T-MOBILE SITE ID: 5DR0307A

PROJECT TYPE: **ANCHOR**

PROJECT DESCRIPTION: EQUIPMENT INSTALLATION

TOWER TYPE: 250' SELF-SUPPORT TOWER

JURISDICTION: HARNETT COUNTY

PRESENT OCCUPANCY TYPE: **TELECOMMUNICATIONS**

CURRENT ZONING: RA-30

PARCEL #: 1527-92-3974.000

TECHNOLOGY TYPE: ERICSSON/RFS

BACKHAUL TYPE: TELCO/FIBER

PROJECT INFORMATION

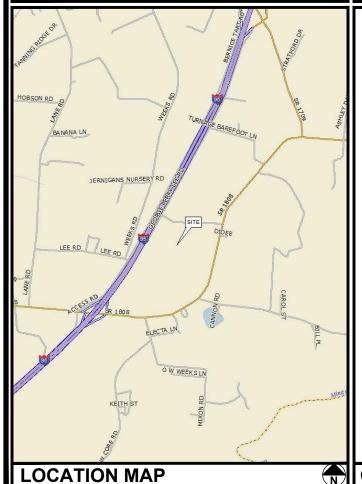
LATITUDE N 35° 19' 22.58"* (35.32294) LONGITUDE W 74° 33' 56.84"* (-78.56579)

GROUND ELEVATION = 231'± (AMSL)**

*INFORMATION PROVIDED BY ATC

**INFORMATION PROVIDED BY GOOGLE EARTH

TOWER COORDINATES



T--Mobile-



2105 WATER RIDGE PKWY **CHARLOTTE, NC 28217**

T-MOBILE SITE ID: 5RD0307A T-MOBILE SITE NAME: ADDIE WEBB ALLTEL (LAKESIDE)

> 155 ADDIE WEBB LANE. **DUNN, NC 28334-8776** (HARNETT COUNTY)

ANCHOR CONFIGURATION: 67D5998E_1XAIR+10P+1QP INDOOR

2105 WATER RIDGE PKWY CITY, STATE, ZIP: CHARLOTTE, NC 28217

TOWER OWNER:

NAME: ADDRESS: AMERICAN TOWER
10 PRESIDENTIAL WAY CITY, STATE, ZIP: WOBURN, MA 01801
SITE NAME: LAKESIDE RD NC

PROPERTY OWNER:

NAME:

CHARLES E WEBB TESTAMENTARY TRUST U & SMITH ANITA W TRUSTEE

ADDRESS: 4529 SOUTH RIDGE DR CITY, STATE, ZIP: FUQUAY VARINA, NC 27526-8539

CIVIL ENGINEER:

ADDRESS:

TOWER ENGINEERING 326 TRYON ROAD CITY, STATE, ZIP: RALEIGH, NC 27603-3530 CONTACT: SCOTT BRANTLEY, P.E.

(919) 661-6351

ELECTRICAL ENGINEER:

TOWER ENGINEERING PROFESSIONALS CITY, STATE, ZIP: RALEIGH, NC 27603-3530
CONTACT: MARK S. QUAKENBUSH, P.E.

UTILITIES: POWER COMPANY:

METER # NEAR SITE:

FIBER COMPANY: PHONE # NEAR SITE: (336) 667-2505 PEDESTAL # NEAR SITE: UNKNOWN

SHEET DESCRIPTION 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

T2-T6 APPENDIX B LATEST EDITIONS OF THE FOLLOWING

- INTERNATIONAL BUILDING CODE 4. 2020 NEC (2018 EDITION) W/ NC AMENDMENTS 5. LOCAL BUILDING CODE NORTH CAROLINA CODE COUNCIL 6. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

THE PROPOSED PROJECT SCOPE OF WORK WILL CONSIST OF REMOVING ANTENNA MOUNTS, ANTENNAS, RADIOS, CABLES, AND RELATED EQUIPMENT AS WELL AS GROUND EQUIPMENT AND THE INSTALLATION OF ANTENNA. RADIOS. CABLES AND RELATED EQUIPMENT ON THE TOWER AS WELL AS RADIOS, CABINETS. UTILITIES AND ANCILLARY EQUIPMENT ON THE GROUND.

