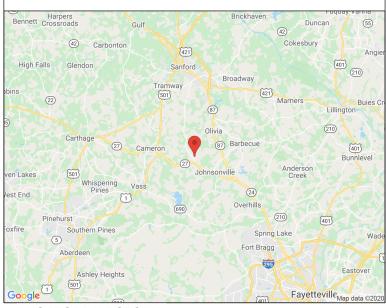
LOCATION MAP



SITE NAME: OLIVIA NC01659-B SITE NUMBER:

APPROVED 03/19/2021

JURISDICTION:

PARCEL #:

ACREAGE:

(E) IMPERVIOUS:

(P) IMPERVIOUS:

COMPOUND SIZE:

ZONING:

UTILITIES:



HARNETT COUNTY

9556.00-37-5397

0 SQFT.

± SQFT.

V-B

POWER COMPANY: CENTRAL EMC

TELCO COMPANY: WINDSTREAM

T - Mobile-





LOCATION:

696 CLAUDE-WHITE **ROAD/SR 1001** LEMON SPRINGS, NC 28236

OLIVIA NC01659-B

T-MOBILE

L-SPRINT RA33XC275 5RA0882A

SITE TYPE:

265' SELF SUPPORT T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
0	12/30/20	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

20ASBTMMNC-0054 IOR#

SITE NAME: L-SPRINT RA33XC275 SITE NUMBER: 5RA0882A
DESCRIPTION: 67D5A97DB_B25

- SITE SUMMARY -

SITE ADDRESS:

SBA NUMBER:

TOWER TYPE:

TENANT ID/NAME:

SITE LATITUDE(NAD83):

SITE LONGITUDE(NAD83):

GND ELEVATION (NAVD88): 462'

COMPANY:

CARRIER:

SBA NAME:

NC01659-B

SELF SUPPORT

T-MOBILE

5RA0882A

OLIVIA

SBA

SPRINT KEEP 250' RAD CENTER

696 CLAUDE-WHITE ROAD/SR 1001

LEMON SPRINGS, NC 28236

35.311417 (35° 18' 41.10") -79.15375 (-79° 9' 13.50'')

-PROJECT DIRECTORY

APPLICATION/ PROPERTY OWNER:

SBA COMMUNICATIONS CORPORATION

8051 CONGRESS AVE. BOCA RATON, FL 33487-2797 MACKENZIE CLIFFORD MCLIFFORD@SBASITE.COM 704.527.0003 x2106

ENGINEERING: P. MARSHALL & ASSOCIATES

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

TREVOR MCALLISTER TMCALLISTER@PMASS.COM

478-542-3291

CONSTRUCTION:

P. MARSHALL & ASSOCIATES 3545 WHITEHALL PARK DRIVE SUITE 450 CHARLOTTE, NORTH CAROLINA 28273

MARK MINTON MMINTON@PMASS.COM

865-556-5283

-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 SERVICE UPGRADE IS REQUIRED. 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, CABLE REMOVAL/ INSTALLATION, AND CABINET INSTALLATION WITHIN EXISTING EQUIPMENT LEASE AREA.

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: **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."

FFMA PANFI:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN PER FIRM PANEL: 3710954600L. DATED: 10/17/2006.

-SHEET INDEX

G-1

TOWER HEIGHT (AGL.)

1-1	IIILE 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	EQUIPMENT SPECS
E-1	ELECTRICAL DETAILS
E-2	PANEL SCHEDULE & ONE-LINE DIAGRAM

GROUNDING DETAILS

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!**



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 Projects	L-SPRINT RA33XC275- 5R	A0882A		
	MORIAH ROAD DURHAM, NC			Zip Code
	ed Agent: MACKENZIE CLIFFORI) 527 -0003 x 21	
Owned By:	_	ty/County	✓ Private	☐ State
Code Enforcement Jurisdiction: City			⊠ County GRA	_
		-J	<u></u>	
CONTACT:				
DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE # E-MAIL
Architectural	B B A A C TEO	D. TDIOK DOLLAN		()
Civil Electrical	P. MARSHALL & ASSOCIATES	PATRICK MARSHALL	024136	(678) 280-2325
Fire Alarm				
Plumbing				
Mechanical				()
Sprinkler-Standp Structural	ipe			
	>5' High			
Other	P. MARSHALL & ASSOCIATES			(478) 542-3291 TMCALLISTER@PMASS.COM
("Other" should i	include firms and individu	als such as truss, p	recast, pre-engine	eered, interior designers, etc.)
2018 NC BUILI	DING CODE: ☐ New :		Shell/Core	☐ 1 st Time Interior Completions
			Dhagad Construe	tion Chall Core
2018 NC EXIST	Addit ING BUILDING CODE	-	Phased Construct Alteration	tion – Shell Core n Level I
2018 NC EXIST (check all that ap	ING BUILDING CODE	: Prescriptive	_	n Level I Historic Property
	ING BUILDING CODE	-	Alteration	n Level I
(check all that ap	ING BUILDING CODE	Prescriptive Repair Chapter 14	✓ Alteration✓ Alteration✓ Alteration	n Level I
(check all that ap	TING BUILDING CODE	Prescriptive Repair Chapter 14 CURREN	☐ Alteration ☐ Alteration ☐ Alteration ☐ COUPANC	n Level I Historic Property n Level II Change of Use n Level III
(check all that ap CONSTRUCT RENOVAT	TING BUILDING CODE	Prescriptive Repair Chapter 14 CURREN PROPOS		n Level I
(check all that ap CONSTRUCT RENOVAT	CTED: (date) CATEGORY (Table 160	Prescriptive Repair Chapter 14 CURREN PROPOS		n Level I
CONSTRUCTORY OCCUPANCY OCC	TING BUILDING CODE (ply) CTED: (date) ED: (date) CATEGORY (Table 160) ING DATA (pe:	Prescriptive Repair Chapter 14 CURREN PROPOS 4.5): Current: UI		n Level I
CONSTRUCTORY OCCUPANCY OBASIC BUILDI Construction Ty (check all that ap	TING BUILDING CODE (ply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive Repair Chapter 14 CURREN PROPOS 4.5): Current: UI		n Level I
CONSTRUCTORY OCCUPANCY OCCUPANCY OBASIC BUILDI Construction Ty (check all that ap Sprinklers:	TING BUILDING CODE (ply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive		n Level I
CONSTRUCTION OCCUPANCY OCC	TING BUILDING CODE (ply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive	Alteratio Alteratio Alteratio TOCCUPANC ED OCCUPAN IIII-A III-B NFPA 13R Uet Dry	n Level I
CONSTRUCTORY OCCUPANCY OCC	TING BUILDING CODE	Prescriptive		n Level I
CONSTRUCTION OCCUPANCY OCC	TING BUILDING CODE	Prescriptive	Alteration Alteration Alteration Alteration Alteration TOCCUPANO ED OCCUPANO ED OCCUPANO IIII-A III-B III-B NFPA 13R Wet Dry Hazard Area:	n Level I
CONSTRUCTORY OCCUPANCY OCC	TING BUILDING CODE (pply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive		In Level I
CONSTRUCTORY OCCUPANCY OCC	TING BUILDING CODE	Prescriptive		n Level I
CONSTRUCTORY OCCUPANCY OCC	TING BUILDING CODE (pply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive		In Level I
CONSTRUCTORY OCCUPANCY OCC	TING BUILDING CODE (pply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive		In Level I
CONSTRUCTION OCCUPANCY OCC	TING BUILDING CODE (pply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive		In Level I
CONSTRUCTION OCCUPANCY OCC	TING BUILDING CODE (pply) CTED: (date) ED: (date) CATEGORY (Table 160 ING DATA (pe:	Prescriptive		In Level I

