





SITE NAME: LILLINGTON SITE NUMBER: NC14882-A-01

T - Mobile SITE NUMBER: 5RA0183A DESCRIPTION: 67D04G

SITE NAME:

T - Mobile SBA SBA COMMUNICATIONS CORP. 5900 BROKEN SOUND PKWY NW BOCA RATON, FL 33487 SOUTH LILLINGTON LOCATION: L600 **162 MATTIE RIDGELL LN** 190' RAD CENTER LILLINGTON, NC 27546 SBA: LILLINGTON CTION: HARNETT COUNTY NC14882-A-01 0559-33-7908.000 T-MOBILE: RA-20R SOUTH LILLINGTON GE: 72.60 5RA0183A RVIOUS: 5,470.19 SQ FT. 0 SQFT. SITE TYPE: RVIOUS: ound size: ± 5,470.19 SQFT. 190' FLAGPOLE T-MOBILE L600 REV DATE DESCRIPTION COMPANY: DUKE ENERGY PROGRESS 0 2/22/21 FCD COMPANY: TWC SITE COORDINATES LAT: 35.379786 LONG: -78.820025 DRAWN: INS CHECKED: PWM JOB#: 20ASBTMMNC-0089 **TITLE SHEET &** PROJECT INFORMATION **T-1**

	an nyy na approxia kongina kale kon				
APPLICATION/		SCOPE OF WORK	SITE ADDRESS:	162 MATTIE RIDGELL LN	JURISDICTI
PROPERTY OWNER:	SBA COMMUNICATIONS CORPORATION 8051 CONGRESS AVE. BOCA RATON, FL 33487-2797 TONYA SYKES-McCLURE Tsykes-McClure@sbasite.com 704.527.0003	PROPOSED WORK WILL CONSIST OF PREPARATION AND INSTALLATION OF CELLULAR COMMUNICATION CARRIER EQUIPMENT, WHERE ALL WORK SHALL BE CONTAINED WITHIN COMPOUND & SHALL NOT ADVERSELY IMPACT THE SURROUNDING ADJACENT PARCELS. NO GRADING IS REQUIRED. NO NEW BUILDING BEING CONSTRUCTED, AND NO ELECTRICAL SERVICE WORK BEING DONE. ALL PROPOSED	SBA NUMBER: SBA NAME: TOWER: COMPANY:	ILLINGTON, NC 27546 NC14882-A-01 LILLINGTON FLAGPOLE SBA	IN #: ZONING: ACREAGE: (E) IMPERV (P) IMPERV COMPOUN
ENGINEERING:	P. MARSHALL & ASSOCIATES	CONSTRUCTION WILL BE CONTAINED WITHIN THE LIMITS OF THE EXISTING FENCED TELECOM COMPOUND OR WITHIN PROPOSED	CARRIER: TENANT ID/NAME:	T-MOBILE 5RA0183A	
	3545 WHITEHALL PARK DRIVE SUITE 450 CHARLOTTE, NORTH CAROLINA 28273	UTILITY EASEMENT. WORK WILL INCLUDE, BUT NOT LIMITED TO; ANTENNA SWAP & INSTALL. MOUNT WORK. COAX REMOVAL/	TENANT ID/NAME.	SKAUI83A	UTILITIES:
(E)	TREVOR MCALLISTER tmcallister@pmass.com	INSTALLATION.			POWER CO
(E) (P)	478-542-3291	CODES ALL CONSTRUCTION SPECIFIED ON DOCUMENTS SUBMITTED FOR	SITE LATITUDE(NAD83): SITE LONGITUDE(NAD83)	35.379786 (35°22'47.2")): -78.820025 (-78°49'12.1")	TELCO CO
		BUILDING PERMIT SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING & ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES : • 2018 NORTH CAROLINA BUILDING CODE (2015 IBC) • 2018 NORTH CAROLINA FIRE CODE • 2018 NORTH CAROLINA PLUMBING CODE • 2018 NORTH CAROLINA MECHANICAL CODE	GND ELEVATION (NAVD8 TOWER HEIGHT (AGL.):	88): N/A 190'	
		2018 NORTH CAROLINA ENERGY CONSERVATION CODE	SHEET INDEX		
		 2017 NORTH CAROLINA ELECTRICAL CODE - NFPA 70 ANSI/ TIA TIA-222-G, TIA-598-C, TIA-6087-B, TIA-569-B, TIA-568-C TIA-1019-A 	T-1A APPE	E SHEET ENDIX B	
		SITE DESIGN SUMMARY: •• WIND LOAD DESIGN: 117mph		ENDIX B	
		EXPOSURE CATEGORY: C	-	ENDIX B EPLAN	
		OCCUPANCY: U CONSTRUCTION TYPE: II-A	-	IPMENT PLAN	
		FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.		/ER ELEVATION	
		HANDICAP ACCESS IS NOT REQUIRED.	C-4 ANTE	ENNA ORIENTATION & CABLE SCHEE	DULE
		FACILITY HAS NO SANITARY OR POTABLE WATER THERE IS "NO EMERGENCY RESPONSE EQUIPMENT ON THE	C-5 CAN	ISTER DETAILS	
		TOWER AND EXISTING &/OR PROPOSED EQUIPMENT WILL NOT INTERFERE WITH COUNTY EMERGENCY COMMUNICATIONS AND	C-6 PLUM	MBING DIAGRAM	
	CALL NORTH CAROLINA ONE CALL	THAT, IF SUCH, INTERFERENCE IS FOUND TO EXIST, THEN	E-1 ELEC	CTRICAL DETAILS	
	(800) 632-4949	APPLICANT WILL TAKE WHATEVER STEPS NECESSARY TO CORRECT INTERFERENCE."		EL SCHEDULE & ONE-LINE DIAGRAM	
	CALL 3 WORKING DAYS BEFORE YOU DIG!	FEMA PANEL: THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE	G-1 GRO	UNDING DETAILS	
		CONDITIONS FLOOD HAZARD AREAS, AS SHOWN PER FIRM PANEL: <u>3720054800J</u> . DATED: <u>10/03/2006</u>			

