

VERIZON SITE NUMBER: 228809

VERIZON SITE NAME: LAKE CITY NORTH

PROJECT DESCRIPTION: RFDS 5G L-SUB6

TOWER TYPE: 400' GUYED

SITE ADDRESS: 279 NORTHWEST OSTEEN COURT, LAKE CITY, FL 32055 (COLUMBIA COUNTY)

JURISDICTION: COLUMBIA COUNTY

PRESENT OCCUPANCY TYPE: TELECOMMUNICATIONS FACILITY

CURRENT ZONING: INDUSTRIAL

PARCEL ID #: 19-3S-17-05070-004

PROJECT INFORMATION

LATITUDE: N 30° 12' 24.83" *
LONGITUDE: W 82° 39' 08.45" *
GROUND ELEVATION: 171± (AMSL) **

*INFORMATION PROVIDED BY RFDS
**INFORMATION PROVIDED BY GOOGLE EARTH

SITE COORDINATES

LOCATION MAP

verizon

4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

VZW SITE #: 228809
VZW SITE NAME: LAKE CITY NORTH

278 NORTHWEST OSTEEN COURT
LAKE CITY, FL 32055

LESSEE:
NAME: VERIZON WIRELESS
ADDRESS: 4700 EXCHANGE COURT, SUITE 100
CITY, STATE, ZIP: BOCA RATON, FL 33431
CONTACT: MARTHA GINTIS
PHONE: (561) 995-5539

TOWER OWNER:
NAME: VERIZON WIRELESS
ADDRESS: 4700 EXCHANGE COURT, SUITE 100
CITY, STATE, ZIP: BOCA RATON, FL 33431
CONTACT: MARTHA GINTIS
PHONE: (561) 995-5539

SURVEYOR:
NAME: N/A
ADDRESS: N/A
CITY, STATE, ZIP: N/A
CONTACT: N/A
PHONE: N/A

CIVIL ENGINEER:
NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 326 TRYON ROAD
CITY, STATE, ZIP: RALEIGH, NC 27603-3530
CONTACT: JOSHUA H. CARDEN, P.E.
PHONE: (919) 661-6351

ELECTRICAL ENGINEER:
NAME: TOWER ENGINEERING PROFESSIONALS
ADDRESS: 326 TRYON ROAD
CITY, STATE, ZIP: RALEIGH, NC 27603-3530
CONTACT: MARK S. QUAKENBUSH, P.E.
PHONE: (919) 661-6351

PROPERTY OWNER:
NAME: ALLTEL COMMUNICATIONS INC.
ADDRESS: P.O. BOX #501-9-245711
CITY, STATE, ZIP: ADDISON, TX 75001
CONTACT: CUSTOMER SERVICE
PHONE: N/A

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

1. 2020 FLORIDA BUILDING CODE, 7TH EDITION
2. LOCAL BUILDING CODE
3. ANSI/TIA-222-H-2-2017
4. 2017 NATIONAL ELECTRIC CODE
5. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

ULTIMATE WIND SPEED: 119 MPH
SERVICE WIND SPEED: 60 MPH
RISK CATEGORY: II
EXPOSURE CATEGORY: C
TOPOGRAPHIC CATEGORY: 1.0

INFORMATION PROVIDED BY PASSING STRUCTURAL ANALYSIS BY TOWER ENGINEERING PROFESSIONALS DATED 06/23/21.

DESIGN CRITERIA

UTILITIES:
POWER COMPANY: FLORIDA POWER & LIGHT
CONTACT: CUSTOMER SERVICE
PHONE: 1 (800) 226-3545
METER # NEAR SITE: 520 174 472
TELEPHONE COMPANY: BELL SOUTH
CONTACT: CUSTOMER SERVICE
PHONE: (888) 333-6651
PHONE # NEAR SITE: (386) 755-2611
PEDESTAL # NEAR SITE: UNKNOWN

THE PURPOSE OF THIS PROJECT IS AS FOLLOWS:

TOWER SCOPE OF WORK:
• REMOVE (3) CSS X7CAP-865-42-IP ANTENNAS
• INSTALL (3) ERICSSON AIR6449 ANTENNAS

GROUND SCOPE OF WORK:
• REMOVE (1) 6201 CABINET
• REMOVE (2) 4.0 BTS CDMA CABINETS
• REPLACE EXISTING BATTERIES
• INSTALL (1) 19" RACK

FOR MOUNT MODS: SEE MOUNT MOD DESIGN DWGS BY TECTONIC DATED 05/07/21.

SCOPE OF WORK

SHEET	DESCRIPTION	REV
T-1	TITLE SHEET	1
N-1	PROJECT NOTES	1
C-1	SITE PLAN	1
C-1A	EXISTING EQUIPMENT ROOM LAYOUT	1
C-1B	PROPOSED EQUIPMENT ROOM LAYOUT	1
C-2	TOWER ELEVATION	1
C-3A	EXISTING ANTENNA LAYOUT	1
C-3B	PROPOSED ANTENNA LAYOUT	1
C-3C	EXISTING ANTENNA & COAX SCHEDULE	1
C-3D	PROPOSED ANTENNA & COAX SCHEDULE	1
E-1	ELECTRICAL NOTES	1
E-2	POWER PANEL SCHEDULE	1
G-1	GROUNDING DETAILS	1

INDEX OF SHEETS

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net
FL COA # 31011

I	08-16-21	CONSTRUCTION
O	08-03-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: JGC CHECKED BY: JHJ

DIGITAL SEAL:
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSHUA H. CARDEN USING A DIGITAL SIGNATURE AND DATE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SEAL:

JOSHUA H. CARDEN
LICENSE
No 83511
Digitally signed by Joshua H. Carden
DN: c=US, o=TEP OPCO LLC,
ou=A01410D00000171564
cn=Joshua H. Carden
Date: 2021.08.16 11:26:19 -0400

August 16, 2021

SHEET NUMBER:
T-1

REVISION:
1
TEP#: 241157.485453

PROJECT NOTES:

1. ALL REFERENCES TO THE OWNER AND/OR LESSEE IN THESE DOCUMENTS SHALL BE CONSIDERED VERIZON OR ITS DESIGNATED REPRESENTATIVE.
2. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE, 7TH EDITION.
3. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
4. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
5. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
6. 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. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
8. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
9. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
10. IF APPLICABLE, ALL CONCRETE WORK SHALL COMPLY TO LOCAL CODES AND THE ACI 318–11, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
11. ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.
12. ALL TOWER MODIFICATION WORK SHALL BE IN ACCORDANCE WITH TIA–1019–A STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

PLANS PREPARED FOR:



4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995–5539

PROJECT INFORMATION:

VZW SITE #: 228809
VZW SITE NAME:
LAKE CITY NORTH
279 NORTHWEST OSTEEN COURT
LAKE CITY, FL 32055
(COLUMBIA COUNTY)

PLANS PREPARED BY:

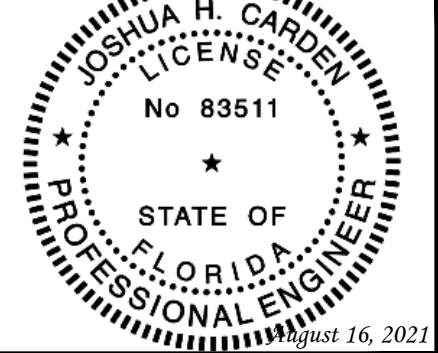


TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net
FL COA # 31011

DIGITAL SEAL:

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SEAL:



I	08-16-21	CONSTRUCTION
O	08-04-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: LLS	CHECKED BY: JHJ
---------------	-----------------

SHEET TITLE:

**PROJECT
NOTES**

SHEET NUMBER: N-1	REVISION: 1 TEP#: 241157.485453
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NOTES:

1. SITE PLAN SHOWN BELOW WAS REPRODUCED FROM INFORMATION PROVIDED BY COLUMBIA COUNTY GIS. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
2. EXISTING INFORMATION INDICATED ON THE SITE PLAN SHOWN WAS REPRODUCED BY INFORMATION PROVIDED BY COLUMBIA COUNTY GIS. TEP DOES NOT GUARANTEE, OR ENSURE THE PRECISION, ACCURACY OR CORRECTNESS AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DAMAGES, LOSS OF REVENUE, OR INJURY THAT MIGHT OCCUR.

