

3050 SE COUNTY RD 18
LAKE CITY, FL 32025

IWM#: WSTFL0058194/WSTFL0058385/WSTFL0058461



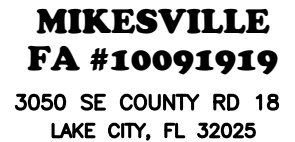
AT&T
12150 RESEARCH PARKWAY
ORLANDO, FL 32826

800 S. DOUGLAS ROAD
10TH FLOOR
CORAL GABLES, FL 33134

GEN
ENGINEERING

27139 SEA BREEZE WAY
ESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

Marc P Maier



T-1

1. THIS IS AN UNMANNED FACILITY AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
2. AT&T CERTIFIES THAT THIS EQUIPMENT FACILITY WILL BE SERVICED ONLY BY AT&T EMPLOYEES AND SUBCONTRACTORS AND THE WORK ASSOCIATED WITH ANY EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS. THIS FACILITY WILL BE FREQUENTED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES ONLY.
3. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
4. NO WASTEWATER WILL BE GENERATED AT THIS LOCATION.
5. NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

GEN3 Engineering - E:\000 GEN3 Docs\Mastec MCA\Mikeville\10091919 _MIKESVILLE_5G NR RADIO CD.dwg

GENERAL NOTES:

1. ALL REFERENCES TO OWNER HEREIN SHALL BE CONSTRUED TO MEAN **AT&T** OR IT'S DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.
3. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
5. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE TESTING AGENCY PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
6. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
8. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL BUILDING CODE.
9. ALL PROPOSED CELLULAR EQUIPMENT AND FIXTURES SHALL BE FURNISHED BY OWNER FOR INSTALLATION BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE A.I.S.C. SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS– ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE A.I.S.C. CODE OF STANDARD PRACTICE.
2. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A26. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
3. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.1.1/D1.1M:2010. STRUCTURAL WELDING CODE–STEEL WELD ELECTRODES SHALL BE E70XX.

4. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE GRADE 304 STAINLESS STEEL.
5. ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615 GRADE 60, DEFORMED BILLET STEEL BARS. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A185.
6. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST A.I.S.C. SPECIFICATIONS.
7. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
8. HOT–DIP GALVANIZE ITEMS SPECIFIED TO BE ZINC–COATED, AFTER FABRICATION WHERE PRACTICAL. GALVANIZING: ASTM A 123, ASTM, A 153/A 153M OR ASTM A 653/A 653M, G90, AS APPLICABLE.
9. REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A 780 OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED, AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS. IN STICK OR PASTE, SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
10. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS IF NO INFORMATION IS CONTAINED IN THESE PLANS OR IF THE MANUFACTURER'S SPECIFICATIONS ARE STRICTER.

PERMITS:

1. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES.
2. ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND THE ACI 318–14, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
4. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
5. ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

MISCELLANEOUS:

1. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLES SHALL CONFORM TO ASTM A307 OR ASTM 36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.
2. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
3. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.
4. PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE GRADE 304 STAINLESS STEEL HARDWARE THROUGHOUT.
5. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS.

6. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS TO BE A MIN. OF 8" RADIUS.
7. FOR GROUNDING TO BUILDING FRAME AND HATCH PLATE GROUND BARS, USE A TWO–BOLT HOLE NEPA DRILLED CONNECTOR SUCH AS T&B 32007 OR APPROVED EQUAL.
8. FOR ALL EXTERNAL GROUND CONNECTIONS, CLAMPS AND CADWELDS, APPLY A LIBERAL PROTECTIVE COATING OR AN ANTI–OXIDE COMPOUND SUCH AS 'NO–OXIDE A' BY DEARBORN CHEMICAL COMPANY.
9. REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING COLD GALVANIZATION.
10. ANTENNA CABLE LENGTHS HAVE BEEN DETERMINED BASED ON THESE PLANS. CABLE LENGTHS LISTED ARE APPROXIMATED AND ARE NOT INTENDED TO BE USED FOR FABRICATION. DUE TO FIELD CONDITIONS, ACTUAL CABLE LENGTHS VARY. CONTRACTOR MUST FIELD VERIFY ANTENNA CABLE LENGTHS PRIOR TO ORDER.

REV	DATE	DESCRIPTION
A	07/14/25	PRELIMINARY CDs REV "A"
B	12/09/25	PRELIMINARY CDs REV "B"
C	12/19/25	PRELIMINARY CDs REV "C"
0	01/22/26	FINAL CDs ISSUED
1	01/23/26	MASTEC SCOPING REVIEW
2	07/30/26	AT&T REDLINES
DRAWN BY:		CHECKED BY:
ME		MM

**AT&T**

12150 RESEARCH PARKWAY
ORLANDO, FL 32826

**MasTec**

Network Solutions

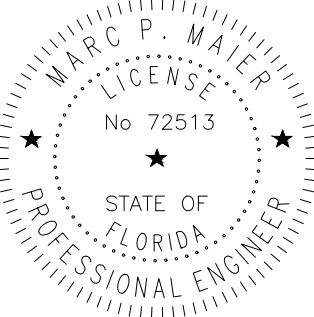
800 S. DOUGLAS ROAD
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PREPARED BY:

**GEN
ENGINEERING**

27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
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COA # 35409

THIS ITEM HAS BEEN DIGITALLY SIGNED & SEALED BY MARC P. MAIER, P.E. ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



