

DIRECTIONS

FROM AT&T OFFICE: 100 SOUTH EUGENE STREET, GREENSBORO NC 27401

TAKE S EUGENE ST AND PATTON AVE TO OLD U.S. 421. HEAD EAST ON W MARKET ST TOWARD N EUGENE ST. TURN RIGHT ONTO S EUGENE ST. CONTINUE ONTO S ELM-EUGENE ST. PASS BY BOJANGLES (ON THE LEFT IN 0.6 MI). TURN LEFT ONTO PATTON AVE PASS BY BURGER KING (ON THE LEFT IN 1.1 MI). TAKE US-421 S TO RED HILL CHURCH RD IN ERWIN. TURN RIGHT ONTO OLD U.S. 421 CONTINUE ONTO US-421 S. KEEP LEFT TO STAY ON US-421 S. TAKE EXIT 143 A TO STAY ON US-421 S TOWARD LILLINGTON. TURN LEFT ONTO S MAIN ST. TURN RIGHT ONTO US-421 S/US HWY 421 S. KEEP RIGHT TO CONTINUE ON US-421 S/E CORNELIUS HARNETT BLVD/US HWY 421 S. CONTINUE TO FOLLOW US-421 S/US HWY 421 S. CONTINUE ON RED HILL CHURCH RD TO YOUR DESTINATION. TURN LEFT ONTO RED HILL CHURCH RD. TURN LEFT



5G NR 1DR-1 CBAND CONSTRUCTION DRAWINGS



FA #: 14637878 SITE ID: SINC004206

ATOLL SITE NAME: ECL02040 LOCATION NAME: 368-704

SITE ADDRESS:

161 RED HILL CHURCH ROAD
DUNN, NC 28334
(HARNETT COUNTY)

APPROVED
By Chris Johnson at 7:48 am, Jul 24, 2025



REFERENCE NOTES

THESE PLANS WERE COMPLETED PER PRELIMINARY/APPROVED LTE 5G NR 1DR-1 CBAND RFDS ID#: 35228 V:1.00 DATED 06/11/2024. CONTRACTOR SHALL REQUEST CURRENT RFDS & WORKBOOK FROM CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

GC SHALL REVIEW AND COMPLY WITH MASTEC MOUNT STRUCTURAL ANALYSIS DATED: 04/03/25
PROJECT # 55886-MNT1

GC SHALL REVIEW AND COMPLY WITH ALLPRO CONSULTING GROUP STRUCTURAL ANALYSIS DATED: 07/14/25

SHEET INDEX			
SHEET	DESCRIPTION	REV.	REV. DATE
T-1	TITLE SHEET	0	7/23/2025
AB-1	APPENDIX-B	0	7/23/2025
AB-2	APPENDIX-B	0	7/23/2025
AB-3	APPENDIX-B	0	7/23/2025
AB-4	APPENDIX-B	0	7/23/2025
C-1	EQUIPMENT LAYOUT	0	7/23/2025
C-2	EXISTING ANTENNA LAYOUT	0	7/23/2025
C-3	FINAL ANTENNA LAYOUT	0	7/23/2025
C-4	CIVIL DETAILS	0	7/23/2025
E-1	SINGLE LINE DIAGRAM	0	7/23/2025
E-2	RISER DIAGRAM	0	7/23/2025

GENERAL NOTES

811
Know what's below.
Call before you dig.

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, THEREFORE HANDICAP ACCESS IS NOT REQUIRED. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED. NO WORK SHALL COMMENCE WITHOUT THE APPROVED TOWER/ANTENNA MOUNT STRUCTURAL ANALYSIS REPORT SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER UNDER SEPARATE COVER.

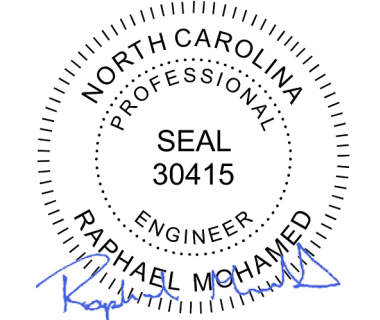
CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

- 2018 NC BUILDING CODE
- 2018 NC FUEL GAS CODE (WITH 2015 IFGC AMENDMENTS)
- 2018 NC MECHANICAL CODE (WITH 2015 IMC AMENDMENTS)
- 2020 NEC NATIONAL ELECTRICAL CODE W/ NC AMENDMENTS
- ANSI/TIA-222-G ADDENDUM-4,

SITE SUMMARY	
SCOPE TYPE:	CARRIER ADD
OCCUPANCY TYPE:	TELECOMMUNICATIONS
IMW NUMBER:	WSVWN0054769, WSVWN0056135, WSVWN0055330, WSVWN0056677
PACE NUMBER:	MRVWN044622, MRVWN044585, MRVWN045122, MRVWN044675
STRUCTURE HEIGHT:	190±
STRUCTURE TYPE:	MONOPOLE
LATITUDE:	34.6693211
LONGITUDE:	-92.8998481
JURISDICTION:	TOWN OF DUNN
COUNTY:	HARNETT
PARCEL ID:	1507-15-5729.000

PROJECT DIRECTORY	
APPLICANT:	AT&T MOBILITY CORP. 100 SOUTH EUGENE STREET GREENSBORO NC 27401
TOWER OWNER:	TILLMAN INFRASTRUCTURE, LLC 20 MANSELL COURT, SUITE 375 ROSWELL, GA 30076
PROJECT MANAGER:	MASTEC NETWORK SOLUTIONS 1151 SE CARY PARKWAY, SUITE 101 CARY, NC 27518 VAL WOOD PHONE: (919) 674-5846
SITE DESIGN:	MASTEC ENGINEERING, PLLC 1151 SE CARY PARKWAY, SUITE 101 CARY, NC 27518 CONTACT: RAPHAEL MOHAMED PHONE: (919) 674-5895



7/23/2025

RAPHAEL MOHAMED, P.E.
NORTH CAROLINA NO. 30415

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
7/23/2025	CONSTRUCTION	0	RM

DRAWN BY: SM
CHECKED BY: OBA
APPV'D BY: RM
MNS PROJECT NO: 35228 -AEC

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SINC004206

LOCATION NAME:
368-704

SITE ADDRESS:
161 RED HILL CHURCH ROAD
DUNN, NC 28334

FA LOCATION:
14637878

TOWER OWNER ID:
N/A

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: 14637878 – 368-704
Address: 161 RED HILL CHURCH ROAD, DUNN, NC Zip Code 28334
Proposed Use: Cellular Communications Equipment
Owner/Authorized Agent: AT&T Mobility – Arthur Pelzer Phone # (704) 303-0049 E-Mail: ap6032@att.com
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County HARNETT State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil	MNS	Raphael Mohamed	30415	(919) 674-5895	raphael.mohamed@mastec.com
Electrical				()	
Fire Alarm				()	
Plumbing				()	
Mechanical				()	
Sprinkler-Standpipe				()	
Structural				()	
Retaining Walls >5' High				()	
Other				()	

2018 EDITION OF NC CODE: New Building Addition Renovation
1st Time Interior Completion
Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
Alteration: Level I Level II Level III
Historic Property Change of Use

CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3):
RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch. 3):

RISK CATEGORY (Table 1604.5): Current: I II III IV
Proposed: I II III IV

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV V-A
(check all that apply) I-B II-B III-B V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes Flood Hazard Area: No Yes
Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and

2018 NC Administrative Code and Policies

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6 th Floor	N/A		
5 th Floor	N/A		
4 th Floor	N/A		
3 rd Floor	N/A		
2 nd Floor	N/A		
Mezzanine	N/A		
1 st Floor	N/A		
Basement	N/A		
TOTAL			

ALLOWABLE AREA

Primary Occupancy Classification(s): Select one

Assembly A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 Condition 1 2
I-2 Condition 1 2
I-3 Condition 1 2 3 4 5
I-4
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous

Accessory Occupancy Classification(s):

Incidental Uses (Table 509):

Special Uses (Chapter 4 – List Code Sections):