EXISTING GUYED TOWER.
SEE SHEET C-2 FOR
ELEVATION.

EXISTING FENCED
TELECOMMUNICATIONS
COMPOUND

EXISTING PROPERTY
BOUNDARY

N/F
ALLTEL COMMUNICATIONS INC.
PARCEL #:
19-3S-17-05070-004
DB: 1114, PG: 2046

SITE PLAN

SCALE: 1" = 200'



PLANS PREPARED FOR:

verizon

4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

PROJECT INFORMATION:

VZW SITE #: 228809

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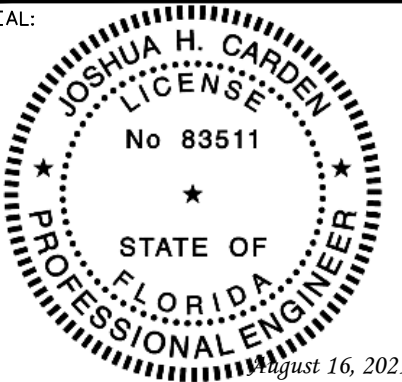
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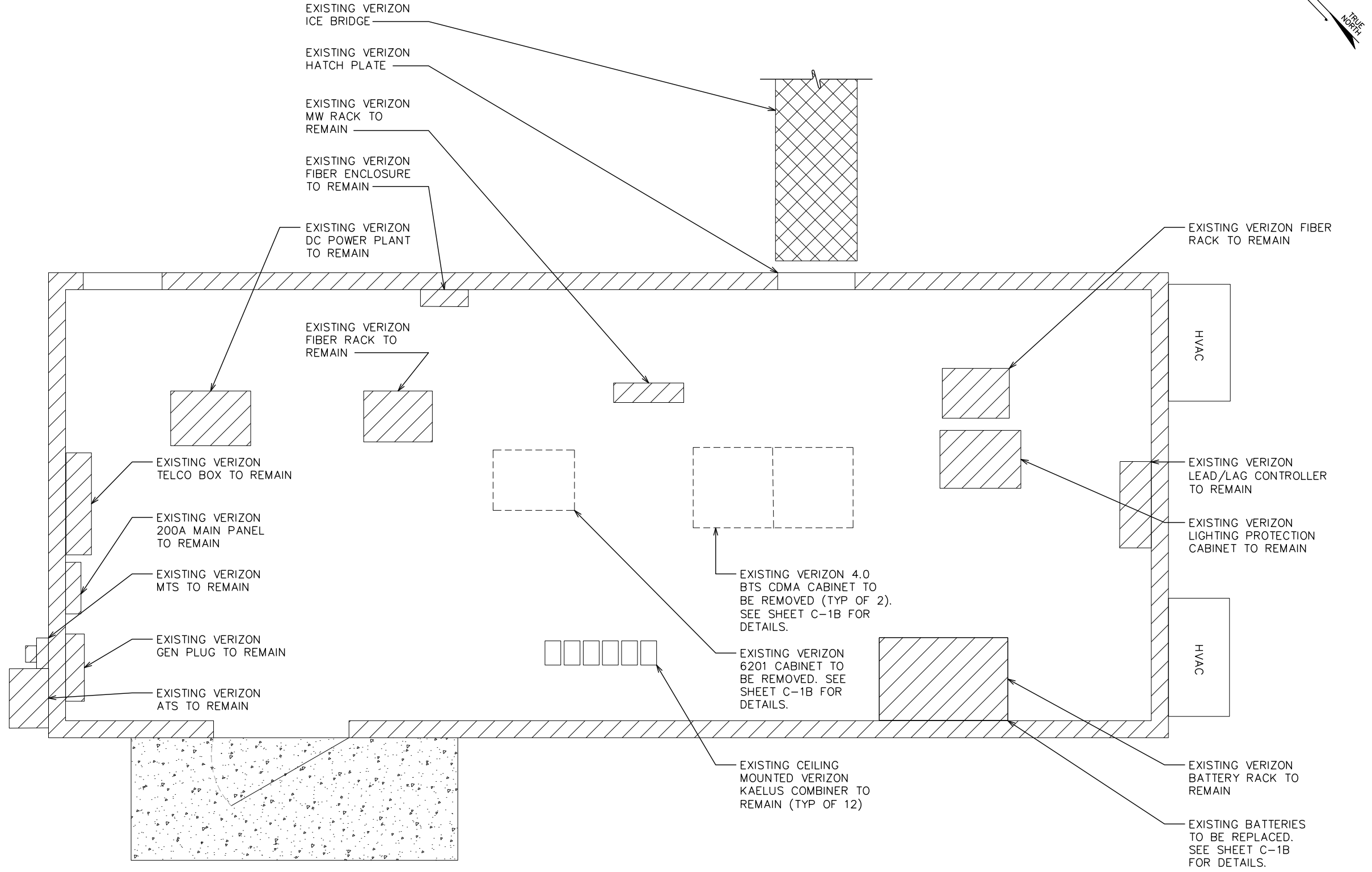
SHEET TITLE:

SITE PLAN

SHEET NUMBER:	REVISION:
C-1	1
TEP#: 241157.485453	

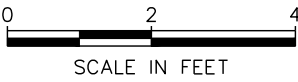
NOTE:

EQUIPMENT LAYOUT SHOWN BELOW BASED ON DOCUMENTS PROVIDED BY VERIZON WIRELESS.



