6419 B77D					N/A	N/A	N/A	
	-	#3	-					N/A	N/A	N/A	
	LTE 700/1900	#4	(X) COMMSCOPE NNH4-65B-R6H4					N/A	(1) CBC78T-DS-43 DIPLEXER (N)	(1) 4478 B14 RRH (XR) (1) 4415 B2/B25 RRH (XR)	
GAMMA	LTE 700/AWS/WCS 5G 850	#1	(X) COMMSCOPE NNH4-65B-R6H4	84'-0"	270°			N/A	N/A	(1) 4449 B5/B12 RRH (XR) (1) 4426 B66 RRH (XR) (1) RRUS-32 B30 (XR)	
	C-BAND	#2	(N) ERICSSON AIR6419 B77D					N/A	N/A	N/A	
	-	#3	-					N/A	N/A	N/A	
	LTE 700/1900	#4	(X) COMMSCOPE NNH4-65B-R6H4					N/A	(1) CBC78T-DS-43 DIPLEXER (N)	(1) 4478 B14 RRH (XR) (1) 4415 B2/B25 RRH (XR)	

*INCLUDES SAFETY FACTOR OF 20' FT. (10 FT. AT BOTH ENDS OF CABLE RUN). CONTRACTOR TO VERIFY RF DATA WITH AT&T WIRELESS CONSTRUCTION MANAGER AND/OR RF ENGINEER PRIOR TO INSTALLATION

(N) = NEW
(X) = EXISTING
(XR) = EXISTING/RELOCATED
(E) = ELECTRICAL
(M) = MECHANICAL

ANTENNA & CABLE CONFIGURATION

NOT TO SCALE | 1

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SHEET TITLE
ANTENNA & CABLE CONFIGURATION

SHEET NUMBER
A5

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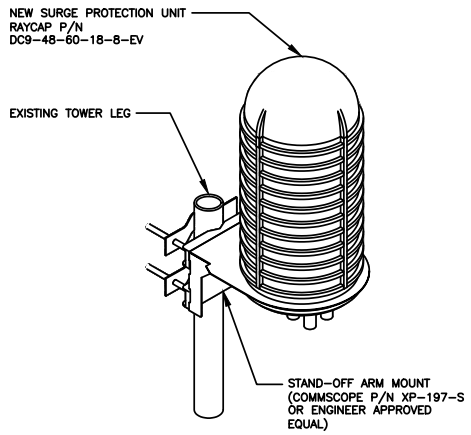
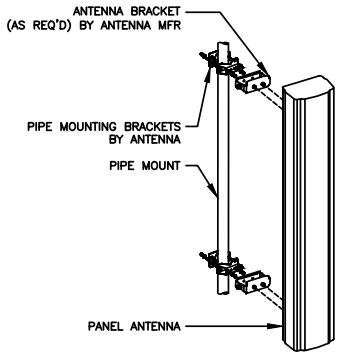


DC9-48-60-18-8-EV DETAIL | NOT TO SCALE | 6



ANTENNA MOUNTING DETAIL | NOT TO SCALE | 4

NOT USED | NOT TO SCALE | 2

CBC78T-DS-43 | E14F05P19

Twin Diplexer, 698–803/824–894MHz, DC Sense, 4.3-10

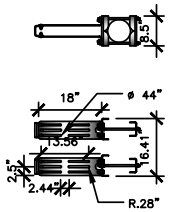
- Automatic dc switching with dc sense
- Convertible mounting brackets
- Stackable in multiples with included hardware
- New 4.3-10 connectors for improved PIM performance and size reduction

Dimensions

Height	162 mm	6.378 in
Width	176 mm	6.929 in
Depth	121 mm	4.764 in
Ground Screw Diameter	6 mm	0.236 in

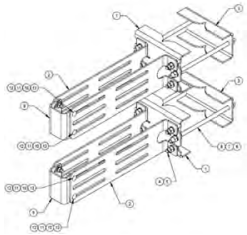
DIPLEXER DETAIL | NOT TO SCALE | 5

COMMSCOPE FF-FA2 FAST ACCESS DUAL RRU MOUNT



COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES:
INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.

