LOCATION MAP 35,39671*N 78.66825*W



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

T--Mobile

COATS SITE NAME:

SITE NUMBER: 5RA0169A

1275 NC HWY-55

COATS, NC 27521

NC02083-B

MONOPOLE

T-MOBILE

5RA0169A

35.396714 (35° 23' 48.2")

-78.668261 (-78° 40′ 05.7″)

TITLE SHEET & PROJECT INFORMATION

ANTENNA ORIENTATION AND CABLE SCHEDULE

PANEL SCHEDULE & ONE-LINE DIAGRAM

APPENDIX B

EQUIPMENT PLAN

TOWER ELEVATION

PLUMBING DIAGRAM

EQUIPMENT SPECS

ELECTRICAL DETAILS

GROUNDING DETAILS

SITE PLAN

COATS

SBA

SITE NAME:

-SITE SUMMARY -

SITE ADDRESS:

SBA NUMBER:

SBA NAME:

COMPANY:

TENANT ID/NAME:

SITE LATITUDE(NAD83):

TOWER HEIGHT (AGL.)

-SHEET INDEX

T-1A - T1C

C-1

C-2

C-3

C-4

C-5

F-1

E-2

E-3

SITE LONGITUDE(NAD83):

GND ELEVATION (NAVD88): N/A

CARRIER:

TOWER:

SITE NUMBER: NC02083-B

COATS

DESCRIPTION: 67D5A998C ODE+6160

ANCHOR

195' RAD CENTER



JURISDICTION:

PIN #:

ZONING:

UTILITIES:

ACREAGE:

(E) IMPERVIOUS:

(P) IMPERVIOUS:

COMPOUND SIZE:

POWER COMPANY:

TELCO COMPANY:

HARNETT COUNTY

0599-98-5894.000

I/R-AG

92.17

0 SQFT.

6,000 ± SQFT.

UNKNOWN

UNKNOWN

NA

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

T - Mobile-

LOCATION:

1275 NC HWY-55

NC02083-B

COATS

T-MOBILE:

5RA0169A **COATS**

SITE TYPE:

225' MONOPOLE

REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.396714

CHECKED: PWM

COATS, NC 27521

REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

LONG: -78.668261

DRAWN: INS

20ASBTMMNC-0072

T-1

TITLE SHEET & **PROJECT INFORMATION**

-PROJECT DIRECTORY

APPLICATION/ PROPERTY OWNER:

SBA COMMUNICATIONS CORPORATION 8051 CONGRESS AVE. BOCA RATON, FL 33487-2797 TONYA SYKES-McCLURE Tsykes-McClure@sbasite.com 704.527.0003

ENGINEERING:

P. MARSHALL & ASSOCIATES 3545 WHITEHALL PARK DRIVE SUITE 450 CHARLOTTE, NORTH CAROLINA 28273 TREVOR MCALLISTER tmcallister@pmass.com 478.542.3291

-PROJECT SUMMARY -

SCOPE OF WORK

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 WORK BEING DONE. ALL PROPOSED CONSTRUCTION WILL BE CONTAINED WITHIN THE LIMITS OF THE EXISTING FENCED TELECOM COMPOUND OR WITHIN PROPOSED UTILITY EASEMENT. WORK WILL INCLUDE, BUT NOT LIMITED TO; ANTENNA SWAP & INSTALL, MOUNT WORK, COAX REMOVAL/ INSTALLATION.

CODES

ALL CONSTRUCTION SPECIFIED ON DOCUMENTS SUBMITTED FOR 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
- 2018 NORTH CAROLINA ENERGY CONSERVATION CODE 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

SITE DESIGN SUMMARY:

WIND LOAD DESIGN: 115__mph **EXPOSURE CATEGORY:** OCCUPANCY: CONSTRUCTION TYPE:

- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED.
- FACILITY HAS NO SANITARY OR POTABLE WATER
- THERE IS "NO EMERGENCY RESPONSE EQUIPMENT ON THE TOWER AND EXISTING &/OR PROPOSED EQUIPMENT WILL NOT INTERFERE WITH COUNTY EMERGENCY COMMUNICATIONS AND THAT, IF SUCH, INTERFERENCE IS FOUND TO EXIST, THEN APPLICANT WILL TAKE WHATEVER STEPS NECESSARY TO CORRECT INTERFERENCE."

FEMA PANEL

CONDITIONS FLOOD HAZARD AREAS, AS SHOWN PER FIRM PANEL: 3720059900J. DATED: 10/03/2006

CALL BEFORE YOU DIG



CALL NORTH CAROLINA ONE CALL (800) 632-4949 **CALL 3 WORKING DAYS BEFORE YOU DIG!**



THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE

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)

	00.170.50.101.401					
	: COATS-5RA0169A CHWY-55 COATS, NC 27521			7:- C-1-		
	TONYA ed Agent: SYKES-MCCLURE) 527 0000	Zip Code E-Mail TSykes-McClure@sbasite.		
Owned By:	_	City/County	,			
Code Enforceme	_	City	☐ Private HAR	NETT State UNITY State		
Code Emorceme	int Jurisdiction.	City	∠ County see	State		
CONTACT: _						
DESIGNER Architectural	FIRM	NAME	LICENSE #	TELEPHONE # E-MAIL		
Civil	P. MARSHALL &	PATRICK MARSHALL	024136	(678) 280-2325		
Electrical	ASSOCIATES					
Fire Alarm				()		
Plumbing				()		
Mechanical				()		
	pipe			()		
Structural	> E! III als					
Other	>5' High					
	include firms and indivi	iduals such as truss in	recast nre-engine	eered, interior designers, etc.)		
(, F			
2018 NC EXIST (check all that ap CONSTRU RENOVAT	2018 NC BUILDING CODE: New Building Shell/Core 1st Time Interior Completions Addition Phased Construction - Shell Core 2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level I Historic Property (check all that apply) Repair Alteration Level II Change of Use Chapter 14 Alteration Level III CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3): RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch. 3): OCCUPANCY CATEGORY (Table 1604.5): Current: UTILITY Proposed: UTILITY					
BASIC BUILD			_			
Construction T	· =	☐ II-A	III-A	\square IV \square V-A		
(1 1 11 11 1						
(check all that ap		☐ II-B	□ III-B	V-B		
Sprinklers:	No ☐ Partial	☐ NFPA 13	☐ III-B ☐ NFPA 13R	☐ V-B		
Sprinklers: Standpipes:	No Partial No Class □ I	□ NFPA 13	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry	□ V-B		
Sprinklers:	No Partial No Class □ I	□ NFPA 13	☐ III-B ☐ NFPA 13R	☐ V-B		
Sprinklers: Standpipes:	No Partial No Class ☐ I istrict: No ☐ Y	NFPA 13 II III Yes Flood I	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry	□ V-B		
Sprinklers: Standpipes: Primary Fire D	No ☐ Partial ☐ No ☐ Class ☐ I istrict: ☐ No ☐ Y ions Required: ☐ N	NFPA 13 II III Yes Flood I	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry Hazard Area:	□ V-B		
Sprinklers: Standpipes: Primary Fire D Special Inspecti	No ☐ Partial ☐ No ☐ Class ☐ I istrict: ☐ No ☐ Y ions Required: ☐ N	NFPA 13 II III Yes Flood I	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry Hazard Area: AREA TABLE	□ V-B		
Sprinklers: Standpipes: Primary Fire D Special Inspecti FLOOR 3rd Floor	No Partial No Class I I istrict: No Y ons Required: No	☐ NFPA 13 ☐ II ☐ III Yes Flood I No ☐ Yes GROSS BUILDING	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry Hazard Area: AREA TABLE	□ V-B □ NFPA 13D No □ Yes		
Sprinklers: Standpipes: Primary Fire D Special Inspecti FLOOR 3rd Floor 2nd Floor	No Partial No Class I I istrict: No Y ons Required: No	☐ NFPA 13 ☐ II ☐ III Yes Flood I No ☐ Yes GROSS BUILDING	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry Hazard Area: AREA TABLE	□ V-B □ NFPA 13D No □ Yes		
Sprinklers: Standpipes: Primary Fire D Special Inspecti FLOOR 3rd Floor 2nd Floor Mezzanine	No Partial No Class I I istrict: No Y ons Required: No	☐ NFPA 13 ☐ II ☐ III Yes Flood I No ☐ Yes GROSS BUILDING	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry Hazard Area: AREA TABLE	□ V-B □ NFPA 13D No □ Yes		
Sprinklers: Standpipes: Primary Fire D Special Inspecti FLOOR 3rd Floor 2nd Floor Mezzanine 1st Floor	No Partial No Class I I istrict: No Y ons Required: No	☐ NFPA 13 ☐ II ☐ III Yes Flood I No ☐ Yes GROSS BUILDING	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry Hazard Area: AREA TABLE	□ V-B □ NFPA 13D No □ Yes		
Sprinklers: Standpipes: Primary Fire D Special Inspecti FLOOR 3rd Floor 2nd Floor Mezzanine	No Partial No Class I I istrict: No Y ons Required: No	☐ NFPA 13 ☐ II ☐ III Yes Flood I No ☐ Yes GROSS BUILDING	☐ III-B ☐ NFPA 13R ☐ Wet ☐ Dry Hazard Area: AREA TABLE	□ V-B □ NFPA 13D No □ Yes		