EXISTING EQUIPMENT ROOM LAYOUT

SCALE: $\frac{3}{8}$ " = 1'-0"



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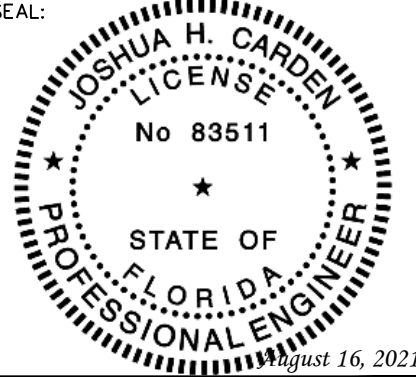


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REV	DATE	ISSUED FOR:

DRAWN BY: LLS CHECKED BY: JHJ

SHEET TITLE:

**EXISTING
EQUIPMENT
ROOM LAYOUT**

SHEET NUMBER: REVISION:

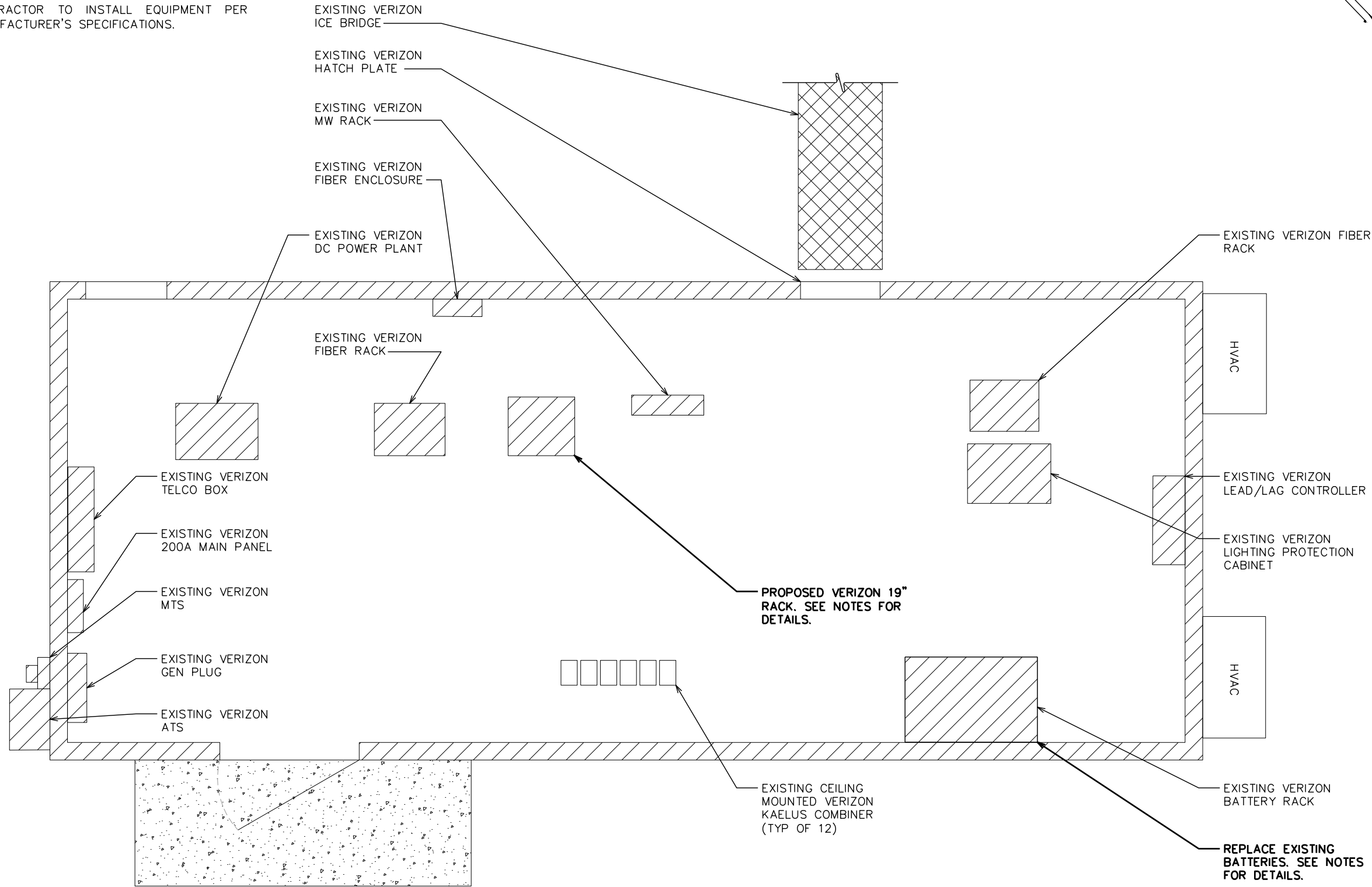
C-1A

1

TEP#: 241 | 57.485453

NOTES:

1. EQUIPMENT LAYOUT SHOWN BELOW BASED ON DOCUMENTS PROVIDED BY VERIZON WIRELESS.
2. CONTRACTOR TO INSTALL EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.



PROPOSED EQUIPMENT ROOM LAYOUT

SCALE: 3/8" = 1'-0"



PLANS PREPARED FOR:

verizon

4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

PROJECT INFORMATION:

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279 NORTHWEST OSTEEN COURT
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(COLUMBIA COUNTY)

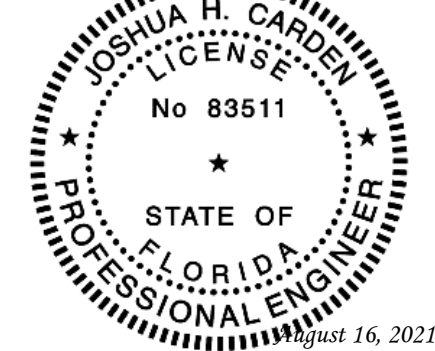
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DRAWN BY: LLS CHECKED BY: JHJ

SHEET TITLE:

**PROPOSED
EQUIPMENT
ROOM LAYOUT**

SHEET NUMBER: REVISION:

C-1B **1**
TEP#: 241157.485453

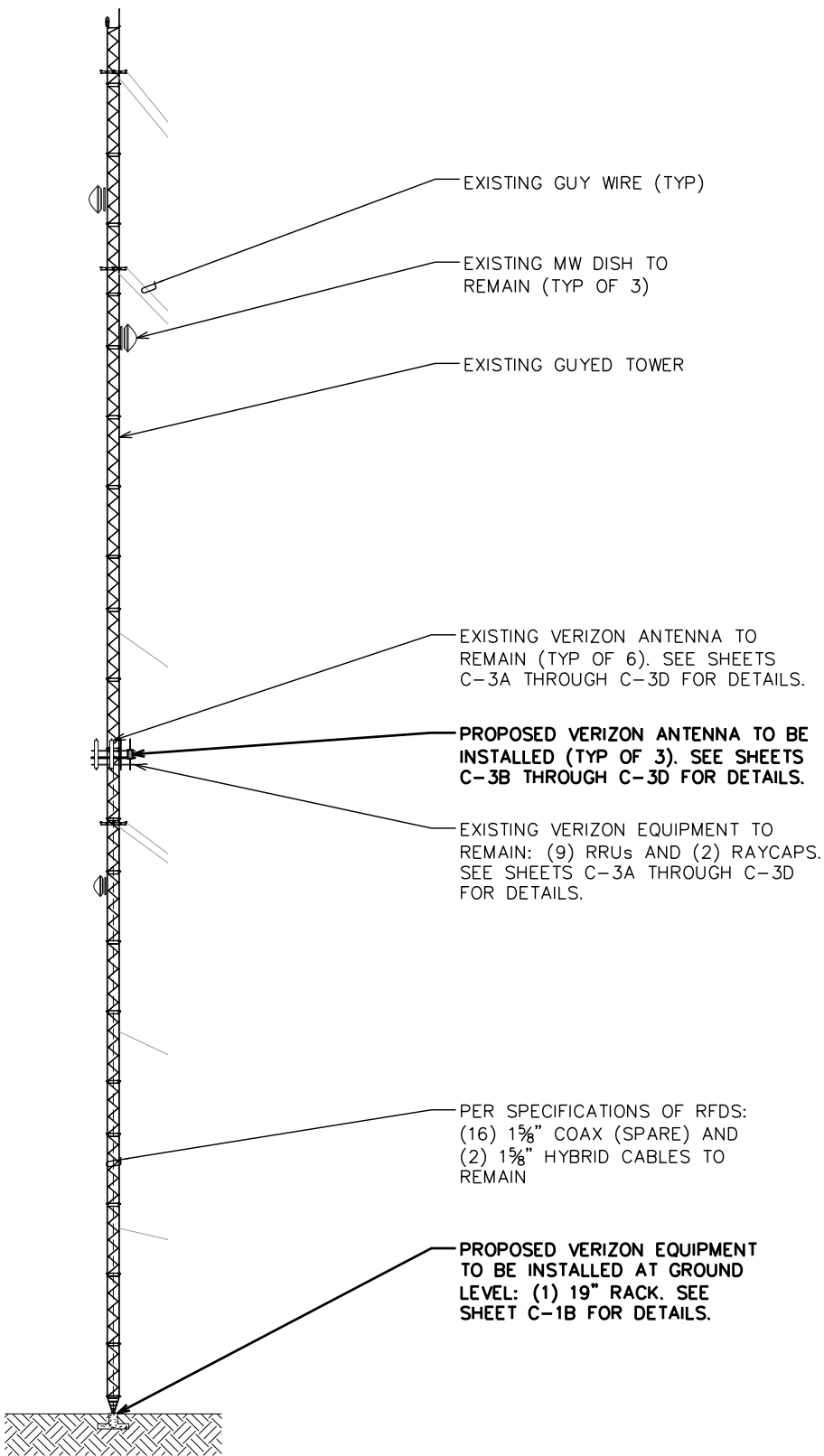
NOTES:

