



Byron Dunn

APPROVED

2026/08/07

LAKE CITY
FA #10091907
CROWN CASTLE BU# 846213

4284 NORTH US HIGHWAY 441
LAKE CITY, FL 32055

TOWER UPGRADE - 5G NR 1DR-1/5G NR 1DR-2/5G NR
IWM#: WSTFL0058367



12150 RESEARCH PARKWAY
ORLANDO, FL 32826



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

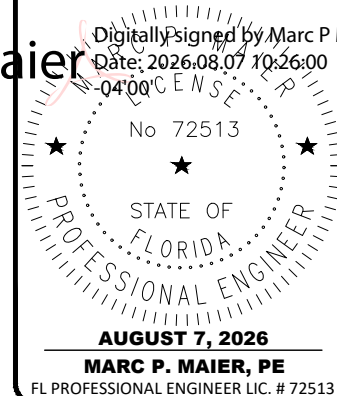
PREPARED BY:



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.

Marc P Maier



LAKE CITY
FA #10091907

4284 N US HIGHWAY 441
LAKE CITY, FL 32055

SHEET DESCRIPTION

TITLE SHEET

SHEET NUMBER

T-1

[illegible]

GN-1

GEN3 Engineering - E:\000 GEN3 Docs\Mastec MCA\LAKE CITY\10091907\LAKE CITY_5G NR RADIO_CD.dwg August 7, 2026

NOTES:

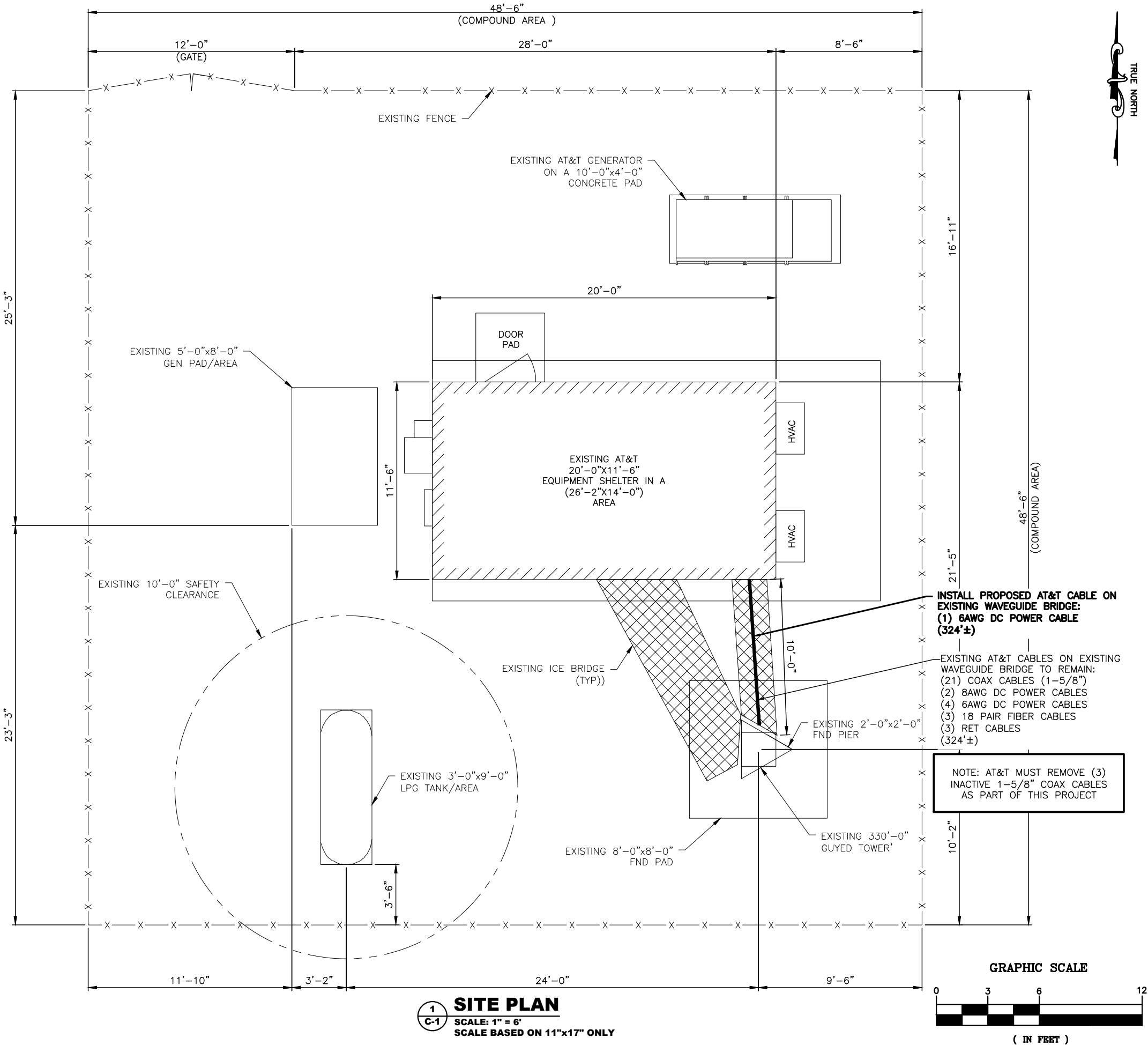
1. CONTRACTOR TO FILL ANY EXISTING GRAVEL AREAS THAT ARE DISTURBED DURING THE COURSE OF CONSTRUCTION, GRAVEL TO MATCH EXISTING.
2. THE CONTRACTOR TO ENSURE THAT NO DAMAGE OR DEBRIS OCCURS ON THE ADJACENT PROPERTIES.
3. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITH LOW MAINTENANCE NATIVE GRASS AND 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