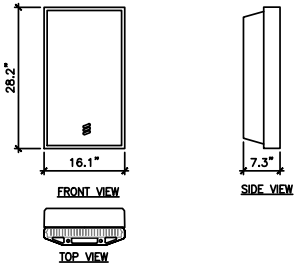
ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT	NOTE NO.
1	MTC378912	WELDED FRONT BRACKET	2	4.18 LBS	
2	MTC378903	RRU HANGER	4	3.97 LBS	
3	MTC378903	REAR BRACKET	2	3.10 LBS	
4	GWF-04	1/2" GALV FLAT WASHER	8	0.04 LBS	
5	GB-64145	1/2" X 1-1/2" GALV BOLT KIT	8	0.13 LBS	
6	GWL-04	1/2" GALV LOCK WASHER	12	0.01 LBS	
7	GN-04	1/2" GALV HEX NUT	12	0.04 LBS	
8	MT-379	1/2" X 12" GALV THREADED ROD	4	0.66 LBS	
9	RRFA-0001-00	BRACKET, RRU MOUNT SMALL STABILIZER	2	1.46 LBS	
10	GWF-03	3/8" GALV FLAT WASHER	8	0.01 LBS	
11	GWL-03	3/8" GALV LOCK WASHER	8	0.01 LBS	
12	GN-03	3/8" GALV HEX NUT	8	0.02 LBS	
13	MTC8156	3/8 X 1-1/4" CARRIAGE BOLT	8	0.052 LBS	



RRU DUAL MOUNT DETAIL | NOT TO SCALE | 3

ERICSSON AIR6419 B77D

DIMENSIONS, HxWxD: (28.2"x16.1"x7.3")
WEIGHT, WITHOUT
MOUNTING BRACKET: (66.2 lbs)



ANTENNA DETAIL | NOT TO SCALE | 1

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SHEET TITLE
ANTENNA, RRUS AND MOUNTING DETAILS

SHEET NUMBER
A6

Docusign Envelope ID: 79E771A2-269A-4730-9510-639A4EE078D2

1. CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
2. THE SIZE, HEIGHT, AND DIRECTION OF THE ANTENNAS SHALL BE ADJUSTED TO ACHIEVE THE AZIMUTHS SPECIFIED AND LIMIT SHADOWING AND TO MEET THE SYSTEM REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY THE HEIGHT OF THE ANTENNA WITH THE AT&T WIRELESS PROJECT MANAGER.
4. VERIFY TYPE AND SIZE OF TOWER LEG PRIOR TO ORDERING ANY ANTENNA MOUNT.
5. UNLESS NOTED OTHERWISE THE CONTRACTOR MUST PROVIDE ALL MATERIAL NECESSARY.
6. ANTENNA AZIMUTHS ARE DEGREES OFF OF TRUE NORTH, BEARING CLOCKWISE, IN WHICH ANTENNA FACE IS DIRECTED. ALL ANTENNAS (AND SUPPORTING STRUCTURES AS PRACTICAL) SHALL BE ACCURATELY ORIENTED IN THE SPECIFIED DIRECTION.
7. CONTRACTOR SHALL VERIFY ALL RF INFORMATION PRIOR TO CONSTRUCTION.
8. SWEEP TEST SHALL BE PERFORMED BY GENERAL CONTRACTOR AND SUBMITTED TO AT&T WIRELESS CONSTRUCTION SPECIALIST. TEST SHALL BE PERFORMED PER AT&T WIRELESS STANDARDS.
9. CABLE LENGTHS WERE DETERMINED BASED ON THE DESIGN DRAWING. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION WALK.
10. CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL).

ANTENNA & CABLING NOTES — NO SCALE — 6

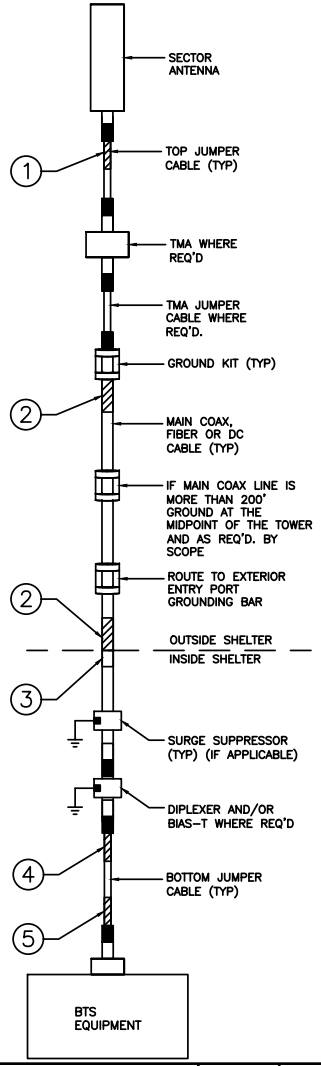
RF, DC, & COAX CABLE MARKING LOCATIONS TABLE