JULY 30, 2026
MARC P. MAIER, PE
FL PROFESSIONAL ENGINEER LIC. # 72513

MIKESVILLE
FA #10091919
3050 SE COUNTY RD 18
LAKE CITY, FL 32025

SHEET DESCRIPTION

**GENERAL NOTES,
ABBREVIATIONS**

SHEET NUMBER

GN-1

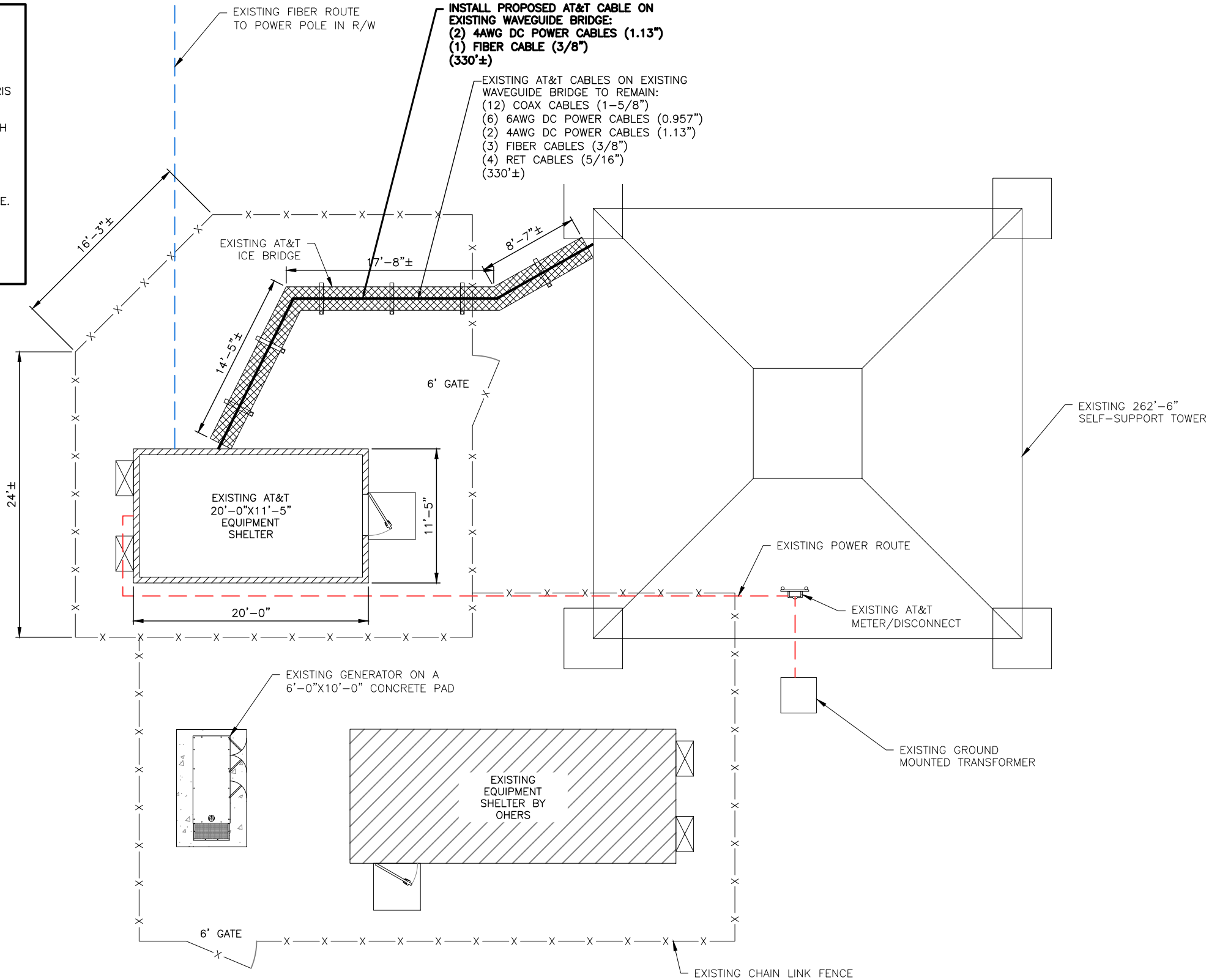
GEN3 Engineering - E:\000 GEN3 Docs\Mastec MCA\Mikeville\10091919 _MIKESVILLE_5G NR RADIO CD.dwg

NOTES:

1. CONTRACTOR TO FILL ANY EXISTING GRAVEL AREAS THAT ARE DISTURBED DURING THE COURSE OF CONSTRUCTION, GRAVEL TO MATCH EXISTING.
2. THE CONTRACTOR TO ENSURE THAT NO DAMAGE OR DEBRIS OCCURS ON THE ADJACENT PROPERTIES.
3. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITH LOW MAINTENANCE NATIVE GRASS AND COVER WITH APPROVED STRAW.
4. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION CONTROL TECHNIQUES AND BEST MANAGEMENT PRACTICES PER LOCAL AND AND STATE REQUIREMENTS AS APPLICABLE.
5. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.

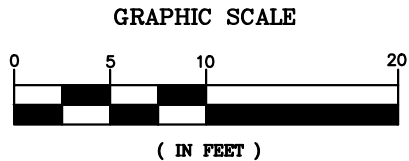
CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE RAYCAP INSTALL ON THE TOWER TO ACCOMMODATE THE QUANTITY OF RRU'S.

THE CONTRACTOR MUST FIELD VERIFY ALL MEASUREMENTS AND FIELD CONDITIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



CALL FLORIDA 811
ONE CALL - DIAL 811
CALL 3 WORKING DAYS
BEFORE YOU DIG
1-800-638-4097

1 SITE PLAN
SCALE: 1" = 10'
SCALE BASED ON 11"x17" ONLY



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2	07/30/26	AT&T REDLINES

DRAWN BY:	CHECKED BY:
ME	MM



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ORLANDO, FL 32826



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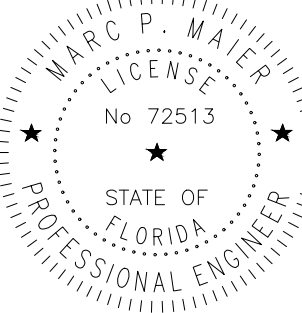
800 S. DOUGLAS ROAD
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CORAL GABLES, FL 33134

PREPARED BY:



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JULY 30, 2026

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MIKESVILLE
FA #10091919

3050 SE COUNTY RD 18
LAKE CITY, FL 32025

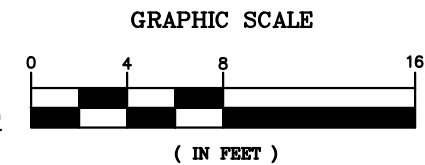
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SITE PLAN

SHEET NUMBER

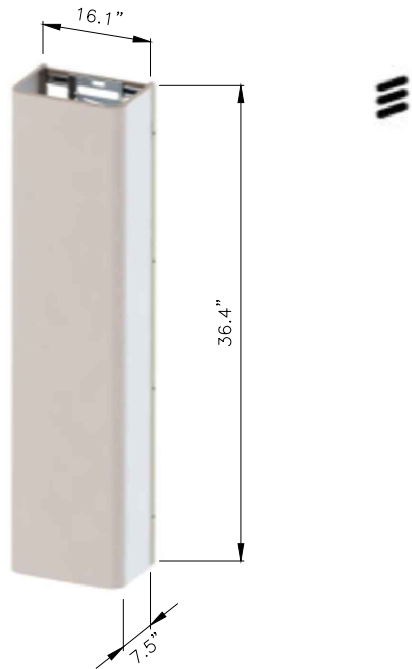
C-1

4. CONTRACTOR TO RETURN ALL EXISTING ANTENNA BEING REMOVED TO AT&T.



S-1

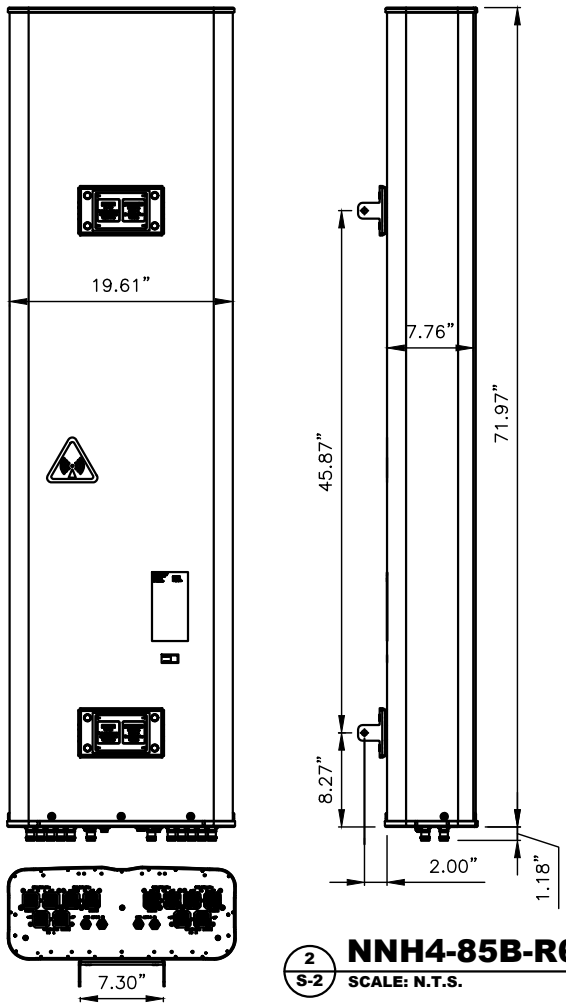
GEN3 Engineering - E:\000 GEN3 Docs\Mastec MCA\Mikeville\10091919 _MIKESVILLE_5G NR RADIO_CD.dwg