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:	_SOUTH LILLINGTON - 5RAG)183A		
	TTIE RIDGELL LN. LILLINGTON,			Zip Code
	tonya ed Agent: sykes-mcclure) 527 - 8988	•
Owned By:	· · · · · · · · · · · · · · · · · · ·	ty/County	Private HARN	
Code Enforceme		ty		
			 ,	
CONTACT:				
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE # E-MAIL
Architectural				()
Civil	P. MARSHALL &	PATRICK MARSHALL	024136	(
Electrical Fire Alarm	ASSOCIATES			
Plumbing				
Mechanical				
Sprinkler-Standp	ipe			()
Structural				
Retaining Walls	>5' H1gh MARSHALL & ASSOCIATES			() 2 (479) 542 2201
				ered, interior designers, etc.)
(check all that ap	☐ Addit TNG BUILDING CODE ply) CTED: (date)	ion Prescriptive Repair Chapter 14 CURREN	Shell/Core Phased Construct: Alteration Alteration Alteration T OCCUPANCY ED OCCUPANCY	Level I Historic Property Level II Change of Use Level III ((S) (Ch. 3):
OCCUPANCY	CATEGORY (Table 160	4.5): Current:	TILITY Pro	pposed:
BASIC BUILDI Construction Ty	pe: 🛛 I-A	II-A		
(check all that ap	ply) 🗌 I-B	II-B	∐ III-B	V-B
			_	_
Sprinklers:	🛛 No 🗌 Partial	NFPA 13	NFPA 13R	NFPA 13D
Standpipes:	No Class I I	Пп Пп	Wet Dry	
•	No Class I I	Пп Пп		□ NFPA 13D
Standpipes:		II III sFlood H	Wet Dry	
Standpipes: Primary Fire Di	INO Class II Istrict: INO IYes ons Required: INO	II III sFlood H	Wet Dry Iazard Area:	
Standpipes: Primary Fire Di	INO Class II Istrict: INO IYes ons Required: INO	□ II □ III s Flood H □ Yes	Wet Dry Iazard Area:	
Standpipes: Primary Fire Di Special Inspection FLOOR 3 rd Floor	☐ No Class ☐ I strict: ☐ No ☐ Yes ons Required: ☐ No GR	II III s Flood H Yes OSS BUILDING	Wet Dry Iazard Area:	⊠ No □ Yes
Standpipes: Primary Fire Di Special Inspection FLOOR 3 rd Floor 2 nd Floor	☐ No Class ☐ I strict: ☐ No ☐ Yes ons Required: ☐ No GR	II III s Flood H Yes OSS BUILDING	Wet Dry Iazard Area:	⊠ No □ Yes
Standpipes: Primary Fire Di Special Inspection FLOOR 3 rd Floor 2 nd Floor Mezzanine	☐ No Class ☐ I strict: ☐ No ☐ Yes ons Required: ☐ No GR	II III s Flood H Yes OSS BUILDING	Wet Dry Iazard Area:	⊠ No □ Yes
Standpipes: Primary Fire Di Special Inspection FLOOR 3 rd Floor 2 nd Floor	☐ No Class ☐ I strict: ☐ No ☐ Yes ons Required: ☐ No GR	II III s Flood H Yes OSS BUILDING	Wet Dry Iazard Area:	⊠ No □ Yes

TOTAL

		ALLO	OWABLE ARE	EA	
Primary Occup	ancy Classificati	ion(s):			
Assembly	🗌 A-1	A-2		-3 🗌 A-	-4
Business					
Educational					
Factory	🗌 F-1 Mod	erate 🗌 F-2 Lo	W		
Hazardous	H-1 Deta	onate 🛛 🗌 H-2 De	flagrate 🗌 H	I-3 Combust 🛛 🗌 H-	-4 Health
Institutional	🗌 I-1	🗌 I-2	🗌 I-	-3 🗌 I-4	4
I-1 C	ondition 🗌 1	2			
I-2 C	ondition 🔲 1	2			
I-3 C	ondition 🗌 1				
Mercantile					
Residential	🗌 R-1	🗌 R-2	🗌 R		
Storage	🗌 S-1 Moo	lerate	S-2 Low	🗌 Hi	igh-piled
	Parking 0	Garage 🗌 Open	Enclosed	🗌 Re	epair Garage
	Miscellaneous	\boxtimes			
Accessory Occu		tion(s):			
Incidental Uses	,				
This sepa	aration is not exe	mpt as a Non-Sepa	rate ¹	`s).	
Special Uses (C	hapter 4 – List C	Code Sections):	xr		
Special Provisio		- List Code	\bigcap		
-		Con Coul	\bigcirc . C	1	
Mixed Occupan	cy: <u>Select one</u>	Ser N	· LIC	/	
Select one					
Actua	al Area of Oc	11 11	J <u>sf</u>	Decupancy B < 1	1
Allował	ble Area ι	$\mathcal{N} = \mathcal{N}$	Area of	$Occupancy B \leq 1$	
		QU.	Trates ¹ A OT A OT A C Area of		
		\mathbf{V} -		+	· =
CTODY T			(p)		(D)
	DESCRIPTION AND	(A)	(B) TABLE 506.2 ⁴	(C)	
NO.	USE	JLDG AREA PER		AREA FOR FRONTAGE	ALLOWABLE
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNI
		ction 506.2 are con			
			n space having 2	20 feet minimum wid	lth =
	uilding Perimeter		(P)		
	F/P) =				
		public way =			
		conditions of Sect			
				x D (maximum3 stori	
			comply with Tal	ble 406.5.4. The max	timum area of
control towers	must comply wit	th Table 412.3.1.			

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

🗌 A-5	
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🗌 H-5 HPM

 ≤ 1.00

(D) VABLE AREA PER OR UNLIMITED^{2,3}

____(F)

6.2). rea of air traffic

T - Mobile

SBA

SBA COMMUNICATIONS CORP. 5900 BROKEN SOUND PKWY NW BOCA RATON, FL 33487



LOCATION:

162 MATTIE RIDGELL LN LILLINGTON, NC 27546 SBA:

LILLINGTON NC14882-A-01

T-MOBILE:

SOUTH LILLINGTON 5RA0183A

SITE TYPE:

190' FLAGPOLE T-MOBILE L600

REV	DATE	DESCRIPTION
0	2/22/21	FCD

SITE COORDINATES LAT: 35.379786 LONG: -78.820025

DRAWN: INS CHECKED: PWM JOB#: 20ASBTMMNC-0089

APPENDIX B

T-1A

ALLOWABLE HEIGHT

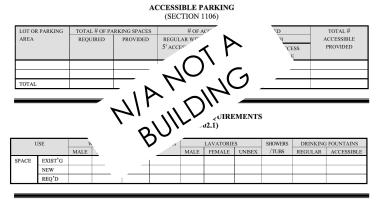
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.4)			
¹ Provide code reference if the "Shown on Plans" qua	untity is not based on Table 504.3	3 or 504.4.	

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders,							
trusses							
Bearing Walls							
Exterior							
North				-	_		
East							
West			⊢ ⋌	r			
South			$+$ \frown	\ '			
Interior Nonbearing Walls and		<u> </u>	NOT	С.	1		
Partitions					/		
Exterior walls		こり	· - \	h_{-}			
North	- \	11	\sim	// -/	l		
East	\sim	1	$\mathcal{N}\mathcal{V}$				
West	\	\	\\\ ' .	1			
South		2	J`				
Interior walls and partitions		V.					
Floor Construction		•	1				
Including supporting beams							
and joists		1					
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 Separatio	n						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation	itting reductio						

ACCESSIBLE DWELLING UNITS (SECTION 1107)

Total Units	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A Units Required	TYPE A Units Provided	TYPE B Units Required	TYPE B Units Provided	TOTAL ACCESSIBLE UNITS PROVIDED



SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

	PERCENTAGE OF W	ALL OPENING CALCUL	ATIONS
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	Allowable area (%)	ACTUAL SH

LIFE SAFETY SYSTEM REQUIREMENTS

	LIFE SAFETT STSTEM REQUIREMENTS	
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Carbon Monoxide Detection:	Yes □ No Yes □ No	
Life Safety Plan Sheet #:	LIFE SAFETY PLAN REQUIRE ^{M®}	
Assumed and real property Exterior wall opening area Occupancy Use for each ar Occupant loads for each ar Exit access travel distance	with respect to rea as it re ¹	.1.2)

- 414 Common path of trav Dead end lengths (B Clear exit widths for Maximum calculated oc sait door can accommodate based on egress width (1005.3)
- Actual occupant load for c A separate schematic plan in re fire rated floor/ceiling and/or roof structure is provided for
- purposes of occupancy separa.
- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.9.9)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- The square footage of each fire area (202)
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- Note any code exceptions or table notes that may have been utilized regarding the items above

ENERGY SUMMARY

ENERGY REQUIREMENTS: The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the

Existing building envelope complies with code: Select one

Exempt Building: Select one Provide code or statutory reference:

Climate Zone: Select one

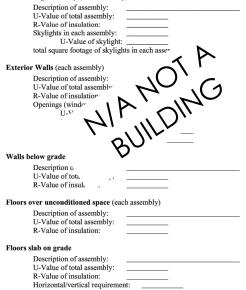
proposed design.