NO	LOCATIONS
1	EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
3	CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

CABLE MARKING DIAGRAM — NO SCALE — 5

1. THE ANTENNA SYSTEM COAX SHALL BE LABELED WITH VINYL TAPE.
2. THE STANDARD IS BASED ON EIGHT COLORED TAPES-RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE.
3. USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE COLOR CHART".
4. WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN TECHNOLOGIES IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING STANDARD. IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
5. ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) THREE WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
6. ALL COLOR BANDS INSTALLED AT THE TOP OF THE TOWER SHALL BE A MINIMUM OF 3" WIDE, AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE BETWEEN EACH COLOR.
7. ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
8. IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE NEW TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

CABLE MARKING NOTES — NO SCALE — 4



CABLE COLOR CODING DIAGRAM — NO SCALE — 3

NOT USED — NO SCALE — 2

NOT USED — NO SCALE — 1

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SHEET TITLE
CABLE NOTES & COLOR CODING

SHEET NUMBER
A7

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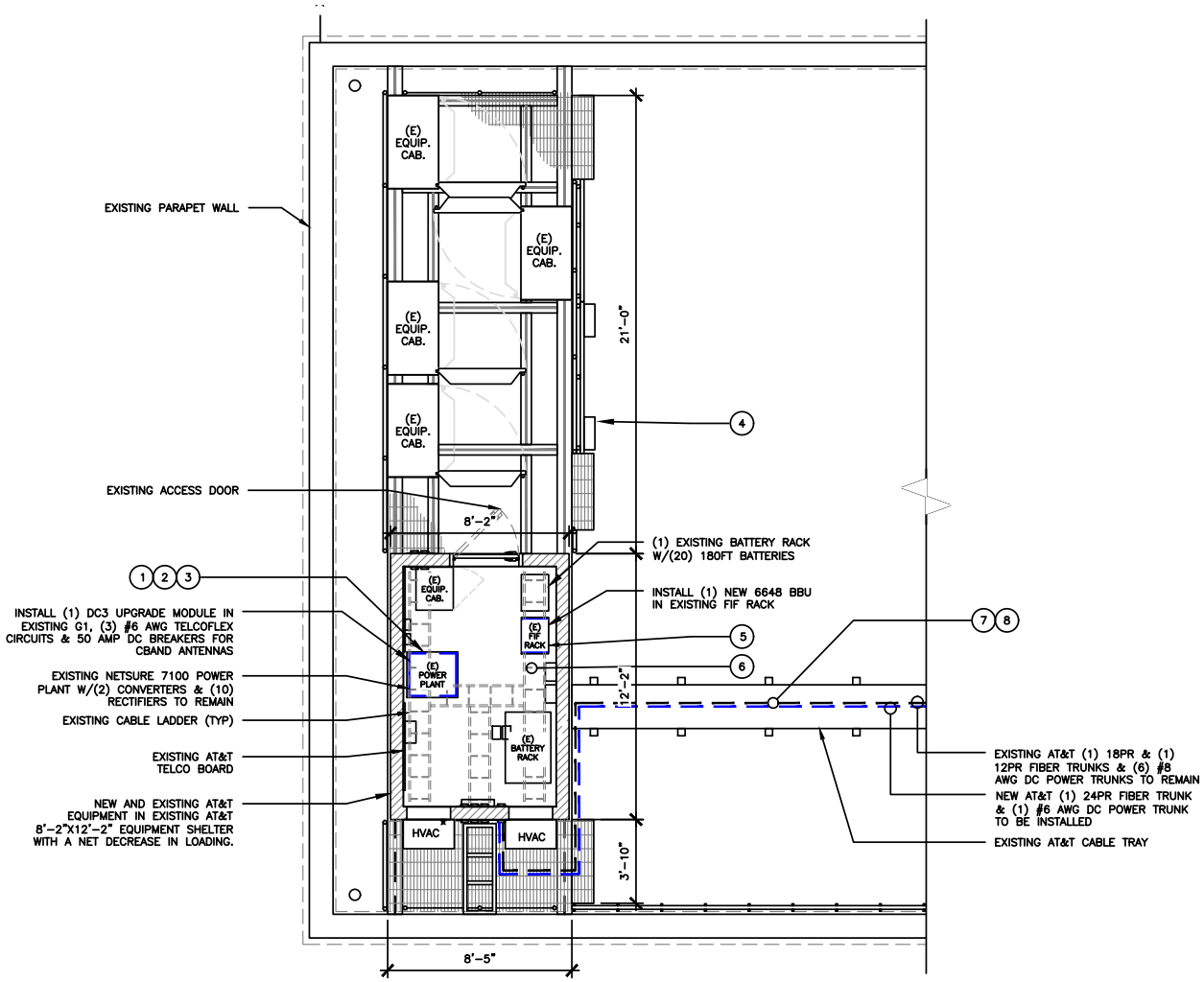