Special Provisions: (Chapter 5 – List Code Sections):

Mixed Occupancy: No Yes Separation: Hr. Exception:

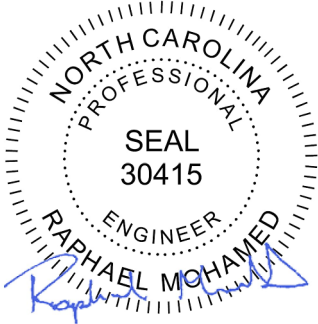
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$
$$+ \dots = \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(c) AREA FOR FRONTAGE INCREASES ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}

2018 NC Administrative Code and Policies



7/23/2025

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PREPARED FOR:



PREPARED BY:

MasTec
Network Solutions
1151 SE CARY PARKWAY, SUITE 101
CARY, NC 27518

SITE ID:
SINC004206
LOCATION NAME:
368-704
SITE ADDRESS:
161 RED HILL CHURCH ROAD
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FA LOCATION:
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TOWER OWNER ID:
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SHEET TITLE
APPENDIX B-BUILDING
CODE SUMMARY

SHEET NUMBER
AB-1

- ¹ Frontage area increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)

b. Total Building Perimeter = _____ (P)

c. Ratio (F/P) = _____ (F/P)

d. W = Minimum width of public way = _____ (W)

e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 =$ _____ (%) ² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)		Feet = H + 20' = ____	
Building Height in Stories (Table 504.4)		Stories + 1 = _____	

¹ Provide code reference if the “Shown on Plans” quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (w/ _____ * REDUCTION)				
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							

2018 NC Administrative Code and Policies

Floor Construction Including supporting beams and joists						
Floor Ceiling Assembly						
Columns Supporting Floors						
Roof Construction, including supporting beams and joists						
Roof Ceiling Assembly						
Columns Supporting Roof						
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation						
Occupancy/Fire Barrier Separation						
Party/Fire Wall Separation						
Smoke Barrier Separation						
Smoke Partition						
Tenant/Dwelling Unit/ Sleeping Unit Separation						
Incidental Use Separation						

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

- Emergency Lighting:

☐ No ☒ Yes

Exit Signs:

☒ No ☐ Yes

Fire Alarm:

☒ No ☐ Yes

Smoke Detection Systems:

☐ No ☒ Yes ☐ Partial _____

Panic Hardware:

☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #:

- ☐ Fire and/or smoke rated wall locations (Chapter 7)
- ☐ Assumed and real property line locations
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☐ Existing structures within 30' of the proposed building
- ☐ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)

2018 NC Administrative Code and Policies



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CODE SUMMARY

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AB-2

-
- 2018 NC Administrative Code and Policies

2018 NC Administrative Code and Policies



Floors slab on grade

Description of assembly: Concrete Slab & Floor
U-Value of total assembly:
R-Value of insulation:
Horizontal/vertical requirement:
slab heated: NO

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.00
Seismic (I_E) 1.00

Live Loads: Roof N/A psf
Mezzanine N/A psf
Floor N/A psf

Ground Snow Load: N/A psf

Wind Load: Ultimate Wind Speed 90 mph (ASCE-7)
Exposure Category B

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_s 0.242 %g S₁ 0.010 %g SEISMIC CHECK NOT REQUIRED

Site Classification (ASCE 7) A B C D E F
Data Source: Field Test Presumptive Historical Data

Basic structural system (check one) : NO GROUND MOUNTED EQUIPMENT ADDED
Bearing Wall Dual w/Special Moment Frame
Building Frame Dual w/Intermediate R/C or Special Steel
Moment Frame Inverted Pendulum

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic

Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind N/A

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) N/A psf
Presumptive Bearing capacity 1500 psf
Pile size, type, and capacity N/A

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

2018 NC Administrative Code and Policies

winter dry bulb:
summer dry bulb:

Interior design conditions

winter dry bulb:
summer dry bulb:
relative humidity:

Building heating load:

Building cooling load:

Mechanical Spacing Conditioning System

Unitary
description of unit:
heating efficiency:
cooling efficiency:
size category of unit:

Boiler
Size category. If oversized, state reason.: N/A

Chiller
Size category. If oversized, state reason.: N/A

List equipment efficiencies:

ELECTRICAL SUMMARY

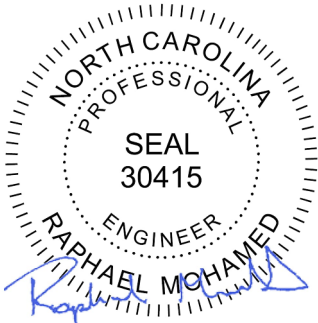
ELECTRICAL SYSTEM AND EQUIPMENT N/A

Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
C406.2 More Efficient HVAC Equipment Performance
C406.3 Reduced Lighting Power Density
C406.4 Enhanced Digital Lighting Controls
C406.5 On-Site Renewable Energy
C406.6 Dedicated Outdoor Air System
C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies



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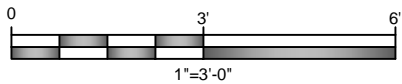
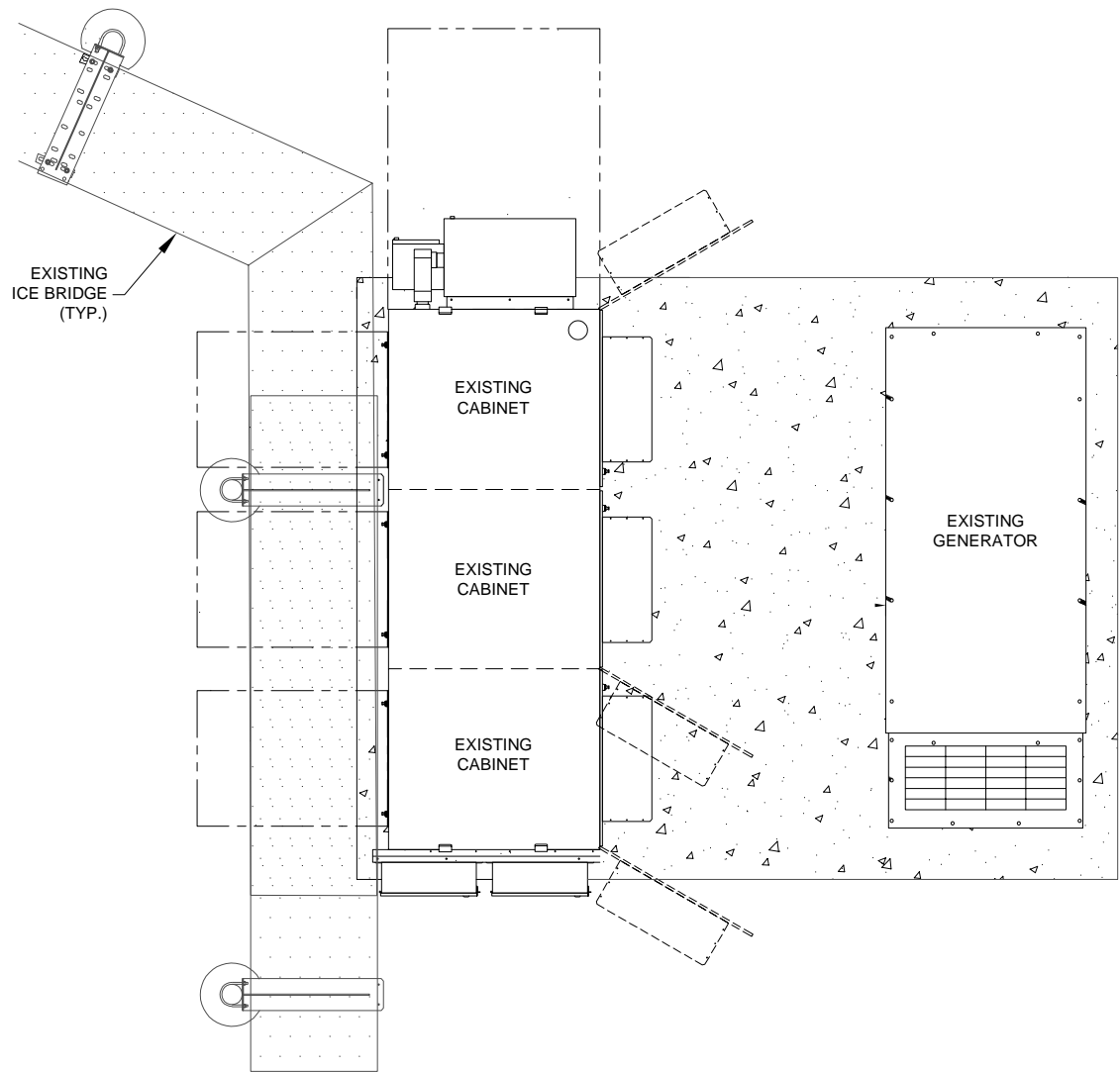
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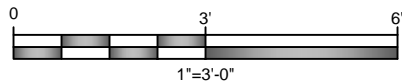
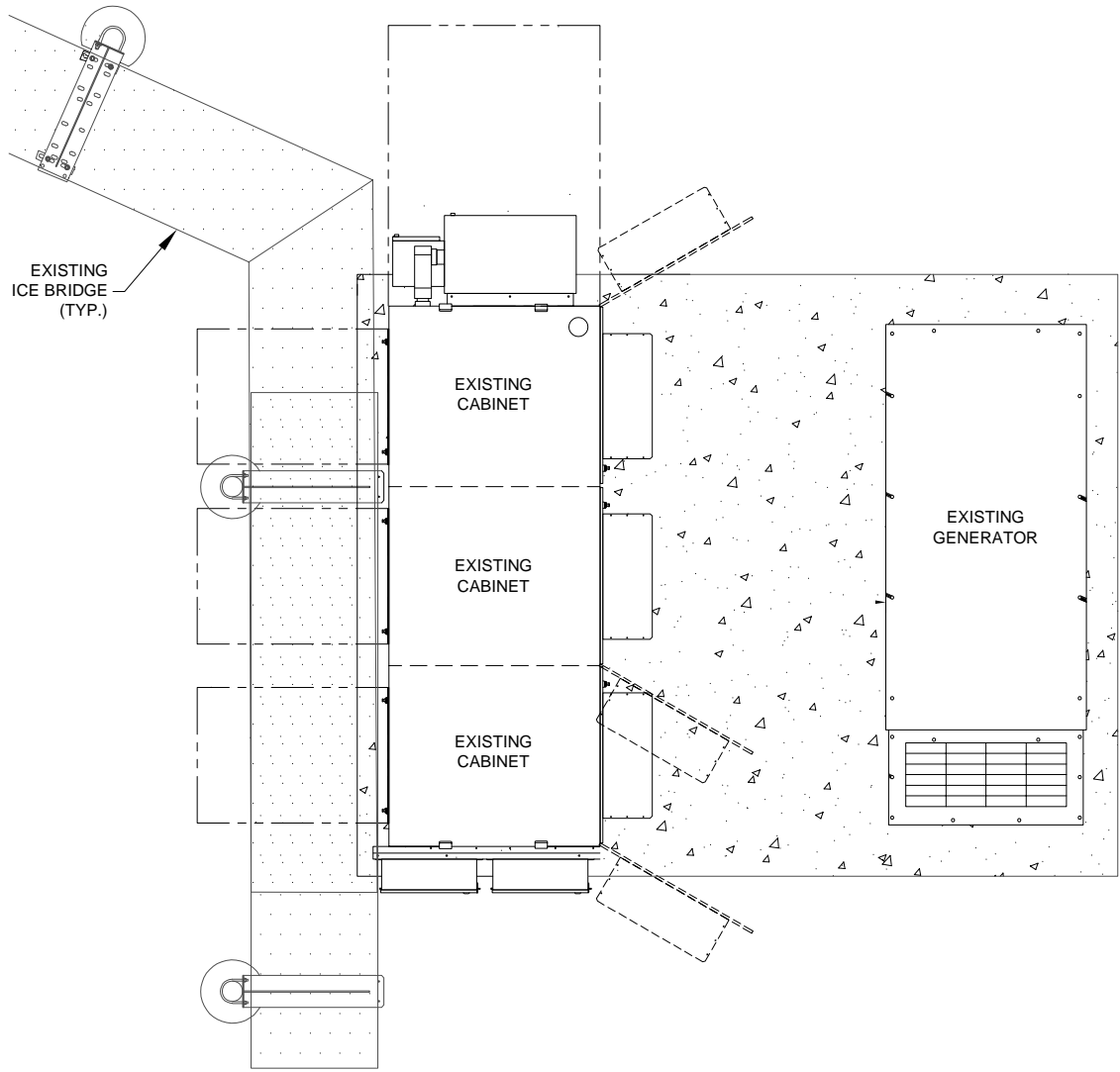
TOWER OWNER ID:
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APPENDIX B-BUILDING
CODE SUMMARY

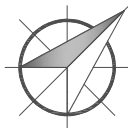
SHEET NUMBER
AB-4



EXISTING SITE PLAN
11"x17" SCALE: 1"=3'-0"
24"x36" SCALE: 1"=1'-6"

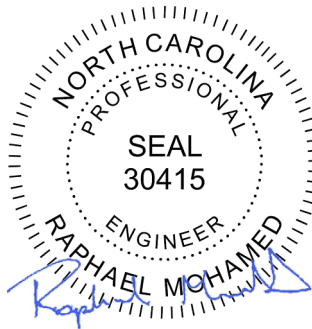


FINAL SITE PLAN
11"x17" SCALE: 1"=3'-0"
24"x36" SCALE: 1"=1'-6"



SCOPING NOTES - GROUND

NO POWER PLANT NEEDED
|| RE-USE VERTIV ODN5100 PP (9R , 0C)
|| RE-USE EXISTING BATTERIES
|| ADD ONE -48V RECT PER DE111
|| RE-USE EXISTING DC12-48-60-0-25E-SS
5G NR 1SR CBAND.5G.1 BAND 77G 77M
|| RE-USE #6AWG TELCOFLEX TO POWER AIR6472 B77G B77M AIR RADIO
|| INSTALL THREE 50 AMP BREAKERS FOR AIR6472 B77G B77M AIR RADIOS
1900 / 2100 UPPER D (10 MHZ) BAND B25/B66
|| RE-USE #6AWG TELCOFLEX TO POWER 4890 B25/B66'S
|| INSTALL THREE 50 AMP BREAKERS FOR 4890 B25/B66'S
5G NR 1SR CBAND.5G.1 BAND 77G 77M
|| RE-USE (1) 6601, (1) XMU03, (2) 6630'S



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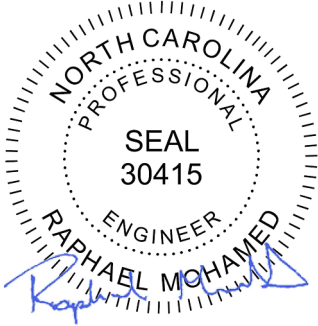
TOWER OWNER ID:
N/A