Method of Compliance: <u>Select one</u> (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

slab heated:

Roof/ceiling Assembly (each assembly)



SHOWN ON PLANS (%)	

T Mobile

SRA

SBA COMMUNICATIONS CORP. 5900 BROKEN SOUND PKWY NW BOCA RATON, FL 33487



LOCATION:

162 MATTIE RIDGELL LN LILLINGTON, NC 27546 SBA:

LILLINGTON NC14882-A-01

T-MOBILE:

SOUTH LILLINGTON 5RA0183A

SITE TYPE:

190' FLAGPOLE T-MOBILE L600

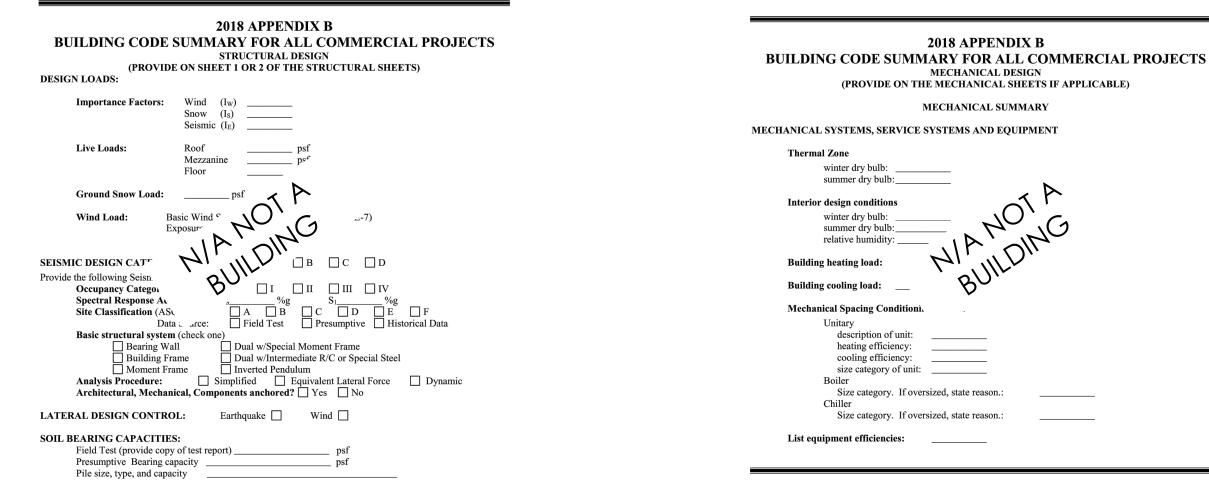
REV	DATE	DESCRIPTION
	DATE	BEGGIAI HOI
0	2/22/21	FCD

SITE COORDINATES LAT: 35.379786 LONG: -78.820025

DRAWN: INS CHECKED: PWM JOB#: 20ASBTMMNC-0089

APPENDIX B

T-1B



2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one

Lighting schedule (each fixture type)

lamp type required in fixture number of lamps in fixture ballast type used in the fixtynumber of ballasts in f total wattage per fitotal interior wattage total exterior wattage

.e building or space by space)

Additional Prescriptive Complia.

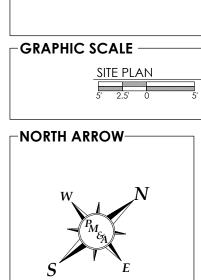
- 506.2.1 More Efficient N ... chanical Equipment
- 506.2.2 Reduced Lighting Power Density
- 506.2.3 Energy Recovery Ventilation Systems
- 506.2.4 Higher Efficiency Service Water Heating 506.2.5 On-Site Supply of Renewable Energy
- 506.2.6 Automatic Daylighting Control Systems

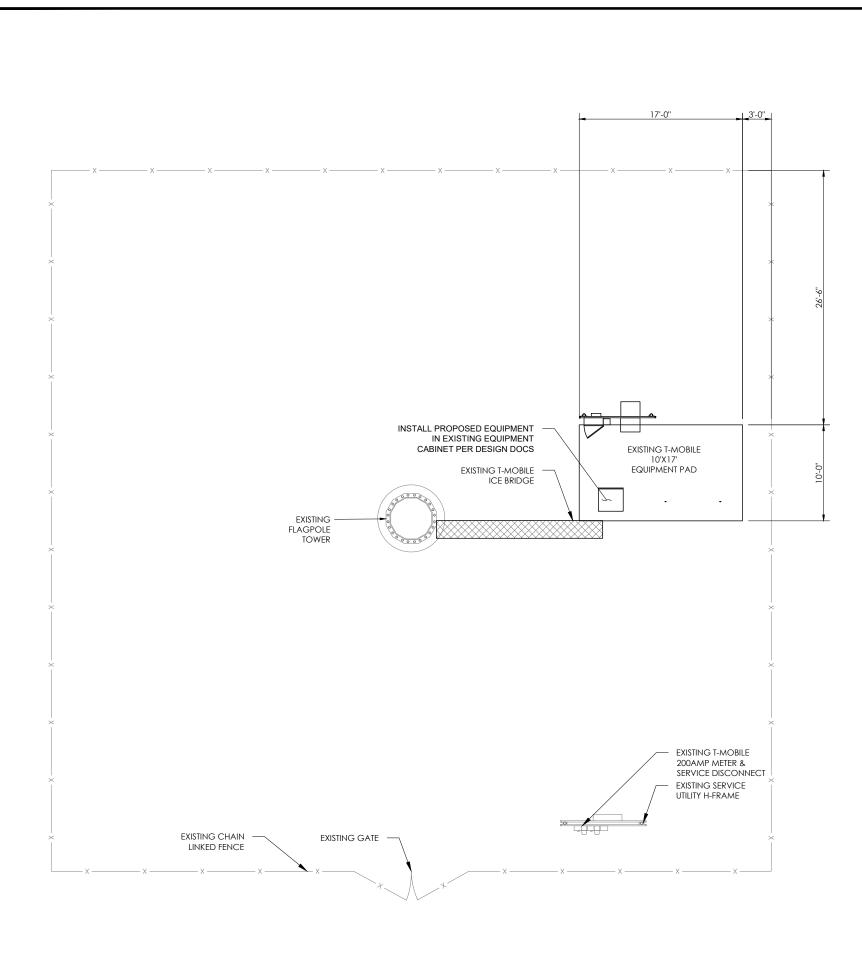
T - Mobile-SRY SBA COMMUNICATIONS CORP. 5900 BROKEN SOUND PKWY NW BOCA RATON, FL 33487 LOCATION: **162 MATTIE RIDGELL LN** LILLINGTON, NC 27546 SBA LILLINGTON NC14882-A-01 T-MOBILE: SOUTH LILLINGTON 5RA0183A SITE TYPE: 190' FLAGPOLE T-MOBILE L600 REV DATE DESCRIPTION 0 2/22/21 FCD SITE COORDINATES LAT: 35.379786 LONG: -78.820025 DRAWN: INS CHECKED: PWM JOB#: 20ASBTMMNC-0089 **APPENDIX B**