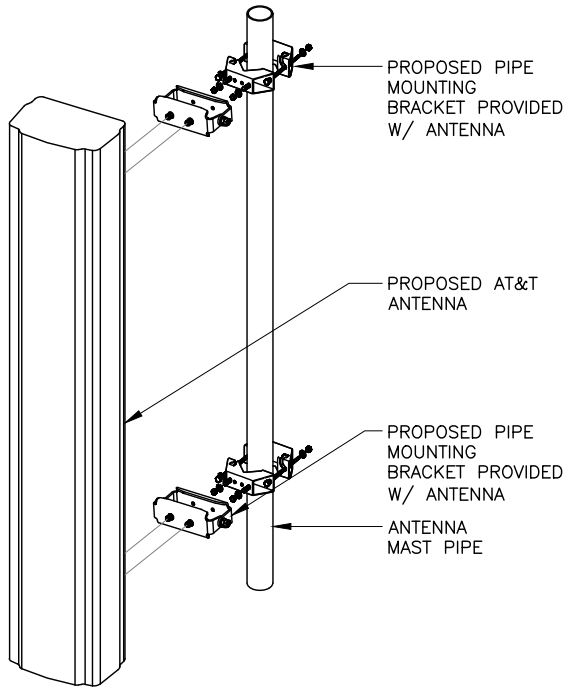
AIR 6472 B77G B77M, Wide band
Product Spec

TRX Branches	64T64R
Antenna Elements	256
Antenna configuration	(4x1)x(4x8)
Operation band	B77G (3450-3550 MHz) + B77M (3840-3980MHz)
Weight	42 kg
Size	925Hx410Wx190D mm, 72 L

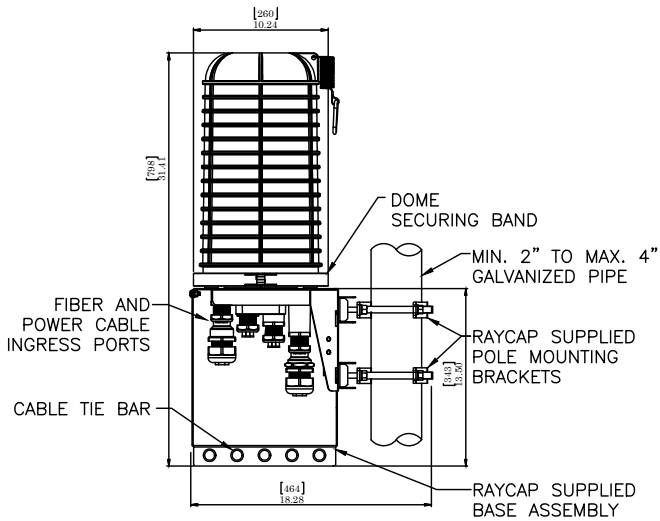
1
S-2
ERICSSON AIR 6472 B77G B77M
SCALE: N.T.S.



2
S-2
NNH4-85B-R6
SCALE: N.T.S.



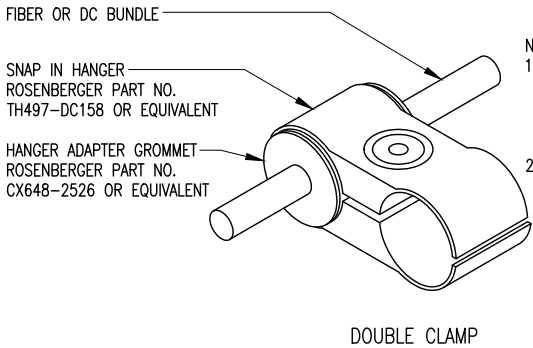
3
S-2
ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



- NOTES:
- UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
 - CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S.

4
S-2
DC9-48-60-24-8C-EV MOUNT DETAIL
SCALE: N.T.S.

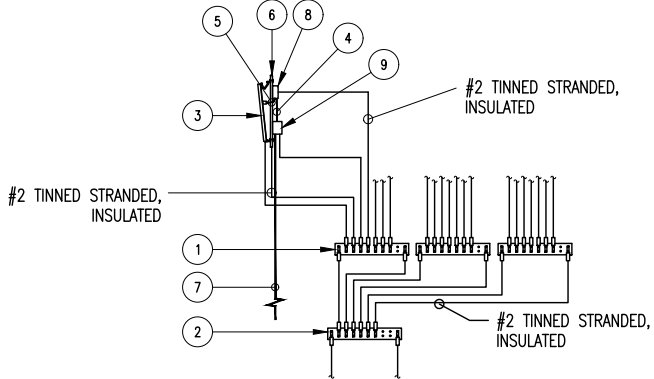
MISCELLANEOUS MATERIALS SCHEDULE		
DESCRIPTION	MODEL NUMBER	QUANTITY
HANGER BLOCK	L7CLICK	-
HANGER ADAPTER GROMMET	HG-091241-158	-
HOISTING GRIP	19256B	-
HOISTING GRIP	LUHG-38	-
GROUNDING KIT	-	-



- NOTES:
- REFER TO JSA DOCUMENTS FOR EXACT CABLE NUMBER AND MANUFACTURER SPECIFICATIONS FOR PROPER GROMMETS AND HANGER TO SUPPORT THE FIBER AND DC CABLE BUNDLES.
 - REFER TO STRUCTURAL ANALYSIS FOR EXACT CABLE ROUTING AND MOUNTING CONFIGURATION.

5
S-2
HANGER ADAPTER GROMMET DETAILS
SCALE: N.T.S.

- KEYNOTE LEGEND:
- SECTOR GROUND BAR (TYP).
 - COLLECTOR GROUND BAR.
 - NEW ANTENNA.
 - SINGLE PAIR FIBER & DC POWER.
 - JUMPER CABLE, 1/2" (TYP).
 - PIPE MOUNT.
 - DC POWER & FIBER TO RAYCAP UNIT.
 - REMOTE RADIO HEAD (RRH) (IF APPLICABLE).
 - DC6 RAYCAP SURGE SUPPRESSOR (IF APPLICABLE).



- UTILIZE EXISTING AT&T GROUND BARS AND GROUNDING.
- ADD GROUND BARS IF THERE ARE INSUFFICIENT LUG POSITIONS.
- REFERENCE AT&T BONDING & GROUNDING PRACTICE TP76416.