PROJECT SCOPE OF WORK

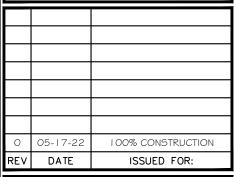
CONTACT: PHONE:

CUSTOMER SERVICE (800) 777-9898 328 444 636

CENTURYLINK CUSTOMER SERVICE

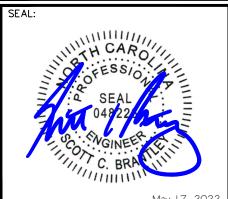
		TITLE STILLT	U					
	T2-T6	APPENDIX B	0					
Ш	N1	PROJECT NOTES	0					
	C1	SITE PLAN	0					
	C1A	COMPOUND DETAIL	0					
	C1B	EQUIPMENT LAYOUT	0					
41	C2	TOWER ELEVATION						
Ш	C3	EXISTING AND PROPOSED ANTENNA PLAN	0					
Ц	C4	EXISTING ANTENNA & CABLE SCHEDULE						
11	C5	PROPOSED ANTENNA & CABLE SCHEDULE	0					
Ш	C6	CABINET DETAILS	0					
Ш	C7	EQUIPMENT DETAILS	0					
Ш	E1	ELECTRICAL NOTES	0					
Ш	E2	ONE-LINE DIAGRAM & ELECTICAL DETAILS	0					
П	E3	POWER PANEL SCHEDULES	0					
11	E4	ROUTING PLAN & EQUIPMENT GROUNDING PLAN	0					
П	G1	TMO GROUNDING NOTES	0					
1	G2	GROUNDING DETAILS I	0					
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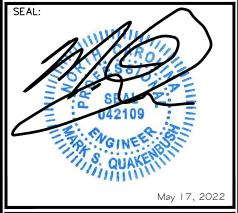




DRAWN BY: CHECKED BY:

REV





SHEET NUMBER:

TEP#: 129994.320

CONTACT INFORMATION

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:	ADDIE WEBB ALLTEL (LAKE	SSIDE)				
	DIE WEBB LANE, DUNN, NC				Zin Code	28334-8776
	ed Agent: _traci Brinson	Phone # (410	905 - 1036			aci.Brinson@AmericanTow
Owned By:		/County	☐ Private	_	☐ State	
Code Enforceme	= '	·	County_HAR	NETT	☐ State	
CONTACT:	Т	ower Engineering Prof	essionals			
DESIGNER Architectural	FIRM	NAME	LICENSE#	TELEPHO	NE# E	-MAIL
Civil	Tower Engineering Professionals	Scott Brantley, P.E.	048226	(919) 661		antaley@tepgroup.net
Electrical	$\underline{\text{Tower Engineering Professionals}}$	Mark S. Quakenbush	042109	(919) 661	-6351 mq	uakenbush@tepgroup.
Fire Alarm Plumbing				()		
Mechanical						
Sprinkler-Standp	ipe			()		
Structural	ELTE-1			()		
Other	>5' High			()		
("Other" should	include firms and individua	ls such as truss, pr	ecast, pre-engine	ered, interi	ior designe	ers, etc.)
2018 NC BUILDING CODE: New Building Addition Renovation 1st Time Interior Completion Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell						
BASIC BUILDI Construction Ty (check all that ap Sprinklers: Standpipes: Fire District: Special Inspection	ply) □ I-A □ I-B □ No □ Partial □ Ye ☑ No □ Yes Class □ No □ Yes	☐ I ☐ II Flood Hazard A Yes (Contact the	□ III □ Werrea: ⊠ No	jurisdictio	☐ NFPA on for addit	

	Gr	oss Building Area Table	
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor	N/A	/	
2 nd Floor	N/A		
Mezzanine	N/A		
1st Floor	336 SQ FT EQUIPMENT SHELTER		
Basement	N/A		
TOTAL	2 336 SQ FT EQUIPMENT SHELTER		
	A	ALLOWABLE AREA	
Assembly Business Education Factory Hazardou Institution Mercantil Residenti Storage Utility an Accessory Oc	A-1	Weflagrate H-3 Combust D 2 2 2 2 R-4 Cow High-piled Enclosed Repair Gara	-
	es (Table 509): N/A (Chapter 4 – List Code Sections)• N/A	
-	sions: (Chapter 5 – List Code S		
Mixed Occup	oancy: 🗵 No 🗌 Yes	Separation: Hr.	
-	fon-Separated Use (508.3) - The apply occu		of the applicable restrictive type of the entire building.
□ Se	eparated Use (508.4) - See below be such th the allowa	for area of at the solution in	y, the area of the occupancy shall ctual floor area of each use divided by 1 not exceed 1.
	tual Area of Occupancy A wable Area of Occupancy A + +	Apancy Occupano	$\frac{\partial B}{\partial y} \leq 1$ $+ \dots = \leq 1.00$

