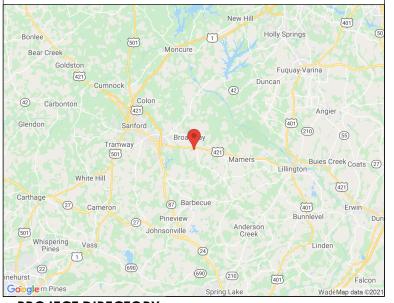
LOCATION MAP





By contenad Naber 5 Blood 1860-62/20/2021

SITE NUMBER: 5RA0319A
DESCRIPTION: 67D5A998E ODE + 6160

PROPOSED WORK WILL CONSIST OF PREPARATION AND INSTALLATION OF

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

LIMITED TO; ANTENNA SWAP & INSTALL, MOUNT WORK, COAX REMOVAL,

WITHIN PROPOSED UTILITY EASEMENT. WORK WILL INCLUDE, BUT NOT

CELLULAR COMMUNICATION CARRIER EQUIPMENT, WHERE ALL WORK

SHALL BE CONTAINED WITHIN COMPOUND & SHALL NOT ADVERSELY

IMPACT THE SURROUNDING ADJACENT PARCELS. NO GRADING IS

SITE NAME: SBA/BROADWAY CO

ANCHOR

220 RAD CENTER

PROJECT DIRECTORY

PROPERTY OWNER: LARRY STEVE WOMACK 106 JR LANE

BROADWAY, NC 27505

APPLICATION: MACKENZIE CLIFFORD

> 704-527-0003 x 2106 MCLIFFORD@sba.com SBA COMMUNICATIONS **CORPORATION**

9125-A SOUTHERN PINE BOULEVARD

CHARLOTTE, NC 28279

ENGINEERING: P. MARSHALL & ASSOCIATES

> 3545 WHITEHALL PARK DRIVE SUITE 450 CHARLOTTE, NORTH CAROLINA 28273

TREVOR MCALLISTER

tmcallister@pmass.com 478-542-3291

CODES

INSTALLATION.

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

-PROJECT SUMMARY -

SCOPE OF WORK

- 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: 116__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

CONDITIONS FLOOD HAZARD AREAS, AS SHOWN PER FIRM PANEL: 3710968000J. DATED: 10/03/2006.

106 J R LANE

SBA NUMBER:

TOWER:

COMPANY: SBA CARRIER: T-MOBILE

-79.04269444 (-079° 02' 33.69") SITE LONGITUDE (NAD83):

-SITE SUMMARY -

BROADWAY, NC 27505

BROADWAY

SELF-SUPPORT

UTILITIES: POWER COMPANY: DUKE

JURISDICTION:

PARCEL #:

ACREAGE:

(E) IMPERVIOUS:

(P) IMPERVIOUS:

COMPOUND SIZE:

ZONING:

TELCO COMPANY: ALLTEL

HARNETT

RA-20R

139680 0042 01

6,460

0 SQFT.

1.95 ACRES

±6,460 SQFT.

-SHEET INDEX

T-1	TITLE SHEET
T-1A	APPENDIX B
T-1B	APPENDIX B
T-1C	APPENDIX B
C-1	SITE PLAN
C-2	EQUIPMENT PLAN
C-3	TOWER ELEVATION
C-4	ANTENNA ORIENTATION & CABLE SCHEDULE
C-5	PLUMBING DIAGRAM
C-6	CABINET SPECS
C-7	ANTENNA SPECS
C-8	PAD EXPANSION DETAILS
C-9	EQUIPMENT DETAILS
C-10	ICEBRIDGE DETAILS
E-1	ELECTRICAL DETAILS

GROUNDING DETAILS



T - Mobile

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

106 J R LANE

BROADWAY, NC 27505

BROADWAY

NC01660-B

SBA/BROADWAY CO

5RA0319A

250' SELF-SUPPORT

T-MOBILE ANCHOR

DESCRIPTION

FOR CONSTRUCTION

CX REV. 1

LOCATION:

SITE TYPE:

DATE

12/2/21

12/8/21

TITLE SHEET & **PROJECT INFORMATION**

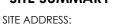
T-1

CALL BEFORE YOU DIG



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





NC01660-B SBA NAME:

TENANT ID/NAME: 5RA0319A

SITE LATITUDE(NAD83): 35.43419444 (35° 26' 03.09" N)

GND ELEVATION (NAVD88): 455' TOWER HEIGHT (AGL.)

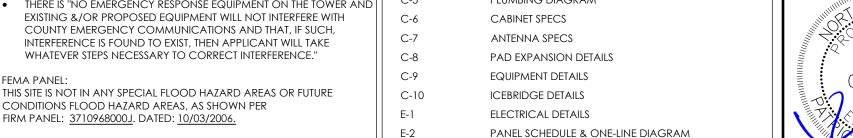


DRAWN: RSW CHECKED: PWM

21SBATNCM-0082

SITE COORDINATES LAT: 35.43419444

LONG: -79.04269444



G-1

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: SBA/BROADWAY CO -5RA0319A						
106 J R LANE Address: BROADWAY, NC 27505 Zip Code						
	n@shasite.co					
	D@SDASILE.CC					
Owned By: City/County Private State						
Code Enforcement Jurisdiction: City \omega County HARNET \omega State						
CONTACT:						
DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL	-					
Architectural ()						
Civil P. MARSHALL & ASSOCIATES PATRICK MARSHALL 024136 (678) 280-2325						
Electrical ()						
Fire Alarm ()						
Plumbing ()						
Mechanical						
Sprinkler-Standpipe ()Structural						
Retaining Walls >5' High ()						
Other ()						
("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.						
2018 NC BUILDING CODE: ☐ New Building ☐ Shell/Core ☐ 1st Time Interior Comp	letions					
☐ Addition ☐ Phased Construction – Shell Core						
2018 NC EXISTING BUILDING CODE: Prescriptive Alteration Level I Historic I						
(check all that apply) Repair Alteration Level II Change o	fUse					
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 & MISC. Proposed: UTILITY & MISC.						
Troposed						
BASIC BUILDING DATA						
Construction Type:						
(check all that apply)						
Sprinklers: No □ Partial □ NFPA 13 □ NFPA 13R □ NFPA 13D						
Standpipes: No Class I I II Wet Dry						
Primary Fire District: No Yes Flood Hazard Area: No Yes						
· · ·						
Special Inspections Required:						
GROSS BUILDING AREA TABLE						
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL						
3 rd Floor						
2 nd Floor						
Mezzanine						
1 st Floor						

		ALLO	OWABLE ARI	EA		
Primary Oc	cupancy Classificati	on(s):				
Assemble Business Education	· 🗆	☐ A-2	□ A	-3] A-4	☐ A-5
Factory Hazardo Institutio I-	F-1 Modus H-1 Deto			3 Combust	H-4 Health I-4	□ Н-5 НРМ
I-	3 Condition 1	$\frac{1}{2}$ $\frac{2}{3}$	□ 4 □ 5			
Mercant Resident Storage	ial R-1 S-1 Mod	R-2 lerate Garage Open	S-2 Low Enclosed	-3 [[R-4 High-piled Repair Garag	ge
•	ccupancy Classifica	_				
•	ses (Table 509):					
	separation is not exer	npt as a Non-Sepa	rate/	-s).		
	(Chapter 4 – List C	Code Sections):	~ P	-)-		
	risions: (Chapter 5 –	- List Code	\bigcirc			
-	pancy: Select one	Ser N	$\mathcal{O}_{\mathcal{A}}$) —		
	ctual Area of Occ wable Area c	MBUI	ON of O	Occupancy B Occupancy B +	≤1 =	≤ 1.00
STORY NO.	DESCRIPTION AND USE	(A) SLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTA INCREASE ^{1,5}	AGE ALLOWAB	(D) ELE AREA PER UNLIMITED ^{2,3}
1 Frontage or	ea increases from Sec	otion 506 2 are cor	nnutad thus:			
a. Peri b. Tota c. Rati d. W =	meter which fronts a al Building Perimeter o (F/P) = Minimum width of area applicable under	public way or ope (F/P) public way =	n space having (P) (W)	20 feet minimum	width =	(F)
 Maximum I The maxim control town 	Building Area = total um area of open park vers must comply wit	number of stories ing garages must on h Table 412.3.1.	in the building comply with Tal	ole 406.5.4. The		
5	crease is based on the	uncerialdered ore	o realiza in Table	506.2		