REV	DATE	DESCRIPTION
A	06/02/26	PRELIMINARY CDs REV "A"
0	08/07/26	FINAL CDs ISSUED
1		
2		

DRAWN BY: ME
CHECKED BY: MM

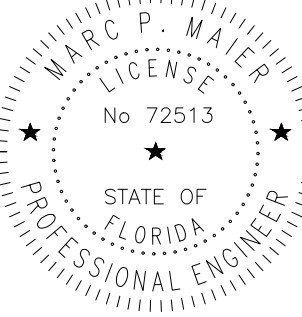
AT&T
12150 RESEARCH PARKWAY
ORLANDO, FL 32826

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

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GEN ENGINEERING
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AUGUST 7, 2026
MARC P. MAIER, PE
FL PROFESSIONAL ENGINEER LIC. # 72513

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LAKE CITY, FL 32055

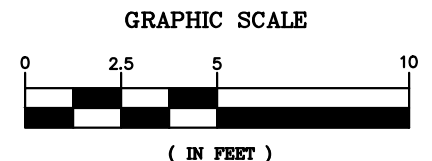
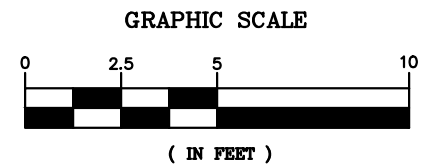
SHEET DESCRIPTION

SITE PLAN

SHEET NUMBER

C-1

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



S-1

S-3

DC / FIBER DEMARCATION BOX						
RAYCAP DC FIBER DEMARCATION BOX			CABLES			NOTES
MOUNTING HEIGHT	MODEL	QTY	MODEL	QTY	LENGTH PER LINE	* (4) EXISTING & (1) PROPOSED #6 DC POWER TRUNKS
268'-0"	DC6-48-60-18-8C	2	ROSENBERGER (18) PAIR FIBER TRUNK	3	324'-0"	
268'-0"	DC9-48-60-24-8C-EV	1	(6) - #8 AWG TINNED COPPER CONDUCTORS	2	324'-0"	
			(6) - #6 AWG TINNED COPPER CONDUCTORS	5*	324'-0"	

ANTENNA AND COAX SCHEDULE														
SECTOR	AZ	ANTENNAS				RRU			DIPLEXER/DIPLEXER/FILTER			TMA		
		RAD CENTER	ANTENNA		(QTY)	APPROXIMATE ANTENNA SPECS	MODEL	TOP (QTY)	GRND (QTY)	MODEL	TWR (QTY)	GRND (QTY)	MODEL	(QTY)
			MAKE	MODEL										
ALPHA (A1)	0°	268'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.97" x W=19.6" x D=7.76"	- RRUS-32 B30 4449 B5/B12 -	- 1 1 -	- - -	- - -	- - -	- - -	- - -	- - -
ALPHA (A2)	0°	268'-0"	ERICSSON	AIR6472 B77G B77M	1	H=36.3" x W=15.8" x D=7.4"	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
ALPHA (A3)	0°	268'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.97" x W=19.6" x D=7.76"	- 8843 B2/B66A 4478 B14 -	- 1 1 -	- - -	- - -	- - -	- - -	- - -	- - -
ALPHA (A4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BETA (B1)	120°	268'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.97" x W=19.6" x D=7.76"	- RRUS-32 B30 4449 B5/B12 -	- 1 1 -	- - -	- - -	- - -	- - -	- - -	- - -
BETA (B2)	120°	268'-0"	ERICSSON	AIR6472 B77G B77M	1	H=36.3" x W=15.8" x D=7.4"	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
BETA (B3)	120°	268'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.97" x W=19.6" x D=7.76"	- 8843 B2/B66A 4478 B14 -	- 1 1 -	- - -	- - -	- - -	- - -	- - -	- - -
BETA (B4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GAMMA (G1)	240°	268'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.97" x W=19.6" x D=7.76"	- RRUS-32 B30 4449 B5/B12 -	- 1 1 -	- - -	- - -	- - -	- - -	- - -	- - -
GAMMA (G2)	240°	268'-0"	ERICSSON	AIR6472 B77G B77M	1	H=36.3" x W=15.8" x D=7.4"	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
GAMMA (G3)	240°	268'-0"	COMMSCOPE	NNH4-85B-R6	1	H=71.97" x W=19.6" x D=7.76"	- 8843 B2/B66A 4478 B14 -	- 1 1 -	- - -	- - -	- - -	- - -	- - -	- - -
GAMMA (G4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				TOTAL	9		TOTAL	12	0	TOTAL	0	0	TOTAL	0