		ALLOWA	BLE AREA		
Primary Occupat	ncy Classification(s)	:			
Assembly	☐ A-1	☐ A-2	☐ A-3	☐ A-4	☐ A-5
Business					
Educational		_			
Factory	F-1 Moderate	F-2 Low	_	_	_
Hazardous	H-1 Detonate	H-2 Deflagra	=		ı 🗌 H-5 HPM
Institutional	I-1	☐ I-2	☐ I-3	☐ I-4	
		2			
	= =	2 2 □3 □4			
	ndition 1 1	2 3 2	↓ ∐ 5		
Mercantile Residential	H _{R-1}	□ R-2	□ R-3	□ R-4	
Storage	S-1 Moderate		□ K-3 S-2 Low	☐ K-4 ☐ High-piled	
Storage	Parking Garag		Enclosed	Repair Gar	
Utility and M		с 🗀 орен 🗀 і	znerosed	□ Керан Сан	ugo
Accessory Occup	ancy Classification(s):			
Incidental Uses (
This separ	ation is not exempt a	s a Non-Separated	Use (see exceptions).		
Special Uses (Cha	apter 4 – List Code S	Sections):			
Special Provision	s: (Chapter 5 – List	Code Sections):			
Mixed Occupancy	v: Select one Se	paration: Select one	Exception:		
Select one			•		_
	Area of Occupancy A	<u> </u>	Are ncy E	< 1	
Allowable	e Area of Occupancy	A Allowah	ncy	$B \stackrel{\sim}{=} 1$	
			(/ ^		< 1.00
		A Alloward RUILD	\ _	+ =	\leq 1.00
STORY DE	SCRIPTION AND	- 70	(1))	(D)
NO.	USE	(/	AREA FOR F		ABLE AREA PER
	. \	M^{*} . O	INCREA		OR UNLIMITED ^{2,3}
	— <i>F</i>				
		0///~ -			
		\rangle \rangle \rangle \rangle			
		-			
	reases from Section				
			e having 20 feet mini	mum width =	(F)
	lding Perimeter	=(P)		
	P) =(F		(III)		
	imum width of public				
	pplicable under cond		7. building x D (maxim	um3 stories) (506	.2)
			y with Table 406.5.4.		
	nust comply with Tab		, 1 4010 400.3.4.	The maximum at	oa or an additio
	e is based on the unsp		e in Table 506.2.		

T - Mobile-



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



LOCATION:

696 CLAUDE-WHITE ROAD/SR 1001 LEMON SPRINGS, NC 28236

SBA:

OLIVIA NC01659-B

T-MOBILE:

L-SPRINT RA33XC275 5RA0882A

SITE TYPE:

265' SELF SUPPORT T-MOBILE SPRINT KEEP

1-WODII		LL OF MINT MLLF
REV	DATE	DESCRIPTION
0	12/30/20	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

JOB#: 20ASBTMMNC-0054

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 DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame,							
including columns, girders, trusses							
Bearing Walls					J		
Exterior							
North							
East				,			
West							
South			_^	\			
Interior			' . ()	` _			
Nonbearing Walls and Partitions			MO	\mathcal{A}	1		
Exterior walls	l .	. ~	1 ,	\sim			
North		1 r	\sim	1			
East	\vdash \sim	١,	.、\)	• -			
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		-	-				
Smoke Partition		l	-	1			
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

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING	TOTAL # OF P.	ARKING SPACES	# OF A	cr		G.P		TOTAL#
AREA	REQUIRED	PROVIDED	REGULAR WITT	ι P	\	'CI		ACCESSIBLE PROVIDED
			$^{\perp}$ $^{\backslash}$	\ '	_	,	E	
TOTAL		╆	Ho	_ \(1	_	_	
		_	\ .	_ , ,				
		-、1 P	``~	14.				
		PIP	ILD'	JIRE	MENTS			
		71P	JILD.	¿JIRE	MENTS			
USE		71P 18	\mathcal{O}	¿UIRE (2.1)		SHOWERS	DRINKING	6 FOUNTAINS
USE	N MALE	1/P 1/P	\mathcal{O})2.1)			DRINKING REGULAR	G FOUNTAINS ACCESSIBLE
USE EXIST'G	MALE .	NP B		(2.1)	S	SHOWERS		
	MALE .	41P 8		(2.1)	S	SHOWERS		

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 (%)

Exempt Building: Select one Provide code or statutory reference:

Climate Zone: Select one

Method of Compliance: Select one
(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

Floors over unconditioned space (each assembly)

Horizontal/vertical requirement:

slab heated:

Walls below grade

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

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

Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation:

T - Mobile-



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



LOCATION:

696 CLAUDE-WHITE ROAD/SR 1001 LEMON SPRINGS, NC 28236

OLIVIA NC01659-B

T-MOBILE:

L-SPRINT RA33XC275 5RA0882A

265' SELF SUPPORT T-MOBILE SPRINT KEEP

ı			
ı	REV	DATE	DESCRIPTION
	0	12/30/20	FOR CONSTRUCTION
ı			
I			
I			
1			

SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

JOB#: 20ASBTMMNC-0054

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 TOR 2 OF THE STRUCTURAL SHEETS)
Importance Factors:	Wind (I _W) Snow (I _S) Seismic (I _E)
Live Loads:	Roof psf Mezzanine psf Floor psf
Ground Snow Load:	psf
	psf ic Wind c 2-7) oosurc B C D
SEISMIC DESIGN CATE	\mathcal{M} \mathbb{Q} \mathbb{Q} \mathbb{Q} \mathbb{Q} \mathbb{Q}
Provide the following Seisn Occupancy Categor Spectral Response Ac Site Classification (ASC Data: Basic structural system (Bearing Wall Building Fran Moment Fran Analysis Procedure:	I II IV Ng Ng Ng Ng Ng Ng Ng N
Architectural, Mechanic	al, Components anchored? Yes No
LATERAL DESIGN CONTROL	æ: Earthquake ☐ Wind ☐
	of test report) psf acity psf

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

1 ner	mal Zone
	winter dry bulb:
	summer dry bulb:
Inter	winter dry bulb: summer dry bulb: relative humidity: ing heating load:
Build	ing heating load:
Build	ing cooling load:
Mecl	anical Spacing Condition
	Unitary
	description of unit:
	<u> </u>
	heating efficiency:
	heating efficiency:cooling efficiency:
	heating efficiency: cooling efficiency: size category of unit:
	heating efficiency: cooling efficiency: size category of unit: Boiler

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

 $\textbf{Lighting schedule} \ (\text{each fixture type})$

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

pe)
are
the HAMDING
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-



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



LOCATION:

696 CLAUDE-WHITE ROAD/SR 1001 LEMON SPRINGS, NC 28236

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265' SELF SUPPORT T-MOBILE SPRINT KEEP

1-MOBILE SPRINT REEP		
REV	DATE	DESCRIPTION
0	12/30/20	FOR CONSTRUCTION

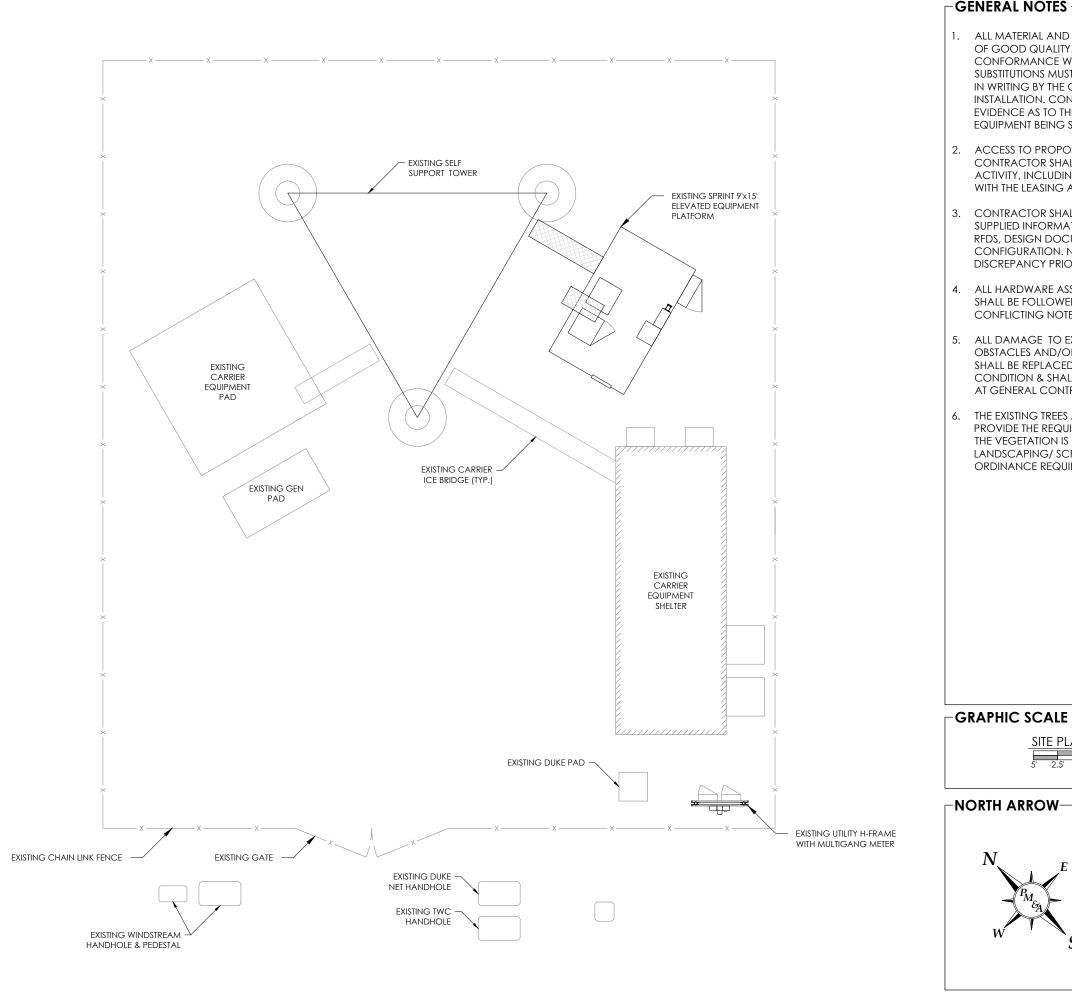
SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

JOB#: 20ASBTMMNC-0054

APPENDIX B

T-1C



-GENERAL NOTES

- 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.
- 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.
- 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:

696 CLAUDE-WHITE **ROAD/SR 1001** LEMON SPRINGS, NC 28236

OLIVIA NC01659-B

T-MOBILE

L-SPRINT RA33XC275 5RA0882A

265' SELF SUPPORT T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
0	12/30/20	FOR CONSTRUCTION

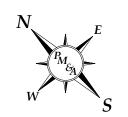
SITE COORDINATES LAT: 35.311417

LONG: -79.15375

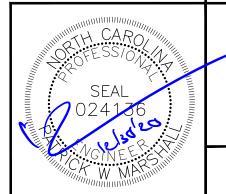
DRAWN: RSW CHECKED: PWM

20ASBTMMNC-0054 JOB#:

-NORTH ARROW-

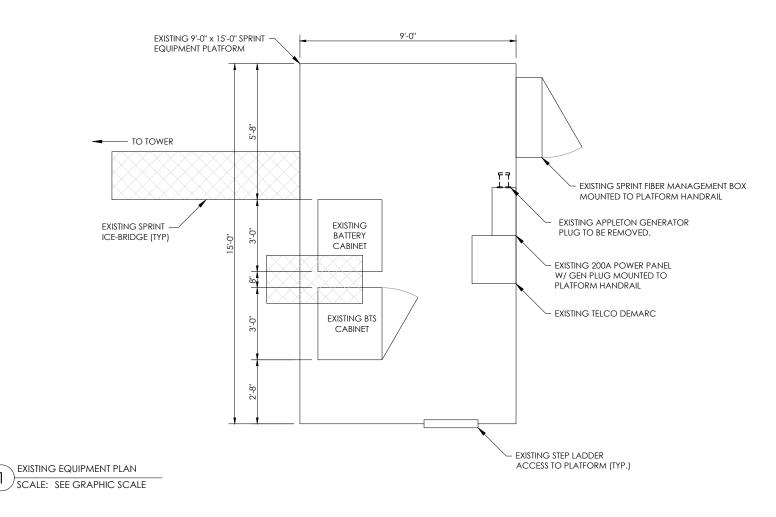


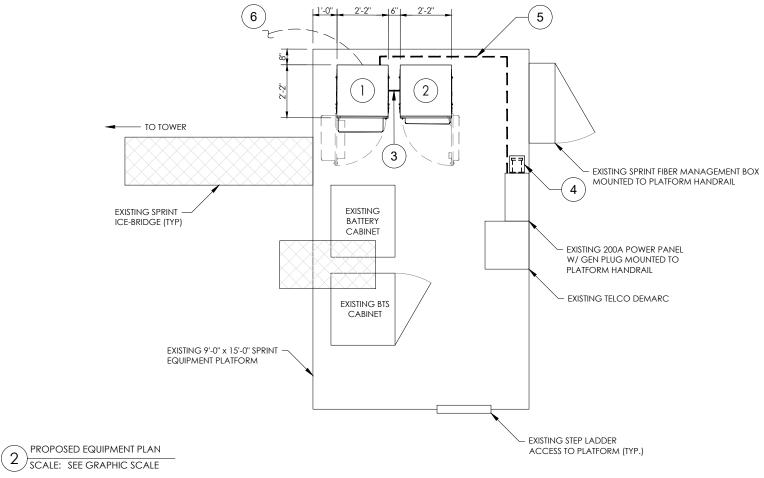
SITE PLAN



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

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 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)
- 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 HANDRAIL.
 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 FROM PROPOSED 6160 CABINET FOR TELCO/FIBER CONNECTIVITY. FINAL CONNECTION REQUIREMENTS TBD.

T - Mobile-



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



LOCATION:

696 CLAUDE-WHITE ROAD/SR 1001 LEMON SPRINGS, NC 28236

SBA:

OLIVIA NC01659-B

T-MOBILE:

L-SPRINT RA33XC275 5RA0882A

SITE TYPE:

265' SELF SUPPORT T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
0	12/30/20	FOR CONSTRUCTION
	1	

SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

JOB#: 20ASBTMMNC-0054

GRAPHIC SCALE

-EQUIPMENT NOTE-

SITE PLAN

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

THE CABINETS ARE CONSTRUCTED OF NONCOMBUSTIBLE MATERIALS TO

CONSTRUCTION THAT PASSED A SIMULATED BRUSH FIRE TEST TO

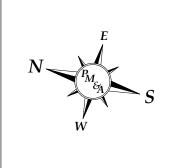
FIRE RESISTANCE REQUIREMENT R3-265. REFER TO THE NATIONAL

TECHNICAL SYSTEMS (NTS) REPORT NO. PR067628-GR487.

MEET THE REQUIREMENTS OF THE CURRENT NFPA 37 EDITION 2018. CABINET

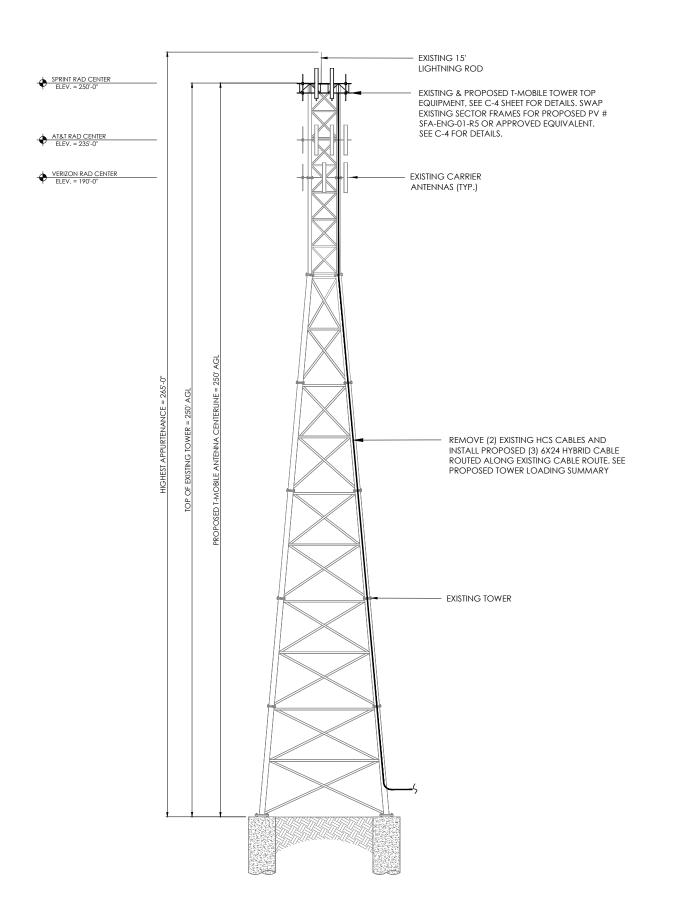
DEMONSTRATE COMPLIANCE TO TELCORDIA GR-487-CORE SECTION 3.39

-NORTH ARROW-





EXISTING 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
- 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 SUBSTITUTED.
- 6. CONTRACTOR TO REFER TO THE MOUNT ANALYSIS FOR THIS PROJECT.