T - Mobile



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

SBA

BROADWAY NC01660-B

T-MOBILE:

SBA/BROADWAY CO 5RA0319A

SITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082

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

	SEPARATION DISTANCE	REQ'D	PROVIDED (W/*	DETAIL # AND SHEET #	DESIGN# FOR RATED	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS
Structural Frame,							
including columns, girders,							
trusses							
Bearing Walls							
Exterior				<u> </u>	_		
North				ļ	_		
East				_			
West				· 1			
South			ַ ~`\	\			
Interior			' 、 ()	` _			
Nonbearing Walls and Partitions			MOI	\mathcal{A})		
Exterior walls		· /	, ,	\sim			
North	•	1 r	, \sim	\	1		
East	- <i>~</i>	١,	\cdot	` -			
West	1-	•	111/	. —			
South	•	\sim	110				
Interior walls and partitions		Y 5'	<i></i>				
Floor Construction			-				
Including supporting beams			1				
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							
James Entertodures - Ottler							
Corridor Separation							
Occupancy/Fire Barrier Separation	on						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

ACCESSIBLE DWELLING UNITS

TOTAL	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

ACCESSIBLE PARKING (SECTION 1106)

Ţ	SE	P .		_ /) ,5		LAVATORIE	S	SHOWERS	DRINKING	FOUNTAINS
		MALE				MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D										

SPECIAL APPROVALS

 $\textbf{Special approval:} \ (Local \ Jurisdiction, Department \ of \ Insurance, OSC, DPI, DHHS, etc., describe \ below)$

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

Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems:	☐ Yes ☐ Yes ☐ Yes ☐ Yes	☐ No ☐ No
Smoke Detection Systems: Carbon Monoxide Detection:	Yes Yes	
		_

Life Safety Plan Sheet #:	N
☐ Fire and/or smoke rated wall locations (Chapter 7)	~
☐ Assumed and real property line locations (if no*	•
☐ Exterior wall opening area with respect to	

xit door can accommodate based on egress width (1005.3)

re fire rated floor/ceiling and/or roof structure is provided for

LIFE SAFETY PLAN REQUIREM

 □ Exterior wall opening area Occupancy Use for each area as it re Occupant loads for each area □ Exit access travel distance Common path of trav Dead end lengths (

☐ Clear exit widths for . ☐ Maximum calculated oc Actual occupant load for c

Life Safety Plan Sheet #:

A separate schematic plan in

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 asso

Exterior Walls (each assembly) Description of assembly:

U-Value of total assemble R-Value of insulation

Walls below grade Description 6. U-Value of tota

R-Value of insul. Floors over unconditioned space (each assembly) Description of assembly:

R-Value of insulation:

Floors slab on grade

Description of assembly: R-Value of insulation:

Horizontal/vertical requirement: slab heated:

T - Mobile-



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

BROADWAY NC01660-B

SBA/BROADWAY CO 5RA0319A

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082

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:	on sheet for 2 of the stroctoral sheets,
Importance Factors:	Wind (I _W) Snow (I _S) Seismic (I _E)
Live Loads:	Roof psf Mezzanine pef Floor
Ground Snow Load:	psf
	sic Wind ° C D
SEISMIC DESIGN CATE	\mathcal{M}'' \square B \square C \square D
Provide the following Seisn	, \sim ///
Occupancy Categor	
Spectral Response A	s%g S ₁ %g
Site Classification (ASC	\square A \square B \square C \square D \square E \square F
	arce: Field Test Presumptive Historical Data
Basic structural system	(check one)
☐ Bearing Wall	Dual w/Special Moment Frame
☐ Building Fra	
☐ Moment Fran	
Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanic	cal, Components anchored? Yes No
LATERAL DESIGN CONTROL	L: Earthquake Wind
SOIL BEARING CAPACITIES	:
Field Test (provide copy	of test report) psf
Presumptive Bearing cap	acity psf
Pile size, type, and capaci	tty

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

Therma	Lone					
	winter dry b	ulb:				
	summer dry	bulb:				
Interior	design cond	litions		•	$ \sqrt{} $	P
		bulb:		N	\smile	(1
		nidity:		1	1,	70
			- 、1	r .	\mathcal{O}''	\
Building	heating loa	ıd:	171	111	V	
			•	'''	_	
Building	cooling loa	d:	` '	BUII		
	, 5	d: g Conditionì		BU!!		
	, 5			BUI		
	ical Spacing Unitary			BO.,		
	ical Spacing Unitary descripti	Conditioni		₽ <i>O</i> ,,		
	ical Spacing Unitary descripti heating 6	Conditioni on of unit:		<i></i> <i>B∩,,</i>		
	ical Spacing Unitary descripti heating e	conditionic on of unit: efficiency: efficiency:		= B0,,		
	ical Spacing Unitary descripti heating e	conditionics on of unit:				
	ical Spacing Unitary descripti heating e cooling e size cate Boiler	on of unit: efficiency: efficiency: gory of unit:				
	ical Spacing Unitary descripti heating e cooling e size cate Boiler	conditionic on of unit: efficiency: efficiency:				

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

lamp type required in fixture number of lamps in fixture ballast type used in the fixtr number of ballasts in fruttal wattage per fir total interior wattage total exterior wattage

.e building or space by space)

Additional Prescriptive Complia.

T - Mobile



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

SBA:

BROADWAY NC01660-B

Γ-MOBILE:

SBA/BROADWAY CO 5RA0319A

SITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

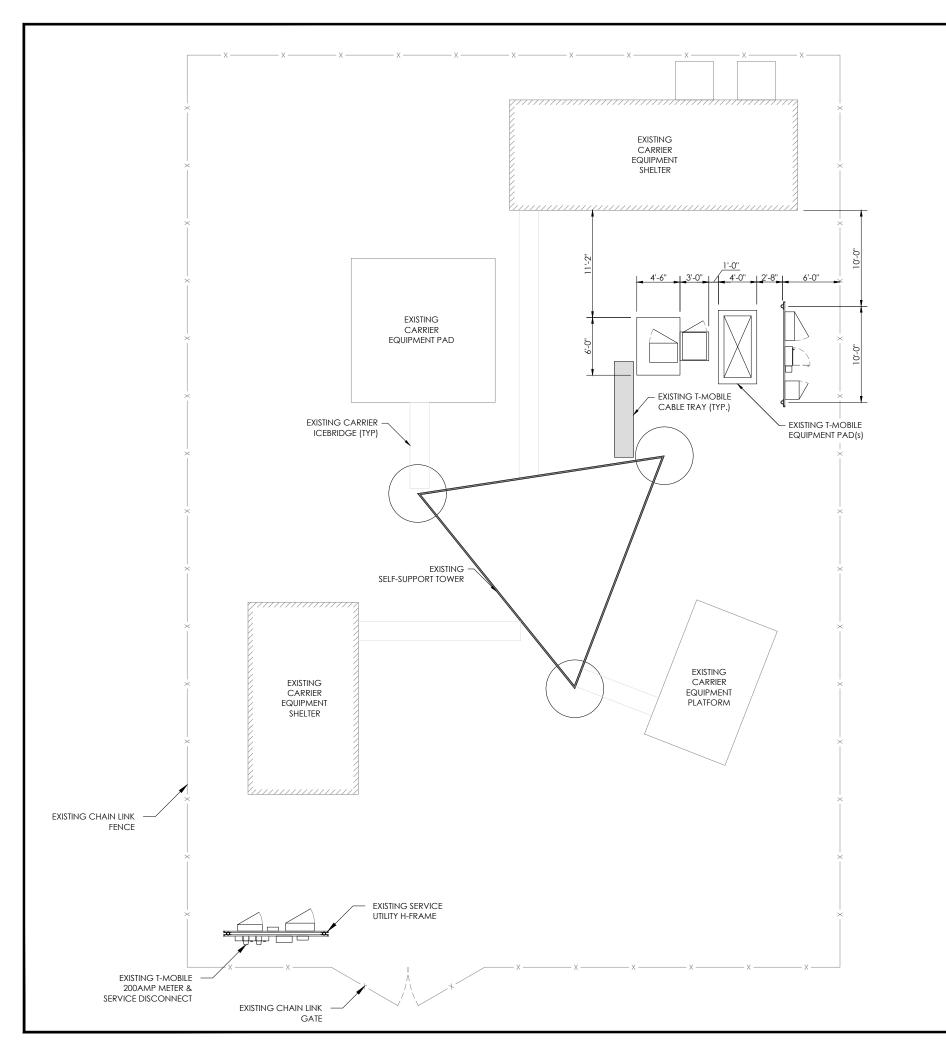
SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082