T-1C

-GENERAL NOTES

- CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND OF QUALITY OF MATERIAL AND EQUIPMENT BEING SUBSTITUTED.
- ACCESS TO PROPOSED WORK SITE MAY BE RESTRICTED. THE 2. WITH THE LEASING AGENT FOR APPROVAL.
- 3. CONTRACTOR SHALL HAVE PRESENT ON SITE CURRENT CARRIER RFDS, DESIGN DOCUMENTS SPECIFIC TO SITE AND DISCREPANCY PRIOR TO ARRIVAL AT SITE.
- 4. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTION SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- 5. ALL DAMAGE TO EXISTING UNDERGROUND, OVERHEAD OBSTACLES AND/OR EXISTING EQUIPMENT, PAD OR SHELTERS SHALL BE REPLACED BACK TO FULL ORIGINAL OR BETTER AT GENERAL CONTRACTOR EXPENSE.
- THE EXISTING TREES AND VEGETATION ARE SUFFICIENT TO 6. THE VEGETATION IS REMOVED OR DAMAGED, NEW ORDINANCE REQUIREMENTS.





1. ALL MATERIAL AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY. FREE FROM FAULTS AND DEFECTS AND IN SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED

CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS

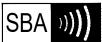
SUPPLIED INFORMATION PRIOR TO COMMENCE OF WORK; IE. CONFIGURATION. NOTIFY CONSTRUCTION MANAGER OF ANY

CONDITION & SHALL MATCH EXISTING CONDITIONS BY REPAIRS

PROVIDE THE REQUIRED SCREENING PER LOCAL ORDINANCE. IF LANDSCAPING/ SCREENING WILL BE INSTALLED TO MEET LOCAL

1"=5'-0" (FULL SIZE) 1"=10'-0" (11x17)

T - Mobile-



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LOCATION:

162 MATTIE RIDGELL LN LILLINGTON, NC 27546 SBA

> LILLINGTON NC14882-A-01

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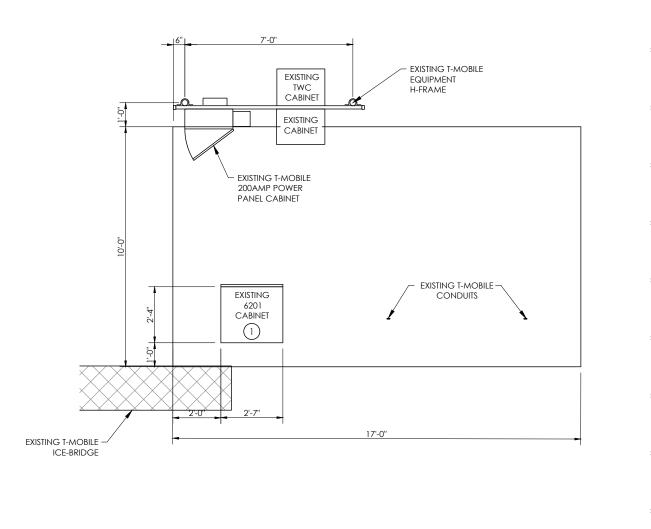
SITE TYPE:

190' FLAGPOLE T-MOBILE L600

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	REV	DATE	DESCRIPTION
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	S	TE COOF	DINATES
		AT: 35.3	
	LC	DNG: -78.	820025
	DRAV	VN: INS	
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	JOB#	: 20A	SBTMMNC-0089
AROLINA SIONALIA			
CARO			
SION			
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GENERAL NOTES

CABINET. SEE RFDS AND DESIGN DOCUMENTS FOR CONFIGURATIONS.



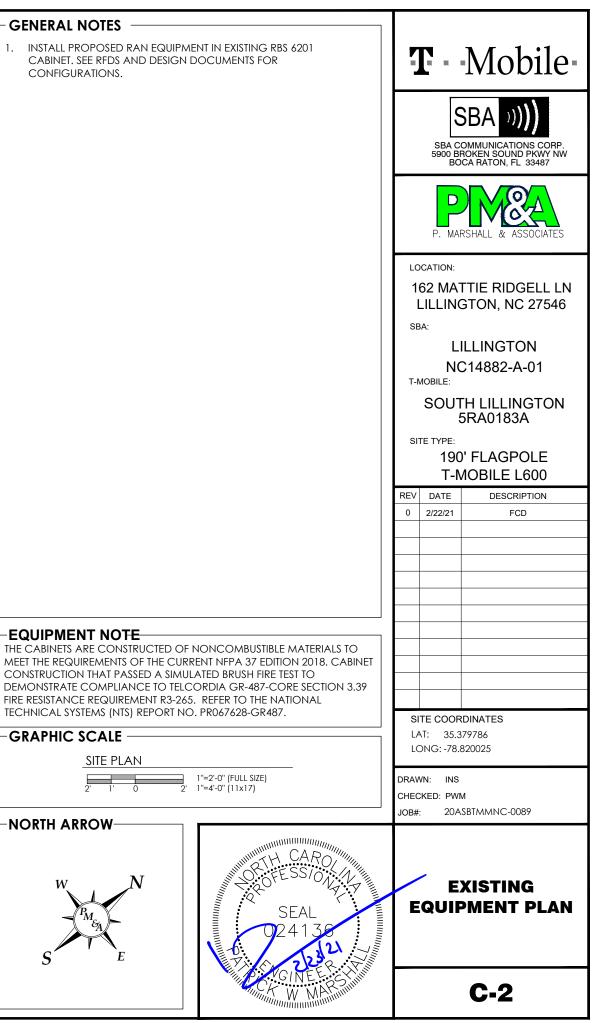
EXISTING EQUIPMENT PLAN (1) SCALE: SEE GRAPHIC SCALE