		ALL	OWABLE ARI	E A			
Primary Occupano	y Classification	on(s):					
Assembly	☐ A-1	☐ A-2		1-3	☐ A-4	ļ	☐ A-5
Business							
Educational	∐ F 1 Mada	moto □ E 2 Lo					
Factory Hazardous	F-1 Mode			I-3 Combust	Пни	Health	П н-5 нРМ
Institutional	☐ I-1 Detai	Inte ☐ I1-2 DC	=	-3 Comoust	I-4	ricaini	□ 11-3 III W
I-1 Cond		\square_2	U *	5	□ .		
I-2 Cond	ition 🔲 1	☐ 2					
	ition 🔲 1	\square 2 \square 3	☐ 4 ☐ 5				
Mercantile				_			
Residential	□ R-1	☐ R-2		1-3	∐ R-4		
Storage	S-1 Mode	arage Open	S-2 Low Enclosed			h-piled air Garag	T.A.
Utility and Mise			Eliciosed		□ Kep	an Garag	,c
Accessory Occupan		ion(s):					
ncidental Uses (Ta	•						
	_	npt as a Non-Sepa	rated .	`s).			
Special Uses (Chap		- d - C t') .		3).			
		oue sections):	\sim 1				
Special Provisions:	(Chapter 5 –	List Code	\bigcirc	_			
Mixed Occupancy:	Select one	Ser	1 ())			
Allowable . STORY DESC	CRIPTION AND	BUI	Trater Area of	Occupancy B Occupancy B (C)	+	=_	≤ 1.00
NO.	USE	JLDG AREA PER	TABLE 506.2 ⁴	AREA FOR FRO	NTAGE	ALLOWAE	BLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE	1,5	STORY OR	UNLIMITED ^{2,3}
Frontage area incre	eases from Sec	tion 506 2 are cor	mouted thus:	•			
		oublic way or ope		20 feet minim	um widt	h =	(F)
	ling Perimeter		(P)				
c. Ratio (F/P)		_ (F/P)					
		ublic way =					
Unlimited area app				D (i		~) (E06 2)	
Maximum Buildin The maximum are	g Area = total	number of stories	in the building	x レ (maximur	ns storie	s) (506.2)). . of air traffic
control towers mu			ompiy with ra	010 400.5.4. 1	не шахі	mum arca	or an name
Frontage increase			o voluo in Tobl	2 506 2			

T - Mobile-



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



LOCATION:

1275 NC HWY-55 COATS, NC 27521

SBA

NC02083-B

COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

225' MONOPOLE

REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.396714 LONG: -78.668261

DRAWN: INS CHECKED: PWM

JOB#: 20ASBTMMNC-0072

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)			

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		RATING	DETAIL#	DESIGN#	SHEET # FOR	SHEET#
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE		(w/*	SHEET #	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame,							
including columns, girders,					1		
trusses							
Bearing Walls Exterior					' —		
North				_	_		
East				ı,	_		
West							
South			<u> </u>	. r ·			
Interior			⊢ ()	\ '			
Nonbearing Walls and			MO				
Partitions		l .	H_{\sim}	\(^)		
Exterior walls	Ι.	. N	, ,	\sim	•		
North		١r	. \(\sigma \)	1			
East	⊢	١,	\cdot	•			
West	1-		111/				
South	•	\sim	112				
Interior walls and partitions		Y)	_				
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 Separat	tion						
Party/Fire Wall Separation							
Smoke Barrier Separation					<u> </u>		
Smoke Partition					-		
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

ACCESSIBLE DWELLING UNITS

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
l							

ACCESSIBLE PARKING

LOT OR PARKING	TOTAL # OF PA	ARKING SPACES	# OI	ACC		C.P		TOTAL#
AREA	REQUIRED	PROVIDED	REGULAR W	- N		ч		ACCESSIBLE
			5' ACCE®	ノレ	`	C	ESS	PROVIDED
			_	へ 1		~	533	
	_		-) 				
			` \() ' .	_	-		
				, , , ,	1			
TOTAL		Π.	1-	11				
		N	` '	11	_			
		. 1 K	`	• • • • • • • • • • • • • • • • • • • •	_			
		117	`	/// -				
	 ,	412) ii ()//	THE REAL PROPERTY.			
		414	7111) - -	EMENTS	3		
		4/1	INT	JURI J2.1)	EMENTS	,		
	, 	412	JIL	ZUIRI	EMENTS	\$		
USE	, , , , , , , , , , , , , , , , , , ,	412	JIL	JURI J2.1)		SHOWERS	DRINKING	G FOUNTAINS
USE	MALE	412		LAVATORII	ES	SHOWERS		1
	MALE .	MB	JILC MALI	LAVATORII			DRINKING REGULAR	G FOUNTAINS ACCESSIBLE
SPACE EXIST'C		412		LAVATORII	ES	SHOWERS		1
		41,		LAVATORII	ES	SHOWERS		1
SPACE EXIST'C		18, 41,		LAVATORII	ES	SHOWERS		1

SPECIAL APPROVALS

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

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

arbon Monoxide Detection:	☐ Yes ☐ No LIFE SAFETY PLAN REQUIREM
mergency Lighting: xit Signs: ire Alarm: moke Detection Systems:	☐ Yes ☐ No