FINISH NOTES:

TOWER- GALVANIZED TOWER MOUNTS- GALVANIZED

ANTENNA- NEUTRAL (MANUFACTURER FINISH)
FOUNDATIONS- UNPAINTED CONCRETE

ICE BRIDGE- GALVANIZED

CABLES- GALVANIZE
BLACK

-TOWER LOADING SUMMARY -

2

BASE CABINETS/EQUIPMENT- NEUTRAL (MANUFACTURER FINISH)

6 6 ANTENNA

0	0	TMA	0	0
9	6	RADIOS	3	6
0	0	COAX	0	0

HYBRIDS





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SITE TYPE

265' SELF SUPPORT T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION	
0	12/30/20	FOR CONSTRUCTION	
LA	TE COORI AT: 35.3 DNG: -79.	11417	

DRAWN: RSW

JOB#: 20ASBTMMNC-0054



3

ADD

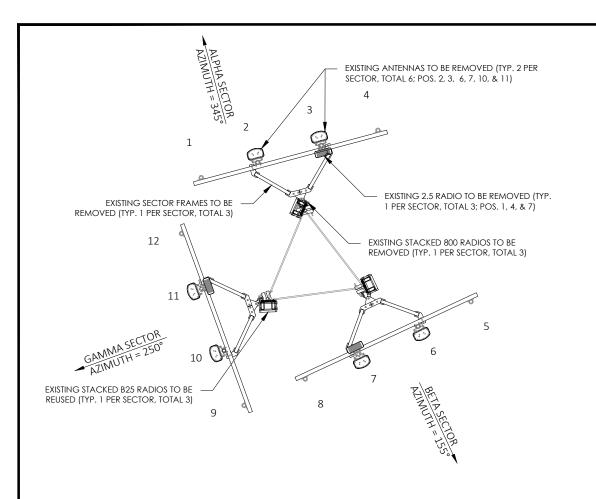
9

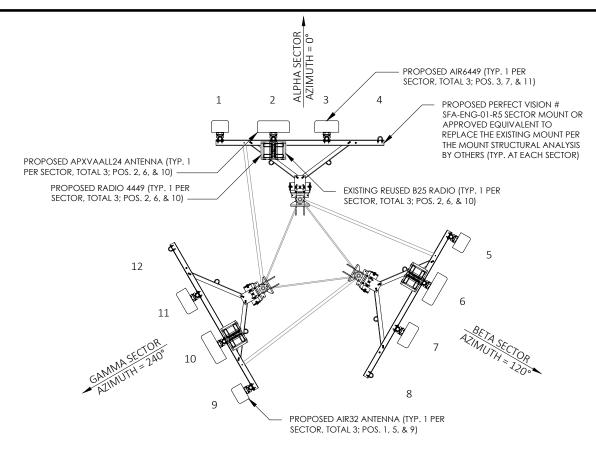
TOTAL

9

5

TOWER ELEVATION







١	V	
		EXISTING ANTENNA PLAN
		NOT TO SCALE

DRODOCED ANTENNIA COLLEGIUE

SECTOR	MARK	AZIMUTH	ANTENNA MODEL	RADIO MODEL	CABLE DESCRIPTION
ALPHA	1	0 °	ERICSSON - AIR32 KRD901146-1_B66A_B2A (OCTO) (P)		(1) 1 1/2" 6x12 HCS (EXISTING TO REMAIN)
ALPHA	2	0 °	RFS - APXVAALL24_43-U-NA20 (OCTO) (P)	(1) B25 4TRT RRU (E) (1) RADIO 4449 B71+B85 (P)	(1) ERICSSON 6x24 HCS 4AWG 90M (295') (P)
ALPHA	3	0 °	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	•	-
-	4	-	-	•	-
BETA	5	120°	ERICSSON - AIR32 KRD901146-1_B66A_B2A (OCTO) (P)		(1) 1 1/2" 6x12 HCS (EXISTING TO REMAIN)
BETA	6	120°	RFS - APXVAALL24_43-U-NA20 (OCTO) (P)	(1) B25 4TRT RRU (E) (1) RADIO 4449 B71+B85 (P)	(1) ERICSSON 6x24 HCS 4AWG 90M (295') (P)
BETA	7	120°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	-	-
-	8	-	-	•	-
GAMMA	9	240°	ERICSSON - AIR32 KRD901146-1_B66A_B2A (OCTO) (P)	•	-
GAMMA	10	240°	RFS - APXVAALL24_43-U-NA20 (OCTO) (P)	(1) B25 4TRT RRU (E) (1) RADIO 4449 B71+B85 (P)	(1) ERICSSON 6x24 HCS 4AWG 90M (295') (P)
GAMMA	11	240°	ERICSSON - AIR6449 B41 (MASSIVE MIMO) (P)	•	-
-	12	-	-	-	-

-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

- 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.





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> OLIVIA NC01659-B

T-MOBILE:

L-SPRINT RA33XC275 5RA0882A

IIE IYPE:

265' SELF SUPPORT T-MOBILE SPRINT KEEP

REV	DATE	DESCRIPTION
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SITE COORDINATES LAT: 35.311417 LONG: -79.15375