6
S-2
ANTENNA GROUNDING SCHEMATIC
SCALE: N.T.S.

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DRAWN BY: ME
CHECKED BY: MM

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ORLANDO, FL 32826

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MARC P. MAIER
LICENSE
No 72513
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
JULY 30, 2026
MARC P. MAIER, PE
FL PROFESSIONAL ENGINEER LIC. # 72513

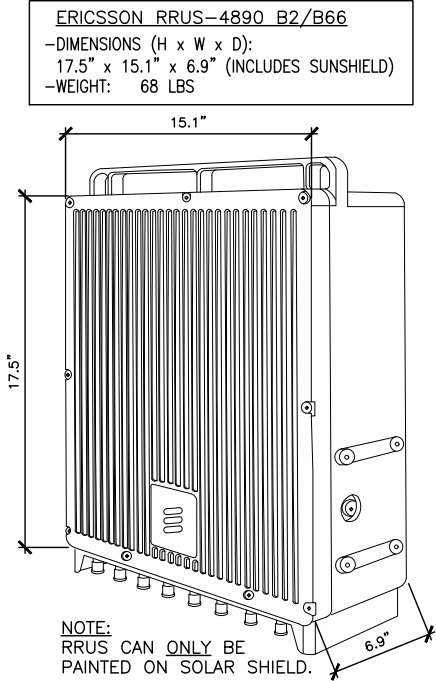
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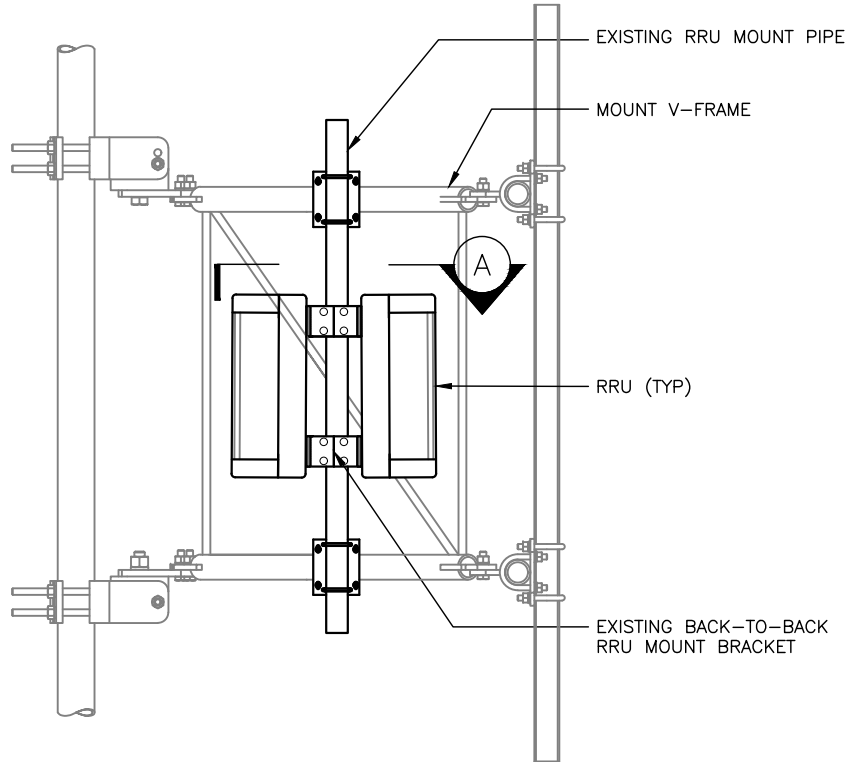
MISCELLANEOUS
DETAILS

SHEET NUMBER

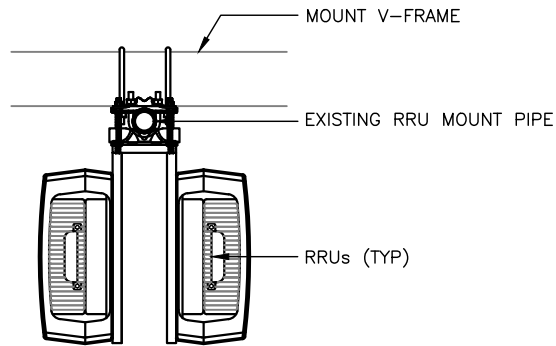
S-2



1
S-3 **RRUS 4890 B25/B66 DETAIL**
SCALE: N.T.S.



NOTE:
DETAIL IS DIAGRAMMATIC. CONTRACTOR
TO INSTALL RRU'S ON RRU MOUNT BEST
SUITED FOR ANTENNA CONFIGURATION.



SECTION A

2
S-3 **RRU MOUNTING DETAIL**
SCALE: N.T.S.

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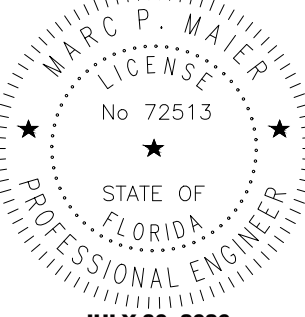
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SHEET DESCRIPTION

**MISCELLANEOUS
DETAILS**

SHEET NUMBER

S-3

GEN3 Engineering - E:\000 GEN3 Docs\Mastec MCA\Mikeville\10091919_1_MIKESVILLE_5G_NR_RADIO_CD.dwg

DC / FIBER DEMARCATION BOX									
RAYCAP DC FIBER DEMARCATION BOX					NOTES				
MOUNTING HEIGHT		MODEL		SIZE	QTY	LENGTH PER LINE			
241'-0"		DC9-48-60-24-8C-EV		3/8"	3	330'-0"			
				0.957"	6	330'-0"			
				1.13"	4	330'-0"			