• NOTE: EXISTING EQUIPMENT TO BE UPGRADED AS NEEDED TO SUPPORT 4C/5C EQUIPMENT BEING INSTALLED.

LEGEND:

1. PROVIDE (1) NEW 7100 EMERSON –48V DC POWER PLANT.
2. PROVIDE (10) NEW RECTIFIERS, (2) NEW CONVERTERS (1) NEW BATTERY RACK AND (5) NEW 180FT BATTERY STRINGS INSIDE NEW –48V DC POWER PLANT.
3. PROVIDE (9) NEW 25A DC BREAKERS IN NEW DC POWER PLANT.
4. PROVIDE (1) NEW DC12 RAYCAP INSTALLED AT EXISTING PLATFORM.
5. PROVIDE (1) NEW 5216, (1) XMU AND (1) 6601 IN EXISTING FIF RACK
6. PROVIDE (2) SETS OF 6"–8" AWG DC CONDUCTOR BUNDLE BETWEEN NEW CIRCUIT BREAKERS INSIDE NEW DC POWER PLANT AND NEW RAYCAP SURGE PROTECTION UNIT AT PLATFORM.
7. PROVIDE (2) SETS OF 6"–8" AWG DC CONDUCTOR BUNDLE BETWEEN NEW SURGE PROTECTION UNIT AT PLATFORM AND (2) NEW RAYCAP UNITS MOUNTED NEAR ANTENNAS.
8. PROVIDE (1) NEW FIBER BETWEEN EXISTING FIF RACK IN SHELTER AND NEW SURGE PROTECTION UNIT AT ANTENNAS.

NOTES:

1. COORDINATE WITH CONSTRUCTION MANAGER FOR THE PROVISION OF DC CIRCUIT BREAKERS AND OTHER ANCILLARY ITEMS TO SUPPORT THE NEW EQUIPMENT.
2. PROPERLY BOND ALL EQUIPMENT AND CONDUCTIVE SURFACES TO EXISTING GROUND PER NEC AND A&T STANDARDS.

2018 CHICAGO ELECTRICAL CODE

NORTH

UTILITY PLAN

0 1.5' 3'

SCALE: 3/8"=1'-0" (11x17)
(OR) 3/4"=1'-0" (22x34)

1

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REVISIONS

REV.	DATE	DESCRIPTION	INITIALS
1	03/28/2025	PERMIT/CONSTRUCTION	SH
0	02/20/2025	PERMIT/CONSTRUCTION	CG
A	12/13/2024	ISSUED FOR REVIEW	CG

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EXP. 11/30/2026
STATE OF ILLINOIS
BANKS
001-014586
LICENSED ARCHITECT
DATE: 03/28/2025