SHEET TITLE
EQUIPMENT LAYOUT

SHEET NUMBER
C-1

EXISTING RF EQUIPMENT SCHEDULE											
SECTOR - POSITION	FREQUENCY BAND	ANTENNA MAKE/MODEL	RAD CENTER	AZIMUTH	E. TILT	M. TILT	(QTY.) RADIO	(QTY.) TMA/FILTERS	(QTY.) SURGE PROTECTION	(QTY.) CABLES	CABLE LENGTH
A1	-	-	-	-	-	-	-	-	-	-	-
A2	LTE 700/1900/AWS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	30°	2°	0°	(1) RRUS 4426 B66 (RM) (1) RRUS 4415 B2/B25 (RM) (1) RRUS 4449 B5/B12 (RL)	-	(1) DC9-48-60-24-8C-EV	(1) FIBER TRUNK (0.4") (3) DC TRUNKS (0.92")	275'-0"
A3	-	-	185'-0"	30°	2°	0°	-	-	-	-	-
A4	LTE 700/WCS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	30°	2°	0°	(1) RRUS 4478 B14 (RL) (1) RRUS 4415 B30 (RL)	-	-	-	-
B1	-	-	-	-	-	-	-	-	-	-	-
B2	LTE 700/1900/AWS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	150°	2°	0°	(1) RRUS 4426 B66 (RM) (1) RRUS 4415 B2/B25 (RM) (1) RRUS 4449 B5/B12 (RL)	-	(1) DC9-48-60-24-8C-EV	(1) FIBER TRUNK (0.4") (2) DC TRUNKS (0.92")	275'-0"
B3	-	-	185'-0"	150°	2°	0°	-	-	-	-	-
B4	LTE 700/WCS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	150°	2°	0°	(1) RRUS 4478 B14 (RL) (1) RRUS 4415 B30 (RL)	-	-	-	-
C1	-	-	-	-	-	-	-	-	-	-	-
C2	LTE 700/1900/AWS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	270°	2°	0°	(1) RRUS 4426 B66 (RM) (1) RRUS 4415 B2/B25 (RM) (1) RRUS 4449 B5/B12 (RL)	-	-	-	-
C3	-	-	185'-0"	270°	2°	0°	-	-	-	-	-
C4	LTE 700/WCS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	270°	2°	0°	(1) RRUS 4478 B14 (RL) (1) RRUS 4415 B30 (RL)	-	-	-	-
TOTALS		(6) ANTENNAS	-				(18) RRUS	(0) TMAS (0) FILTERS	(2) SPDS	(7) CABLES	-

(RM) = REMOVE
(RL) = RELOCATE
(I) = INACTIVE
(GR) = GROUND MOUNTED



7/23/2025

RAPHAEL MOHAMED, P.E.
NORTH CAROLINA NO. 30415

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
7/23/2025	CONSTRUCTION	0	RM

DRAWN BY: SM

CHECKED BY: OBA

APPV'D BY: RM

MNS PROJECT NO: 35228 -AEC

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PREPARED FOR:



PREPARED BY:



SITE ID:
SINC004206

LOCATION NAME:
368-704

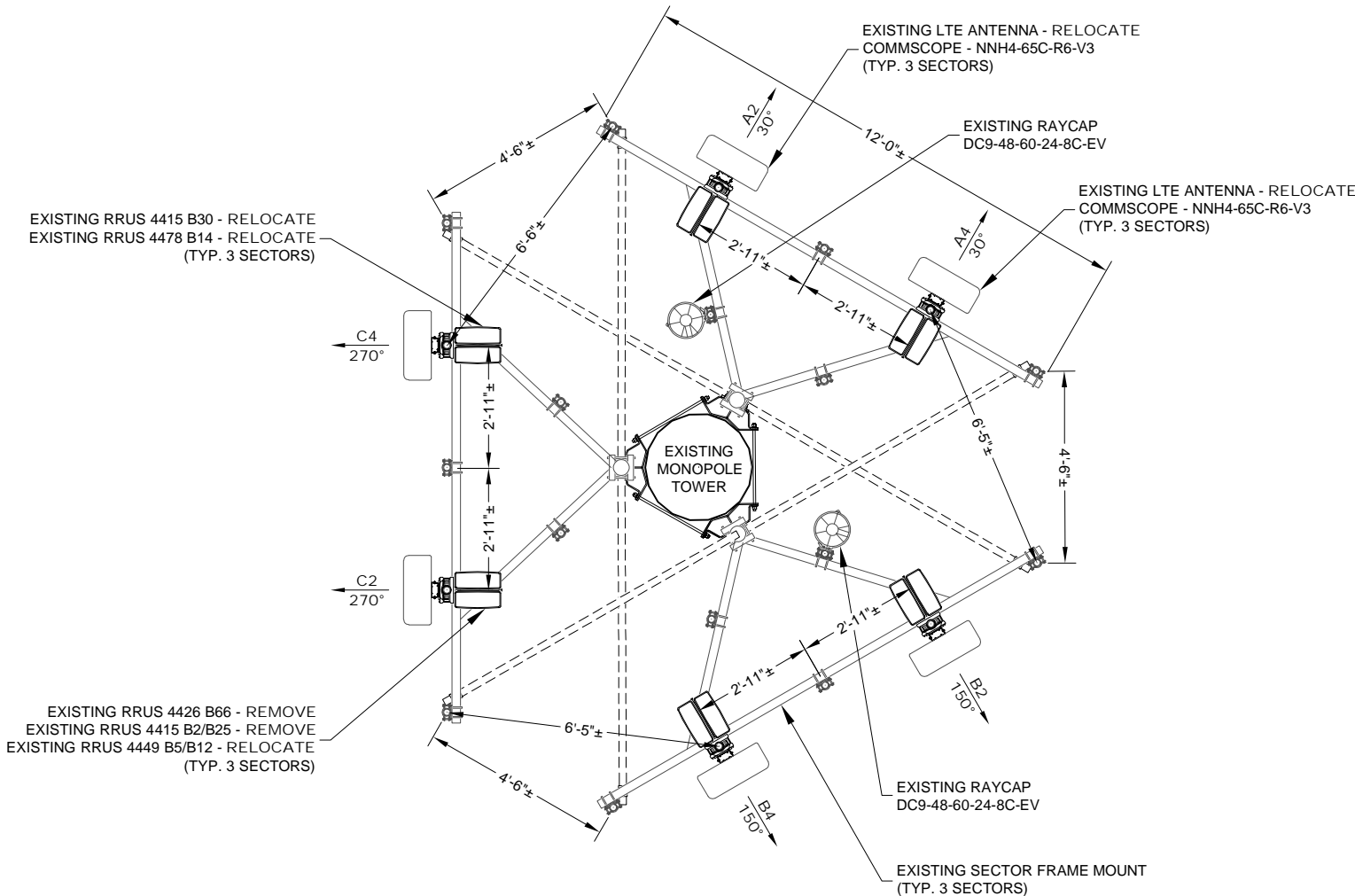
SITE ADDRESS:
161 RED HILL CHURCH ROAD
DUNN, NC 28334