Life S	safety Plan Sheet #:
	Fire and/or smoke rated wall locations (Chapter 7)
	Assumed and real property line locations (if no ⁺
	Exterior wall opening area with respect to
	Occupancy Use for each area as it re ¹ .
	Occupant loads for each area
	Exit access travel distance
	Common path of trav
	Dead end lengths (.
	Clear exit widths for
	Maximum calculated or Alt door can accommodate based on egress width (1005.3)
	Actual occupant load for c
	A separate schematic plan in the 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

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

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)

Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Skylights in each assembly:

U-Value of skylight: total square footage of skylights in each asser

Exterior Walls (each assembly)

Description of assembly: U-Value of total assembly R-Value of insulation

Walls below grade

Description o U-Value of tota R-Value of insula

Floors over unconditioned space (each assembly) Description of assembly: U-Value of total assembly:

Floors slab on grade

Description of assembly: U-Value of total assembly:

R-Value of insulation:

R-Value of insulation: Horizontal/vertical requirement: slab heated:

T - Mobile-



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1275 NC HWY-55 **COATS, NC 27521**

NC02083-B

COATS

T-MOBILE:

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SITE TYPE:

225' MONOPOLE

ſ	REV	DATE	DESCRIPTION
I	0	11/30/2020	FOR CONSTRUCTION
I			
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ı			

SITE COORDINATES LAT: 35.396714 LONG: -78.668261

DRAWN: INS CHECKED: PWM

JOB#: 20ASBTMMNC-0072

APPENDIX B

T-1B

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN
(PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)

DESIGN LOADS:				
Importance Factors:	Wind (I _W) Snow (I _S) Seismic (I _E)			
Live Loads:	Roof psf Mezzanine ps ^f Floor			
Ground Snow Load:	psf			
	sic Wind c 2-7) Sic Wind c 2-7) DOSUM: B C D			
SEISMIC DESIGN CATE	M, MO,, □B □C □D			
Provide the following Seisn	, $0/)_{i_k}$			
Occupancy Categor				
Spectral Response Ac	%g S ₁ %g			
Site Classification (ASC				
	∴			
Basic structural system (☐ Bearing Wall				
Building Fran				
Moment Fran				
Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic			
Architectural, Mechanical, Components anchored? Yes No				
LATERAL DESIGN CONTROL	Earthquake Wind Wind			
SOIL BEARING CAPACITIES:	:			
Field Test (provide copy of	of test report) psf			
	acity psf			
Pile size, type, and capaci				

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN

(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb:
summer dry bulb:
Interior design conditions winter dry bulb: summer dry bulb: relative humidity: Building heating load:
Building heating load:
Building cooling load:
Mechanical Spacing Condition
Unitary
description of unit:
heating efficiency:
cooling efficiency:
size category of unit:
Boiler
Size category. If oversized, state reason.:
Chiller
Size category. If oversized, state reason.:
List equipment efficiencies:

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 fixture total wattage per fit total interior wattage total exterior wattage

.e building or space by space)

Additional Prescriptive Complia.

506.2.1 More Efficient N. Johanical 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



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1275 NC HWY-55 COATS, NC 27521

SBA

NC02083-B

COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

225' MONOPOLE

229 WONOI OLL		
REV	EV DATE DESCRIPTION	
0	11/30/2020	FOR CONSTRUCTION

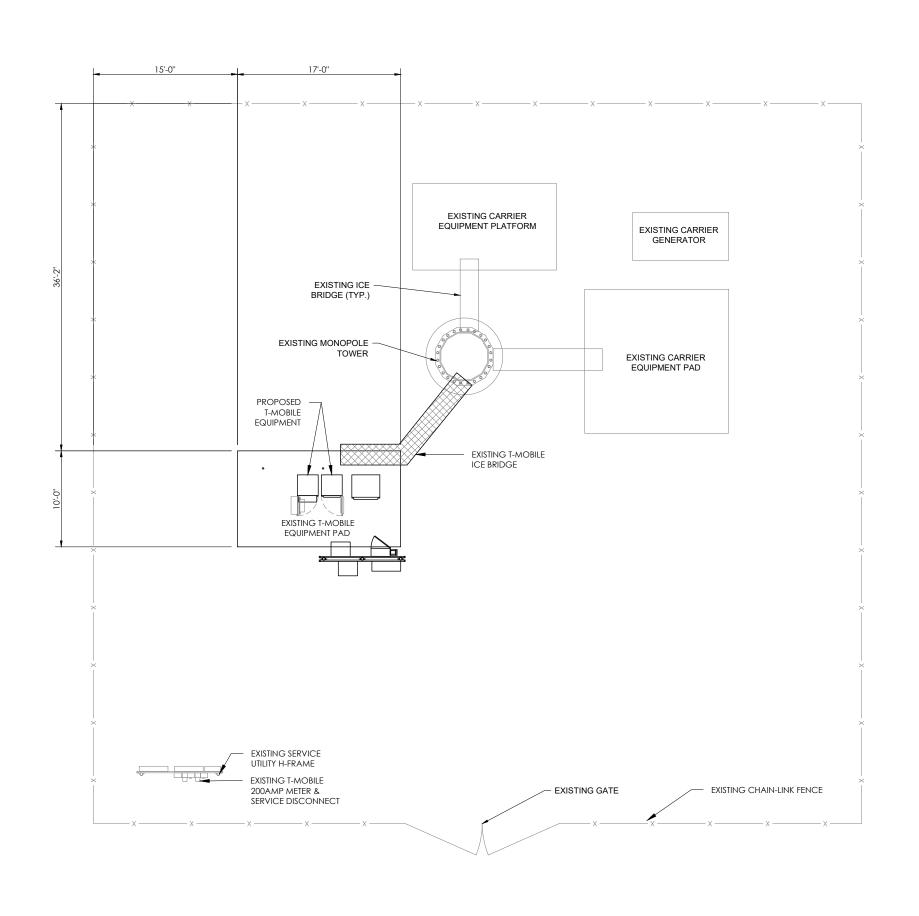
SITE COORDINATES LAT: 35.396714 LONG: -78.668261

DRAWN: INS
CHECKED: PWM

JOB#: 20ASBTMMNC-0072

APPENDIX B

T-1C



-GENERAL NOTES -

- 1. ALL MATERIAL AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY. FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED 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.
- 2. ACCESS TO PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS WITH THE LEASING AGENT FOR APPROVAL.
- 3. CONTRACTOR SHALL HAVE PRESENT ON SITE CURRENT CARRIER SUPPLIED INFORMATION PRIOR TO COMMENCE OF WORK; IE. RFDS, DESIGN DOCUMENTS SPECIFIC TO SITE AND CONFIGURATION. NOTIFY CONSTRUCTION MANAGER OF ANY 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 CONDITION & SHALL MATCH EXISTING CONDITIONS BY REPAIRS AT GENERAL CONTRACTOR EXPENSE.
- 6. THE EXISTING TREES AND VEGETATION ARE SUFFICIENT TO PROVIDE THE REQUIRED SCREENING PER LOCAL ORDINANCE. IF THE VEGETATION IS REMOVED OR DAMAGED, NEW LANDSCAPING/ SCREENING WILL BE INSTALLED TO MEET LOCAL ORDINANCE REQUIREMENTS.