1. CONTRACTOR TO VERIFY LOADING WITH PASSING STRUCTURAL ANALYSIS REPORT BY TOWER ENGINEERING PROFESSIONALS DATED JUNE 23, 2021 PRIOR TO CONSTRUCTION.
2. THE DRAWING IS ONLY A GRAPHIC REPRESENTATION OF THE STRUCTURE. CONDITIONS IN THE FIELD MAY VARY.
3. CONTRACTOR TO INSTALL ALL EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.
4. FAA APPROVED OVERALL HEIGHT = 420'-0".

400'-0"±
T/TOWER

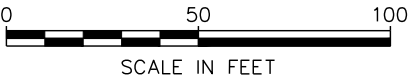
190'-0"±
CL/VERIZON ANTENNAS

0'-0" (REFERENCE)
T/BASE PLATE



PROPOSED TOWER ELEVATION

SCALE: 1" = 50'



PLANS PREPARED FOR:

verizon

4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
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PROJECT INFORMATION:

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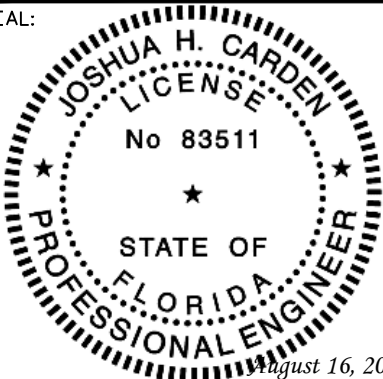
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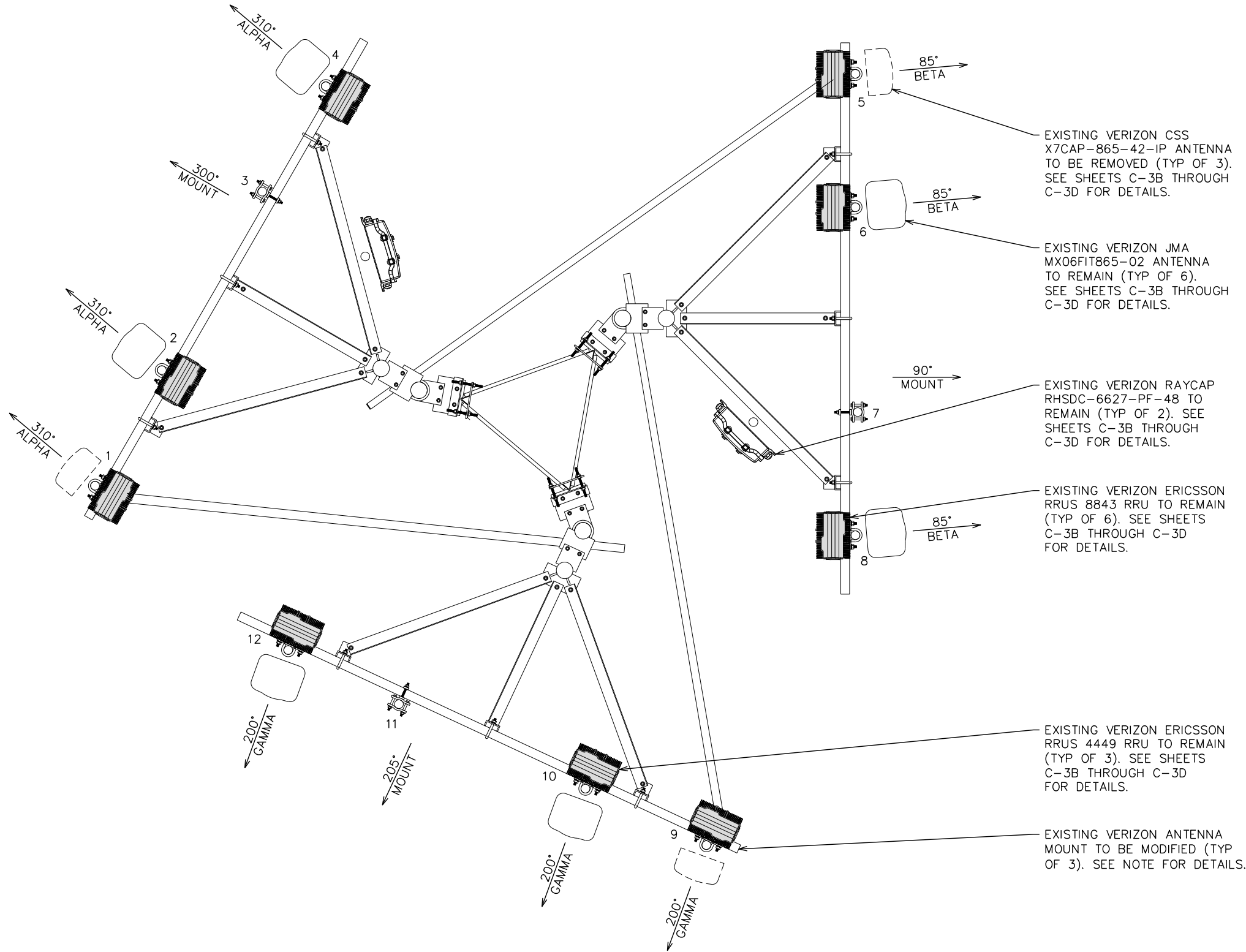
SHEET TITLE:

**TOWER
ELEVATION**

SHEET NUMBER:	REVISION:
C-2	1
TEP#: 241157.485453	

NOTE:

EXISTING MOUNTS DO NOT HAVE SUFFICIENT CAPACITY TO HOLD PROPOSED LOADING. SEE ANTENNA MOUNT ANALYSIS REPORT BY TECTONIC DATED APRIL 15, 2021 FOR DETAILS.