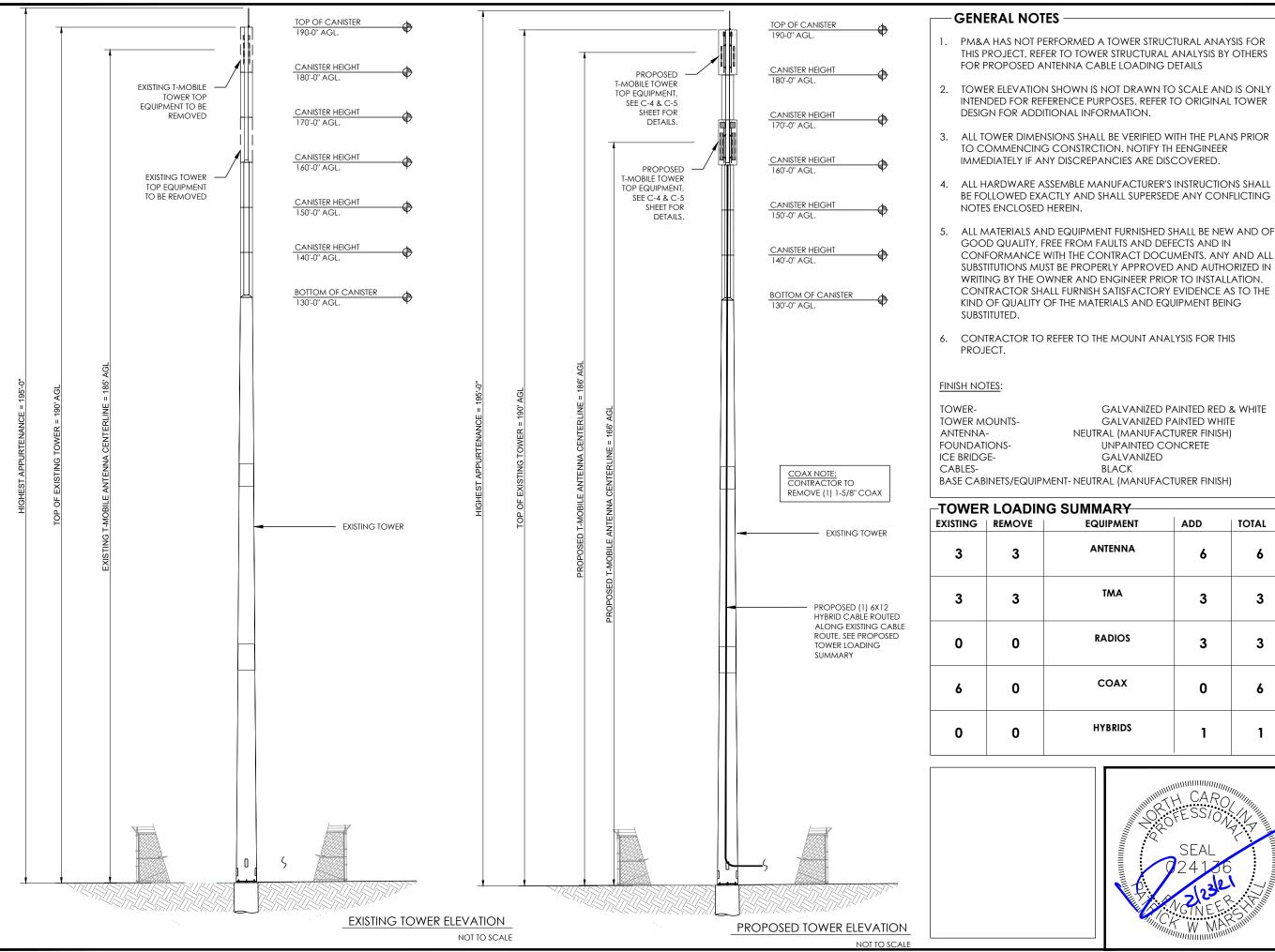
SITE PLAN

-EQUIPMENT NOTE-

-GRAPHIC SCALE







SRA LOCATION: CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN SBA: T-MOBILE: GALVANIZED PAINTED RED & WHITE SITE TYPE: GALVANIZED PAINTED WHITE

T - Mobile-

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SOUTH LILLINGTON 5RA0183A

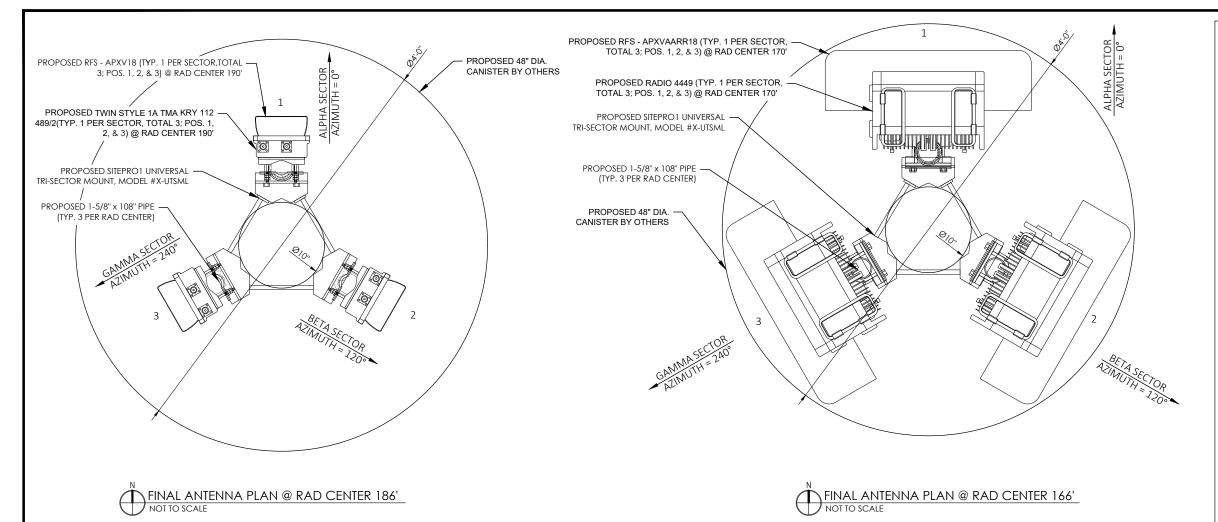
190' FLAGPOLE T-MOBILE L600

REV	DATE	DESCRIPTION
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DRAWN: INS CHECKED: PWM JOB#: 20ASBTMMNC-0089		
т	OWE	R ELEVATION

C-3

NEUTRAL (MANUFACTURER FINISH) UNPAINTED CONCRETE GALVANIZED BLACK

EQUIPMENT	ADD	TOTAL
ANTENNA	6	6
TMA	3	3
RADIOS	3	3
COAX	0	6
HYBRIDS	1	1



-PROPOSED	ΔΝΤΕΝΝΔ	SCHEDIII E	_

-PROPOS SECTOR	MARK	AZIMUTH	ANTENNA MODEL	RADIO MODEL	TMA MODEL	CABLE DESCRIPTION	
ALPHA	1	0	RFS - APXV18-206516S-C-A20 (DUAL) (P)	-	TWIN STYLE 1A - KRY 112 489/2 (P)	(2) 1 - 5/8 COAX CABLE (213') (E)	CONTRACTOR TO ROTATE THE
ALPHA	1	0	RFS - APXVAARR18_43-U-NA20 (OCTO) (P)	(1) RADIO 4449 B71+B12 (P)	-	(1) ERICSSON 6x12 HCS 4AWG 70M (230') (P)	ANTENNAS AND C MOUNTS TO OBTA NEW AZIMUTHS.
-	-	-	-	-	-	-	REFER TO FINAL RF
-	-	-	-	-	-	-	CONFIRM NEW AZIMUTHS
BETA	2	120	RFS - APXV18-206516S-C-A20 (DUAL) (P)	-	TWIN STYLE 1A - KRY 112 489/2 (P)	(2) 1 - 5/8 COAX CABLE (213') (E)	(E)- EXISTING
BETA	2	120	RFS - APXVAARR18_43-U-NA20 (OCTO) (P)	(1) RADIO 4449 B71+B12 (P)	-	-	(P) - PROPOSED
-	-	-	-	-	-	-	GC TO PROVIDE F CONSTRUCTION DOCUMENTATION
-	-	-	-	-	-	-	ALL ANTENNA AZIMUTHS AND
GAMMA	3	240	RFS - APXV18-206516S-C-A20 (DUAL) (P)	-	TWIN STYLE 1A - KRY 112 489/2 (P)	(2) 1 - 5/8 COAX CABLE (213') (E)	COLOR CODING CABLES.
GAMMA	3	240	RFS - APXVAARR18_43-U-NA20 (OCTO) (P)	(1) RADIO 4449 B71+B12 (P)	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	_	