*(2) EXISTING & (2) PROPOSED #4 DC TRUNK

ANTENNA AND COAX SCHEDULE																				
SECTOR	AZ	ANTENNAS						CABLES					RRU				TMA			
		RAD CENTER	ANTENNA		(QTY)	WGHT (LBS)	APPROXIMATE DIMENSIONS	MODEL	SIZE	(QTY)	LENGTH/ LINE	COLOR CODE	MODEL	TOP (QTY)	WGHT (LBS)	APPROXIMATE DIMENSIONS	MODEL	(QTY)		
MAKE	MODEL																			
ALPHA (A1)	0°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	1 RED	4478 B14	1	59.4	H=18.1" x W=13.4" x D = 8.3"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	1 RED	RRUS-32 B30	1	53.0	H=27.2" x W=12.1" x D = 7.4"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 RED	-	-	-	-	-			
ALPHA (A2)	0°	241 °-0"	ERICSSON	AIR6472 B77G B77M	1	92.6	H=36.3" x W=15.8" x D=7.4"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9)	3/8"	2	15'-0"	2 RED	-	-	-	-	-	-	-	
								ROSENBERGER SINGLE PAIR DC CABLE (DC9)	7/16"	1	15'-0"	2 RED	-	-	-	-	-	-	-	
								-	-	-	-	-	-	-	-	-	-	-		
ALPHA (A3)	0°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	3 RED	4449 B5/B12	1	70.0	H=18.0" x W=13.2" x D = 9.4"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	3 RED	8843 B2/B66A	1	75.0	H=15.0" x W=13.2" x D = 11.1"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	3 RED	-	-	-	-	-	-	-	
ALPHA (A4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
BETA (B1)	180°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	1 BLUE	4478 B14	1	59.4	H=18.1" x W=13.4" x D = 8.3"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	1 BLUE	RRUS-32 B30	1	53.0	H=27.2" x W=12.1" x D = 7.4"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 BLUE	-	-	-	-	-	-	-	
BETA (B2)	180°	241 °-0"	ERICSSON	AIR6472 B77G B77M	1	92.6	H=36.3" x W=15.8" x D=7.4"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9)	3/8"	2	15'-0"	2 BLUE	-	-	-	-	-	-	-	-
								ROSENBERGER SINGLE PAIR DC CABLE (DC9)	7/16"	1	15'-0"	2 BLUE	-	-	-	-	-	-	-	-
								-	-	-	-	-	-	-	-	-	-	-	-	
BETA (B3)	180°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	3 BLUE	4449 B5/B12	1	70.0	H=18.0" x W=13.2" x D = 9.4"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	3 BLUE	8843 B2/B66A	1	75.0	H=15.0" x W=13.2" x D = 11.1"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	3 BLUE	-	-	-	-	-	-	-	
BETA (B4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
GAMMA (G1)	270°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	1 GREEN	4478 B14	1	59.4	H=18.1" x W=13.4" x D = 8.3"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	1 GREEN	RRUS-32 B30	1	53.0	H=27.2" x W=12.1" x D = 7.4"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 GREEN	-	-	-	-	-	-	-	
GAMMA (G2)	270°	241 °-0"	ERICSSON	AIR6472 B77G B77M	1	92.6	H=36.3" x W=15.8" x D=7.4"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9)	3/8"	2	15'-0"	2 GREEN	-	-	-	-	-	-	-	-
								ROSENBERGER SINGLE PAIR DC CABLE (DC9)	7/16"	1	15'-0"	2 GREEN	-	-	-	-	-	-	-	-
								-	-	-	-	-	-	-	-	-	-	-	-	
GAMMA (G3)	270°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	3 GREEN	4449 B5/B12	1	70.0	H=18.0" x W=13.2" x D = 9.4"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	4	15'-0"	3 GREEN	8843 B2/B66A	1	75.0	H=15.0" x W=13.2" x D = 11.1"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	3 GREEN	-	-	-	-	-	-	-	
GAMMA (G4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DELTA (D1)	90°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	1 GREEN	4478 B14	1	59.4	H=18.1" x W=13.4" x D = 8.3"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	2	15'-0"	1 GREEN	4415 B30	1	47.4	H=16.5" x W=13.4" x D = 5.9"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	8	10'-0"	1 GREEN	-	-	-	-	-	-	-	
DELTA (D2)	90°	241 °-0"	ERICSSON	AIR6472 B77G B77M	1	92.6	H=36.3" x W=15.8" x D=7.4"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9)	3/8"	2	15'-0"	2 GREEN	-	-	-	-	-	-	-	-
								ROSENBERGER SINGLE PAIR DC CABLE (DC9)	7/16"	1	15'-0"	2 GREEN	-	-	-	-	-	-	-	-
								-	-	-	-	-	-	-	-	-	-	-	-	
DELTA (D3)	90°	241 °-0"	COMMSCOPE	NNH4-85B-R6	1	82.2	H=71.9" x W=19.6" x D=7.7"	-	-	-	-	-	-	-	-	-	-	-		
								ROSENBERGER FIBER JUMPER (DC9 TO RRU)	3/8"	4	15'-0"	3 GREEN	4449 B5/B12	1	70.0	H=18.0" x W=13.2" x D = 9.4"	-	-		
								ROSENBERGER SINGLE PAIR DC CABLE (DC9 TO RRU)	7/16"	3	15'-0"	3 GREEN	4890 B25/B66	1	68.0	H=17.5" x W=15.1" x D = 6.9"	-	-		
								1/2" COAX JUMPER (RRU TO ANTENNA)	1/2"	12	10'-0"	3 GREEN	-	-	-	-	-	-	-	
DELTA (D4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL				12	TOTAL 1-5/8" COAX CABLES (INACTIVE)				12	3960'-0"	TOTAL				16	TOTAL				

- * ANTENNA AND COAX INFORMATION PROVIDED FROM THE 5G NR 1DR-1/5G NR 1DR-2/5G NR RFDS ID #RFDS-37520 DATED 12/11/2024
- * CONTRACTOR TO VERIFY RF INFO WITH CLIENT PRIOR TO CONSTRUCTION.
- * COAX LENGTHS ARE APPROXIMATE AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.
- * ALL COAX SHALL BE COLOR CODED AT TOP AN BOTTOM JUMPER AND AT TOP OF TOWER BOTTOM OF TOWER, AND INSIDE SHELTER ON MAIN COAX.
- * EACH MAIN COAX SHALL HAVE CORROSION PROOF "ID TAGS" INSTALLED INSIDE THE SHELTER AT THE PORT AND AT THE ANTENNA.
- * ALL QUANTITIES GIVEN ARE TOTAL EXISTING AND PROPOSED

1
AN-1

ANTENNA & COAX SCHEDULE
SCALE: N.T.S.

REV	DATE	DESCRIPTION
A	07/14/25	PRELIMINARY CDs REV "A"
B	12/09/25	PRELIMINARY CDs REV "B"
C	12/19/25	PRELIMINARY CDs REV "C"
0	01/22/26	FINAL CDs ISSUED
1	01/23/26	MASTEC SCOPING REVIEW
2	07/30/26	AT&T REDLINES

DRAWN BY:	CHECKED BY:
ME	MM

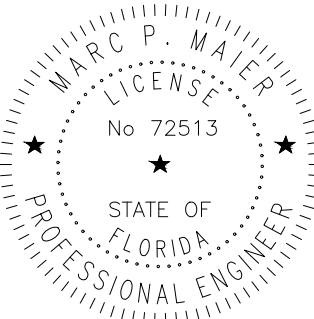
**AT&T**
12150 RESEARCH PARKWAY
ORLANDO, FL 32826

**MasTec**
Network Solutions
800 S. DOUGLAS ROAD
10TH FLOOR
CORAL GABLES, FL 33134

PREPARED BY:

**GEN ENGINEERING**
27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

THIS ITEM HAS BEEN DIGITALLY SIGNED & SEALED BY MARC P. MAIER, P.E. ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