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.
- S. 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.
- . 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:

106 J R LANE BROADWAY, NC 27505

BA:

BROADWAY NC01660-B

Γ-MOBILE:

SBA/BROADWAY CO 5RA0319A

E TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES

LAT: 35.43419444

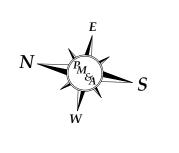
LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082

-NORTH ARROW-

-GRAPHIC SCALE

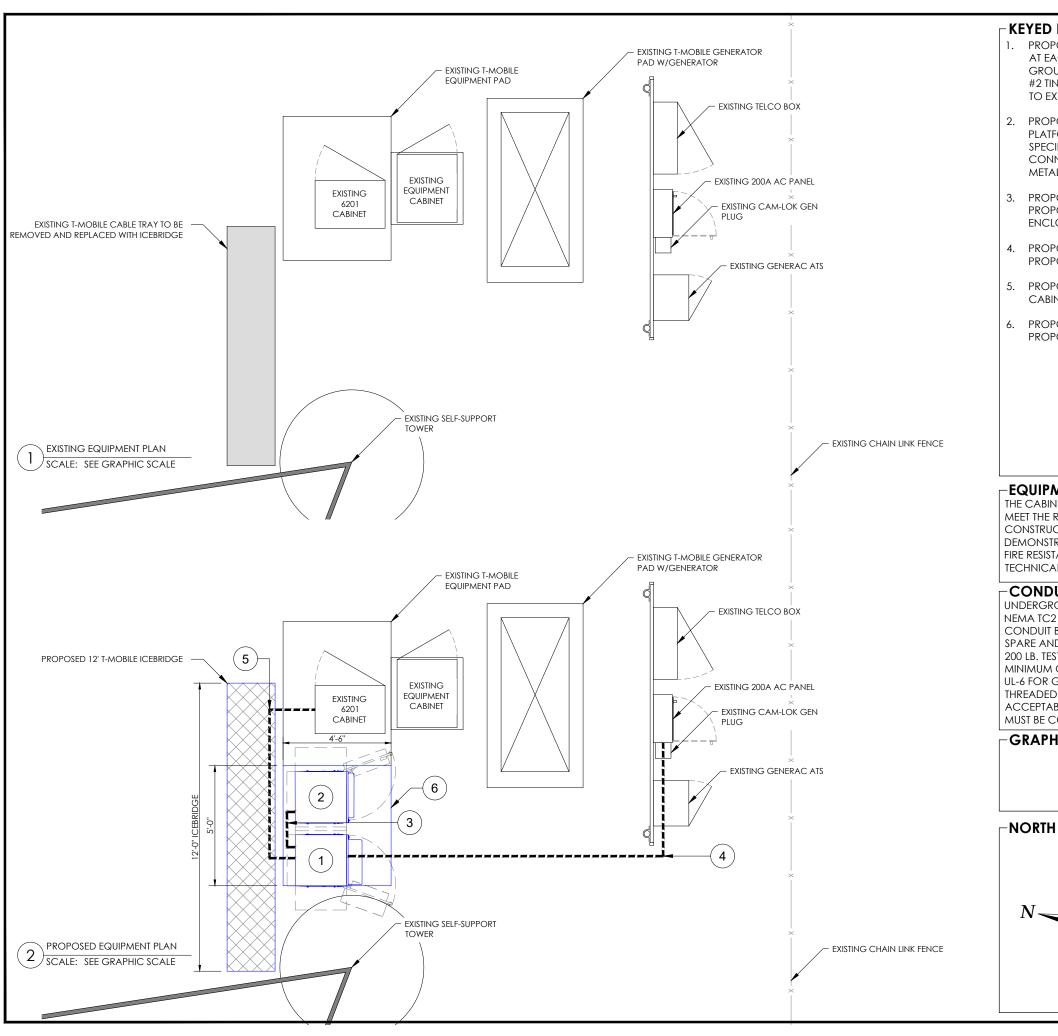




1"=5'-0" (FULL SIZE)

1"=10'-0" (11x17)

SITE PLAN



KEYED 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 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)
- PROPOSED (2) 2" RIGID CONDUIT WITH PULLSTRINGS FROM PROPOSED ENCLOSURE 6160 CABINET TO PROPOSED ENCLOSURE B160 BATTERY CABINET.
- 4. PROPOSED (1) 2" NONFLEX CONDUIT FROM EXISTING PPC TO PROPOSED ENCLOSURE 6160 CABINET.
- 5. PROPOSED (2) 2" NONFLEX CONDUITS FROM PROPOSED 6160 CABINET TO EXISTING 6201 CABINET.
- PROPOSED 4'-6" X 5'-0" CONCRETE PAD EXPANSION FOR PROPOSED EQUIPMENT CABINETS.

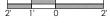
-EQUIPMENT NOTE-

THE CABINETS ARE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS TO MEET THE REQUIREMENTS OF THE CURRENT NFPA 37 EDITION 2018. CABINET CONSTRUCTION THAT PASSED A SIMULATED BRUSH FIRE TEST TO DEMONSTRATE COMPLIANCE TO TELCORDIA GR-487-CORE SECTION 3.39 FIRE RESISTANCE REQUIREMENT R3-265. REFER TO THE NATIONAL TECHNICAL SYSTEMS (NTS) REPORT NO. PR067628-GR487.

-CONDUIT NOTE

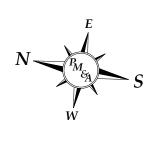
UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT (MEET NEMA TC2 - 1990). EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT BEFORE RISING ABOVE GRADE. PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS 200 LB. TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 24" RADIUS. RGS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. LIQUIDTIGHT FLEX METAL CONDUIT (LFMC) IS ACCEPTABLE ABOVE GRADE, AS REQUIRED AND NECESSARY. CONDUITS MUST BE CONTINUOUS THROUGH THE STUB-UP AREA.

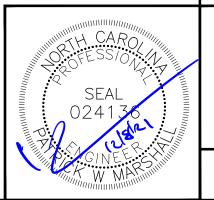
GRAPHIC SCALE



1"=2'-0" (FULL SIZE) 1"=4'-0" (11x17)

-NORTH ARROW-





T - Mobile-



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



106 J R LANE BROADWAY, NC 27505

BROADWAY NC01660-B

SBA/BROADWAY CO 5RA0319A

250' SELF-SUPPORT T-MOBILE ANCHOR

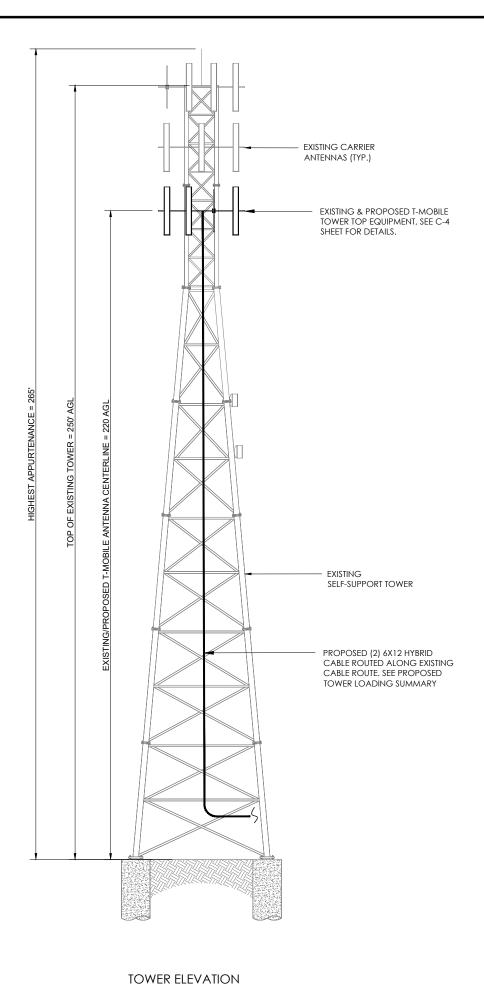
ΕV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