FA LOCATION:
14637878

TOWER OWNER ID:
N/A

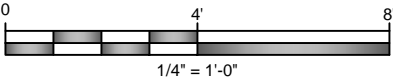
SHEET TITLE
EXISTING ANTENNA
LAYOUT

SHEET NUMBER
C-2



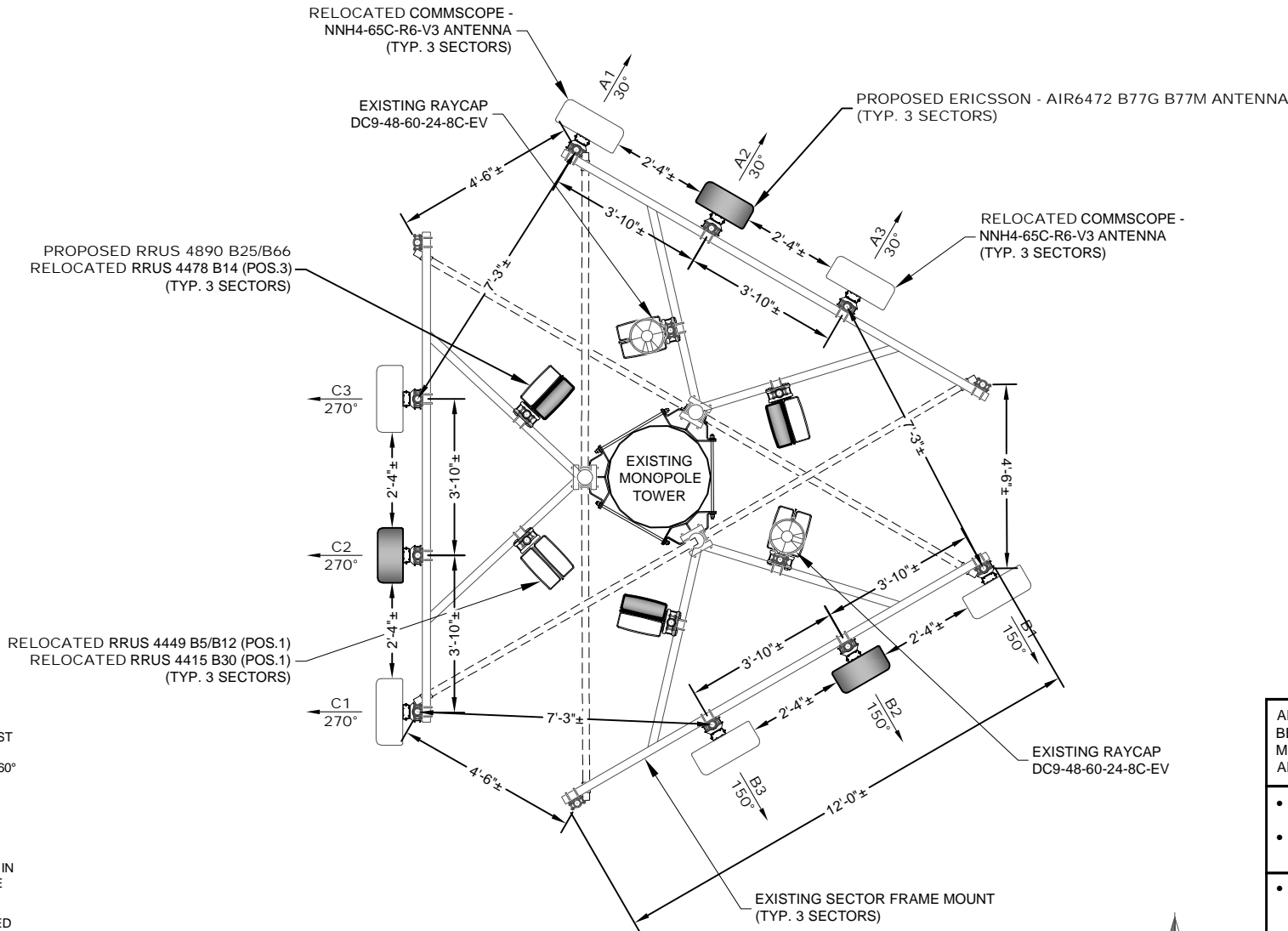
EXISTING ANTENNA LAYOUT

11"x17" SCALE: 1/4" = 1'-0"
24"x36" SCALE: 1"=2'-0"



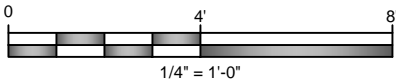
FINAL RF EQUIPMENT SCHEDULE										
SECTOR - POSITION	FREQUENCY BAND	ANTENNA MAKE/MODEL	RAD CENTER	AZIMUTH	E. TILT	M. TILT	(QTY.) RADIO	(QTY.) SURGE PROTECTION	(QTY.) CABLES	CABLE LENGTH
A1	LTE 700 / LTE WCS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	30°	-	0°	(1) RRUS 4449 B5/B12 (RL) (1) RRUS 4415 B30 (RL)	-	-	-
A2	5G CBAND / 5G DoD	ERICSSON - AIR6472 B77G B77M (P)	185'-0"	30°	-	0°	-	-	-	-
A3	LTE 700 (FNET) / LTE AWS / LTE 1900 / 5G AWS / 5G 1900	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	30°	-	0°	(1) RRUS 4890 B25/B66 (P) (1) RRUS 4478 B14 (RL)	(1) DC9-48-60-24-8C-EV	(1) FIBER TRUNK (0.4") (3) DC TRUNKS (0.92")	275'-0"
B1	LTE 700 / LTE WCS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	150°	-	0°	(1) RRUS 4449 B5/B12 (RL) (1) RRUS 4415 B30 (RL)	-	-	-
B2	5G CBAND / 5G DoD	ERICSSON - AIR6472 B77G B77M (P)	185'-0"	150°	-	0°	-	-	-	-
B3	LTE 700 (FNET) / LTE AWS / LTE 1900 / 5G AWS / 5G 1900	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	150°	-	0°	(1) RRUS 4890 B25/B66 (P) (1) RRUS 4478 B14 (RL)	(1) DC9-48-60-24-8C-EV	(1) FIBER TRUNK (0.4") (2) DC TRUNKS (0.92")	275'-0"
C1	LTE 700 / LTE WCS	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	270°	-	0°	(1) RRUS 4449 B5/B12 (RL) (1) RRUS 4415 B30 (RL)	-	-	-
C2	5G CBAND / 5G DoD	ERICSSON - AIR6472 B77G B77M (P)	185'-0"	270°	-	0°	-	-	-	-
C3	LTE 700 (FNET) / LTE AWS / LTE 1900 / 5G AWS / 5G 1900	COMMSCOPE - NNH4-65C-R6-V3 (RL)	185'-0"	270°	-	0°	(1) RRUS 4890 B25/B66 (P) (1) RRUS 4478 B14 (RL)	-	-	-
TOTALS		(9) ANTENNAS		-			(12) RRUS	(2) SPDS	(7) CABLES	-

(RM) = REMOVE, (RL) = RELOCATE, (I) = INACTIVE, (GR) = GROUND MOUNTED



NOTES:

- THE REQUIRED FAA LIGHTING MUST NOT BE BLOCKED IN ANY WAY BY THE ANTENNAS. THE REQUIRED 360° LIGHTING VISIBILITY MUST BE MAINTAINED.
- ALL ANTENNAS, CABLES AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS REPORT.
- ALL ANTENNA INFORMATION BASED ON MOST RECENT VERSION OF THIS SITES RFDS.



FINAL ANTENNA LAYOUT

11"x17" SCALE: 1/4" = 1'-0"
24"x36" SCALE: 1"=2'-0"



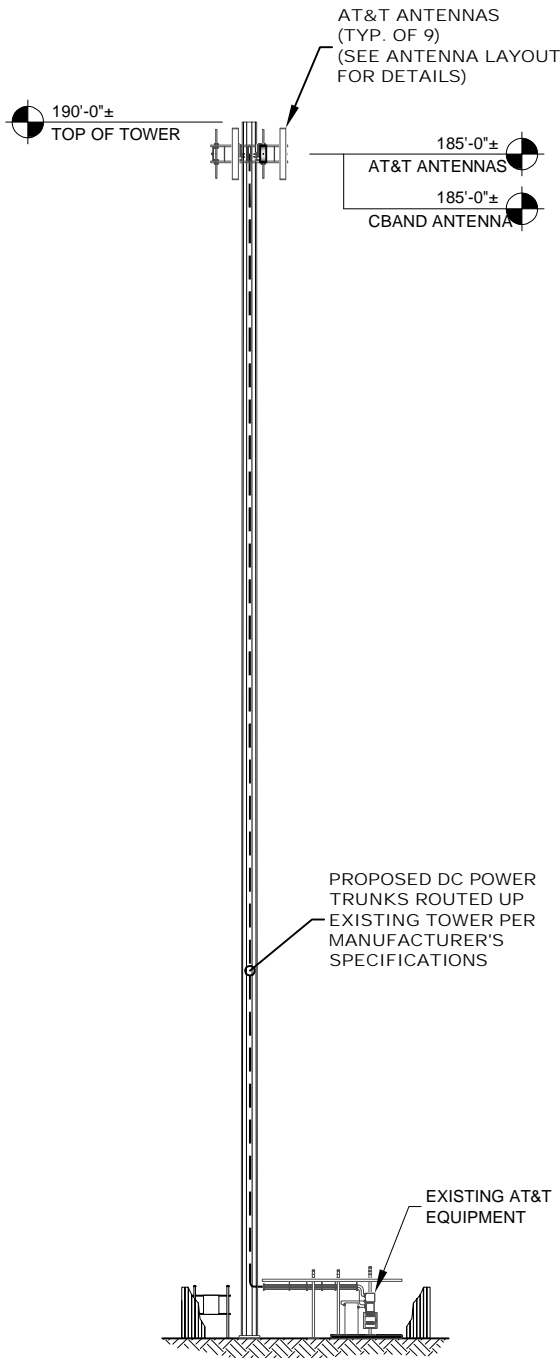
ALL EXISTING ANTENNAS THAT WILL BE UNTOUCHED OR LEFT IN PLACE MUST HAVE AZIMUTHS CONFIRMED AND CORRECTED IF NEEDED.