EQUIPMENT NOTES

- THE HYBRID CABLE LENGTH SHOWN IS ONLY AN ESTIMATE AND SHOULD NOT BE USED FOR ORDERING MATERIALS. CONFIRM THE REQUIRED HYBRID CABLE LENGTH WITH T-MOBILE PRIOR TO ORDERING OR INSTALLATION.
- THE CONTRACTOR SHALL TEST THE OPTICAL FIBER AFTER INSTALLATION IN ACCORDANCE WITH T-MOBILE STANDARDS AND SUPPLY THE RESULTS TO T-MOBILE.
- THE CONTRACTOR SHALL CONFIRM THE TOWER TOP EQUIPMENT LIST ABOVE WITH THE FINAL T-MOBILE RFDS PRIOR TO INSTALLATION.
- ALL PROPOSED ANTENNA CABLES SHALL BE COLOR CODED PER T-MOBILE MARKET STANDARDS.
- REFER TO ERICSSON EQUIPMENT INSTALLATION STANDARDS FOR ADDITIONAL INFORMATION.
- REFER TO EQUIPMENT MANUFACTURER'S SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION NOT LISTED ABOVE.
- CONTRACTOR TO FIELD COORDINATE EXACT LOCATION OF PROPOSED EQUIPMENT WITH EXISTING CONDITIONS ON SITE.
- 8. PROPOSED EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE FASTENERS SHALL BE HIGH STRENGTH (A325, A36)
- 9. DRILLING OF EXISTING STEEL MEMBERS IS NOT PERMITTED.
- 10.BOND PROPOSED EQUIPMENT TO EXISTING SECTOR GROUND BAR PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ADDITIONAL SECTOR GROUND BARS AS REQUIRED.
- 11. ALL ANTENNAS, CABLES, AND MOUNTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ENGINEER'S RECOMMENDATIONS IN A MANNER CONSISTENT WITH THE STRUCTURAL ANALYSIS
- REPORT. 12. CONTRACTOR TO CONTACT T-MOBILE FOR UP-TO-DATE RF DESIGN DATA. NOTIFY ENGINEER IF CONFLICT EXISTS.



T - Mobile-

SBA

SBA COMMUNICATIONS CORP. 5900 BROKEN SOUND PKWY NW BOCA RATON, FL 33487



LOCATION:

162 MATTIE RIDGELL LN LILLINGTON, NC 27546

SBA:

LILLINGTON NC14882-A-01

T-MOBILE:

SOUTH LILLINGTON 5RA0183A

SITE TYPE:

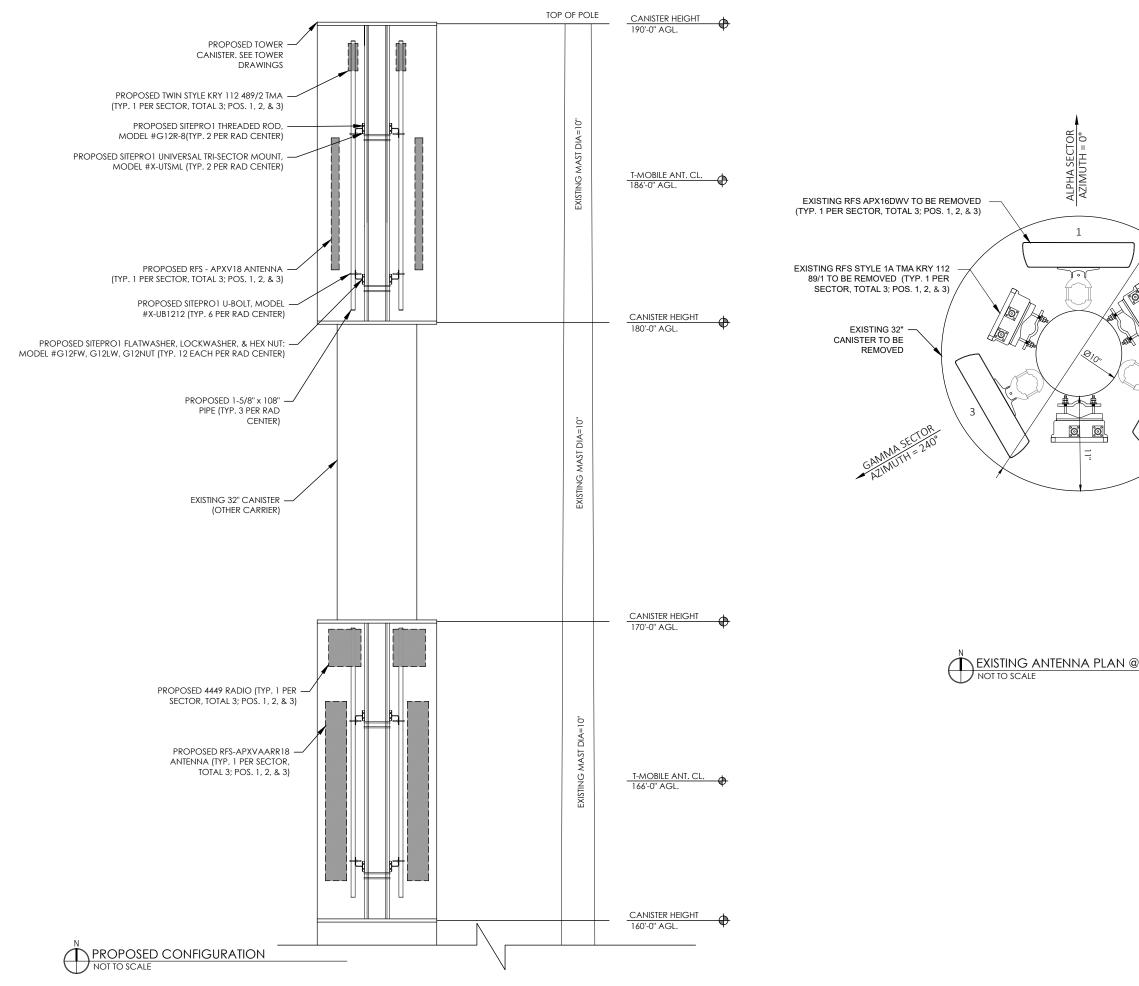
190' FLAGPOLE T-MOBILE L600

REV	DATE	DESCRIPTION		
0	2/22/21	FCD		
SI	SITE COORDINATES			
LA	LAT: 35.379786			
LC	LONG: -78.820025			

DRAWN:	INS
CHECKED:	PWM
JOB#:	20ASBTMMNC-0089

ANTENNA ORIENTATION & CABLE SCHEDULE

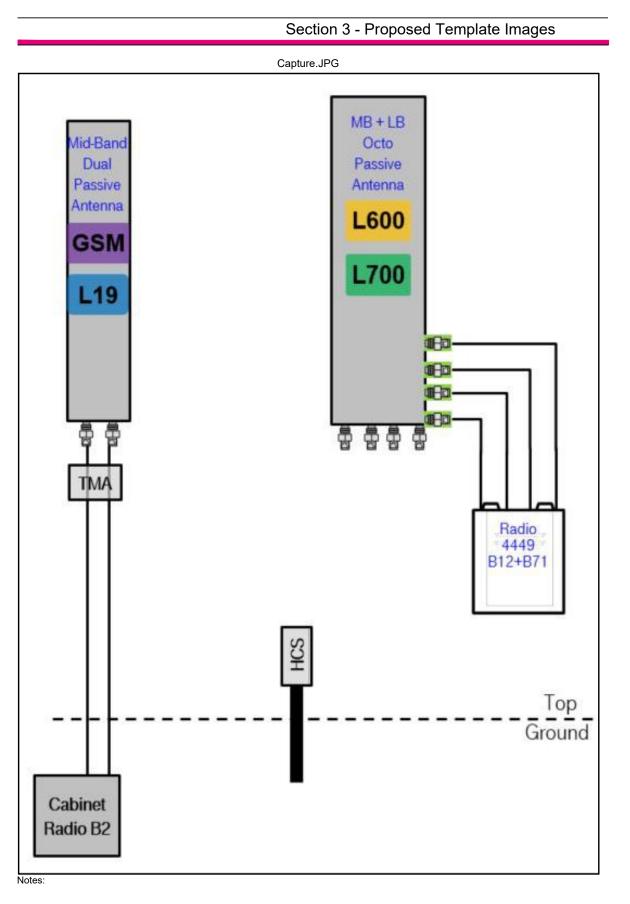
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		P. MAF	RSHALL & ASSOCIATES	
		LOCATION: 162 MATTIE RIDGELL LN LILLINGTON, NC 27546 SBA:		
		LILLINGTON NC14882-A-01 T-MOBILE:		
	91	Ę	TH LILLINGTON 5RA0183A	
2 AZMMUTHY = 1200		SITE TYPE: 190' FLAGPOLE T-MOBILE L600		
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@ RAD CENTER 186'				
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3/26/2019

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SBA COMMUNICATIONS CORP. 5900 BROKEN SOUND PKWY NW BOCA RATON, FL 33487		
P. MARSHALL & ASSOCIATES		
LOCATION: 162 MATTIE RIDGELL LN LILLINGTON, NC 27546		
SBA:		
LILLINGTON NC14882-A-01		
NC14882-A-01 T-MOBILE:		
SOUTH LILLINGTON 5RA0183A		
SITE TYPE: 190' FLAGPOLE T-MOBILE L600		
REV DATE DESCRIPTION		
0 2/22/21 FCD		
SITE COORDINATES		
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LAT: 35.379786 LONG: -78.820025 DRAWN: INS CHECKED: PWM		
LAT: 35.379786 LONG: -78.820025 DRAWN: INS CHECKED: PWM JOB#: 20ASBTMMNC-0089 PLUMBING		
LAT: 35.379786 LONG: -78.820025 DRAWN: INS CHECKED: PWM JOB#: 20ASBTMMNC-0089 PLUMBING		

EQUIPMENT NOTES

DEMO NOTES:

- 1. REWORK ALL TERMINATION, ELECTRICAL CONNECTORS, CONDUCTORS, CONDUITS, ETC. TO FACILITATE NEW WORK.
- 2. VERIFY LOCATION IN THE FIELD OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING. COORDINATE WITH PUBLIC UTILITIES AS NECESSARY TO COMPLETE REQUIRED WORK AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR / REPLACEMENT OF ALL DAMAGED UTILITIES AT THE EXPENSE OF THE CONTRACTOR.
- 3. DEMOLITION IS INCLUDED TO GIVE A COMMON BASIS FOR QUOTATIONS AND MAY NOT SHOW EVERY ITEM TO BE DEMOLISHED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF WORK, COORDINATION, DEMOLITION, TEMPORARY FACILITIES, UTILITIES, ETC. NECESSARY TO COMPLETE THE PROJECT AS INDICATED ON THE CONTRACT DOCUMENTS.
- 4. PROTECT NETWORK EQUIPMENT, RECTIFIERS, FIBER CABLE, RACEWAYS, UTILITIES, BUILDING SYSTEMS, ETC. FROM DAMAGE.
- 5. EQUIPMENT DESIGNATED TO BE RELOCATED SHALL BE CLEANED, STORED AND PROTECTED FROM DAMAGE UNTIL REINSTALLED. REPLACE ALL EQUIPMENT DAMAGED DURING RELOCATING.
- 6. PROVIDE TEMPORARY POWER TO ALL ESSENTIAL SYSTEMS AS REQUIRED TO FACILITATE DEMOLITION. PROVIDE TEMPORARY COOLING UNITS AS REQUIRED.
- 7. MAINTAIN CIRCUIT CONTINUITY TO EXISTING CIRCUITS AND EQUIPMENT TO REMAIN OR TO BE RELOCATED.
- 8. WHERE ALLOWED BY CODE IT IS PERMISSIBLE TO REUSE EXISTING CONDUIT. PROVIDE NEW CONDUIT AND CONDUCTORS FOR NEW CIRCUITS AND THE EXTENSION OF EXISTING CIRCUITS.
- 9. PROVIDE EQUIPMENT PROTECTION ABOVE ALL NETWORK EQUIPMENT (INCLUDING BUT NOT LIMITED TO CABLING, BUS, CABLE TRAY, EQUIPMENT BAYS, RECTIFIERS, BATTERIES, INVERTERS, DISTRIBUTION PANELS, ETC.) WHEN WORKING ABOVE ALL EQUIPMENT. ALL PROTECTION SHALL BE COORDINATED WITH THE SWITCH MANAGER TO ENSURE THAT THE PROTECTION WILL NOT BLOCK ACCESS TO EQUIPMENT OR CAUSE OVERHEATING. PROVIDE TEMPORARY COOLING AS REQUIRED.
- 10. PROVIDE APPROPRIATE SEALING AND PATCHING OF ANY BUILDING PENETRATIONS AFTER REMOVAL OF ELECTRICAL DEVICES, EQUIPMENT, ETC. MATCH EXISTING WALLS. SEE ARCHITECTURE.