EXISTING ANTENNA LAYOUT @ 190'-0"

SCALE: 3/8" = 1'-0"



PLANS PREPARED FOR:



4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

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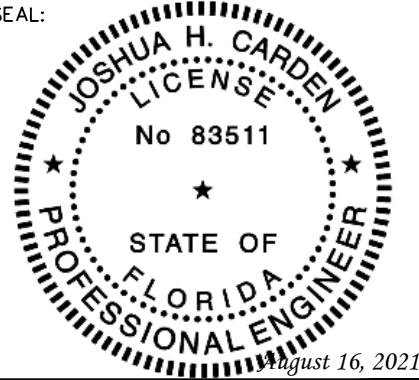


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DRAWN BY: LLS CHECKED BY: JHJ

SHEET TITLE:

EXISTING
ANTENNA LAYOUT

SHEET NUMBER: REVISION:

C-3A **1**
TEP#: 241157.485453

1. EXISTING MODIFIED MOUNTS HAVE SUFFICIENT CAPACITY TO HOLD PROPOSED LOADING AND REQUIRES MODIFICATION. SEE POST-MOD ANTENNA MOUNT ANALYSIS REPORT AND PMI REQUIREMENTS BY TECTONIC DATED MAY 7, 2021, AND MOUNT MODIFICATION DRAWINGS BY TECTONIC DATED MAY 7, 2021 FOR DETAILS.
2. CONTRACTOR TO INSTALL ALL EQUIPMENT PER MANUFACTURER'S SPECIFICATION.
3. CONTRACTOR TO VERIFY PROPOSED LOADING WITH TOWER STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION.



SHEET NUMBER: C-3B	REVISION: 1
	TEP#: 241157.485453

0 2

SCALE IN FEET

EXISTING ANTENNA & COAX SCHEDULE											
POS.	SECTOR	USE	MANUFACTURER (MODEL #)	RAD CENTER	CABLE SIZE	AZIMUTH (TN)	CABLE LENGTH	MECH. D-TILT	ELEC. D-TILT	EQUIPMENT [MODEL #]	J-BOX (TOWER)
1	ALPHA	AWS3 700 LTE 850 CDMA 850 LTE 1900 LTE 2100 LTE	*CSS X7CAP-865-42-IP	℄ @ 190'-0"±	(16) 1½"ø COAX (SPARE) (2) 1½"ø HYBRIDS	310°	230'±	0°	4°	(1) ERICSSON RRU [RRUS 4449] (2) ERICSSON RRUs [RRUS 8843]	(2) RAYCAPS [RHSDC-6627-PF-48] **(2) RAYCAPS [RHSDC-6627-PF-48]
2	ALPHA		JMA MX06FIT865-02	℄ @ 190'-0"±		310°		0°	2°/0°		
3	ALPHA		-	-		-		-	-		
4	ALPHA		JMA MX06FIT865-02	℄ @ 190'-0"±		310°		0°	2°/0°		
5	BETA	AWS3 700 LTE 850 CDMA 850 LTE 1900 LTE 2100 LTE	*CSS X7CAP-865-42-IP	℄ @ 190'-0"±		85°		0°	4°	(1) ERICSSON RRU [RRUS 4449] (2) ERICSSON RRUs [RRUS 8843]	
6	BETA		JMA MX06FIT865-02	℄ @ 190'-0"±		85°		0°	2°/0°		
7	BETA		-	-		-		-	-		
8	BETA		JMA MX06FIT865-02	℄ @ 190'-0"±		85°		0°	2°/0°		
9	GAMMA	AWS3 700 LTE 850 CDMA 850 LTE 1900 LTE 2100 LTE	*CSS X7CAP-865-42-IP	℄ @ 190'-0"±		200°		0°	4°	(1) ERICSSON RRU [RRUS 4449] (2) ERICSSON RRUs [RRUS 8843]	
10	GAMMA		JMA MX06FIT865-02	℄ @ 190'-0"±		200°		0°	2°/0°		
11	GAMMA		-	-		-		-	-		
12	GAMMA		JMA MX06FIT865-02	℄ @ 190'-0"±		200°		0°	2°/0°		

*NOTE-EXISTING ANTENNA/EQUIPMENT TO BE REMOVED
**NOTE-EQUIPMENT MOUNTED IN EQUIPMENT ROOM AT GROUND LEVEL

GROUND WORK:

CONTRACTOR TO REMOVE: (1) 6201 CABINET AND (2) 4.0 BTS CDMA CABINETS.
CONTRACTOR TO REPLACE: EXISTING BATTERIES.

EXISTING ANTENNA & COAX SCHEDULE @ 190'-0"

SCALE: N.T.S.

PLANS PREPARED FOR:



4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

PROJECT INFORMATION:

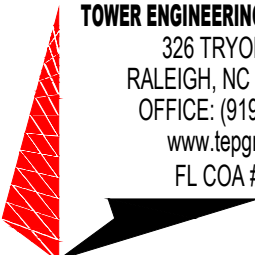
VZW SITE #: 228809

VZW SITE NAME:

LAKE CITY NORTH

279 NORTHWEST OSTEEN COURT
LAKE CITY, FL 32055
(COLUMBIA COUNTY)

PLANS PREPARED BY:

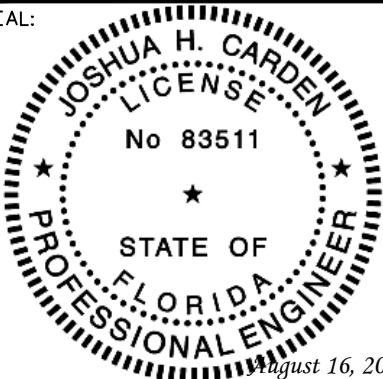


TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
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FL COA # 31011

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SEAL:



I	08-16-21	CONSTRUCTION
O	08-04-21	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: LLS CHECKED BY: JHJ

SHEET TITLE:

EXISTING ANTENNA
& COAX SCHEDULE

SHEET NUMBER:	REVISION:
C-3C	1
TEP#: 241 57.485453	

PROPOSED EQUIPMENT IN BOLD>

PROPOSED ANTENNA & COAX SCHEDULE											
POS.	SECTOR	USE	MANUFACTURER (MODEL #)	RAD CENTER	CABLE SIZE	AZIMUTH (TN)	CABLE LENGTH	MECH. D-TILT	ELEC. D-TILT	EQUIPMENT [MODEL #]	J-BOX (TOWER)
1	ALPHA	AWS3 700 LTE 850 LTE 1900 LTE 2100 LTE 850 5G NR NL-SUB6	ERICSSON AIR6449	☎ @ 190'-0"±	(16) 1 5⁄8"∅ COAX (SPARE) (2) 1 5⁄8"∅ HYBRIDS	310°	*230'±	**	**	(1) ERICSSON RRU [RRUS 4449] (2) ERICSSON RRUs [RRUS 8843]	(2) RAYCAPS [RHSDC-6627-PF-48] *** (2) RAYCAPS [RHSDC-6627-PF-48]
2	ALPHA		JMA MX06FIT865-02	☎ @ 190'-0"±		310°		**	**		
3	ALPHA		-	-		-		-	-		
4	ALPHA		JMA MX06FIT865-02	☎ @ 190'-0"±		310°		**	**		
5	BETA	AWS3 700 LTE 850 LTE 1900 LTE 2100 LTE 850 5G NR NL-SUB6	ERICSSON AIR6449	☎ @ 190'-0"±		85°		**	**	(1) ERICSSON RRU [RRUS 4449] (2) ERICSSON RRUs [RRUS 8843]	
6	BETA		JMA MX06FIT865-02	☎ @ 190'-0"±		85°		**	**		
7	BETA		-	-		-		-	-		
8	BETA		JMA MX06FIT865-02	☎ @ 190'-0"±		85°		**	**		
9	GAMMA	AWS3 700 LTE 850 LTE 1900 LTE 2100 LTE 850 5G NR NL-SUB6	ERICSSON AIR6449	☎ @ 190'-0"±		200°		**	**	(1) ERICSSON RRU [RRUS 4449] (2) ERICSSON RRUs [RRUS 8843]	
10	GAMMA		JMA MX06FIT865-02	☎ @ 190'-0"±		200°		**	**		
11	GAMMA		-	-		-		-	-		
12	GAMMA		JMA MX06FIT865-02	☎ @ 190'-0"±		200°		**	**		

*NOTE-CONTRACTOR TO VERIFY COAX/CABLE LENGTHS PRIOR TO CONSTRUCTION. CONTRACTOR TO REFERENCE VERIZON ISSUED RFDS PRIOR TO CONSTRUCTION.
**NOTE-CONTRACTOR TO REFERENCE VERIZON ISSUED RFDS FOR MECH./ELEC. D-TILTS
***NOTE-EQUIPMENT MOUNTED IN EQUIPMENT ROOM AT GROUND LEVEL

GROUND WORK:

CONTRACTOR TO INSTALL: (1) 19" RACK.

PROPOSED ANTENNA & COAX SCHEDULE @ 190'-0"

SCALE: N.T.S.

PLANS PREPARED FOR:



4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

PROJECT INFORMATION:

VZW SITE #: 228809

VZW SITE NAME:

LAKE CITY NORTH

279 NORTHWEST OSTEEN COURT
LAKE CITY, FL 32055
(COLUMBIA COUNTY)

PLANS PREPARED BY:

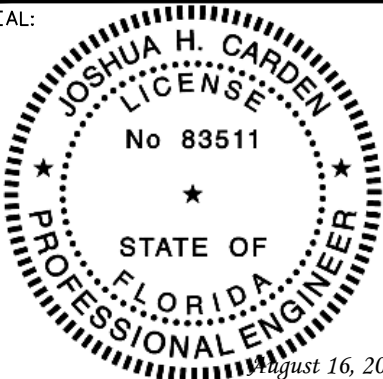
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DRAWN BY: LLS CHECKED BY: JHJ

SHEET TITLE:

PROPOSED ANTENNA
& COAX SCHEDULE

SHEET NUMBER:	REVISION:
C-3D	1
TEP#: 241157.485453	

SCOPE:

- CODES:**

- TESTING:**

- GUARANTEE:**

- UTILITY CO-ORDINATION:**

- EXAMINATION OF SITE:**

- ### CUTTING, PATCHING AND EXCAVATION:

- ### RACEWAYS / CONDUITS GENERAL:

- EXTERIOR CONDUIT:**

- INTERIOR CONDUIT:**

EQUIPMENT:

CONDUCTORS:

UL COMPLIANCE:

GROUNDING:

ABBREVIATIONS AND LEGEND

A	— AMPERE	PNLBD	— PANELBOARD
AFG	— ABOVE FINISHED GRADE	PVC	— RIGID NON—METALLIC CONDUIT
ATS	— AUTOMATIC TRANSFER SWITCH	RGS	— RIGID GALVANIZED STEEL CONDUIT
AWG	— AMERICAN WIRE GAUGE	SW	— SWITCH
BCW	— BARE COPPER WIRE	TGB	— TOWER GROUND BAR
BFG	— BELOW FINISHED GRADE	UL	— UNDERWRITERS LABORATORIES
BKR	— BREAKER	V	— VOLTAGE
C	— CONDUIT	W	— WATTS
CKT	— CIRCUIT	XFMR	— TRANSFORMER
DISC	— DISCONNECT	XMTR	— TRANSMITTER

-----E-----	UNDERGROUND ELECTRICAL CONDUIT
-----T-----	UNDERGROUND TELEPHONE CONDUIT
	KILOWATT-HOUR METER
-----	UNDERGROUND BONDING AND GROUNDING CONDUCTOR
	GROUND ROD
	CADWELD
	GROUND ROD WITH INSPECTION WELL

PLANS PREPARED FOR:



4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

PROJECT INFORMATION:

VZW SITE #: 228809
VZW SITE NAME:
LAKE CITY NORTH

279 NORTHWEST OSTEEN COURT
LAKE CITY, FL 32055
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PLANS PREPARED BY:

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326 TRYON ROAD

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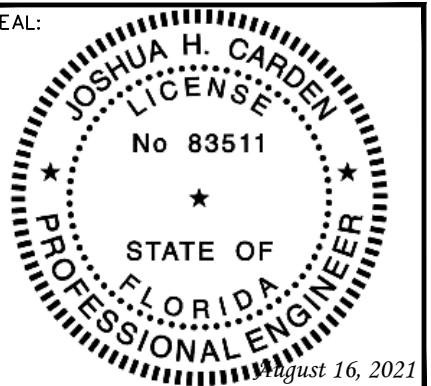
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---------------	-----------------

SHEET TITLE:

ELECTRICAL NOTES

SHEET NUMBER:

E-1

REVISION:

1

TEP#:241157.485453

NOTES:

1. ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
2. MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50-FT.
3. INTERSECT/GENERAC INTEGRATED LOAD CENTER INCLUDES 200A MAIN DISCONNECT AND TRANSFER SWITCH FOR PORTABLE OR PERMANENT GENERATOR.
4. RECTIFIER LOADS ARE CONSIDERED TO BE NON-CONTINUOUS.
5. IF ADDITIONAL FUTURE LOADS ARE ADDED WHICH CAUSE TOTAL DEMAND TO EXCEED GENERATOR BREAKER SIZE, BACKUP POWER SYSTEM SHALL BE EVALUATED AND UPGRADED AS NECESSARY.
6. THE RECTIFIER QUANTITY AND LOADING ARE BASED ON CALCULATIONS PROVIDED BY VERIZON DATED 02/11/21. CHANGES TO THE DC LOADING MAY REQUIRE UPDATES TO THE AC POWER DESIGN OR OTHER EQUIPMENT CHANGES.
7. EXISTING LOADING ON THE PANEL IS TAKEN FROM UTILITY BILLS.