2018 NC Administrative Code and Policies 2018 NC Administrative Code and Policies PLANS PREPARED FOR:

T - Mobile-

2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A **ADDIE WEBB ALLTEL**

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

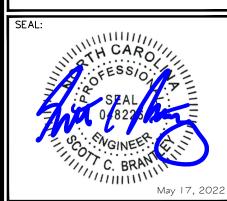
PLANS PREPARED BY:



RALEIGH, NC 27603-3530 OFFICE: (919) 661-6351

www.tepgroup.net

NC LIC#: P-1403



05-17-22 100% CONSTRUCTION DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY:

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

REVISION: 0

STO	ORY	DESCRIPTION AND	(A)	(B)	(c)	(D)		
N	o.	USE	BLDG AREA PER	TABLE 5	AREA FOR FRONTAGE	ALLOWABLE AREA PER		
			STORY (ACTUAL)		INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}		
					C			
				_	<i>G</i> //			
				> \ \\				
rontag	rontage area increases from Section 50 a. Perimeter which fronts a publication of the properties of th							
	a. Perimeter which fronts a publ / ling 20 feet minimum width = (F)							
b.	Total	Building Perimeter		· //				
		(F/P) =	΄ Α ^Υ					
d.								
e.								
J <mark>nlimi</mark>	ted are	ea applicable under co		on 507.				

² Unlimited area applicable under co section 507.

³ Maximum Building Area = total nume stories in the building x D (maximum3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

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

ALLOWABL MOTABUILDING WN 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" qua

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION	REQ'D	RATING PROVIDED	DETAIL#	DESIGN# FOR	SHEET # FOR RATED	SHEET # FOR
	DISTANCE (FEET)		(W/* REDUCTION)		RATED ASSEMBLY	PENETRATION	RATED JOINTS
Structural Frame,							
including columns, girders, trusses				. 7 _C			
Bearing Walls					<u> </u>		
Exterior				Y			
North		_//	4.71	•			
East			· 65°				
West			\\\\				
South			۱				
Interior		. (` //				
Nonbearing Walls and Partitions		4	NIA JI				
Exterior walls			<u> </u>				
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction	-						
Including supporting beams							
and joists							
Floor Ceiling Assembly							
Columns Supporting Floors				_			
Roof Construction, including supporting beams and joists			MAGU	.40			
Roof Ceiling Assembly							
Columns Supporting Roof				Y //			
Shaft Enclosures - Exit			. <i>L</i> . '().	•			
Shaft Enclosures - Other			\Q_{\partial}				
Corridor Separation	. //	/	~ \\				
Occupancy/Fire Barrier Separat	tion	_ () ///—				
Party/Fire Wall Separation		14	//				
Smoke Barrier Separation		H_{λ}	/				
Smoke Partition		-	1				
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

2018 NC Administrative Code and Policies

PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:



NC LIC#: P-1403

05-17-22 100% CONSTRUCTION REV DATE ISSUED FOR:

VSM CHECKED BY: DRAWN BY:

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

REVISION: 0

TEP#:129994.32035

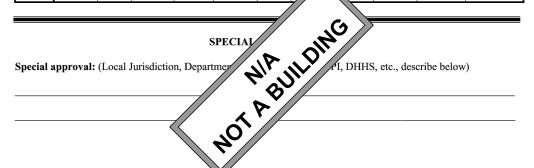
PERCENTAGE OF WALL OPENING CALCULATIONS FIRE SEPARATION DISTANCE DEGREE OF OPENINGS ALLOWABLE AREA ACTUAL SHOWN ON PLANS (FEET) FROM PROPERTY LINES PROTECTION (TABLE 705.8) BUILDING MA M REQUIREMENTS **Emergency Lighting:** Exit Signs: Fire Alarm: Smoke Detection Systems: Yes Partial Panic Hardware: LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8) Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) Occupant loads for each area Exit access travel distances (1017) BUILDING Common path of travel distances (Tables 1006) Dead end lengths (1020.4) Clear exit widths for each exit door MA Maximum calculated occupant load c an accommodate based on egress width (1005.3) Actual occupant load for each exit A separate schematic plan indi oor/ceiling and/or roof structure is provided for purposes of occupancy separ Location of doors with p ☐ Location of doors with and the amount of delay (1010.1.9.7) ress locks (1010.1.9.9) Location of doors with ele ☐ Location of doors equipped Location of emergency escape whows (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

ACCESSIBLE DWELLING UNITS (SECTION 1107) ACCESSIBLE ACCESSIBLE TYPE A TYPE A Units Units PROVIDED

MOTABULDING TOTAL # OF PARKING S ESSIBLE SPACES PROVIDED LOT OR PARKING TOTAL# ACCESSIBLE REQUIRED VAN SPACES WITH PROVIDED 8' ACCESS TOTAL