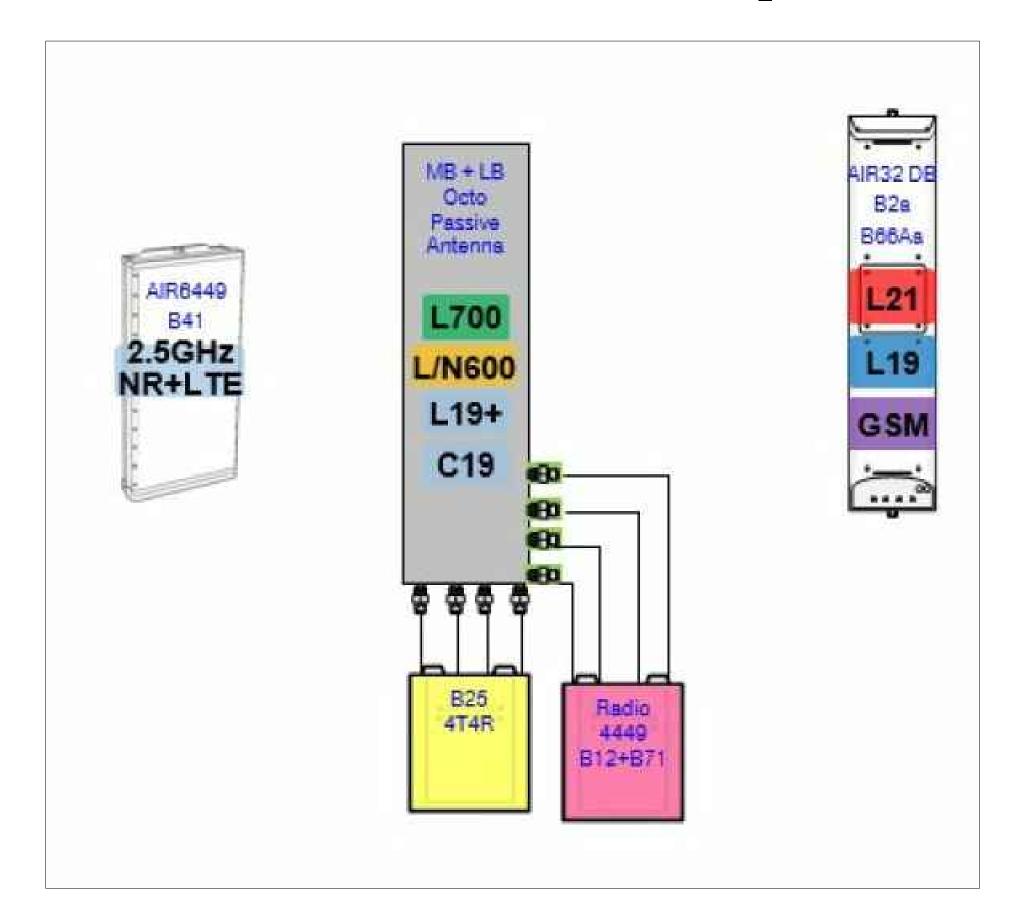
DRAWN: RSW CHECKED: PWM

JOB#: 20ASBTMMNC-0054

SEAL D24136 &

ANTENNA
ORIENTATION &
CABLE SCHEDULE

PROPOSED RF CONFIGURATION: 67D5A97DB_B25



T - Mobile-





LOCATION:

696 CLAUDE-WHITE ROAD/SR 1001 LEMON SPRINGS, NC 28236

SBA:

OLIVIA NC01659-B

T-MOBILE:

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SITE TYPE:

265' SELF SUPPORT T-MOBILE SPRINT KEEP

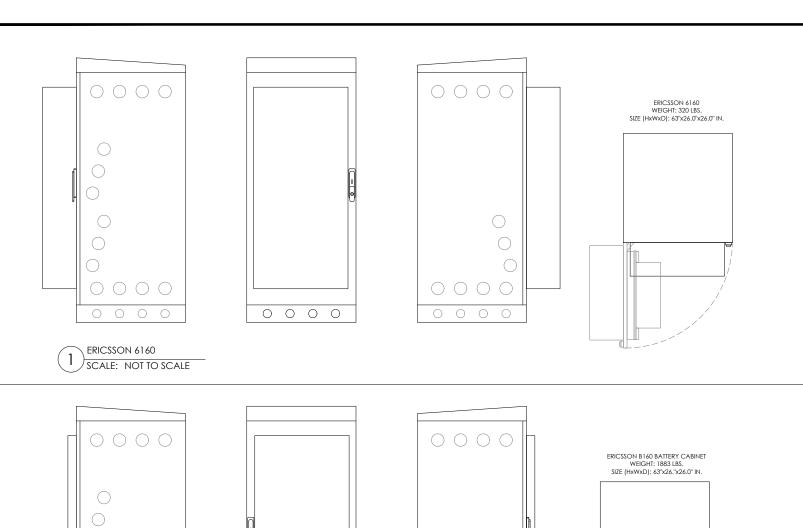
1-WOBILE SPRINT REEP		
REV DATE DESCRIPTION		DESCRIPTION
0	12/30/20	FOR CONSTRUCTION

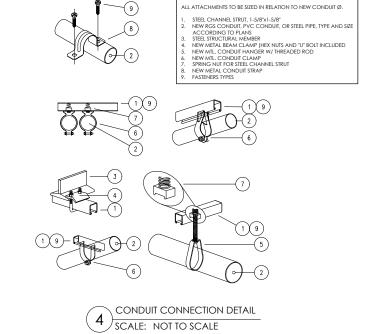
SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW

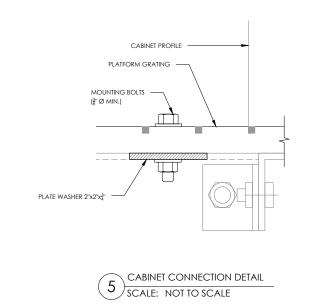
JOB#: 20ASBTMMNC-0054

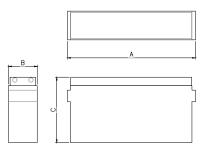
PLUMBING DIAGRAM





-KEY NOTES-





 \bigcirc

(2) SCALE: NOT TO SCALE

ERICSSON B160 BATTERY CABINET

FLOAT VOLTAGE

0 0 0 0

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

	SPECIFICATIONS										
		CAPAC	ITY (AH)		NON	VINAL DIV	NENSIO	٧S		NON	IINAL
MODEL NUMBER	VOLTAGE	8 HR TO 1.75 VPC	10 HR TO 1.8 VPC		INCHES		MILLIMETERS			WEIGHT	
HOMBER		@ 25°	@ 25°	Α	В	С	Α	В	C	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

ELECTRICAL DATA								
MODEL NUMBER	SHORT CIRCUIT CURRENT	INTERNAL RESISTANCE (mOhms)						
NSB 190FT RED BATTERY	5000 A	2.8						

CHAPTER 12. SECTION 1206

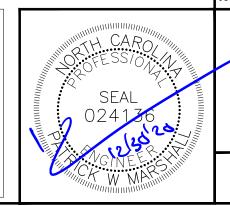
ELECTRICAL ENERGY STORAGE SYSTEM

1206.2 SCOPE:								
STATIONARY STORAGE BATTERY SYSTEMS HAVING CAPACITIES EXCEEDING THE VALUES SHOWN IN TABLE 1206.2 SHALL COMPLY W/ SECTION 1206.2.1 THROUGH 1206.2.12.6, AS APPLICABLE.								
BATTERY STORAGE SYSTEM THRESHOLD QTY'S								
CATTERY TECHNOLOGY CAPACITY ALLOWED								
LEAD	ACID, ALL	TYPES	70 kW	70 kWh (252 MEGAJOULES)				
		AH = VOLT	AGE (AH)/	1000				
VOLTS	AH		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 GA	TOTAL GALLONS - ELECTROLYTE & ACID (12 BATTERIES): 33,36							

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

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.