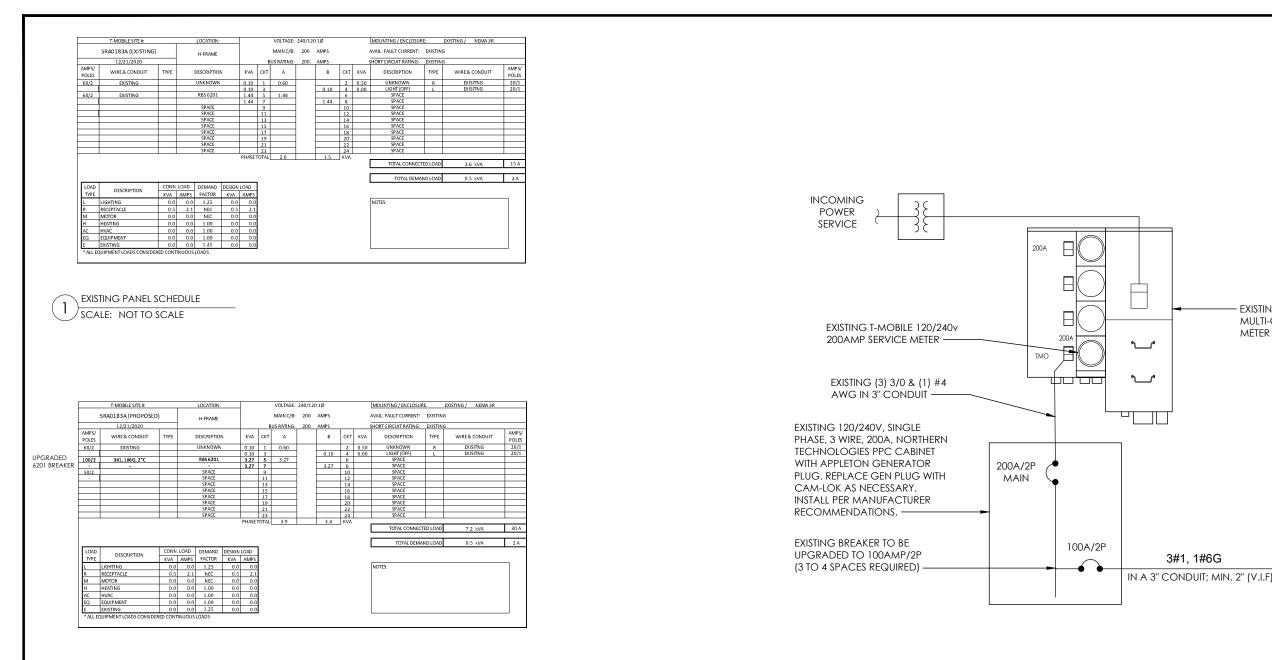
GENERAL NOTES:

- 1. IT IS CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE & DETERMINE THE EXACT EXTENT OF WORK, COORDINATION, DEMOLITION, TEMPORARY FACILITIES, UTILITIES, ETC. NECESSARY TO COMPLETE THE PROJECT AS INDICATED ON THE CONTRACT DOCUMENTS.
- 2. VERIFY LOCATION IN THE FIELD OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING. COORDINATE WITH PUBLIC UTILITIES AS NECESSARY TO COMPLETE REQUIRED WORK AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF ALL DAMAGED UTILITIES AT THE EXPENSE OF THE CONTRACTOR.
- 3. PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER & BC.
- 4. PROVIDE 2-HOLE LUGS CAPABLE OF ACCEPTING MULTIPLE CRIMPS FOR ALL POWER & GROUNDING CONNECTIONS TO A BUS OR WHERE FEASIBLE. USE MANUFACTURER'S COMPRESSION TOOL WITH PROPER DIE FOR EACH CONNECTOR. MANUFACTURER'S EMBOSSED CODING SYSTEM IS REQUIRED. A UNIVERSAL OR DIE-LESS TYPE CRIMPING TOOL SHALL NOT BE USED. PROVIDE LUGS WITH INSPECTOR HOLE FOR ALL INTERIOR INSTALLATIONS. PROVIDE CLOSED LUGS (NO INSPECTION HOLE) FOR EXTERIOR OR UNDERGROUND CONNECTIONS.
- 5. FEEDER CIRCUITS, GROUND LEADS, & DEDICATED EQUIPMENT CIRCUITS SHALL NOT BE SPLICED.
- 6. VERIFY LASHING REQUIREMENTS FOR SERVICE ENTRANCE & MAIN DISTRIBUTION EQUIPMENT WITH MANUFACTURER. INSTALL LASHING PER MANUFACTURER'S REQUIREMENTS.

COMPRESSION LUG NOTES:

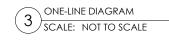
REFER TO SPECIFICATION SECTION 260519 & NSTD516 REGARDING REQUIREMENTS FOR A SAMPLE COMPRESSION LUG SUBMITTAL ON ALL PROJECTS. FAILURE TO PROVIDE CORRECT LUGS & SUBMIT A SAMPLE COMPRESSION LUG TO T-MOBILE PRIOR TO INSTALLATION OF ANY LUGS MAY RESULT IN REJECTION OF THE INSTALLATION & REPLACEMENT OF ALL LUGS & ASSOCIATED CABLE, WHERE REQUIRED, AT NO COST TO T-MOBILE.

	T - Mobile-
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	P. MARSHALL & ASSOCIATES
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PROPOSED PANEL SCHEDULE

2 SCALE: NOT TO SCALE



- GENERAL ELECTRICAL NOTES

- 1. NO SITE SPECIFIC LOAD STUDY WAS ACQUIRED. DEMAND LOADING KVA SHOWN AS ASSUMPTIONS PER MANUFACTURER SPECIFICATION DOCUMENTS & INDUSTRY STANDARD. WHEN OVERAGES ARE VERIFIED ON SITE, ALL DISCREPANCY SHALL BE BROUGHT TO THE ENGINEER OF RECORD PRIOR TO COMMENCING WORK.
- 2. ELECTRICAL SERVICE SHALL BE 200A, 240/120v, 1 P, 3W
- 3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDER PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.
- 4. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND CALCULATE SHORT CIRCUIT FAULT CURRENT AND ARC FLASH AND PROVIDE LABELS ON ELECTRICAL EQUIPMENT PER THE N.E.C. AND LOCAL JURISDICTION. CONTRACTOR SHALL PROVIDE EQUIPMENT RATED FOR FAULT CURRENT.
- 5. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS. THE MAXIMUM 12-MONTH DEMAND LOAD WAS NOT AVAILABLE AT TIME OF PRINTING. CONTRACTOR SHALL COORDINATE WITH POWER CO., OBTAIN MAXIMUM DEMAND LOAD, MULTIPLY VALUE BY 1.25, ADD ALL NEW LOADS & VERIFY NEW MAXIMUM DEMAND LOAD DOES NOT OVERLOAD ANY PORTION OF THE EXISTING ELECTRICAL SYSTEM. CONTACT EOR IF OVERLOAD IS POSSIBLE BEFORE START OF WORK.
- 6. ONE-LINE DIAGRAM IS SCHEMATIC ONLY AND NOT INDICATIVE OF ACTUAL EQUIPMENT LAYOUT. CONTRACTOR IS RESPONSIBLE FOR LOADING ON ALL PANELS AND FEEDERS PER THE N.E.C. CONTRACTOR SHALL ENSURE CONTINUITY OF EXISTING CIRCUITS TO REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL EXISTING AND PROPOSED LOADS PLACED ON EXISTING PANELS DO NOT EXCEED THE MAXIMUM LOADING REQUIRED PER THE LATEST EDITION OF THE N.E.C. NOTIFY EOR IF OVERLOAD IS POSSIBLE
- 7. 6160 ENCLOSURE STANDARD CONFIGURATION INCLUDES (4) 3500W RECTIFIERS. LOAD PROVIDED IN PANEL SCHEDULE IS BASED ON THIS CONFIGURATION. IF ADDITIONAL RECTIFIERS ARE REQUIRED, ENGINEER OF RECORD SHALL BE CONTACTED TO DETERMINE ADEQUACY OF EXISTING PANEL FOR ADDITIONAL LOAD
- 8. CONTRACTOR SHALL FIELD VERIFY EXISTING AC PANEL MODEL AND ENSURE 125A, 2P,2-POSITION BREAKER IS COMPATIBLE, CONTACT EOR IF DISCREPANCIES ARE FOUND.
- 9. CONTRACTOR TO FIELD VERIFY ALL EQUIPMENT RATINGS AND WIRE SIZES. IF ANY DISCREPANCIES EXIST, CONTACT ENGINEER PRIOR TO ROUGH IN.