21SBATNCM-0082

EQUIPMENT PLAN



NOT TO SCALE

-GENERAL NOTES -

- REFER TO TOWER STRUCTURAL ANALYSIS 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 CONSTRUCTION. NOTIFY THE ENGINEER 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.
- 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 SUBSTITUTED.
- CONTRACTOR TO REFER TO THE MOUNT ANALYSIS FOR THIS

FINISH NOTES:

TOWER-**GALVANIZED** TOWER MOUNTS-GALVANIZED

ANTENNA-NEUTRAL (MANUFACTURER FINISH)

FOUNDATIONS-UNPAINTED CONCRETE

ICE BRIDGE-GALVANIZED

CABLES-**BLACK**

BASE CABINETS/EQUIPMENT-NEUTRAL (MANUFACTURER FINISH)

TOWER LOADING SUMMARY

EXISTING	REMOVE	EQUIPMENT	ADD	TOTAL
6	3	ANTENNA	6	9
3	3	TMA	0	0
3	0	RADIOS	3	6
0	0	COAX	0	0
1	0	HYBRIDS	2	3





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



LOCATION:

106 J R LANE BROADWAY, NC 27505

BROADWAY NC01660-B

SBA/BROADWAY CO 5RA0319A

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION			
0	12/2/21	FOR CONSTRUCTION			
1	12/8/21	CX REV. 1			
SI	SITE COORDINATES				
LAT: 35.43419444					
LC	LONG: -79.04269444				

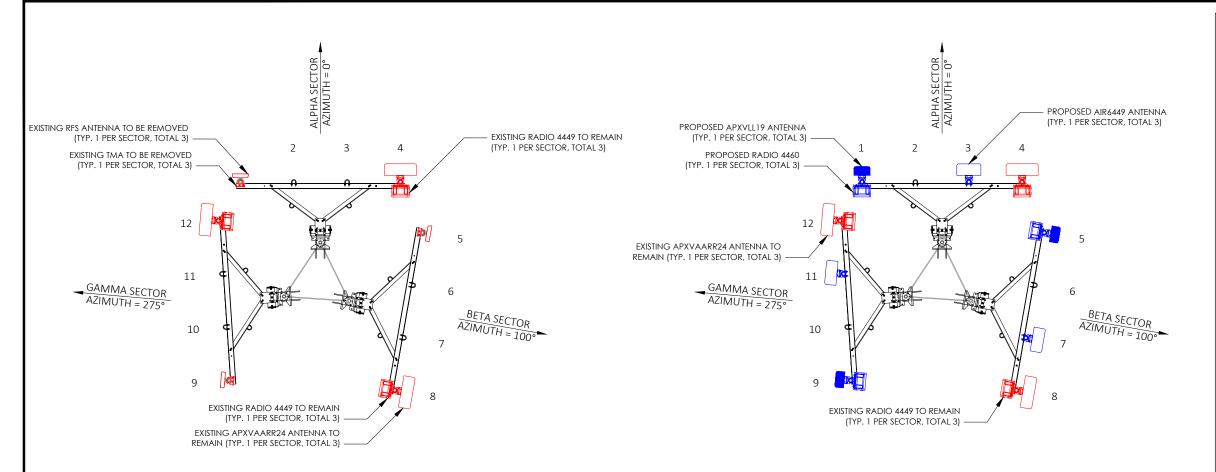
LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

21SBATNCM-0082



TOWER ELEVATION







SECTOR	MARK	AZIMUTH	ANTENNA MODEL	RADIO MODEL	CABLE DESCRIPTION
ALPHA	1	0°	RFS - APXVLL19P_43-C-A20 (QUAD) (P)	(1) RADIO 4460 B25+B66 (P)	(1) ERICSSON 6x12 HCS 6AWG 80M (262') (E
ALPHA	2	-	-	-	
ALPHA	3	0°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	
ALPHA	4	0°	RFS - APXVAALL24_43-U-NA20 (OCTO) (E)	(1) RADIO 4449 B71+B85 (E)	
BETA	5	100°	RFS - APXVLL19P_43-C-A20 (QUAD) (P)	(1) RADIO 4460 B25+B66 (P)	(1) ERICSSON 6x12 HCS 4AWG 80M (262') (F
ВЕТА	6	-		-	-
BETA	7	100°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-
BETA	8	100°	RFS - APXVAALL24_43-U-NA20 (OCTO) (E)	(1) RADIO 4449 B71+B85 (E)	-
GAMMA	9	275°	RFS - APXVLL19P_43-C-A20 (QUAD) (P)	(1) RADIO 4460 B25+B66 (P)	(1) ERICSSON 6x12 HCS 4AWG 80M (262') (F
GAMMA	10	-	•	-	-
GAMMA	11	275°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-
GAMMA	12	275°	RFS - APXVAALL24 43-U-NA20 (OCTO) (E)	(1) RADIO 4449 B71+B85 (E)	_

-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)
- 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:

106 J R LANE BROADWAY, NC 27505

BA:

BROADWAY NC01660-B

-MOBILE:

SBA/BROADWAY CO 5RA0319A

ITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

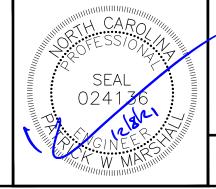
REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1
		The state of the s

SITE COORDINATES
LAT: 35.43419444

LONG: -79.04269444

DRAWN: RSW
CHECKED: PWM

JOB#: 21SBATNCM-0082



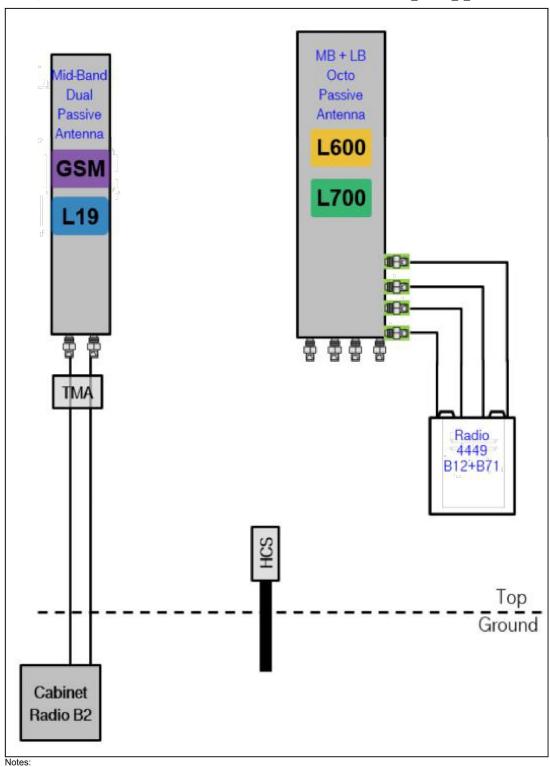
ANTENNA ORIENTATION & CABLE SCHEDULE

PROPOSED RF CONFIGURATION: 67D5A998E ODE + 6160

9/17/21, 3:29 PM

RFDS PLUMBING DIAGRAM SCALE: NOT TO SCALE

5RA0319A Anchor 6 2021-09-17



Coax Color Coding

 Antennas will be labeled (back of antenna view) Right to left 1 - X ports Coax/Jumper lines will be identified by sector color and by number of

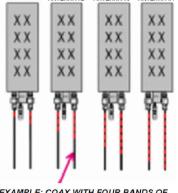
SECTOR A	RED
SECTOR B	GREEN
SECTOR C	BLUE
SECTOR D	YELLOW
SECTOR E	WHITE
SECTOR F	PURPLE
LMU	BROWN + SECTOR COLOR BANDS (1 & 2)
FIBER ID	GRAY
UNUSED COAX	PINK
MICROWAVE	ORANGE
DWE T-1'S + GPS DOWNLINK CABLE	ID W/LABEL MAKER

METALLIC TAG NOTES: COLOR CODING NOTES: TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN (3) THREE FEET LOBLE LESS THAN (3) THREE FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE color GSM color UMTS 1900 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. color UMTS AWS color LTE color FIBER CABLE

TAG #1 TAG #2



FRONT OF THE ANTENNA



EXAMPLE: COAX WITH FOUR BANDS OF RED TAPE WILL REPRESENT ALPHA SECTOR AND THE 4TH PORT OF ANTENNA

ANTENNA AND COAXIAL CABLE SCHEDULE

CABLE SCHEDULE

ALL ANTENNAS SHALL BE FURNISHED WITH
DOWNTILT BRACKETS.
CONTRACTOR SHALL COORDINATE
REQUIRED MECHANICAL DOWNTILT FOR
EACH ANTENNA WITH RE REGINEER.
ANTENNA 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
STENICIL TAG. COLOR TAPE MAY BE
OBTAINED FROM GRAYBAR ELECTRONICS.