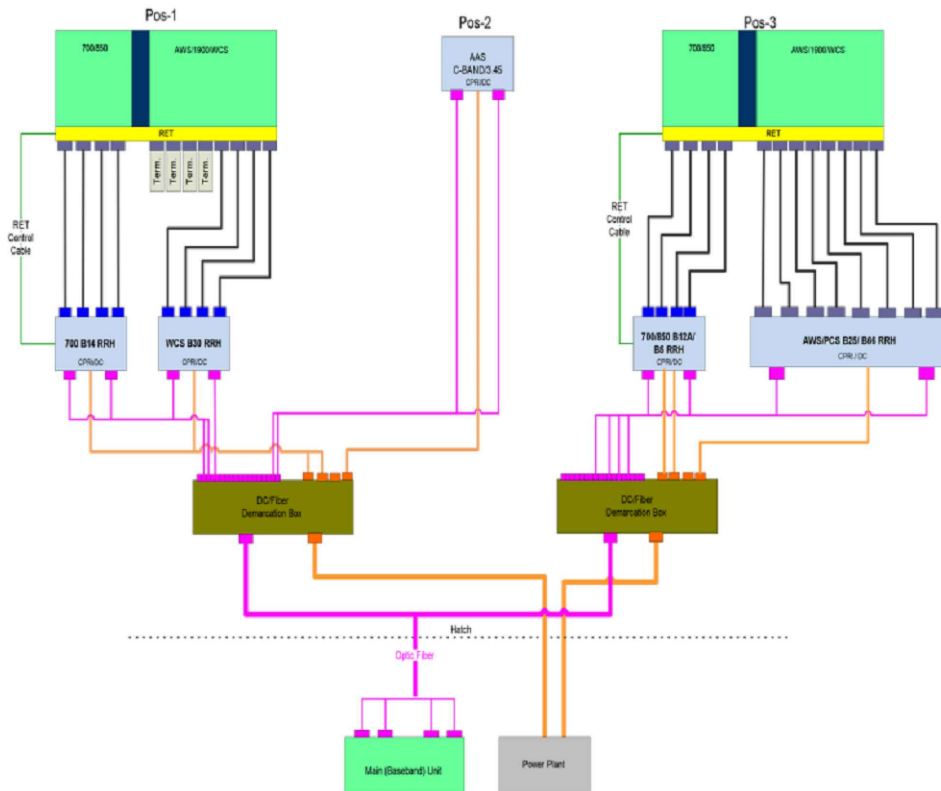
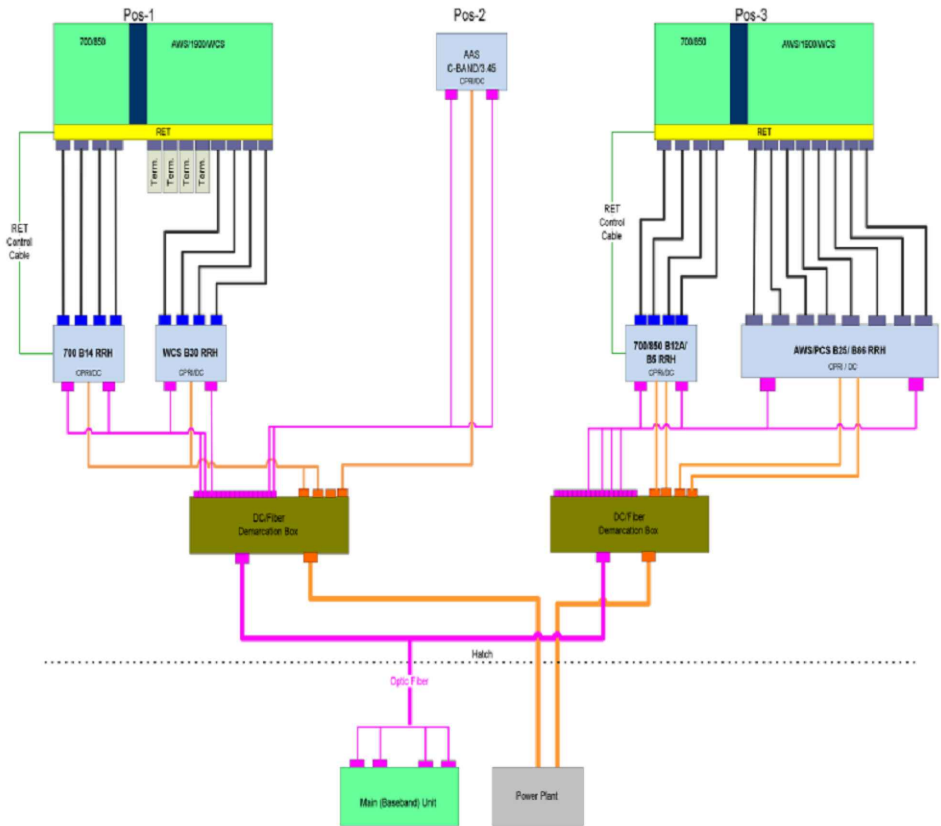