T - Mobile-



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



LOCATION:

1275 NC HWY-55 COATS, NC 27521

SBA:

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COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

225' MONOPOLE

REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

SITE PLAN

1"=5'-0" (FULL SIZE)
5' 2.5' 0 5' 1"=10'-0" (11x17)

-NORTH ARROW-

-GRAPHIC SCALE





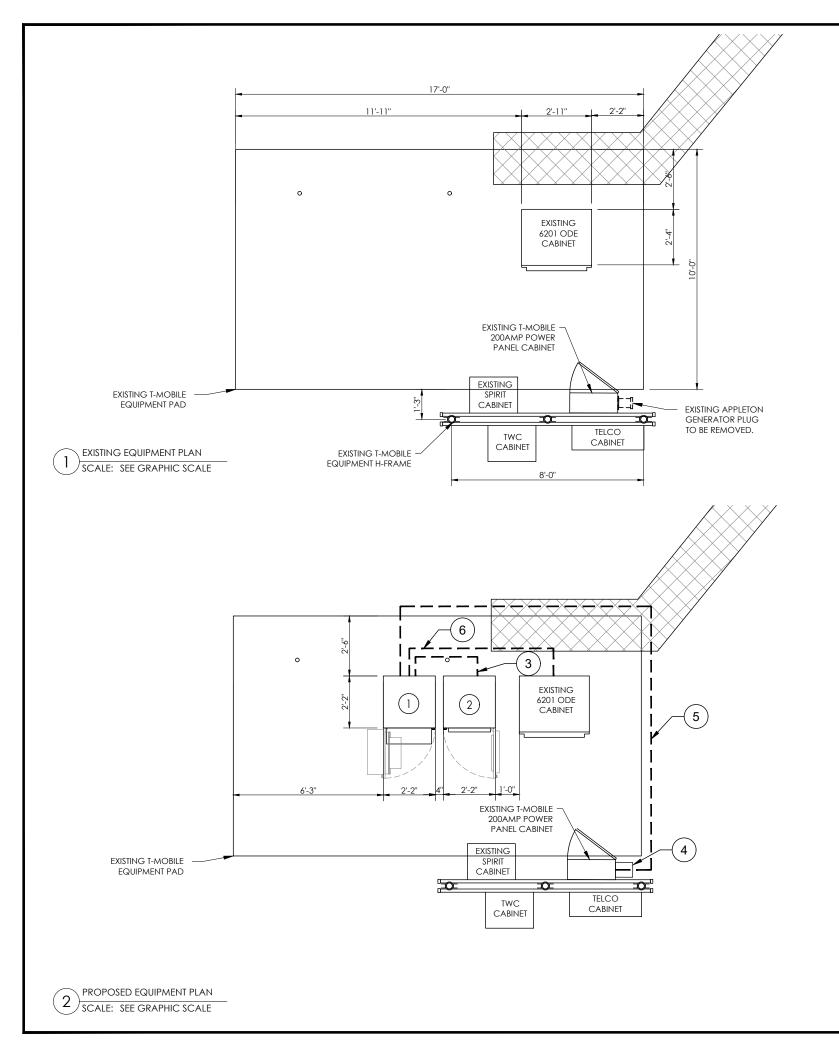
SITE COORDINATES LAT: 35.396714

LONG: -78.668261

DRAWN: INS CHECKED: PWM

JOB#: 20ASBTMMNC-0072

SITE PLAN



GENERAL NOTES

- 1. PROPOSED ENCLOSURE 6160 CABINET ATTACHED TO PLATFORM AT EACH CORNER PER MANUFACTURER'S SPECIFICATIONS . GROUND CABINET WITH MECHANICAL 2-LUG CONNECTION & #2 TINNED SOLID COPPER IN 3/4" NON METALLIC FLEX. CONDUIT TO EXISTING EQ. GROUND (TYP)
- 2. PROPOSED ENCLOSURE B160 BATTERY CABINET PLATFORM AT EACH CORNER PER MANUFACTURER'S SPECIFICATIONS.
 GROUND CABINET WITH MECHANICAL 2-LUG CONNECTION & #2 TINNED SOLID COPPER IN 3/4" NON METALLIC FLEX. CONDUIT TO EXISTING EQ. GROUND. (TYP)
- 3. PROPOSED (2) 3" PVC SCH. 80 RIGID CONDUIT WITH PULLSTRINGS FROM PROPOSED ENCLOSURE 6160 CABINET TO PROPOSED ENCLOSURE B160 BATTERY CABINET.
- 4. EXISTING PPC CABINET ATTACHED TO EXISTING H-FRAME.
 REMOVE EXISTING APPLE-TON GENERATOR PLUG & INSTALL
 PROPOSED CAM-LOC GENERATOR PLUG. MAINTAIN 36"x48"
 CLEARANCE IN FRONT OF PANEL. GROUND PER MANUFACTURER
 DETAILS.
- 5. PROPOSED (1) 3" PVC SCH. 80 NONFLEX CONDUIT WITH FROM EXISTING PPC TO PROPOSED ENCLOSURE 6160 CABINET.
- 6. PROPOSED (1) 3" PVC SCH. 80 NONFLEX CONDUIT WITH PULLSTRINGS FROM EXISTING EQUIPMENT CABINET TO PROPOSED ENCLOSURE 6160 CABINET.

THE CABINETS ARE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS TO MEET THE REQUIREMENTS OF THE CURRENT NFPA 37 EDITION 2018. CABINET

DEMONSTRATE COMPLIANCE TO TELCORDIA GR-487-CORE SECTION 3.39

1"=2'-0" (FULL SIZE)

CONSTRUCTION THAT PASSED A SIMULATED BRUSH FIRE TEST TO

FIRE RESISTANCE REQUIREMENT R3-265. REFER TO THE NATIONAL TECHNICAL SYSTEMS (NTS) REPORT NO. PR067628-GR487.

T - Mobile-



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



LOCATION:

1275 NC HWY-55 COATS, NC 27521

SBA:

NC02083-B

COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

225' MONOPOLE

REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.396714 LONG: -78.668261

DRAWN: INS

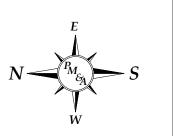
CHECKED: PWM

JOB#: 20ASBTMMNC-0072

-NORTH ARROW-

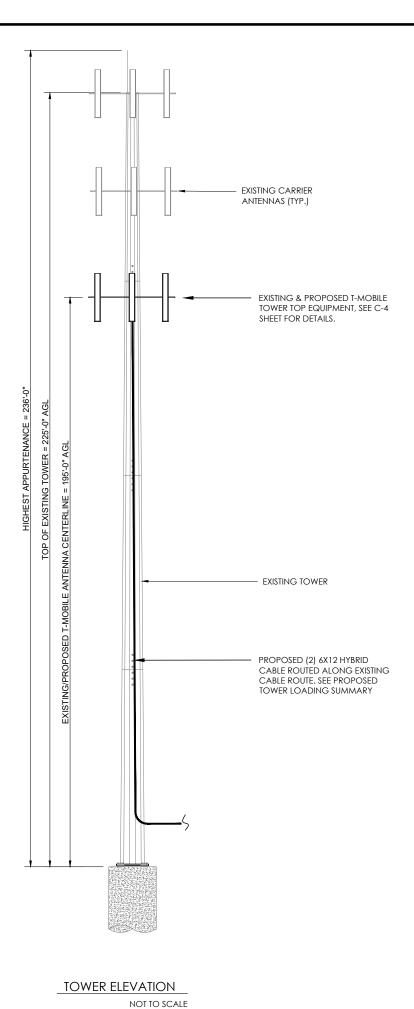
GRAPHIC SCALE

-EQUIPMENT NOTE-





EQUIPMENT PLAN



-GENERAL NOTES -

- 1. PM&A HAS NOT PERFORMED A TOWER STRUCTURAL ANAYSIS FOR THIS PROJECT. REFER TO TOWER STRUCTURAL ANALYSIS BY OTHERS FOR PROPOSED ANTENNA CABLE LOADING DETAILS
- 2. TOWER ELEVATION SHOWN IS NOT DRAWN TO SCALE AND IS ONLY INTENDED FOR REFERENCE PURPOSES. REFER TO ORIGINAL TOWER DESIGN FOR ADDITIONAL INFORMATION.
- 3. ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS PRIOR TO COMMENCING CONSTRCTION. NOTIFY TH EENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED.
- 4. ALL HARDWARE ASSEMBLE MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- 5. 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. CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND OF QUALITY OF THE MATERIALS AND EQUIPMENT BEING
- 6. CONTRACTOR TO REFER TO THE MOUNT ANALYSIS FOR THIS PROJECT.

FINISH NOTES:

6

1

GALVANIZED PAINTED RED & WHITE TOWER-TOWER MOUNTS-GALVANIZED PAINTED WHITE ANTENNA-NEUTRAL (MANUFACTURER FINISH) FOUNDATIONS-UNPAINTED CONCRETE

ICE BRIDGE-GALVANIZED CABLES-**BLACK**

-TOWER LOADING SUMMARY -

BASE CABINETS/EQUIPMENT- NEUTRAL (MANUFACTURER FINISH)

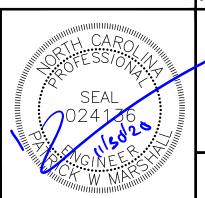
EXISTING | REMOVE **EQUIPMENT** ADD TOTAL **ANTENNA** 3 6 6 TMA 3 0 0 **RADIOS** 3 0

COAX

HYBRIDS

2

0



0

2

T - Mobile-



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



LOCATION:

1275 NC HWY-55 COATS, NC 27521

NC02083-B

COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

9

0

9

3

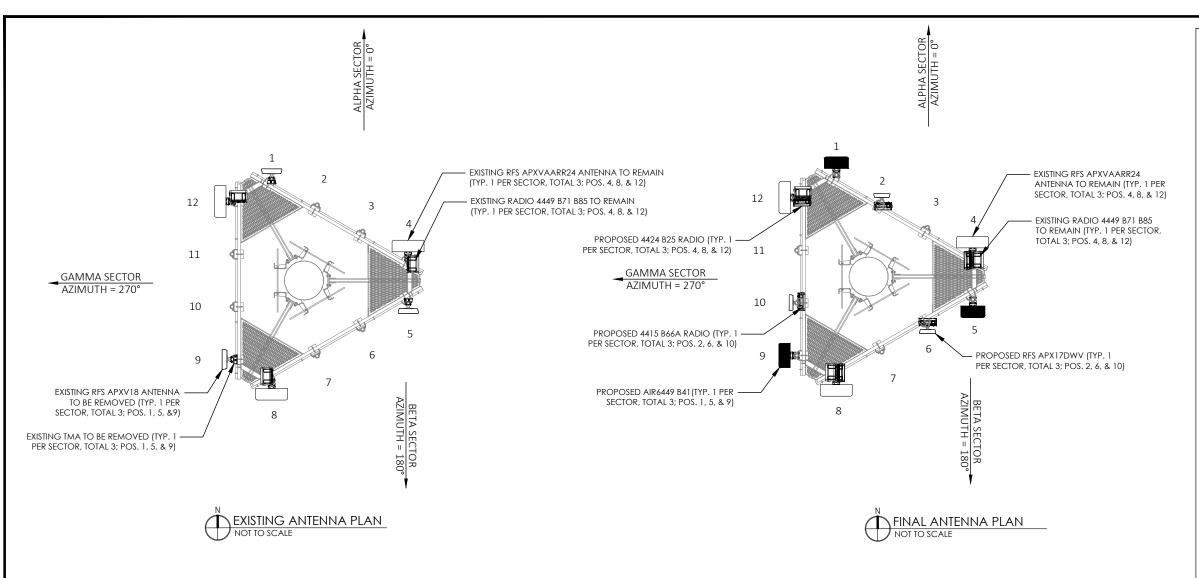
225' MONOPOLE

REV	DATE	DESCRIPTION			
0	11/30/2020	FOR CONSTRUCTION			
SITE COORDINATES					
LAT: 35.396714					
LONG: -78.668261					

DRAWN: INS CHECKED: PWM

20ASBTMMNC-0072

TOWER ELEVATION



-PROPOSED ANTENNA SCHEDULE

SECTOR	MARK	AZIMUTH	ANTENNA MODEL	RADIO MODEL	TMA MODEL	CABLE DESCRIPTION
ALPHA	1	0	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-	(2) 1 -5/8" COAX CABLES (235') (DISCONNECTED) (E)
ALPHA	2	0	RFS - APX17DWV-17DWV-S-E-A20 (QUAD) (P)	RADIO 4415 B66A (P)	-	
-	3	-	-	-	-	-
ALPHA	4	0	RFS - APXVAARR24_43-U-NA20 (OCTO) (E)	RADIO 4449 B71 B85 (E) RADIO 4424 B25 (P)	-	(1) ERICSSON 6X12 HCS 4AWG 80M (262') (E)
BETA	5	180	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-	(1) 1 -5/8" COAX CABLES (235') (DISCONNECTED) (E)
BETA	6	180	RFS - APX17DWV-17DWV-S-E-A20 (QUAD) (P)	RADIO 4415 B66A (P)	-	
-	7	-	-	-	-	-
BETA	8	180	RFS - APXVAARR24_43-U-NA20 (OCTO) (E)	RADIO 4449 B71 B85 (E) RADIO 4424 B25 (P)	-	(1) ERICSSON 6X12 HCS 4AWG 80M (262') (P
GAMMA	9	270	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-	(1) 1 -5/8" COAX CABLES (235') (DISCONNECTED) (E)
GAMMA	10	270	RFS - APX17DWV-17DWV-S-E-A20 (QUAD) (P)	RADIO 4415 B66A (P)	-	-
-	11	-	-	-	-	
GAMMA	12	270	RFS - APXVAARR24_43-U-NA20 (OCTO) (E)	RADIO 4449 B71 B85 (E) RADIO 4424 B25 (P)	-	(1) ERICSSON 6X12 HCS 4AWG 80M (262') (F
_	_	_	-	-	-	_

ANTENNA NOTE

CONTRACTOR TO ROTATE THE ANTENNAS AND OR MOUNTS TO OBTAIN NEW AZIMUTHS. REFER TO FINAL RF DOCUMENTS TO CONFIRM NEW AZIMUTHS

(E)- EXISTING (P) - PROPOSED

GC TO PROVIDE POST CONSTRUCTION DOCUMENTATION ON ALL ANTENNA AZIMUTHS AND COLOR CODING FOR CABLES.