PROPOSED BREAKER/LOAD SHOWN IN BOLD

PANEL SCHEDULE - 200A MCB 120/240V												
LOAD SERVED	VOLT AMPERES (WATTS)		TRIP	CKT #	PHASE		CKT #	TRIP	VOLT AMPERES (WATTS)		LOAD SERVED	
	L1	L2							L1	L2		
HVAC #1	1600		60A	1	A		2	20A	-		***LTE CABINET	
		1600		3	B		4			-		
HVAC #2	1600		60A	5	A		6	40A	•1137		RECTIFIERS 1.1 & 1.2	
		1600		7	B		8			•1137		
EMERG. LIGHTS	140		20A	9	A		10	40A	•1137		RECTIFIERS 2.1 & 2.2	
RECEPTACLES		50	20A	11	B		12		•1137			
RECEPTACLES	50		20A	13	A		14	40A	•1137		RECTIFIERS 3.1 & 3.2	
HALON PANEL		540	20A	15	B		16		•1137			
EQUIP PWR OUTLET #1	540		20A	17	A		18	40A	•1137		RECTIFIERS 4.1 & 4.2	
EQUIP PWR OUTLET #2		5040	20A	19	B		20		•1137			
EQUIP PWR OUTLET #3	540		20A	21	A		22	40A	•1137		RECTIFIERS 1.3 & 1.4	
INT/EXT LIGHTS		540	20A	23	B		24		•1137			
***850 CDMA CABINET	-		30A	25	A		26	40A	•1137		RECTIFIERS 2.3 & 2.3	
		-		27	B		28		•1137			
***850 CDMA CABINET	-		30A	29	A		30	20A	540		TOWER LIGHTING	
		-		31	B		32	30A		800	HUA WEI	
***LTE CABINET	-		20A	33	A		34		800			
		-		35	B		36	30A		-	***LTE CABINET	
***LTE CABINET	-		20A	37	A		38		-			
		-		39	B		40	30A		800	UNKNOWN	
PRUE TOWER	540		20A	41	A		42		800			
VOLT AMPS	5010	4870							8962	8422	VOLT AMPS	
L1 VOLT AMPERES				13972	13292		L2 VOLT AMPERES					
				139272		MAX L1/L2 VOLT AMPERES						
				116.43		MAX AMPS						
				145.54		MAX AMPS x125%						

*LOADING BASED ON VALUES FROM OTHR3000 CALCULATOR
**GENERATOR BATTERY CHARGER LOAD IS 0 VA DURING GENERATOR OPERATION
***BREAKERS IN OFF POSITION
****BREAKER IS NOT LABELED IN CIRCUIT DIRECTORY

POWER PANEL SCHEDULE

SCALE: N.T.S.

PLANS PREPARED FOR:



4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

PROJECT INFORMATION:

VZW SITE #: 228809

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PLANS PREPARED BY:

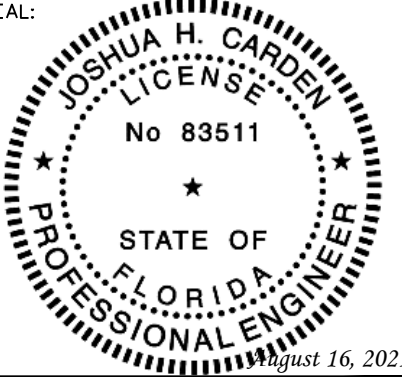
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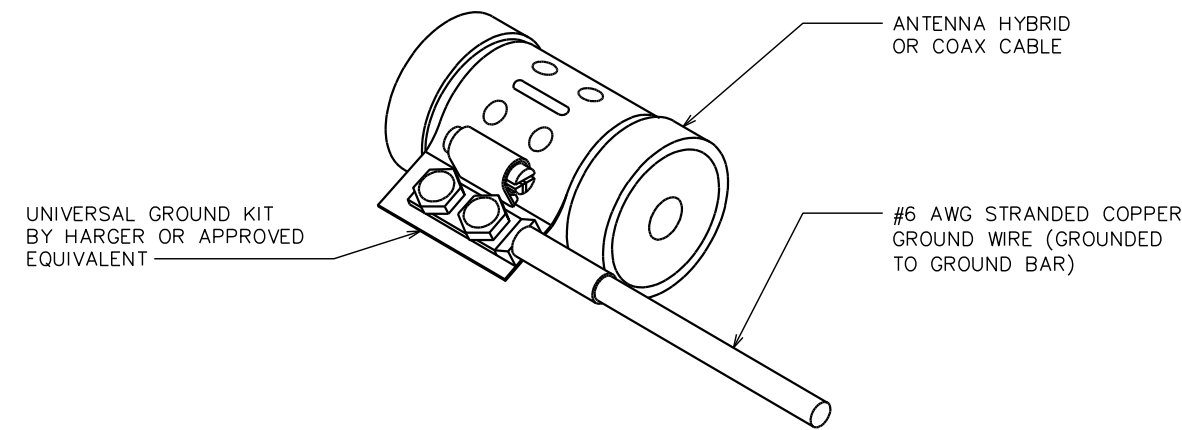
SHEET TITLE:

POWER PANEL
SCHEDULE

SHEET NUMBER:	REVISION:
E-2	1
TEP#: 241157.485453	

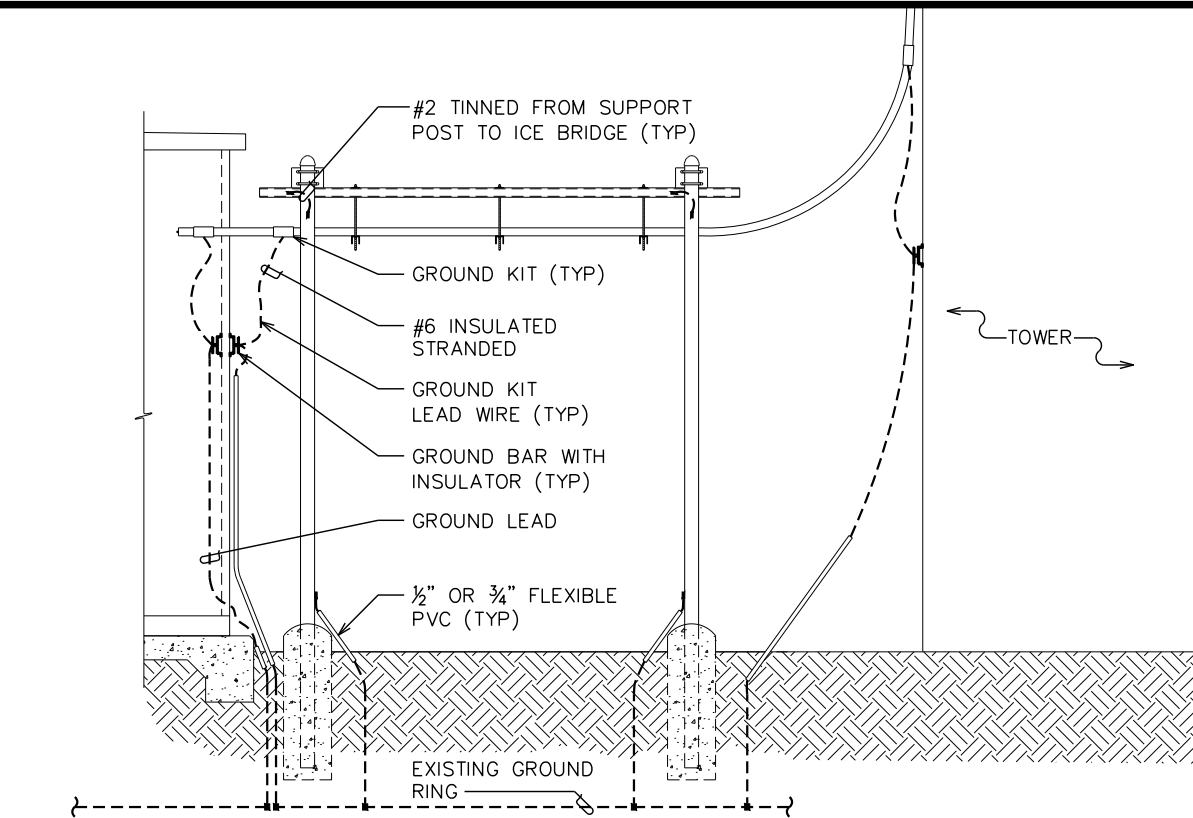
NOTES:

- 1. DO NOT INSTALL COAX GROUND KIT AT A BEND.
- 2. CONTRACTOR TO WEATHERPROOF COAX GROUND.



GROUNDING DETAILS

SCALE: N.T.S.

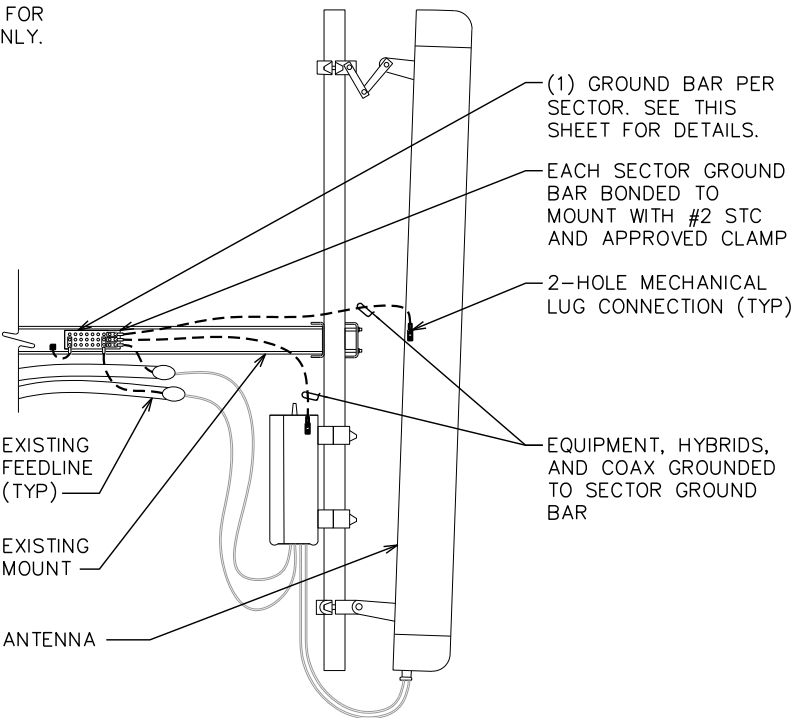


ICE BRIDGE/HYBRID/COAX/GROUNDING BAR ELEVATION

SCALE: N.T.S.

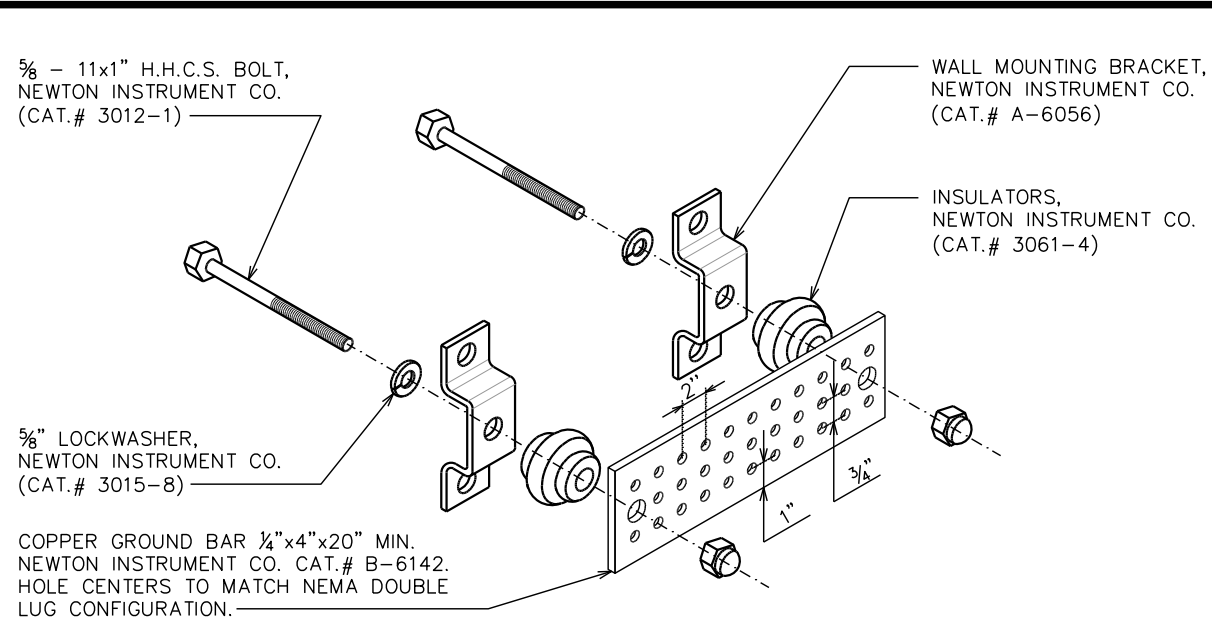
NOTE:

DRAWING SHOWN BELOW FOR SCHEMATIC PURPOSES ONLY.



ANTENNA & EQUIPMENT GROUNDING DETAIL

SCALE: N.T.S.



NOTES:

- 1. GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED AS WELL AS PROVIDE 50% SPARE CAPACITY.
- 2. ALL RACKS AND EQUIPMENT CABINETS ARE TO HAVE TWO GROUNDING LEADS. ALL EQUIPMENT INSTALLED IN RACKS MUST HAVE A CHASSIS GROUND ATTACHED TO A COMMON BUS BAR ON THE RACK. COMMON BUS BAR MUST BE GROUND TO MAIN GROUND BAR.

STANDARD GROUND BAR DETAILS

SCALE: N.T.S.

PLANS PREPARED FOR:

verizon

4700 EXCHANGE COURT, SUITE 100
BOCA RATON, FL 33431
(561) 995-5539

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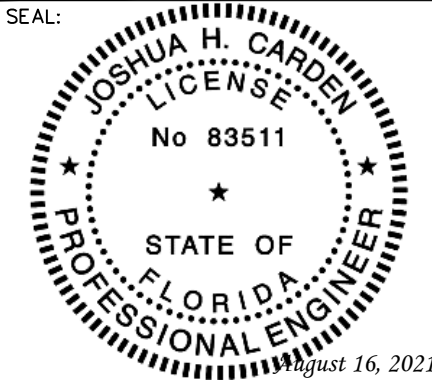
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