- ALL RRU MOUNTING BRACKETS TO BE SUPPLIED BY AT&T
- SEE SHEET C-4 FOR RRU MOUNTING BRACKET DETAILS

- MAINTAIN 2'-0" MIN. SEPARATION BETWEEN FIRSTNET AND LTE 700 ANTENNAS
- INSTALLER TO FIELD VERIFY ANTENNA SEPARATION.
- INSTALLER MAY NEED TO SHIFT ANTENNA MOUNTS AS NEEDED TO OBTAIN REQUIRED MINIMUM SEPARATION BETWEEN ANTENNAS.

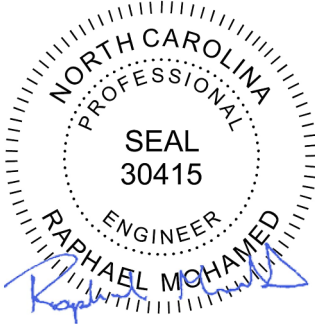
SCOPING NOTES - TOWER

5G NR 1SR CBAND.5G.1 BAND 77G 77M
|| ADD (3) AIR6472 B77G B77M AIR ANTENNAS IN P2 ALL POSITIONS
|| RELO EXISTING ANTENNAS FROM P2 AND P4 TO P1 AND P3 TO MAKE SPACE FOR AIR6472'S
|| HARVEST (3) 4415 B2/B25'S IN ALL POSITIONS
|| HARVEST (3) 4426 B66'S IN ALL POSITIONS
|| RE-USE DC9-48-60-24-8C-EV SQUID IN ALPHA
|| RE-USE 24 CH FIBER TRUNKS
|| RE-USE 6AWG DC TRUNK FOR AIR6472 B77G B77M'S
1900 / 2100 UPPER D (10 MHZ) BAND B25/B66
|| INSTALL (3) 4890 B25/B66 RADIOS'S IN P3
|| RE-USE 6AWG DC TRUNK FOR 4890 B25/B66'S



TOWER PROFILE

11"x17" SCALE: 1"=30'-0"
24"x36" SCALE: 1"=15'-0"



7/23/2025

RAPHAEL MOHAMED, P.E.
NORTH CAROLINA NO. 30415

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
7/23/2025	CONSTRUCTION	0	RM

DRAWN BY: SM
CHECKED BY: OBA
APPV'D BY: RM
MNS PROJECT NO: 35228 -AEC

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PREPARED FOR:



PREPARED BY:



SITE ID:
SINC004206

LOCATION NAME:
368-704

SITE ADDRESS:
161 RED HILL CHURCH ROAD
DUNN, NC 28334

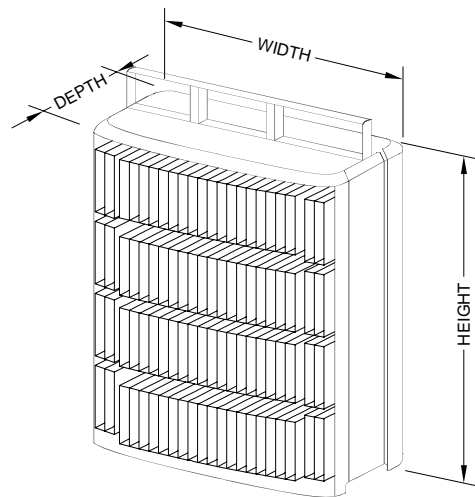
FA LOCATION:
14637878

TOWER OWNER ID:
N/A

SHEET TITLE
FINAL ANTENNA LAYOUT

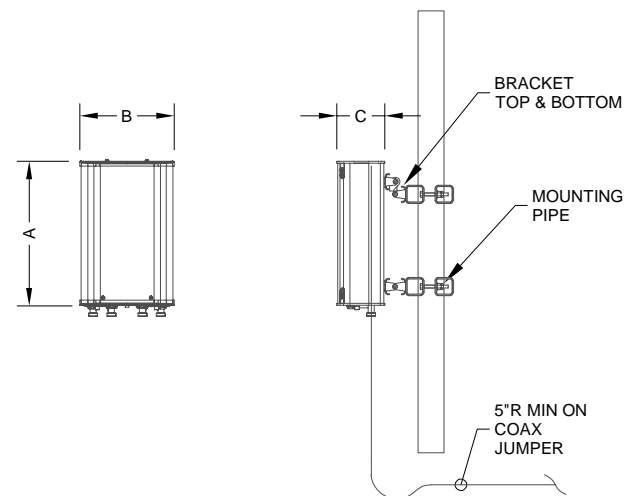
SHEET NUMBER
C-3

- ERICSSON RRUS 4890 B25/B66
- DIMENSIONS (H x W x D): 17.5" x 15.1" x 6.9" (INCLUDES SUNSHIELD)
 - WEIGHT: 68.0 LBS



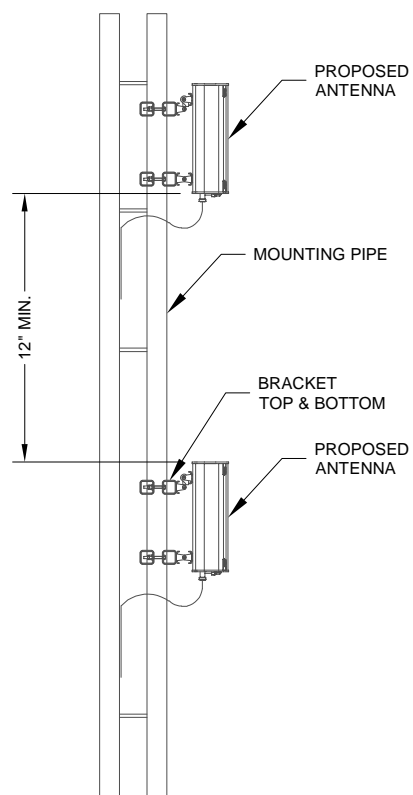
NOTE:
RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

ERICSSON RRUS 4890 B25/B66 DETAIL
SCALE: N.T.S.



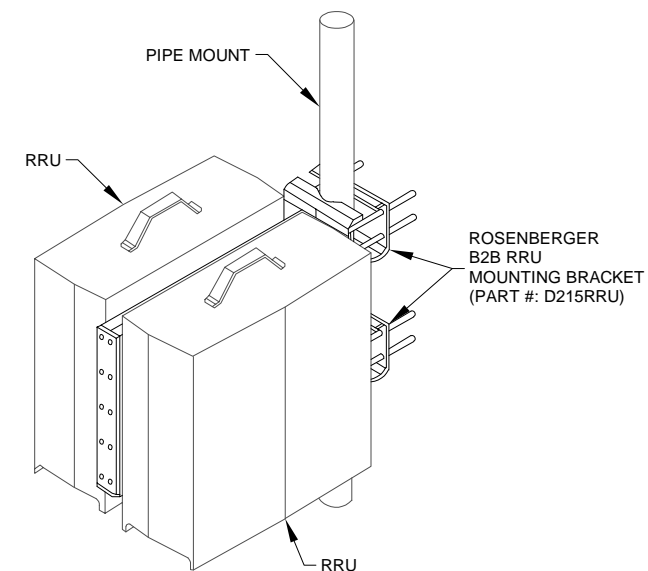
NEW ANTENNA SPECIFICATIONS				
ANTENNA MODEL	LENGTH (A)	WIDTH (B)	DEPTH (C)	WEIGHT
ERICSSON AIR6472 B77G B77M	36.4"	16.1"	7.5"	92.6 LBS

NEW ANTENNA SPECIFICATIONS
SCALE: N.T.S.