EQUIPMENT NOTES

- 1. 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.
- 2. THE CONTRACTOR SHALL TEST THE OPTICAL FIBER AFTER INSTALLATION IN ACCORDANCE WITH T-MOBILE STANDARDS AND SUPPLY THE RESULTS TO T-MOBILE.
- 3. THE CONTRACTOR SHALL CONFIRM THE TOWER TOP EQUIPMENT LIST ABOVE WITH THE FINAL T-MOBILE RFDS PRIOR TO INSTALLATION.
- 4. ALL PROPOSED ANTENNA
 CABLES SHALL BE COLOR
 CODED PER T-MOBILE MARKET
 STANDARDS.
- 5. REFER TO ERICSSON EQUIPMENT INSTALLATION STANDARDS FOR ADDITIONAL INFORMATION.
- 6. REFER TO EQUIPMENT
 MANUFACTURER'S
 SPECIFICATION SHEETS FOR
 ADDITIONAL INFORMATION NOT
 LISTED ABOVE.
- 7. 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 COMMUNICATIONS CORP. 5900 BROKEN SOUND PKWY NW BOCA RATON, FL 33487



LOCATION:

1275 NC HWY-55 COATS, NC 27521

SBA:

NC02083-B COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

225' MONOPOLE

REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.396714 LONG: -78.668261

DRAWN: INS CHECKED: PWM

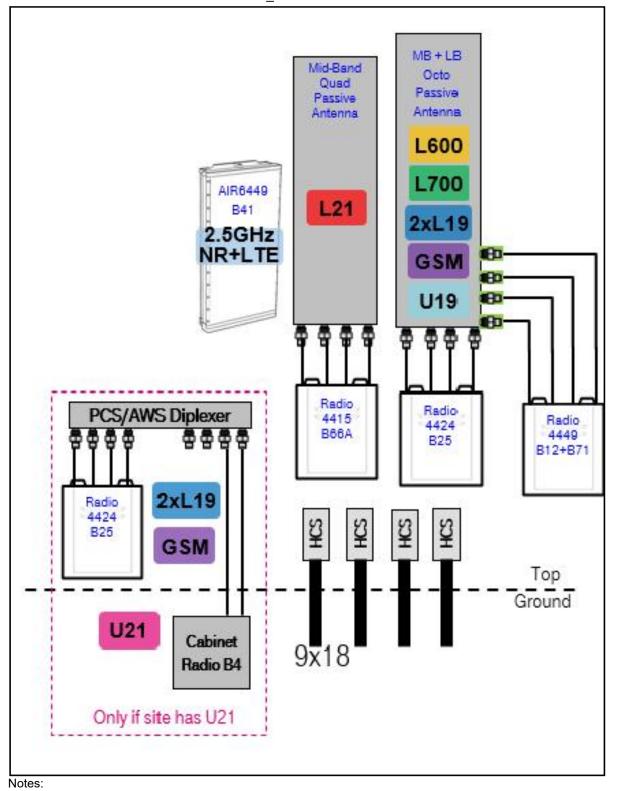
JOB#: 20ASBTMMNC-0072



ANTENNA
ORIENTATION &
CABLE SCHEDULE

Section 3 - Proposed Template Images

67D5998C_1xAIR+1QP+1OP.PNG



T - Mobile-



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



I OCATION:

1275 NC HWY-55 COATS, NC 27521

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COATS

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SITE TYPE:

225' MONOPOLE

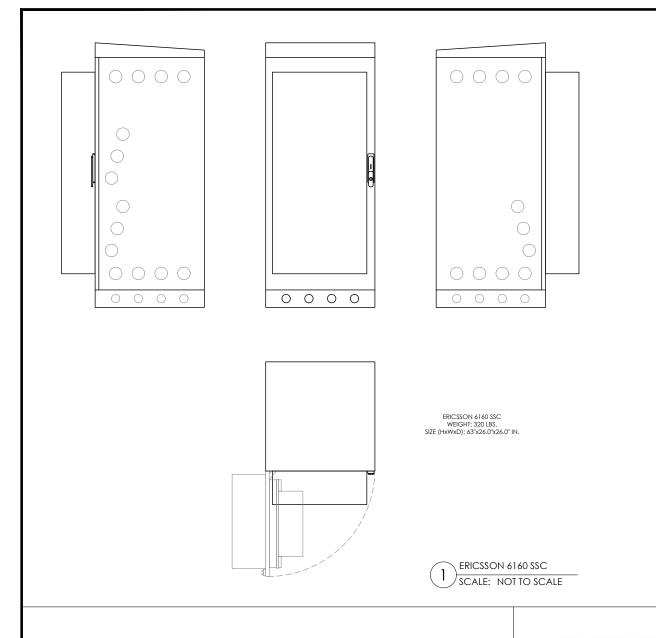
REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

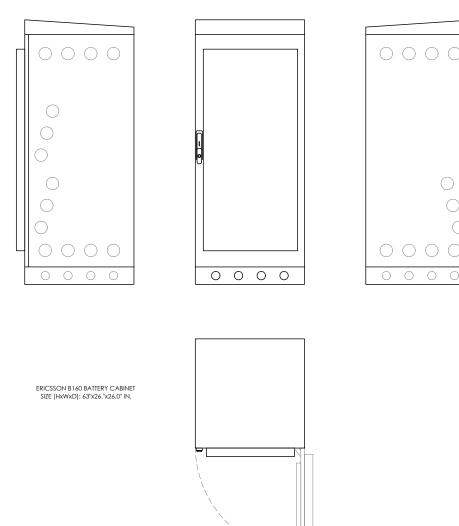
SITE COORDINATES LAT: 35.396714 LONG: -78.668261

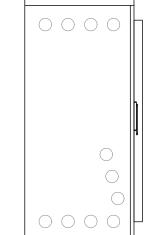
DRAWN: INS

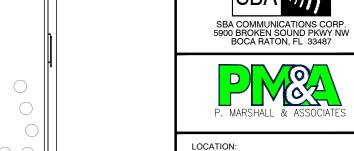
JOB#: 20ASBTMMNC-0072

PLUMBING DIAGRAM









1275 NC HWY-55 **COATS, NC 27521**

T - Mobile-

NC02083-B

COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

225' MONOPOLE

REV	DATE	DESCRIPTION			
0	11/30/2020	FOR CONSTRUCTION			
SITE COORDINATES					
LAT: 35.396714					
LONG: -78.668261					

DRAWN: INS CHECKED: PWM

JOB#: 20ASBTMMNC-0072

EQUIPMENT SPECS

C-6

Coax Color Coding

Antennas will be labeled (back of antenna view) Right to left 1 - X ports bands around the coax/jumper

SECTOR A	RED
SECTOR B	GREEN
SECTOR C	BLUE
SECTOR D	YELLOW
SECTOR E	WHITE
SECTOR F	PURPLE
LMU	BROWN + SECTOR COLOR BANDS (1 & 2)
FIBER ID	GRAY
UNUSED COAX	PINK
MICROWAVE	ORANGE
DWE T-1'S + GPS DOWNLINK CABLE	ID W/LABEL MAKER

color GSM color UMTS 1900

color UMTS AWS color color FIBER CABLE

TAG #2

COLOR CODING NOTES: METALLIC TAG NOTES:

TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN (3) THREE FEET
 CABLE LESS THAN (3) THREE FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE

METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.

3. TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.

4. STANDARDIZED METALLIC TAG KIT WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL CONFIGURATIONS.

TAG #1

ANTENNA AND COAXIAL CABLE SCHEDULE

EXAMPLE: COAX WITH FOUR BANDS OF

RED TAPE WILL REPRESENT ALPHA

ERICSSON B160 BATTERY CABINET

XX

FRONT OF THE ANTENNA ANTENNA #1 ANTENNA #2 ANTENNA #3

XX

XX

XX

ANTENNA #4

XX

XX

XX

XX

SCALE: NOT TO SCALE

XX

CABLE SCHEDULE
ALL ANTENIAS SHALL BE FURNISHED WITH
DOWNTILT BRACKETS.
CONTRACTOR SHALL COORDINATE
REQUIRED MECHANICAL DOWNTILT FOR
EACH ANTENIA WITH RE PRISINEER:
ANTENIA DOWNTILT SHALL BE SET AND
VERIFIED BY A SMART LEVEL.
CONTRACTOR SHALL INSTALL COLOR CODE
RINGS ON EACH OF THE HORBID CABLES
AND JUMPER CABLES WITH UV RESISTANT
TAPE ALL CABLE SHALL BE MARKED AT
TOP AND BOTTOM WITH 2" COLOR TAPE OR
STENICLI TAG. COLOR TAPE MAY BE
OBTAINED FROM GRAYBAR ELECTRONICS.

COAX COLOR CODING (4) SCALE: NOT TO SCALE

(N) CABINET BASE FRAME. (N) (4) 1/2"ø HILTI KWIK BOLT TZ STAINLESS STEEL WITH MIN. 4-1/4" EMBEDMENT. INSTALL PER MANUFACTURERS SPECIFICATIONS. CONCRETE PAD. CABINET ANCHORAGE DETAIL

SCALE: NOT TO SCALE



EQUIPMENT NOTES-

DEMO NOTES:

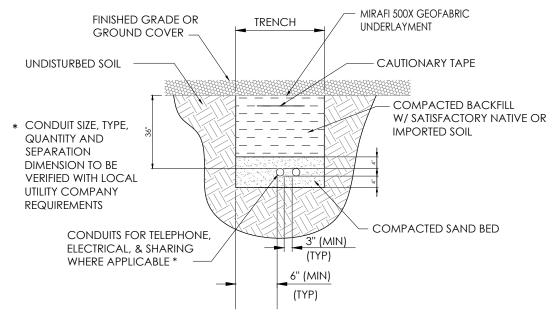
- 1. REWORK ALL TERMINATION, ELECTRICAL CONNECTORS, CONDUCTORS, CONDUITS, ETC., TO FACILITATE NEW WORK.
- VERIFY LOCATION IN THE FIELD OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING. COORDINATE WITH PUBLIC UTILITIES AS NECESSARY TO COMPLETE REQUIRED WORK AS INDICATED IN THE CONTRACT DOCUMENTS. THE 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.
- 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.

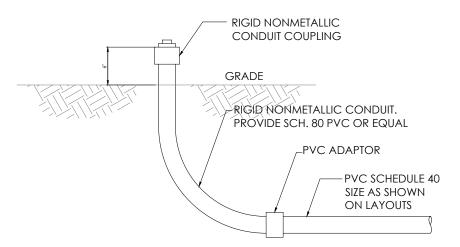
COMPRESSION LUG NOTES:

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 VZW 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 VZW.



TRENCH DETAIL

SCALE: NTS



UNDERGROUND CONDUIT STUB-UP

SCALE: NTS





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



LOCATION:

1275 NC HWY-55 COATS, NC 27521

SBA:

NC02083-B

COATS

T-MOBILE

5RA0169A COATS

SITE TYPE:

225' MONOPOLE

	220	WOITOI OLL						
REV	DATE	DESCRIPTION						
0	11/30/2020	FOR CONSTRUCTION						
	SITE COORDINATES							
1 /	T. 25 20	/71/						

LAT: 35.396714

DRAWN: INS
CHECKED: PWM

JOB#: 20ASBTMMNC-0072

SEAL DETAILS

E-1

	T-MOBILE SITE #:		LOCATION:			LOCATION: VOLTAGE: 240/120 1Ø MOUNTING / ENCLOSURE: EXISTING / NEMA 3F								EXISTING / NEMA 3 R		
	5RA0169A (EXISTING) 11/30/2020			H-FRAME				MAIN C/B:	200	AMPS			AVAIL. FAULT CURRENT:	EXISTING		
							В	US RATING:	200	AMPS			HORT CIRCUIT RATING:	EXISTING		
AMPS/ POLES	WIRE & CONDUIT	TYPE		DESCRIPTION	N	KVA	CKT	Α		В	СКТ	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMPS/ POLES
				SPACE			1				2	0.00	SPACE		EXISITNG	-
				SPACE			3				4	0.00	SPACE			-
				SPACE			5				6	0.00	EMPTY			
20/1	EXISTING	R		GFI		0.50	7			3.70	8	3.20	RBS 6201 ODE	EQ	EXISTING	100/2
30/2	EXISTING	E	SUF	RGE PROTECT	TOR	0.10	9	3.30			10	3.20		EQ		-
		E				0.10	11			0.10	12	0.00				
						PHASE*	TOTAL	3.3		3.8	KVA					
													TOTAL CONNECTE	ED LOAD	7.1 kVA	30 A
													TOTAL CONNECTE	ED LOAD	7.1 kVA	30 A
													TOTAL CONNECTS TOTAL DEMAN		7.1 kVA 7.2 kVA	30 A
LOAD	DESCRIPTION	CONN	. LOAD	DEMAND	DESIGN		1									_
LOAD TYPE	DESCRIPTION	CONN	. LOAD	DEMAND FACTOR	DESIGN KVA											_
	DESCRIPTION	_	AMPS			LOAD										_
		KVA	AMPS	FACTOR	KVA	LOAD AMPS 0.0							TOTAL DEMAN			_
TYPE	LIGHTING	KVA 0.0	AMPS 0.0	FACTOR 1.25	KVA 0.0	LOAD AMPS 0.0 2.1							TOTAL DEMAN			_
TYPE L R	LIGHTING RECEPTACLE	KVA 0.0 0.5	0.0 2.1	FACTOR 1.25 NEC	KVA 0.0 0.5	LOAD AMPS 0.0 2.1 0.0							TOTAL DEMAN			_
TYPE L R M	LIGHTING RECEPTACLE MOTOR	0.0 0.5 0.0	AMPS 0.0 2.1 0.0	FACTOR 1.25 NEC NEC	KVA 0.0 0.5 0.0	LOAD AMPS 0.0 2.1 0.0 0.0							TOTAL DEMAN			_
TYPE L R M H	LIGHTING RECEPTACLE MOTOR HEATING	0.0 0.5 0.0 0.0	0.0 2.1 0.0 0.0 0.0	1.25 NEC NEC 1.00	6VA 0.0 0.5 0.0 0.0	LOAD AMPS 0.0 2.1 0.0 0.0 0.0							TOTAL DEMAN			_