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SHEET TITLE
UTILITY PLAN

SHEET NUMBER
E1

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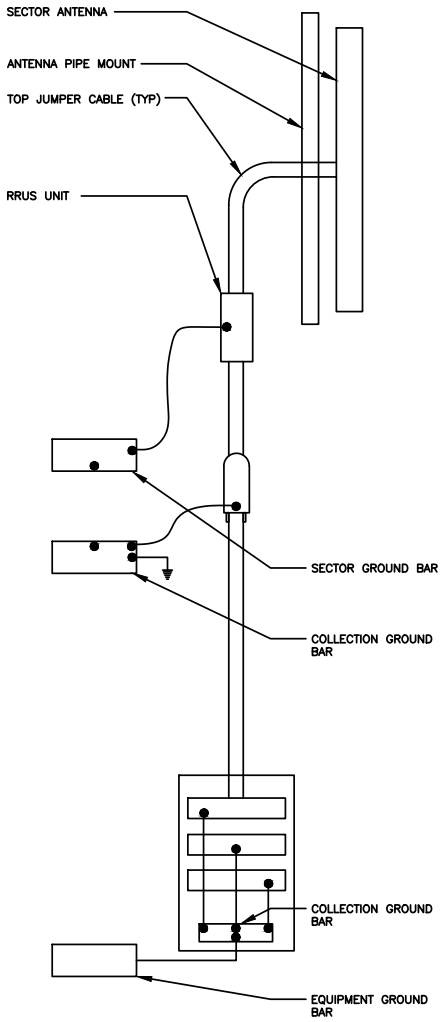
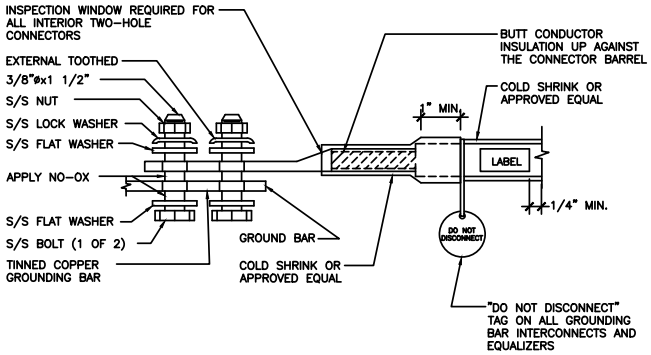
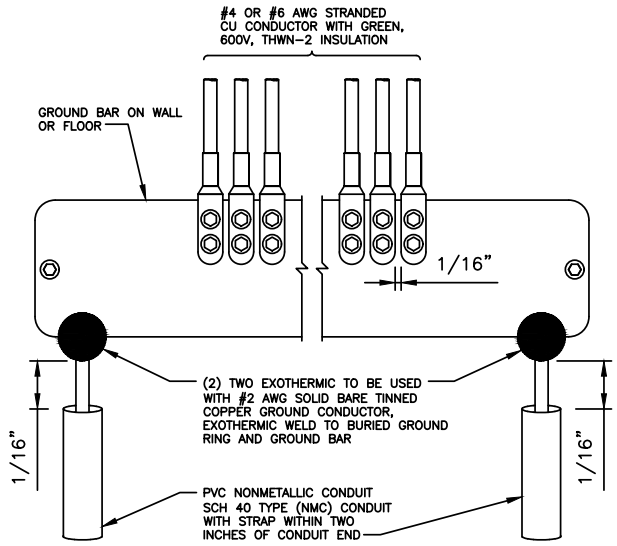


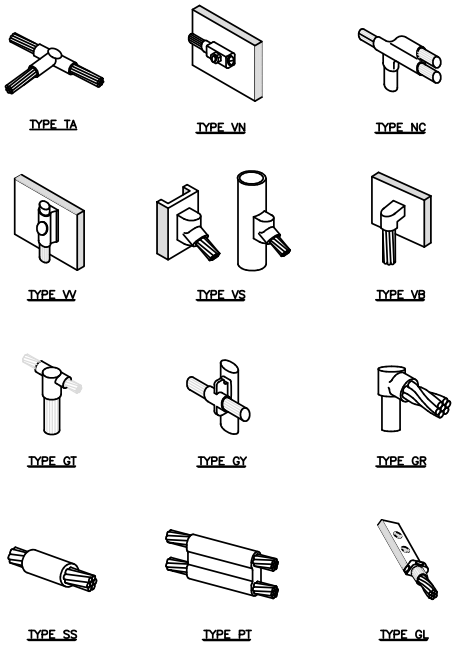
CABLE GROUNDING | NO SCALE | 4



EXTERIOR TWO HOLE LUG DETAIL | NO SCALE | 3



GROUND BAR DETAILS | NO SCALE | 2



CALDWELD DETAILS | NO SCALE | 1

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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G1