JULY 30, 2026
MARC P. MAIER, PE
FL PROFESSIONAL ENGINEER LIC. # 72513

MIKESVILLE
FA #10091919
3050 SE COUNTY RD 18
LAKE CITY, FL 32025

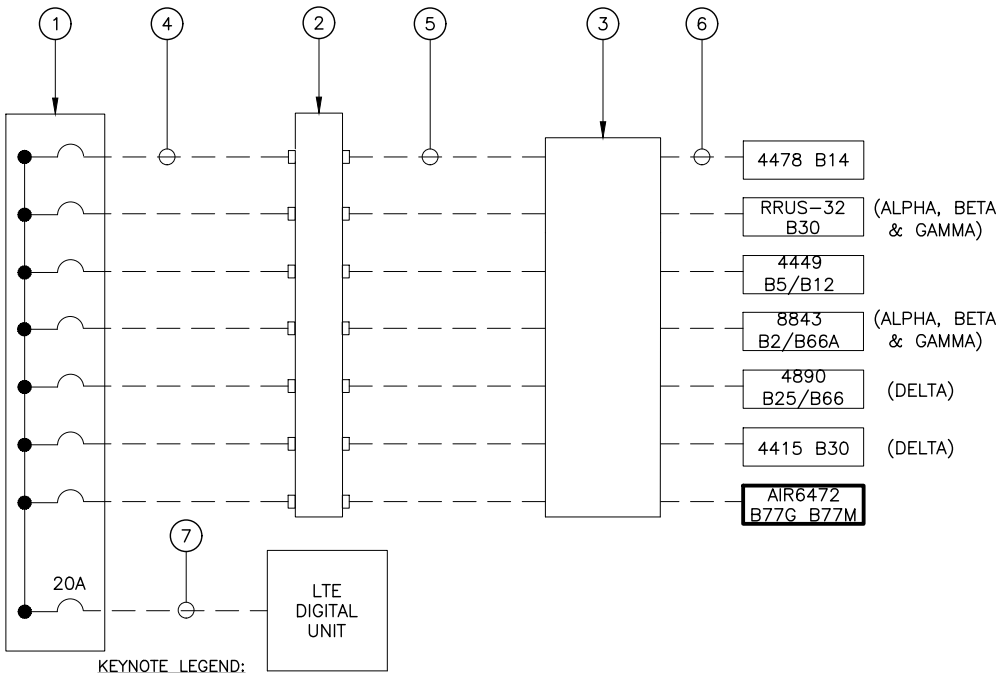
SHEET DESCRIPTION
ANTENNA SCHEDULE

SHEET NUMBER
AN-1



1
E-1 **ONE-LINE DIAGRAMS**
SCALE: N.T.S.

ERICSSON RRU BREAKER REQUIREMENTS		
ERICSSON RADIO	SIZE BREAKER	TECHNOLOGY
RRUS 32 B66	30 AMP	AWS (2100)
RRUS 32 B30	20 AMP	WCS (2300)
RRUS 32 B2	30 AMP	PCS (1900)
RRUS 11	25 AMP	VARIOUS BANDS (700 [B12] , 850 [B5], 1900 [B2], 2100 [B4])
RRUS12 + A2	25 AMP	VARIOUS BANDS (850 [B5], 1900 [B2], 2100 [B4])
RRUS 4402 B66/B25	10 AMP	PCS (1900), AWS (2100)
RRU 4415 B25	25 AMP	1900
RRU 4415 B30	25 AMP	2300
RRU 4426 B66	30 AMP	2100
RRU 4455	15A AC	1900/2100
RRU 4478 B12	25 AMP	700
RRU 4478 B14	25 AMP	700
RRU 4478 B5	25 AMP	850
RRUS E2 B29	25 AMP	700 (B29 Tx ONLY)
RRUS 4449 B5/B12	2x25 AMP	700/850
RRUS 8843 B2/B66	2x30 AMP	1900/2100
RRUS 4460 B2/B66	2x40 AMP	1900/2100
AIR6488 B48	35 AMP	CBRS 3.55-3.7 GHz
AIR6449 B77	50 AMP	C BAND 3.3-4.2 GHz
AIR6419 B77	50 AMP	B77G DOD SUB BAND 3.4-3.6 GHz
RRU8863 B77	50 AMP	C BAND 3.8-4.2 GHz
DUAL AIR6464	2x50 AMP	C BAND 3.4 GHz
RADIO 4467	45 AMP	N77 DUAL C-BAND 3.45 GHz
RADIO 4490	50 AMP	B5/B12 DUAL BAND
RADIO 4408	10A AC 15A DC	3.45 GHz PICO RADIO
RADIO 4890	50 AMP	B2-B5/B66
6472 B77G/B77M	50 AMP	B77G/B77M

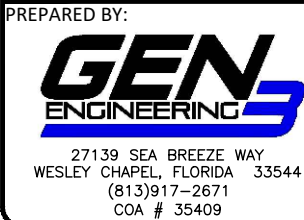


- KEYNOTE LEGEND:**
1. -48V DC POWER PLANT. CONTRACTOR TO VERIFY CORRECT BREAKER SIZE IS INSTALLED FOR EACH RRU PER CHART.
 2. (1) RACK MOUNTED RAYCAP DC SURGE PROTECTOR.
 3. RAYCAP FIBER AND DC DISTRIBUTION UNIT TOWER MOUNTED.
 4. #8 AWG SHIELDED CONDUCTORS.
 5. PROVIDE (2) 6-CONDUCTOR #6 AWG BUNDLES FOR DC POWER FROM RACK MOUNTED RAYCAP SURGE PROTECTION UNIT TO THE RAYCAP FIBER AND DISTRIBUTION UNIT ON TOWER.
 6. DC CABLE ROUTED TO RRH UNITS.
 7. #12 AWG SHIELDED CONDUCTORS (WR-VG122ST-BRDA).

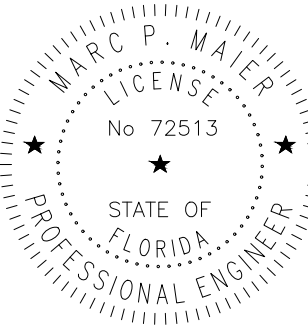
2
E-1 **TYPICAL DC RISER DIAGRAM**
SCALE: N.T.S.

REV	DATE	DESCRIPTION
A	07/14/25	PRELIMINARY CDs REV "A"
B	12/09/25	PRELIMINARY CDs REV "B"
C	12/19/25	PRELIMINARY CDs REV "C"
0	01/22/26	FINAL CDs ISSUED
1	01/23/26	MASTEC SCOPING REVIEW
2	07/30/26	AT&T REDLINES

DRAWN BY: ME
CHECKED BY: MM



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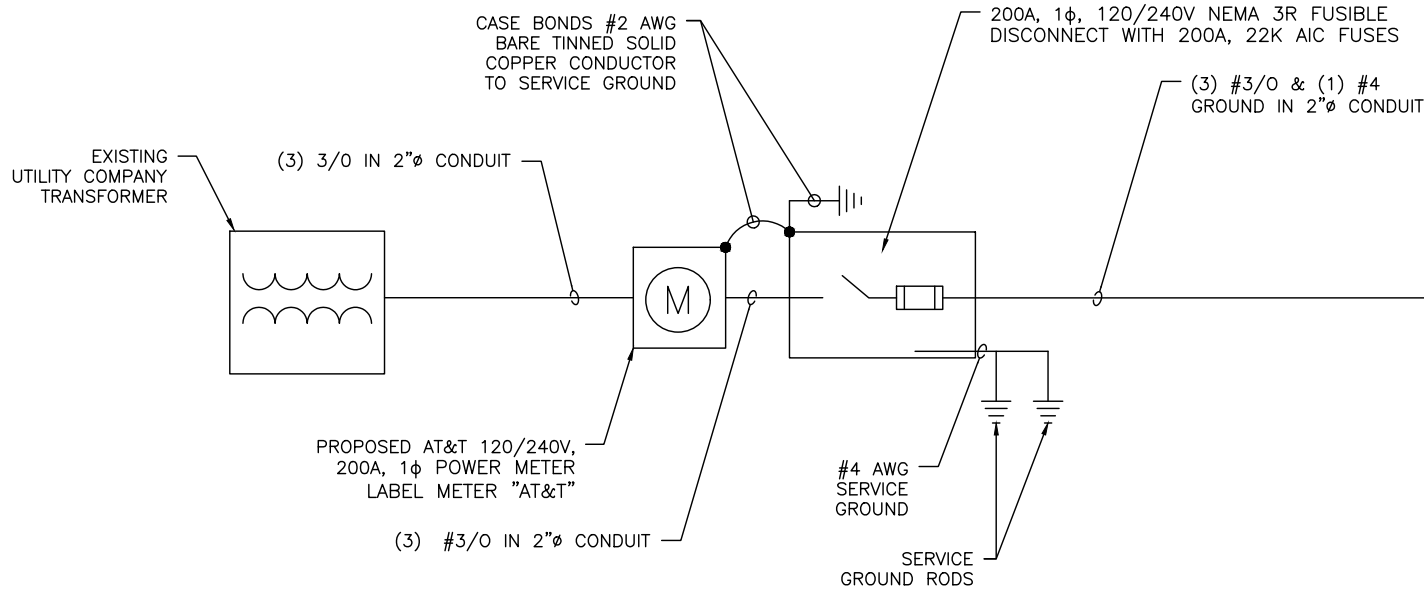
JULY 30, 2026
MARC P. MAIER, PE
FL PROFESSIONAL ENGINEER LIC. # 72513

MIKESVILLE
FA #10091919
3050 SE COUNTY RD 18
LAKE CITY, FL 32025

SHEET DESCRIPTION
ANTENNA ONE-LINE DIAGRAM

SHEET NUMBER
E-1

GEN3 Engineering - E:\000 GEN3 Docs\Mastec MCA\Mikeville\10091919 _MIKESVILLE_5G NR RADIO CD.dwg