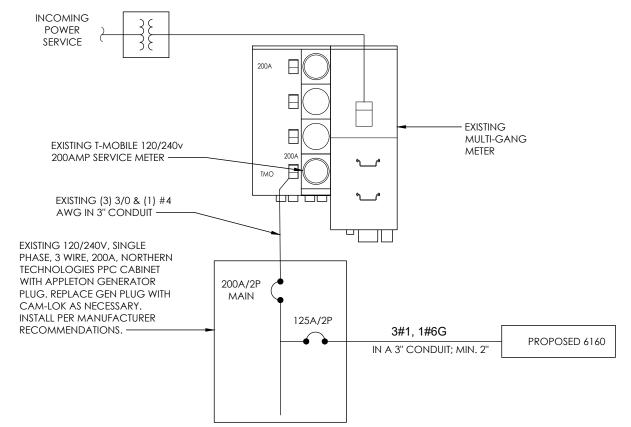
DO NOT EDIT LINE VOLTAGE 480/277 240/120 10

1 EXISTING PANEL SCHEDULE SCALE: NOT TO SCALE

<u></u>	T-MOBILE SITE #:			LOCATION:				VOLTAGE:	240/12	01Ø			MOUNTING / ENCLOSURE:	E	XISTING / NEMA 3 R					
	5RA0169A (PROPOSED)	H-FRAME		H-FRAME		H-FRAME		H-FRAME			MAIN C/B:	200	AMPS			AVAIL. FAULT CURRENT:	EXISTING		
	11/30/2020								В	US RATING:	200	AMPS			SHORT CIRCUIT RATING:	EXISTING				
MPS/ POLES	WIRE & CONDUIT	TYPE		DESCRIPTION	4	KVA	CKT	А		В	СКТ	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMPS POLES				
				SPACE			1	7.06			2	7.06	(3)#1AWG, (1)#6 GRN, 2"C	EQ	6160 ENCLOSURE	125/2				
				SPACE			3			7.06	4	7.06		EQ		-				
				SPACE			5				6	0.00	EMPTY							
20/1	EXISTING	R		GFI		0.50	7			3.70	8	3.20	RBS 6201 ODE	EQ	EXISTING	100/2				
30/2	EXISTING	E	SU	RGE PROTECT	FOR	0.10	9	3.30			10	3.20		EQ.	-	-				
-		E	l			0.10 PHASE	11	10.4		10.9	12 KVA	0.00								
						PHASE	IOIAL	10.4		10.9] KVA		TOTAL CONNECTE	DIOAD	21.2 kVA	88 A				
													TO TALL CONTROLL TO	DEGNO	ZI.Z KVA	007				
													TOTAL DEMAN	ID LOAD	21.3 kVA	89 A				
LOAD	DESCRIPTION	CONN.	LOAD	DEMAND	DESIGN	LOAD														
TYPE	DESCRIPTION	KVA	AMPS	FACTOR	KVA	AMPS														
L	LIGHTING	0.0	0.0	1.25	0.0	0.0							NOTES:							
R	RECEPTACLE	0.5	2.1	NEC	0.5	2.1														
	MOTOR	0.0	0.0	NEC	0.0	0.0														
M	HEATING	0.0	0.0	1.00	0.0	0.0														
																1				
Н	HVAC	0.0	0.0	1.00	0.0	0.0														
H AC		0.0 20.5	0.0 85.5		20.5	85.5														

DO NOT EDIT LINE VOLTAGE 480/277 24





ONE-LINE DIAGRAM
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.

T - Mobile-



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



LOCATION:

1275 NC HWY-55 COATS, NC 27521

SBA

NC02083-B

COATS

T-MOBILE:

5RA0169A COATS

SITE TYPE:

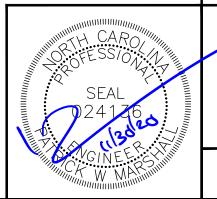
225' MONOPOLE

REV DATE DESCRIPTION 0 11/30/2020 FOR CONSTRUCTION			
0 11/30/2020 FOR CONSTRUCTION	REV	DATE	DESCRIPTION
	0	11/30/2020	FOR CONSTRUCTION
SITE COORDINATES	SI	TE COORDI	INATES

LAT: 35.396714 LONG: -78.668261

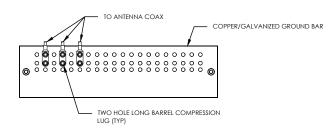
DRAWN: INS CHECKED: PWM

JOB#: 20ASBTMMNC-0072

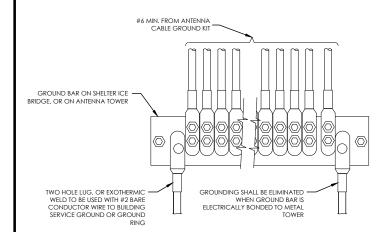


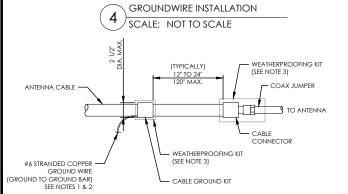
ELECTRICAL DETAILS

E-2



- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER, MOUNT DIRECTLY TO TOWER STEEL.
- ANTENNA GROUND BAR DETAIL SCALE: NOT TO SCALE

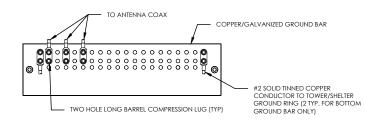




- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE

- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

CABLE GROUND KIT CONNECTION 6) SCALE: NOT TO SCALE



- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE RESISTANT BOLT SEE NOTE 2. WALL BRACKET 0 0 UNIVERSAL COPPER GROUND BAR (4"x20")

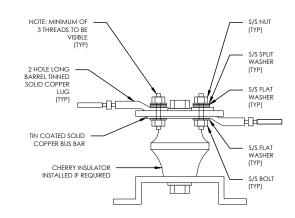
LOCK WASHER P/N M10 (TYP)

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE <u>NOT</u> TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STELL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

TW0-HOLF COMPRESSION LUG

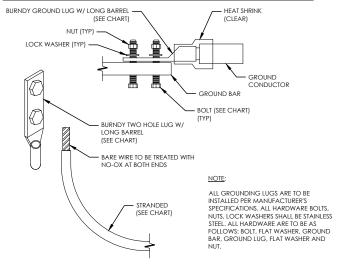
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

GROUND BAR DETAIL SCALE: NOT TO SCALE

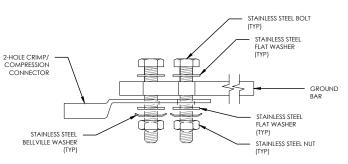


LUG DETAIL SCALE: NOT TO SCALE

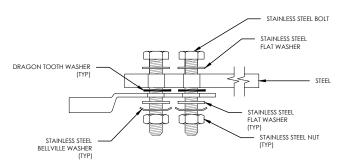




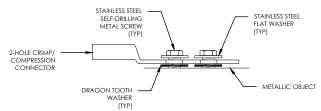
MECHANICAL LUG CONNECTION SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

HARDWARE DETAIL FOR EXTERIOR CONNECTIONS SCALE: NOT TO SCALE





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



LOCATION:

1275 NC HWY-55 **COATS, NC 27521**

NC02083-B

COATS

T-MOBILE

5RA0169A COATS

SITE TYPE:

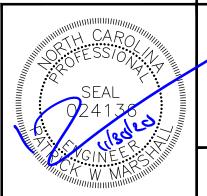
225' MONOPOLE

REV	DATE	DESCRIPTION
0	11/30/2020	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.396714 LONG: -78.668261

DRAWN: INS CHECKED: PWM

20ASBTMMNC-0072



GROUNDING DETAILS

E-3