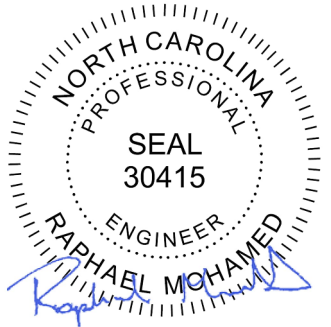


ANTENNA MOUNTING DETAIL
SCALE: N.T.S.

ROSENBERGER D215RRU B2B RRU
MOUNTING BRACKET



DUAL B2B RRU MOUNTING BRACKET DETAIL
SCALE: N.T.S.



7/23/2025

RAPHAEL MOHAMED, P.E.
NORTH CAROLINA NO. 30415

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DRAWN BY: SM
CHECKED BY: OBA
APPV'D BY: RM
MNS PROJECT NO: 35228 -AEC

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PREPARED FOR:



PREPARED BY:



SITE ID:
SINC004206

LOCATION NAME:
368-704

SITE ADDRESS:
161 RED HILL CHURCH ROAD
DUNN, NC 28334

FA LOCATION:
14637878

TOWER OWNER ID:
N/A

SHEET TITLE
CIVIL DETAILS

SHEET NUMBER
C-4

GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE INCOMING SERVICES WITH LOCAL UTILITIES PRIOR TO TRENCHING.
- ALL CONDUCTORS SHALL BE COPPER, 75 DEGREES C RATED, AND CONDUCTOR INSULATION SHALL BE THWN OR THHN.
- ALL TERMINATIONS SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C RATED CONDUCTORS OPERATING AT 75°C.
- GROUND FAULT PROTECTION REQUIRED FOR UTILITY RECEPTACLES.
- SERVICE NEUTRAL SHALL BE GROUNDED AT ONE LOCATION ONLY.
- WHITE/NEUTRAL, GREEN/GROUND SHALL BE MAINTAINED THROUGHOUT THE SITE ELECTRICAL SYSTEM (TAPE WILL NOT BE ACCEPTABLE).
- EQUIPMENT LOCATED OUTSIDE OR EXPOSED TO MOISTURE SHALL BE NEMA 3R RATED.
- CONTRACTOR SHALL USE SCHEDULE 80 PVC CONDUIT THROUGHOUT, UNLESS OTHERWISE NOTED.
- ALL NEWLY INSTALLED EQUIPMENT SHALL BE RATED AT 10K AIC MINIMUM. HIGHER RATINGS SHALL BE REQUIRED WHERE AVAILABLE FAULT CURRENT EXCEEDS THIS VALUE. EXACT FAULT CURRENT AVAILABLE SHALL BE COORDINATED WITH LOCAL UTILITY BASED ON EXACT CONDITIONS (TRANSFORMER SIZE, PERCENT IMPEDANCE, LENGTH OF CONDUCTORS, ETC.).
- ELECTRICAL CONTRACTOR TO VERIFY ADDITIONAL/PROPOSED LOADING DOES NOT EXCEED SYSTEM CAPACITY. PLEASE NOTIFY MASTEC NETWORK SOLUTIONS WITH ANY DISCREPANCIES.

NOTES BY SYMBOL:

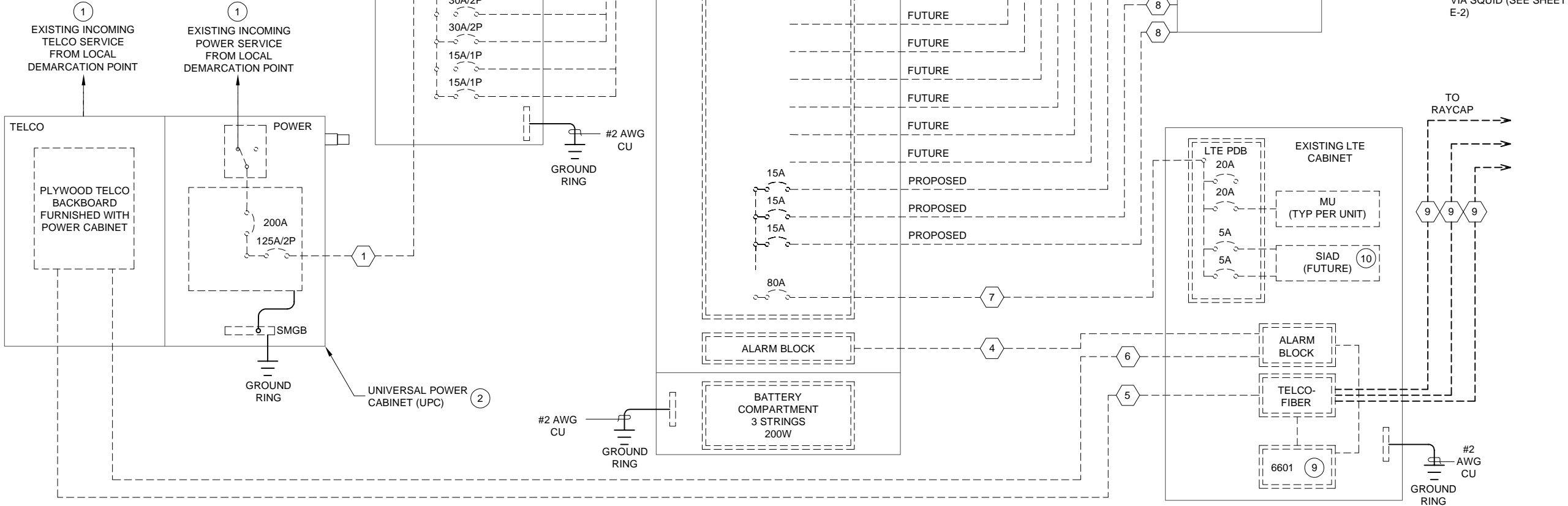
- EXISTING UTILITIES AND EQUIPMENT IN PLACE SHOULD BE USED TO FEED NEW CABINETS INDICATED.
- UNIVERSAL POWER CABINET (UPC) IS SERVICE ENTRANCE RATED, MEETING UL 67 AND UL 50. ALL ITEMS SHOWN WITHIN CABINET ARE PROVIDED WITH THE CABINET AND ARE SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. PROVIDE THE CONNECTIONS INDICATED. OBTAIN POWER CABINET DRAWINGS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A 125A/2 POLE BREAKER WITHIN THE EXISTING UPC TO FEED THE PROPOSED DISTRIBUTION PANEL "SUBPANEL". TYPE AND AIC RATING OF BREAKER SHALL MATCH EXISTING (SQ D QO), WHERE NO SPACE IS AVAILABLE, CONSOLIDATE RECEPTACLE CIRCUITS AND PROVIDE MINI-TWIN BREAKER TO CREATE SPACE. (IF REQUIRED)
- PROVIDE AND INSTALL 24VDC TO -48VDC CONVERTERS WITH DISTRIBUTION BOARD WITHIN EXISTING AUX II CABINET.
- CONTRACTOR SHALL PROVIDE ALL AC CIRCUIT BREAKERS REQUIRED TO FEED AT&T EQUIPMENT. DC CIRCUIT BREAKERS SHALL BE PROVIDED BY AT&T. CONTRACTOR SHALL LABEL ALL CIRCUIT BREAKERS WITH RESPECT TO WHAT THEY FEED.
- POWER PLANT CABINET IS MANUFACTURED BY EMERSON AND CSA/UL RATED. ALL ITEMS SHOWN WITHIN CABINET ARE PROVIDED WITH THE CABINET AND ARE SHOWN FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. PROVIDE THE CONNECTIONS INDICATED. OBTAIN POWER CABINET DRAWINGS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL REFER TO THE FLX16 LTE CABINET AND EQUIPMENT INSTALLATION MANUALS, SPECIFICATIONS, AND AT&T LTE CONSTRUCTION GUIDELINES FOR ADDITIONAL INFORMATION NOT NECESSARILY INCLUDED WITHIN THESE DRAWINGS.
- THE CONTRACTOR SHALL REFER TO EQUIPMENT DRAWINGS AND SPECIFICATIONS FOR CONTROL AND ALARM WIRING. INTERIOR ALARMS ARE PRE-WIRED.
- WHERE REQUIRED, PROVIDE -48VDC POWER, ALARM, AND FIBER CONNECTIONS TO THE 6601 AS INDICATED. COORDINATE WITH AT&T CONSTRUCTION MANAGER.
- SIAD'S SHALL BE FED FROM THE CABINET THEY ARE LOCATED WITHIN (UPC OR LTE)

ELECTRICAL NOTE

ALL ELECTRICAL UPGRADES ARE BEING PERFORMED ON THE DC RECTIFIERS AND DC SIDE OF THE POWER PLANT. THESE UPGRADES WILL NOT REQUIRE ANY CHANGES TO THE AC LOADING.