COAX COLOR CODING (2) SCALE: NOT TO SCALE

T - Mobile-



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

BROADWAY NC01660-B

T-MOBILE:

SBA/BROADWAY CO 5RA0319A

250' SELF-SUPPORT T-MORILE ANCHOR

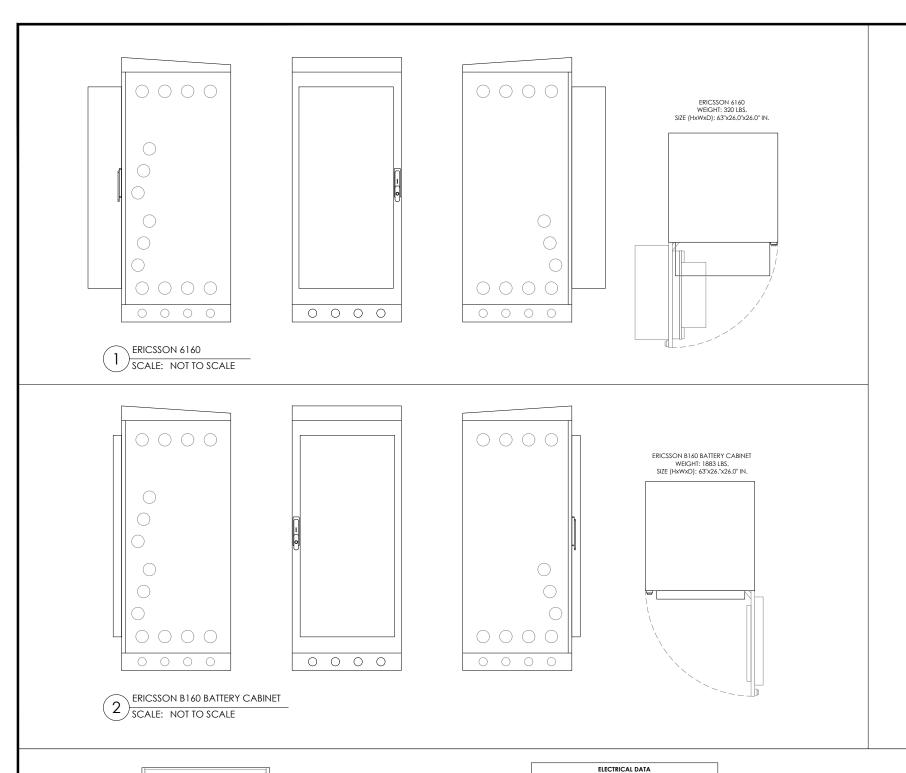
	1-MOBILE ANCHOR				
REV	DATE	DESCRIPTION			
0	12/2/21	FOR CONSTRUCTION			
1	12/8/21	CX REV. 1			

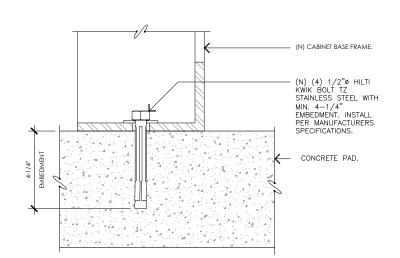
SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082

PLUMBING DIAGRAM





CABINET ANCHORAGE DETAIL SCALE: NOT TO SCALE

T - Mobile-



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

BROADWAY NC01660-B

SBA/BROADWAY CO 5RA0319A

SITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
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SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW

JOB#: 21SBATNCM-0082

CHECKED: PWM

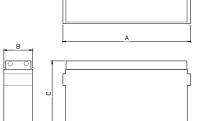
BATTERY CABINET NOTE

THE BATTERIES INSTALLED IN THE CABINET ARE VALVE REGULATED LEAD-ACID (VRLA) CELLS BATTERY STRINGS; NORTHSTAR NSB 190FT RED. ALL NORTHSTAR BATTERIES ARE COMPLIANT WITH: TELCORDIA SR4228, IEC 60896; BELLCORE GR-63-CORE, ISSUE 1; UL APPROVED AND UN2800 CERTIFIED. NORTHSTAR IS REGISTERED TO ISO 9001 AND ISO 14001. ERICSSON CABINET PROVIDES REQUIRED VENTILATION, SMOKE, SEISMIC & ADDITIONAL SIGNAGE TO MEET ALL IFC SECTION 608 REQUIREMENTS.



CABINET SPECS

C-6



CONSTANT VOLTAGE CHARGING IS RECOMMENDED RECOMMENDED FLOAT VOLTAGE: 2.27 +/- 0.02 VPC

	SPECIFICATIONS										
ope	VOLTAGE	CAPAC	CAPACITY (AH) NOMINAL DIMENSIONS				NOMINAL WEIGHT				
MODEL NUMBER		8 HR TO 1.75 VPC 10 HR TO 1.8 VPC @ 25° @ 25°	INCHES			MILLIMETERS					
			Α	В	С	Α	В	С	LBS	Kg	
NSB 190FT RED BATTERY	12	183 / 186 AH	187 / 190 AH	22.0	4.9	12.6	560	125	320	124.3	56.3

NORTHSTAR - NSB 190FT RED BATTERY (3) SCALE: NOT TO SCALE

BATTERY STORAGE SYSTEM THRESHOLD QTY'S					
CATTER	RY TECHNO	DLOGY	CA	PACITY ALL	.OWED
LEAD .	ACID, ALL	TYPES	70 kW	'h (252 MEG	(AJOULES
AH = VOLTAGE (AH)/1000					
VOLTS	АН		kWh	NO. OF BATTERIES	TOTAL kWh
12	190	1000	2.28	12	27.36
CONCLUSIONS:					
27.36 < 70 kWh SECTION 1206.2 DOES NOT APPLY					
TOTAL BATTERY WEIGHT (12 BATTERIES): 1,491.6 LBS					
TOTAL GALLONS - ELECTROLYTE & ACID (12 BATTERIES): 33.36					

CURREN

STATIONARY STORAGE BATTERY SYSTEMS HAVING CAPACITIES

2.8

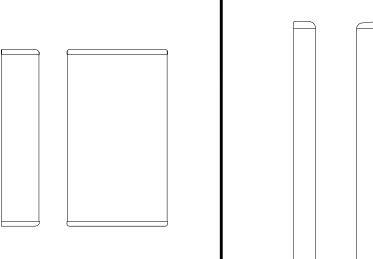
NSB 190FT RED BATTERY 5000 A

ELECTRICAL ENERGY STORAGE SYSTEM

CHAPTER 12. SECTION 1206

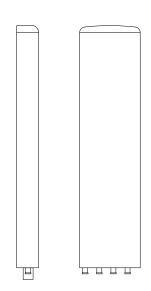
1206.2 SCOPE:

NSB 190FT RED BA	TTERY LEAD &	ACID WEIGHTS (12-	VOLT MODULE)
	WEIGHT	/KG	10.5
ELECTROLYTE	WEIGHT	/LBS	23.2
ELECTROLTIE	VOLUME	/LITERS	7.8
	VOLUME	/GALLONS	2.08
ACID	WEIGHT	/KG	4.8
	WEIGHT	/LBS	10.5
	VOLUME	/LITERS	2.6
		/GALLONS	0.7
LEAD	WEIGHT	/KG	17.9
LEAD		/LBS	39.4
LEAD OXIDE	VOLUME	/KG	23.3
		/LBS	51.2
TOTAL WEIGHT	WEIGHT	/KG	56.3
	WEIGHT	/LBS	124.3



ERICSSON - AIR6449 B41				
WEIGHT (W/O MOUNTING HARDWARE)	104.0 LBS			
SIZE (H x W x D)	33.1 x 20.6 x 8.60 IN.			
MOUNTING HARDWARE P/N	TBD			
RATED WIND VELOCITY	TBD			

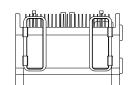
ERICSSON - AIR6449 B41 SCALE: NOT TO SCALE

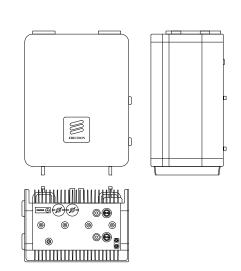


RFS - APXVLL19P_43-C-A20				
WEIGHT (W/O MOUNTING HARDWARE)	40.9 LBS			
SIZE (H x W x D)	75.8 x 11.3 x 4.6 IN.			
MOUNTING HARDWARE P/N	TBD			
RATED WIND VELOCITY	150 MPH			

APXVLL19P_43-C-A20 SCALE: NOT TO SCALE

ERICSSON - RADIO 4460			
WEIGHT (W/O MOUNTING HARDWARE)	109.0 LBS		
SIZE (H x W x D)	17.0 x 15.1 x 11.9 IN.		