T - Mobile-



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OLIVIA NC01659-B

T-MOBILE:

L-SPRINT RA33XC275 5RA0882A

265' SELF SUPPORT

T.	-MOBI	LE SPRINT KEEP
REV	DATE	DESCRIPTION
0	12/30/20	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

20ASBTMMNC-0054 JOB#:

> **EQUIPMENT SPECS**

EQUIPMENT NOTES

DEMO NOTES:

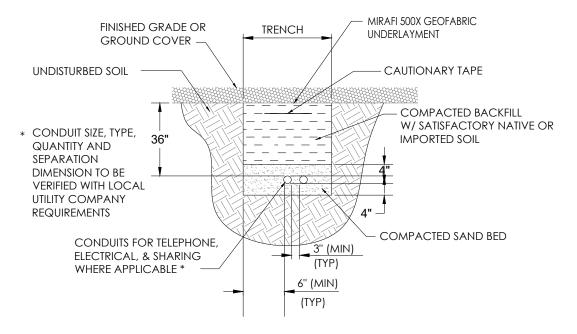
- 1. REWORK ALL TERMINATION, ELECTRICAL CONNECTORS, CONDUCTORS, CONDUITS, ETC., TO FACILITATE NEW WORK,
- VERIFY LOCATION IN THE FIELD OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING. COORDINATE WITH PUBLIC UTILITIES AS NECESSARY TO COMPLETE REQUIRED WORK AS INDICATED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR / REPLACEMENT OF ALL DAMAGED UTILITIES AT THE EXPENSE OF THE CONTRACTOR.
- DEMOLITION IS INCLUDED TO GIVE A COMMON BASIS FOR QUOTATIONS AND MAY NOT SHOW EVERY ITEM TO 3. 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.
- EQUIPMENT DESIGNATED TO BE RELOCATED SHALL BE CLEANED, STORED AND PROTECTED FROM DAMAGE UNTIL REINSTALLED. REPLACE ALL EQUIPMENT DAMAGED DURING RELOCATING.
- 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.
- 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.
- VERIFY LASHING REQUIREMENTS FOR SERVICE ENTRANCE & MAIN DISTRIBUTION EQUIPMENT WITH MANUFACTURER. INSTALL LASHING PER MANUFACTURER'S REQUIREMENTS.

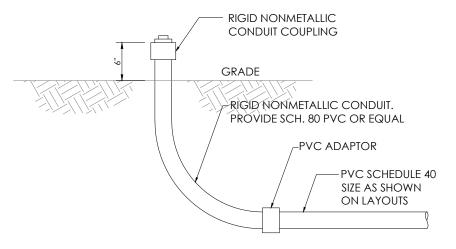
COMPRESSION LUG NOTES:

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 T-MOBILE.



TRENCH DETAIL

SCALE: NTS



UNDERGROUND CONDUIT STUB-UP

SCALE: NTS





SBA COMMUNICATIONS CORP



LOCATION:

696 CLAUDE-WHITE **ROAD/SR 1001**

LEMON SPRINGS, NC 28236

OLIVIA NC01659-B

T-MOBILE:

L-SPRINT RA33XC275 5RA0882A

SITE TYPE:

265' SELF SUPPORT

T.	-MOBILE SPRINT KEEP							
REV	DATE	DESCRIPTION						
0	12/30/20	FOR CONSTRUCTION						
SITE COORDINATES								

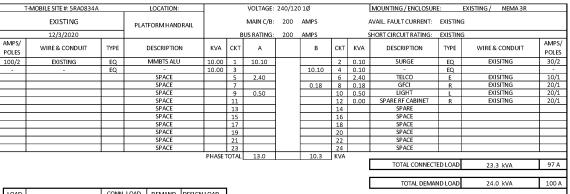
LAT: 35 311417 LONG: -79 15375

DRAWN: RSW CHECKED: PWM

20ASBTMMNC-0054 JOB#:

ELECTRICAL DETAILS

E-1



CONN. LOAD DEMAND DESIGN LOAD KVA AMPS FACTOR KVA AMPS 0.5 2.1 1.25 0.6 2. LIGHTING RECEPTACLE MOTOR 0.0 NEC HEATING 0.0 0.0 1.00 0.0 0.0 0.0 1.00 0.0 0 HVAC Q EQUIPMENT 20.2 84.2 1.00 20.2 84. EXISTING

EQUIPMENT INSTALLED AND WAS NOT V.I.F. NOTIFY E.O.R. OF ANY DISCREPANCIES PRIOR TO NSTALLATION OF PROPOSED EQUIPMENT

EXISTING PANEL SCHEDULE SCALE: NOT TO SCALE

EQUIPMEN'

	T-MOBILE SITE #: 5RA0834A		LOCA	ATION:			VOLTAGE:	240/12	0 1Ø			MOUNTING / ENCLOSUR	E:	EXISTING / NEMA 3R		
	PROPOSED		PLATFORM	1 HANDRAIL			MAIN C/B:	200	AMPS			AVAIL. FAULT CURRENT:	EXISTIN	IG		
	12/4/2020					В	US RATING:	200	AMPS			SHORT CIRCUIT RATING:	EXISTIN	IG		
AMPS/ POLES	WIRE & CONDUIT	TYPE	DESCF	RIPTION	KVA	скт	А		В	СКТ	KVA	DESCRIPTION	TYPE	WIRE & CONDUIT	AMPS/ POLES	
100/2	EXISTING	EQ	MMB	TS ALU	10.00	1	10.10			2	0.10	SURGE	EQ	EXISITNG	30/2	
-	-	EQ		-	10.00	3			10.10	4	0.10	-	EQ	-		
				ACE		5	1.20			6	1.20	TELCO	E	EXISITNG	10/1	
				ACE		7			0.18	8	0.18	GFCI	R	EXISITNG	20/1	
				ACE		9	0.50			10	0.50	LIGHT	L	EXISITNG	20/1	
				ACE		11				12	0.00	SPARE RF CABINET	R	EXISITNG	20/1	
				ACE		13	7.09			14	7.09	PROPOSED 6160	EQ	(3) #1 AWG, (1) #6 GND, 2" C		PROPOSED
				ACE		15			7.09	16	7.09	-	EQ	-	-	E6160 BREAKER
				ACE		17				18		SPACE	-			
				ACE		19				20		SPACE	_			
				ACE ACE	-	21				22		SPACE SPACE	-			
			SP.	ACE	BULLET	23	40.0		47.4	24		SPACE	1			
					PHASE	IOTAL	18.9		17.4	KVA						
												TOTAL CONNECT	ED LOAD	36.3 kVA	151 A	
						_						TOTAL DEMAI	ND LOAD	36.7 kVA	153 A	
LOAD	DESCRIPTION	CONN	. LOAD DEN	AND DESIGN	LOAD	l										
TYPE	DESCRIPTION	KVA	AMPS FAC	TOR KVA	AMPS	1										
L	LIGHTING	0.5	2.1 1.	25 0.6	2.6	1						NOTES:			7	
R	RECEPTACLE	0.2	0.8 N	EC 0.2	0.8	l						DEPICTED LOAD BASE	D ON A	SSUMPTIONS OF		
м	M MOTOR 0.0 NEC 0.0					1						EQUIPMENT INSTALLED	O AND V	VAS NOT V.I.F.		