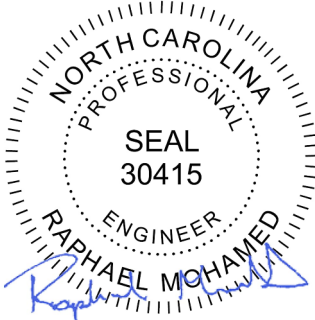
ELECTRICAL SCOPE:

- NEW ANTENNA. SEE SHEET C-3 FOR DETAILS.
- NEW RRU's. SEE SHEET C-3 FOR DETAILS.
- CONNECT PROPOSED BREAKERS TO DC-6 SURGE SUPPRESSOR. SEE MARK 8 ON THE CONDUIT SCHEDULE.



MARK	CONDUIT		CABLE			REMARKS
	QTY.	SIZE	QTY.	SIZE	GROUND SIZE	
①	1 SCH 80	2"	3	#1	#6	AC POWER FROM UPC TO SUBPANEL (ASSUMED SIZE)
②	1 SCH 80	1 1/2"	6	#8	#8	AC POWER FROM SUBPANEL TO POWER PLANT (POWER FOR RECTIFIERS) (QUANTITY OF CONDUCTORS INDICATED IS PER BREAKER)
③	1 SCH 80	1"	3	#12	#12	AC POWER FROM SUBPANEL TO ANCILLARY EQUIPMENT IN POWER PLANT
④	1	2"	BELDIN CABLES			ALARM CONTROL FROM POWER PLANT TO FLX16
⑤	1	2"	FIBER 18-PAIR (FB-L988-A0213-XXX)			FIBER FROM UPC TO FLX16, SWEEPING BENDS
⑥	1	2"	BELDIN CABLES			ALARM CONTROL FROM UPC TO FLX16
⑦	1	2"	1	#2	#2	DC POWER FROM POWER PLANT TO LTE PDB
⑧	1	2"	9	#8	#8	DC POWER FROM POWER PLANT TO DC-6 SURGE SUPPRESSOR
⑨	1	3"	3	FIBER 18-PAIR (FB-L98B-034)		FIBER FROM FLX16 TO RRU's, SWEEPING BENDS
⑩	2	2"	6	3PR DC #8 AWG		DC POWER FROM DC-6 SURGE SUPPRESSOR TO RRU's

SCOPING NOTES		
5G NR 1SR CBAND.5G.1 BAND 77G 77M ADD (3) AIR6472 B77G B77M AIR ANTENNAS IN P2 ALL POSITIONS RELO EXISTING ANTENNAS FROM P2 AND P4 TO P1 AND P3 TO MAKE SPACE FOR AIR6472'S HARVEST (3) 4415 B2/B25'S IN ALL POSITIONS HARVEST (3) 4426 B66'S IN ALL POSITIONS RE-USE DC9-48-60-24-8C-EV SQUID IN ALPHA RE-USE 24 CH FIBER TRUNKS RE-USE 6AWG DC TRUNK FOR AIR6472 B77G B77M'S	1900 / 2100 UPPER D (10 MHZ) BAND B25/B66 INSTALL (3) 4890 B25/B66 RADIOS'S IN P3 RE-USE 6AWG DC TRUNK FOR 4890 B25/B66'S NO POWER PLANT NEEDED RE-USE VERTIV ODN5100 PP (9R, 0C) RE-USE EXISTING BATTERIES ADD ONE -48V RECT PER DE111 RE-USE EXISTING DC12-48-60-0-25E-SS 5G NR 1SR CBAND.5G.1 BAND 77G 77M RE-USE #6AWG TELCOFLEX TO POWER AIR6472 B77G B77M	AIR RADIO INSTALL THREE 50 AMP BREAKERS FOR AIR6472 B77G B77M AIR RADIOS 1900 / 2100 UPPER D (10 MHZ) BAND B25/B66 RE-USE #6AWG TELCOFLEX TO POWER 4890 B25/B66'S INSTALL THREE 50 AMP BREAKERS FOR 4890 B25/B66'S 5G NR 1SR CBAND.5G.1 BAND 77G 77M RE-USE (1) 6601, (1) XMU03, (2) 6630'S



7/23/2025

RAPHAEL MOHAMED, P.E.
NORTH CAROLINA NO. 30415

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PREPARED FOR:



PREPARED BY:

MasTec
Network Solutions
1151 SE CARY PARKWAY, SUITE 101
CARY, NC 27518

SITE ID:
SINC004206

LOCATION NAME:
368-704

SITE ADDRESS:
161 RED HILL CHURCH ROAD
DUNN, NC 28334

FA LOCATION:
14637878

TOWER OWNER ID:
N/A

SHEET TITLE
SINGLE LINE DIAGRAM

SHEET NUMBER
E-1

Recommendations:

- 1) All bolts and hardware should be checked for tightness and condition prior to installing the proposed equipment.
- 2) Pursuant to ATT-CEM-24002, the proposed Ericsson AIR equipment in Position 2 requires a minimum mount pipe diameter of 2.875" OD. The pipe in this position shall be a (1) 1BPP-278126 2.5 STD Pipe (ANT.59536) with (4) Better Metal BHW-BU12Z-300G U-Bolts. Field drilling may be required.
- 3) Pursuant to Section 5.3 of the ATT-790-202-083 MACRO Build Standard, ancillary equipment must be set back by a minimum of 12" behind the horizontal face component of the mount. Refer to **APPENDIX 4** for necessary mounting pipes and hardware.

MasTec RRU Mounting Guide (ATT-790-202-083 Standard)

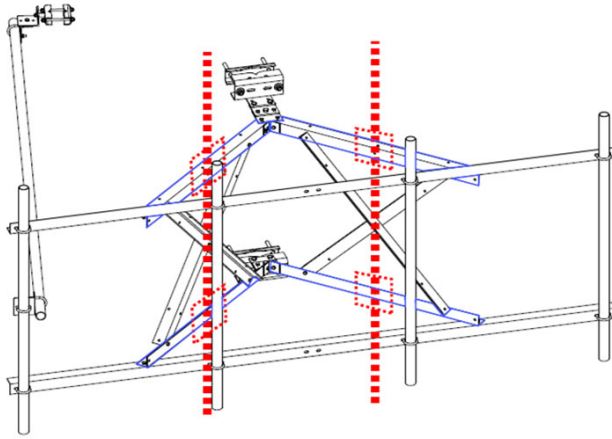
Rev. 2 2/4/2025



Mount Parameters	
Mount Type	Sector Frame
Standoff Type	Angle
Standoff Size	L3x3

RRU Pipe Mount Parameters	
Number of Pipes & R(right)/L(left) Side	2
RRU Pipe Size	2.875" OD
RRU Pipe Qty	2

Sector Frame with Angle Standoff



RRU Mounting Pipe Specifications (Per Sector)

(2) SitePro1 HMB-AU (ANT.59241) w/ (2) SitePro1 #P30120 Mount Pipe (ANT.16008)

OR

(4) Better Metal #1BXP-M07 (Non-CONMAT) Crossover Plate Kit w/ (2) Better Metal #1BPP-278126 Mount Pipe (ANT.59536)

OR

(2) Commscope PAM (Non-CONMAT) w/ (2) Commscope #MT546120 Mount Pipe (ANT.54861)

Note: The mount shown is generic and may not reflect the mount currently installed. Part numbers account for appropriate shapes/sizes.