ERICSSON RADIO 4460 3 SCALE: NOT TO SCALE

NOT USED (4) SCALE: NOT TO SCALE T - Mobile



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

BROADWAY NC01660-B

T-MOBILE:

SBA/BROADWAY CO 5RA0319A

SITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1
CI	TE 6000	

SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082

ANTENNA SPECS

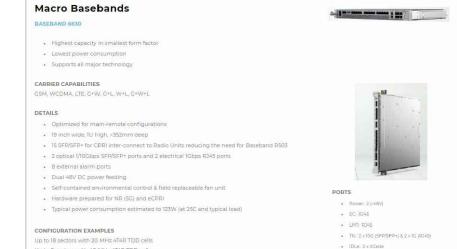
C-7



 CPRI: 15 SEP/SEP+ Sync. R345

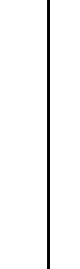
. SAU: 1

Ext. Alarms: 8 (2 x R245)



ERICSSON BB 6630 / BB 6648 SCALE: NOT TO SCALE

Unito 9 sectors with 40 MHz 4T4D TDD cells

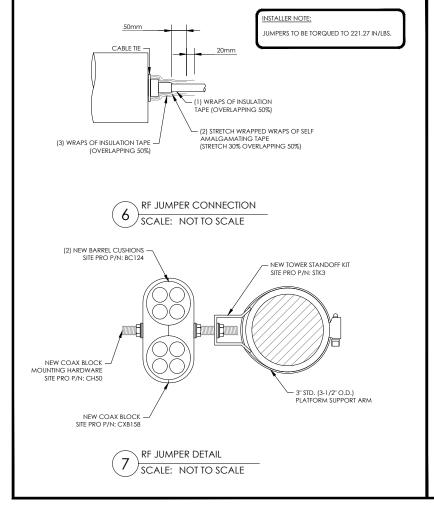


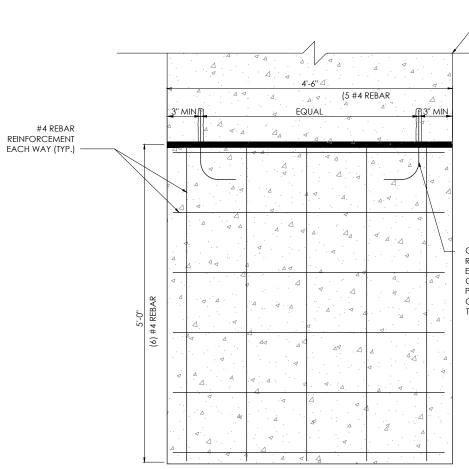
Drop
EMC
Safety
Noise
Lightning Protection
Fuse Options
Mechanical Specification
Weight
Dimensions (H x W x D) < 7.8 kg (17.2 lb) 44 x 483 x 363 mm (1.7" x 19.0" x 14.3") (include brackets, cover) ERICSSON PSU 48 13 VOLTAGE BOOSTER 9 SCALE: NOT TO SCALE

ETS300019-2 ETS300019-2

NOT USED

SCALE: NOT TO SCALE





CONTRACTOR SHALL TIE NEW SLAB TO EXISTING SLAB WITH #4 x 12" LONG REBAR WITH STANDARD HOOK. DRILL INTO EXISTING SLAB WITH 6" MINIMUM EMBEDMENT AND ATTACH WITH HILTI HY150 SYSTEM. PROVIDE A MINIMUM OF 2 TIES PER NEW SLAB OR SPACE AT 3" ON CENTER FOR LARGER SLABS. PROVIDE 3" MIN. EDGE DISTANCE FOR BOTH EXISTING AND NEW SLABS. CENTER REBAR IN THE EXISTING/NEW VERTICAL SLAB EDGE/FACE. CONSULT THE ENGINEER WITH ANY CONFLICTS PRIOR TO CONSTRUCTION. (TYP.).

-EXISTING CONCRETE SLAB

CONTRACTOR TO MATCH DEPTH AND SURFACE OF EXISTING CONCRETE PAD #4 REBAR REINFORCEMENT EACH WAY (TYP.) PROVIDE 3/4" CHAMFER AT ALL EXPOSED EDGES (TYP.) FINISHED GRADE FOUNDATION ASSUMED TO BEAR ON SUBSTANTIALLY CONSOLIDATED SOIL WITH A MINIMUM BEARING CAPACITY OF 1000 PSF. VERIFY PRIOR TO PAD INSTALLATION (TYP.)

- REINFORCED CONCRETE NOTES

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185, IBC 2006.
- PRECAST CONCRETE FOR SLABS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE TESTING IS NOT REQUIRED UNLESS NOTED OTHERWISE OR REQUIRED BY THE JURISDICTION HAVING AUTHORITY.

SLUMP - 4" MIN. / 6" MAX. AIR ENTRAINMENT - 2% TO 3% BY VOLUME

CLASSES OF CONCRETE

CLASS	28 DAY STRENGTH (PSI)	MAX WATER/CEMENT RATIO	PLACEMENT LOCATION	NOTES
TYPE I	3000	0.55	PRECAST SLABS	NORMAL WEIGHT
TYPE III *	5000	0.45	SITE CAST SLABS & POST FOOTINGS	HIGH EARLY

- * IF REQUIRED BY THE CONSTRUCTION SCHEDULE THE CONTRACTOR MAY SUBSTITUTE TYPE III HIGH EARLY STRENGTH CONCRETE WITH THE APPROVAL OF THE CONSTRUCTION MANAGER.
- 3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMSTRENGTH UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES FOR REBAR SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO. LAPS FOR WELDED WIRE FABRIC SHALL BE AT LEAST 8 INCHES, UNO.
- 4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

1/2

- 5. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".
- 6. MAINTAIN THE TEMPERATURE OF CAST IN PLACE CONCRETE AT BETWEEN 50 AND 90 DEGREES FAHRENHEIT. IF COLDER OR HOTTER CONDITIONS EXIST, THE CONCRETE MIX DESIGN SHALL BE ADJUSTED ACCORDINGLY.
- 7. DO NOT USE RETEMPERED CONCRETE.
- 8. INSTALLATION OF CONCRETE ANCHORS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO THE ANCHOR MANUFACTURER'S SPECIFICATIONS FOR MATERIAL STRENGTH, EMBEDMENT DEPTH, SPACING, AND EDGE DISTANCE OR AS DETAILED ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD, HILTI, OR APPROVED EQUAL. IF THE MANUFACTURER'S SPECIFICATIONS AND DETAILS ARE FOUND TO CONFLICT WITH THAT SHOWN HEREIN, THE ENGINEER SHALL BE NOTIFIED
- 9. THE CONTRACTOR SHALL VERIFY FROST LINE AND FOOTING DEPTH REQUIREMENTS WITH THE JURISDICTION HAVING AUTHORITY PRIOR TO CONSTRUCTION.