* CONTRACTOR TO VERIFY RF INFO WITH CLIENT PRIOR TO CONSTRUCTION.

* ALL COAX SHALL BE COLOR CODED AT TOP AN BOTTOM JUMPER AND AT TOP OF TOWER

* EACH MAIN COAX SHALL HAVE CORROSION PROOF "ID TAGS" INSTALLED INSIDE THE SHELTER

* ALL QUANTITIES GIVEN ARE TOTAL EXISTING AND PROPOSED

ADDITIONAL CABLES CONSIDERED		
TOTAL 1-5/8" COAX CABLES (INACTIVE)	21	6804'-0"
TOTAL 5/16" RET CABLES	3	972'-0"
TOTAL 5/16" RET JUMPERS	6	90'-0"

NOTE: AT&T MUST REMOVE (3)
INACTIVE 1-5/8" COAX CABLES
AS PART OF THIS PROJECT

1 ANTENNA & COAX SCHEDULE

AN-1 SCALE: N.T.S.

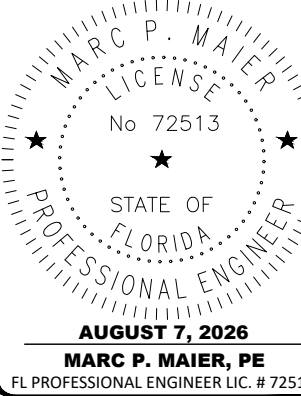
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DRAWN BY:		CHECKED BY:
ME		MM



GEN
ENGINEERING

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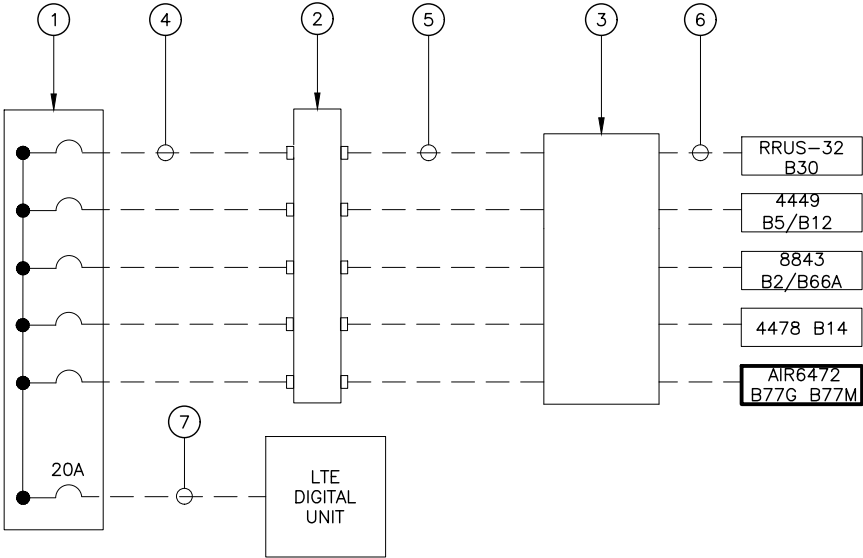


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FA #10091907
4284 N US HIGHWAY 44
LAKE CITY, FL 32055

ANTENNA SCHEDULE

AN-1

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 RRR UNITS.
7. #12 AWG SHIELDED CONDUCTORS (WR-VG122ST-BRDA).

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

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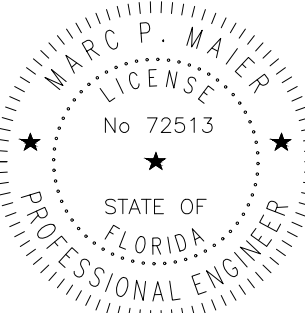


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SHEET DESCRIPTION

ANTENNA ONE—LINE DIAGRAM

SHEET NUMBER

E-1