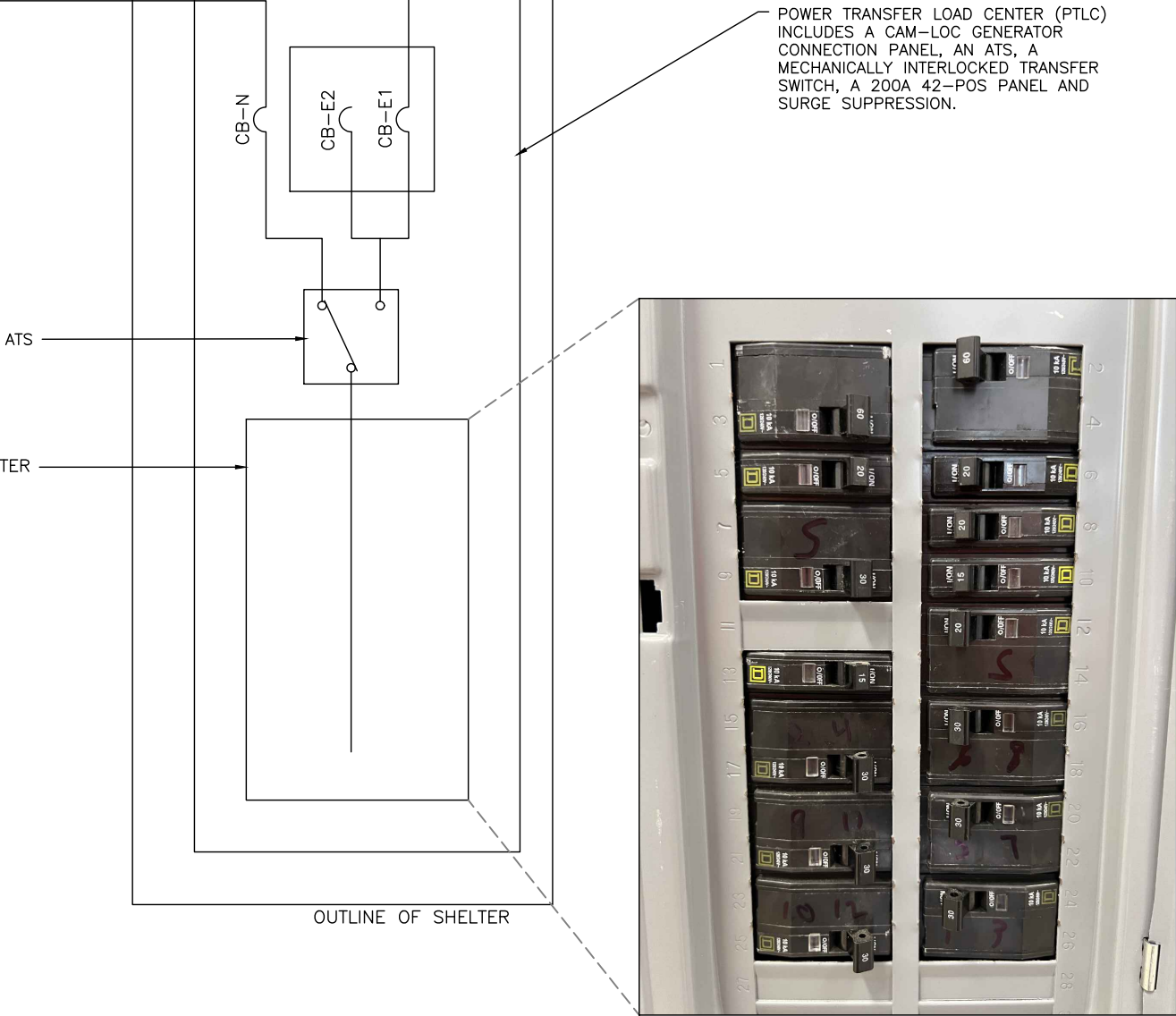
1
E-2 **A/C ONE-LINE DIAGRAM**
SCALE: N.T.S.

MAIN BREAKER SIZE: 200													
MAIN FEEDER WIRE SIZE: 3/0													
VOLTAGE: 120/240, 1PH													
CKT#	DESCRIPTION	BREAKER SIZE	"A"		"B"		"B"		"A"		BREAKER SIZE	DESCRIPTION	CKT#
			CONT	NONC	CONT	NONC	NONC	CONT	NONC	CONT			
1	HVAC	60 amp	1909	—	1909	—	—	1909	—	1909	60 amp	HVAC 2	2
3			—	—	—	—	—	—	—	—			4
5	GFI RECEPTACLE	20 amp	—	180	—	—	—	180	—	20 amp	20 amp	LIGHTS	6
7	SPARE	30 amp	—	—	—	—	—	—	—	20 amp	20 amp	TOWER LIGHTS	8
9			—	—	—	—	—	—	180	—	15 amp	15 amp	GFCI RECEPTACLE
11	SPARE	—	—	—	—	—	—	—	—	—	20 amp	SPARE	12
13	MOTION DETECTOR	15 amp	—	180	—	—	—	—	—	—	20 amp	SPARE	14
15	RECTIFIER 2 & 4	30 amp	1740	—	1740	—	—	1740	—	—	30 amp	RECTIFIER 6 & 8	16
17			—	—	—	—	—	—	—	1740			18
19	RECTIFIER 9 & 11	30 amp	1740	—	1740	—	—	1740	—	—	30 amp	RECTIFIER 5 & 7	20
21			—	—	—	—	—	—	—	1740			22
23	RECTIFIER 10 & 12	30 amp	1740	—	1740	—	—	1740	—	—	30 amp	RECTIFIER 1 & 3	24
25			—	—	—	—	—	—	—	1740			26
27	SPARE	—	—	—	—	—	—	—	—	—	—	SPARE	28
29	SPARE	—	—	—	—	—	—	—	—	—	—	SPARE	30
			7129	360	7129	0	180	7129	360	7129			

PANEL USAGE DATE:	VA		
	CONT	NONC	TOTAL (1.25%cont+nonc)
A	14258	360	18183
B	14258	540	18363

SUMMARY:	VA	AMPS
TOTAL ALLOWED:	48000	200.0
TOTAL USED:	36546	152.28
REMAINING AVAILABLE:	11454	47.72

2
E-2 **PANEL SCHEDULE**
SCALE: N.T.S.



REV	DATE	DESCRIPTION
A	07/14/25	PRELIMINARY CDs REV "A"
B	12/09/25	PRELIMINARY CDs REV "B"
C	12/19/25	PRELIMINARY CDs REV "C"
0	01/22/26	FINAL CDs ISSUED
1	01/23/26	MASTEC SCOPING REVIEW
2	07/30/26	AT&T REDLINES

DRAWN BY:	CHECKED BY:
ME	MM

AT&T
12150 RESEARCH PARKWAY
ORLANDO, FL 32826

MasTec
Network Solutions
800 S. DOUGLAS ROAD
10TH FLOOR
CORAL GABLES, FL 33134

PREPARED BY:

GEN ENGINEERING
27139 SEA BREEZE WAY
WESLEY CHAPEL, FLORIDA 33544
(813)917-2671
COA # 35409

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MARC P. MAIER
LICENSE
No 72513
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JULY 30, 2026
MARC P. MAIER, PE
FL PROFESSIONAL ENGINEER LIC. # 72513

MIKESVILLE
FA #10091919
3050 SE COUNTY RD 18
LAKE CITY, FL 32025

SHEET DESCRIPTION

ELECTRICAL DETAILS

SHEET NUMBER

E-2