NOTIFY E.O.R. OF ANY DISCREPANCIES PRIOR TO

POWER SERVICE EXISTING EXISTING T-MOBILE 120/240v MULTI-GANG 200AMP SERVICE METER METER EXISTING (3) 3/0 & (1) #4 AWG IN 3" CONDUIT EXISTING 120/240V, SINGLE PHASE, 3 WIRE, 200A, PPC CABINET WITH APPLETON GENERATOR PLUG. REPLACE 200A/2P GEN PLUG WITH CAM-LOK AS MAIN NECESSARY. INSTALL PER MANUFACTURER 150A/2P RECOMMENDATIONS. 3#1, 1#6G PROPOSED 6160 IN A 3" CONDUIT: MIN. 2"

> ONE-LINE DIAGRAM SCALE: NOT TO SCALE

GENERAL ELECTRICAL NOTES

PROPOSED PANEL SCHEDULE

2) SCALE: NOT TO SCALE

- 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.
- ELECTRICAL SERVICE SHALL BE 200A, 240/120v, 1 P, 3W

0.0 0.0 1.00 0.0 0.0 1.00

- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDER PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.
- 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

INCOMING

- 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.
- 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
- 6160 ENCLOSURE STANDARD CONFIGURATION INCLUDES (4) 3500W RECTIFIERS. LOAD PROVIDED IN PANEL SCHEDULE IS BASED ON STANDARD (4) PLUS ADDITIONAL (3) CONFIGURATION. IF ADDITIONAL RECTIFIERS ARE REQUIRED, ENGINEER OF RECORD SHALL BE CONTACTED TO DETERMINE ADEQUACY OF EXISTING PANEL FOR ADDITIONAL LOAD
- CONTRACTOR SHALL FIELD VERIFY EXISTING AC PANEL MODEL AND ENSURE 125A, 2P,2-POSITION BREAKER IS COMPATIBLE, CONTACT EOR IF DISCREPANCIES ARE FOUND.
- CONTRACTOR TO FIELD VERIFY ALL EQUIPMENT RATINGS AND WIRE SIZES. IF ANY DISCREPANCIES EXIST, CONTACT ENGINEER PRIOR TO ROUGH IN.





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



LOCATION:

696 CLAUDE-WHITE **ROAD/SR 1001** LEMON SPRINGS, NC 28236

OLIVIA NC01659-B

T-MOBILE:

L-SPRINT RA33XC275 5RA0882A

SITE TYPE:

265' SELF SUPPORT T-MOBILE SPRINT KEEP

REV DATE DESCRIPTION 0 12/30/20 FOR CONSTRUCTION			LE OI TUITI TELL
0 12/30/20 FOR CONSTRUCTION	REV	DATE	DESCRIPTION
	0	12/30/20	FOR CONSTRUCTION

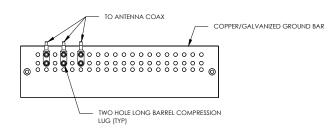
SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

JOB#: 20ASBTMMNC-0054

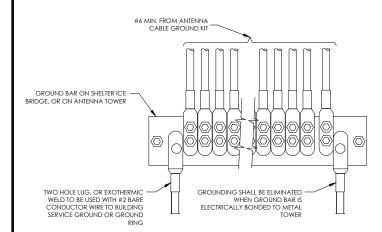
PANEL SCHEDULE & **ONE-LINE DIAGRAM**

E-2

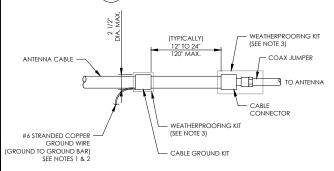


- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER, MOUNT DIRECTLY TO TOWER STEEL.

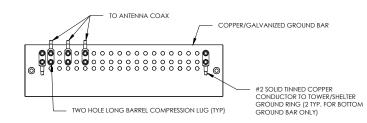
ANTENNA GROUND BAR DETAIL SCALE: NOT TO SCALE



GROUNDWIRE INSTALLATION SCALE: NOT TO SCALE

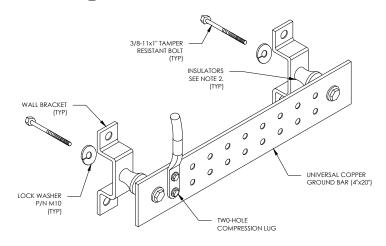


- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.
 - CABLE GROUND KIT CONNECTION 6) SCALE: NOT TO SCALE



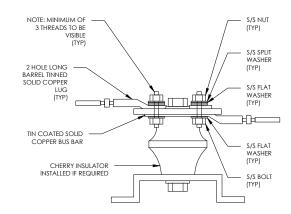
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

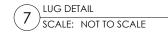
TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE

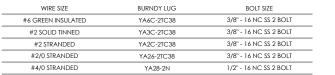


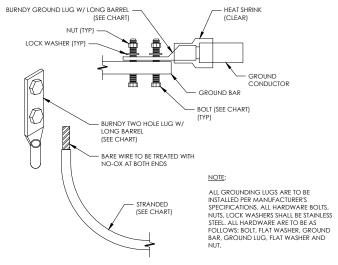
- 1. DOWN LEAD (HOME RUN) CONDUCTORS ARE <u>NOT</u> TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY GAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STELL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
- 2. OMIT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

GROUND BAR DETAIL SCALE: NOT TO SCALE

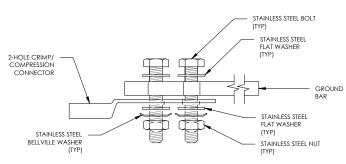




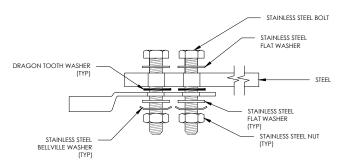




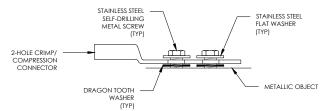
MECHANICAL LUG CONNECTION 3) SCALE: NOT TO SCALE



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

T - Mobile-



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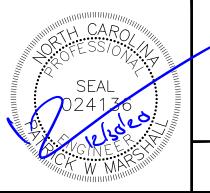
265' SELF SUPPORT T-MOBILE SPRINT KEEP

	-MODI	LE SPRINT NEEP
REV	DATE	DESCRIPTION
0	12/30/20	FOR CONSTRUCTION

SITE COORDINATES LAT: 35.311417 LONG: -79.15375

DRAWN: RSW CHECKED: PWM

20ASBTMMNC-0054



GROUNDING DETAILS

G-1