T - Mobile-



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

BA:

BROADWAY NC01660-B

-MOBILE:

SBA/BROADWAY CO 5RA0319A

SITE TYPE

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
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SITE COORDINATES

LAT: 35.43419444

LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082



PAD EXPANSION DETAILS



MIRAFI 500X GEOFABRIC

CAUTIONARY TAPE

IMPORTED SOIL

COMPACTED SAND BED

- COMPACTED BACKFILL

W/ SATISFACTORY NATIVE OR

UNDERLAYMENT

FINISHED GRADE OR

GROUND COVER

CONDUITS FOR TELEPHONE,

TRENCH DETAIL

2) SCALE: NOT TO SCALE

ELECTRICAL, & SHARING

WHERE APPLICABLE *

UNDISTURBED SOIL

* CONDUIT SIZE, TYPE,

DIMENSION TO BE

UTILITY COMPANY REQUIREMENTS

VERIFIED WITH LOCAL

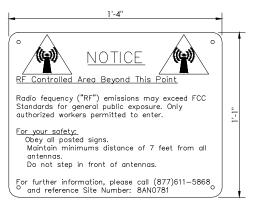
QUANTITY AND SEPARATION

TRENCH

3" (MIN)

(TYP)

6" (MIN) (TYP)



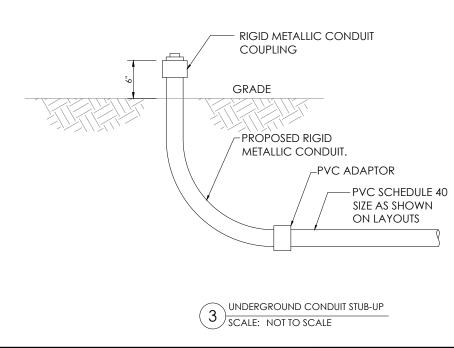
RF NOTICE SIGN (WHITE METAL SIGN W/ BLACK LETTERING)

NOTES:

SIGNS TO BE PROVIDED AND INSTALLED BY CONTRACTOR

- SIGNS TO BE INSTALLED AT ROOFTOP ENTRANCE OR ANY OTHER MANDATED AREA

SIGNAGE DETAILS





T - Mobile

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

106 J R LANE BROADWAY, NC 27505

> **BROADWAY** NC01660-B

SBA/BROADWAY CO

5RA0319A

250' SELF-SUPPORT T-MOBILE ANCHOR

DESCRIPTION

FOR CONSTRUCTION

CX REV. 1

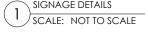
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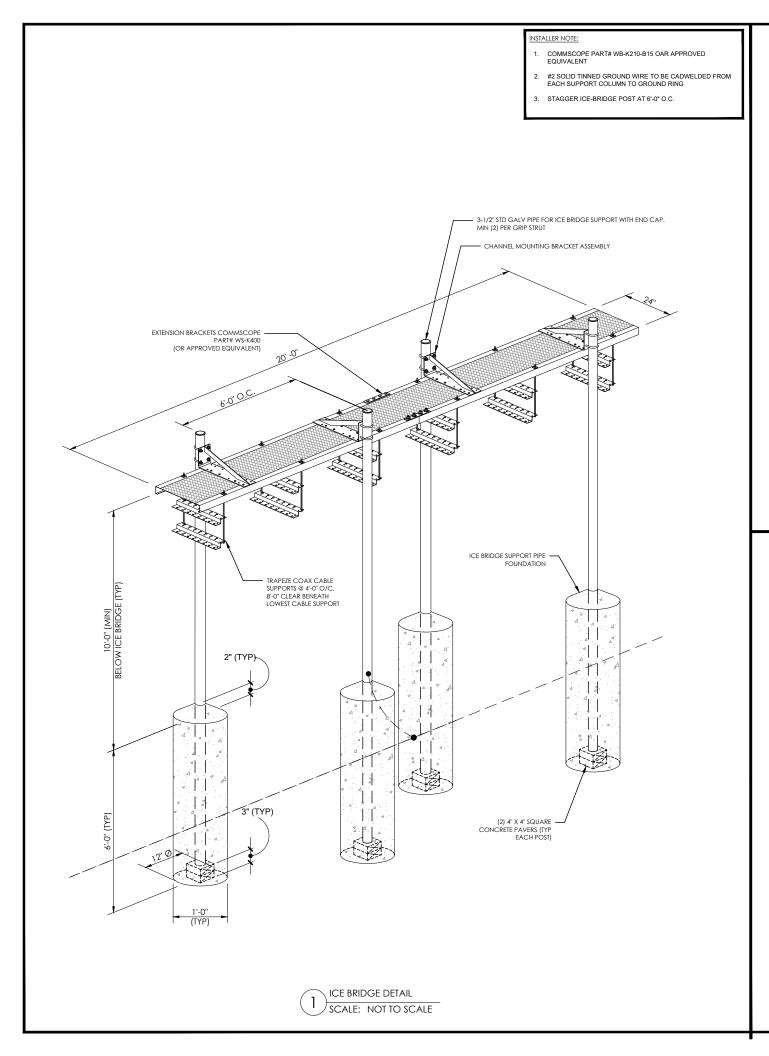
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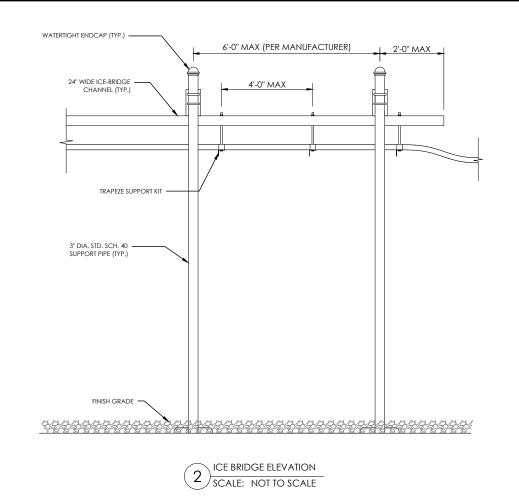
REV DATE

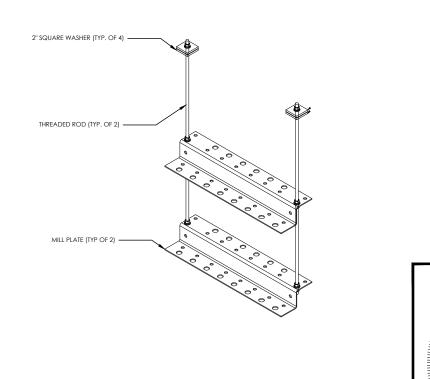
12/2/21

12/8/21









SCALE: NOT TO SCALE

TRAPEZE KIT: SITE PRO1 Z-BRACKET TRAPEZE KIT Z24K-D

T - Mobile



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

SBA:

BROADWAY NC01660-B

T-MOBILE:

SBA/BROADWAY CO 5RA0319A

ITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION			
0	12/2/21	FOR CONSTRUCTION			
1	12/8/21	CX REV. 1			
	SITE COORDINATES				
ΙΔΤ· 35 Δ3Δ19ΔΔΔ					

LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082

ICEBRIDGE DETAILS

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.
- 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 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.

T - Mobile



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

SBA:

BROADWAY NC01660-B

-MOBILE:

SBA/BROADWAY CO 5RA0319A

SITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

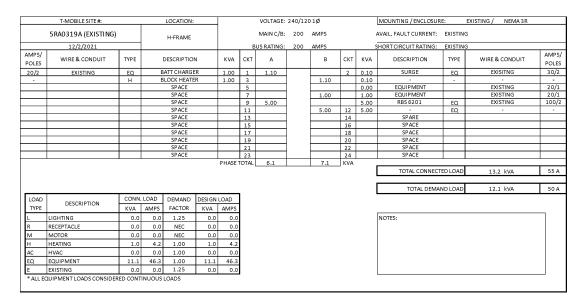
DRAWN: RSW
CHECKED: PWM

JOB#: 21SBATNCM-0082



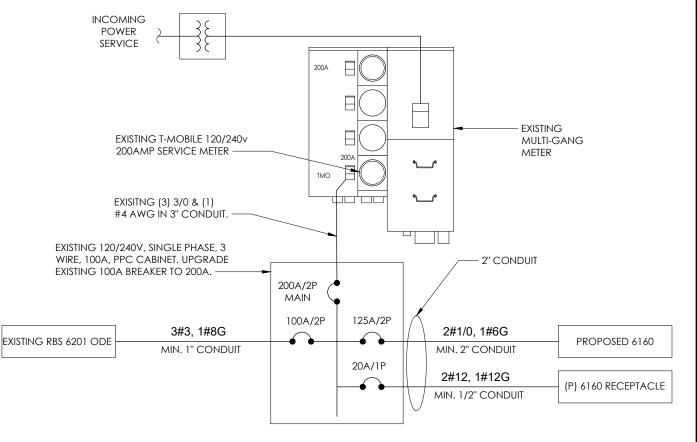
ELECTRICAL DETAILS

E-1



EXISTING PANEL SCHEDULE
SCALE: NOT TO SCALE

T-MOBILE SITE #:			LOCATI	ON:			VOLTAGE:	240/12	01Ø			MOUNTING / ENCLOSURE	: 1	XISTING / NEMA 3R	
5RA0319A (PROPOSED)			H-FRAME		MAIN C/B: 200 AMPS						,	AVAIL. FAULT CURRENT:	EXISTING		
12/2/2021						В	US RATING:	200	AMPS		9	SHORT CIRCUIT RATING:	EXISTING		
AMPS/ POLES	WIRE & CONDUIT	TYPE	DESCRIP	TION	KVA	СКТ	А		В	СКТ	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMP:
20/2	EXISTING	EQ	BATT CHA	RGER	1.00	1	1.10			2	0.10	SURGE	EQ	EXISITNG	30/
		Н	BLOCK HI	ATER	1.00	3			1.10		0.10	-	- 1	-	-
125/2	(2) 3/0 #6G; 2C	EQ	(P) 6160 CABINET		3.00	5	3.00				0.00	EQUIPMENT		EXISTING	20/
-	-	EQ			3.00	7			4.00		1.00	EQUIPMENT		EXISTING	20/
-	-	-			0.00	9	5.00				5.00	RBS 6201	EQ	EXISTING	100,
	-				0.00	11			5.00	12	5.00	-	EQ	-	-
			SPAC			13	0.18			14	0.18	(P) 6160 RECEPTACLE	R	2#12, 1#12G, 1/2"C	20/
			SPAC			15				16		SPACE			_
			SPAC			17				18		SPACE			_
			SPAC			19				20		SPACE			-
			SPAC	t l		21				22		SPACE			
			CDAC	-											
			SPAC		DUACE	23	0.3		10.1	24		SPACE			
_			SPAC		PHASE		9.3		10.1	KVA			:D L OAD	10.4 bys	81
			SPAC		PHASE		9.3		10.1			TOTAL CONNECTI	D LOAD	19.4 kVA	81
			SPAC		PHASE		9.3		10.1					19.4 kVA 18.3 kVA	
LOAD	DESCRIPTION	CONN					9.3		10.1			TOTAL CONNECTI			
LOAD TYPE	DESCRIPTION	CONN.		ND DESIGNI			9.3		10.1			TOTAL CONNECTI			76
	DESCRIPTION		LOAD DEMAI	ND DESIGNI	LOAD		9.3		10.1			TOTAL CONNECTI			
		KVA	LOAD DEMAI	ND DESIGNI PR KVA 0.0	LOAD AMPS	TOTAL	9.3		10.1			TOTAL CONNECTI			
TYPE L	LIGHTING	KVA 0.0	LOAD DEMAI AMPS FACTO 0.0 1.25	DESIGNI PR KVA 0.0 0.2	LOAD AMPS 0.0	TOTAL	9.3		10.1			TOTAL CONNECTI			
TYPE L R	LIGHTING RECEPTACLE MOTOR	0.0 0.2 0.0	LOAD DEMAI AMPS FACTO 0.0 1.25 0.8 NEC 0.0 NEC	DESIGNI DR KVA 0.0 0.2 0.0	AMPS 0.0 0.8 0.0	TOTAL	9.3		10.1			TOTAL CONNECTI			
TYPE L R M H	LIGHTING RECEPTACLE MOTOR HEATING	0.0 0.2 0.0 1.0	LOAD DEMAI AMPS FACTO 0.0 1.25 0.8 NEC 0.0 NEC 4.2 1.00	DESIGN R KVA 0.0 0.2 0.0 1.0	LOAD AMPS 0.0 0.8 0.0 4.2	TOTAL	9.3		10.1			TOTAL CONNECTI			
TYPE L R M	LIGHTING RECEPTACLE MOTOR	0.0 0.2 0.0	LOAD DEMAI AMPS FACTO 0.0 1.25 0.8 NEC 0.0 NEC	DESIGN R KVA 0.0 0.2 0.0 1.0 0.0	AMPS 0.0 0.8 0.0	TOTAL	9.3		10.1			TOTAL CONNECTI			



PROPOSED PANEL SCHEDULE

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.

ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

- 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.

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

T - Mobile-

P. MARSHALL & ASSOCIATES

LOCATION:

106 J R LANE BROADWAY, NC 27505

SBA:

BROADWAY NC01660-B

T-MOBILE:

SBA/BROADWAY CO 5RA0319A

SITE TYPE:

250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
0	12/2/21	FOR CONSTRUCTION
1	12/8/21	CX REV. 1

SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

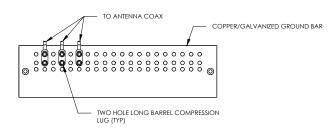
DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082



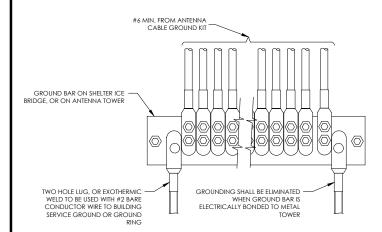
PANEL SCHEDULE & ONE-LINE DIAGRAM

E-2

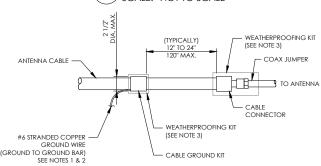


- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL.

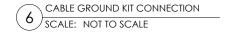
ANTENNA GROUND BAR DETAIL SCALE: NOT TO SCALE

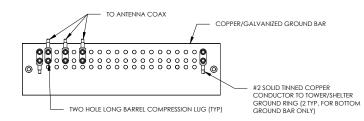


GROUNDWIRE INSTALLATION SCALE: NOT TO SCALE



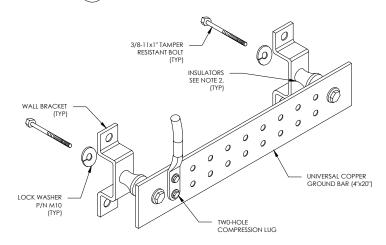
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 GROUND BAR.
 GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.





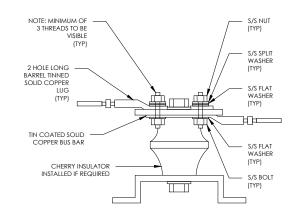
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

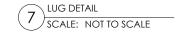
TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE

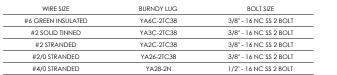


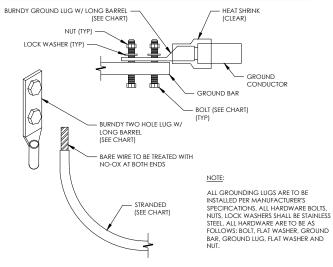
- 1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR
- 2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

GROUND BAR DETAIL SCALE: NOT TO SCALE

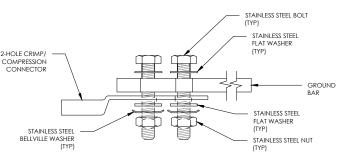




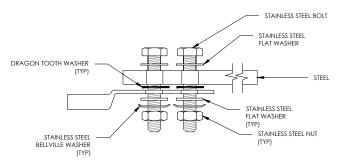




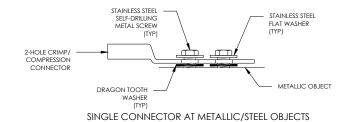
MECHANICAL LUG CONNECTION SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS



SINGLE CONNECTOR AT STEEL OBJECTS



HARDWARE DETAIL FOR EXTERIOR CONNECTIONS

SCALE: NOT TO SCALE

T - Mobile-



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



LOCATION:

106 J R LANE BROADWAY, NC 27505

BROADWAY NC01660-B

SBA/BROADWAY CO 5RA0319A

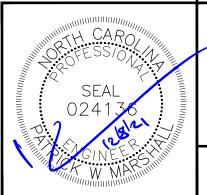
250' SELF-SUPPORT T-MOBILE ANCHOR

REV	DATE	DESCRIPTION
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SITE COORDINATES LAT: 35.43419444 LONG: -79.04269444

DRAWN: RSW CHECKED: PWM

JOB#: 21SBATNCM-0082



GROUNDING DETAILS

G-1