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

J	JSE	W	ATERCLOSI	ETS	URINALS		LAVATORIE	S	SHOWERS	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D										



PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776 (HARNETT COUNTY)

PLANS PREPARED BY:



TOTAL

ACCESSIBLE UNITS

PROVIDED

Units

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

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NC LIC#: P-1403



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APPENDIX B

SHEET NUMBER:

REVISION: 0

TEP#:129994.3203

2018 NC Administrative Code and Policies

NERGY REQUIREMENTS: The following data shall be considered minimum and any so be provided. Each Designer shall furnish the requirement performance method, state the annual energy cost for the oposed design. The following data shall be considered minimum and any so be provided. Each Designer shall furnish the requirement performance method, state the annual energy cost for the oposed design. The following data shall be considered minimum and any so be provided. Each Designer shall furnish the requirement of the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the oposed design. The following data shall be considered minimum and any state the energy code shall the plan data sheet design vs annual energy cost for the opposed design. The following data sheet design vs annual energy cost for the opposed design. The following data sheet design vs annual energy cost for the opposed design. The following data sheet design vs annual energy co
xisting building envelope complies with Yes (The remainder of this section is not applicable)
xempt Building: No Ye
Climate Zone: 3
Method of Compliance: AS Performance Prescriptive AS (If er" specify source here)
HERMAL 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 assembly:
Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazz) U-Value of assembly: Solar heat gain coefficity projection factor: Door R-Values: Walls below grade (each assex Description of ass U-Value of total R-Value of insulationed assembly) 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: Horizontal/vertical requirement: slab heated:

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

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE) **DESIGN LOADS: Importance Factors:** Snow (I_S) Seismic (I_E) Live Loads: Roof Mezzanine Floor **Ground Snow Load:** Wind Load: Basic Wind Sp Exposure C SEISMIC DESIGN CATEGORY: Provide the following Seismic Design Park
Risk Category (Table 1604.5) □ III □ IV %g Site Classification (ASCE 7) A B C D E F Data Source: Field Test Presumptive Historical Data ☐ Bearing Wall Basic structural system ☐ Dual w/Special Moment Frame Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic **Analysis Procedure:** LATERAL DESIGN CONTROL: Earthquake SOIL BEARING CAPACITIES: Field Test (provide copy of test report) Presumptive Bearing capacity Pile size, type, and capacity

2018 NC Administrative Code and Policies

PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:



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

www.tepgroup.net

NC LIC#: P-1403

SEAL:

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FESSION

SEAL

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CONTROL

OCONTROL

May 17, 2022

0 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

REVISION:

TEP#:129994.320357

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

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

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code Performar ASHRAE 90.1 Performar Prescriptive
ASHRAE 90.1 Performs ASHRAE 90.1 Performs Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixt number of ballasts in fix total wattage per fixty total interior wattatotal interior wattatotal exterior e
C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies

PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:



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

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NC LIC#: P-1403

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O 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSI

SHEET TITLE:

APPENDIX B

SHEET NUMBER:

REVISION:

TEP#:129994.320357

PROJECT NOTES:

- 1. ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED T-MOBILE OR ITS DESIGNATED REPRESENTATIVE.
- 2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING TO HAVE SUFFICIENT EXPERIENCE AND ABILITY, IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED, AND IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF NORTH CAROLINA.
- 3. THE STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H AND CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION WITH NC AMENDMENTS.
- 4. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 EDITION WITH NC AMENDMENTS.
- 5. 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.
- 6. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- 7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- 8. 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 VERIFICATION. 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.
- 9. 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.
- 10. 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 INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK. RENTAL CHARGES, SAFETY, PROTECTION AND MAINTENANCE OF RENTED EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 11. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE LESSEE PROJECT MANAGER.
- 12. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- 13. 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.
- 14. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- 15. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.
- 16. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
- 17. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

- 18. ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.
- 19. TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- O. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL CARRY LIABILITY INSURANCE IN THE AMOUNTS AND FORM IN ACCORDANCE WITH LESSEE SPECIFICATIONS. CERTIFICATES DEMONSTRATING PROOF OF COVERAGE SHALL BE PROVIDED TO LESSEE PRIOR TO THE START OF THE WORK ON THE PROJECT. 1
- 21. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
- 22. THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH ONE 55 GALLON BARREL, AND TRASH BAGS, AND SHALL REMOVE TRASH, DEBRIS, ETC., ON A DAILY BASIS.
- 23. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE AT THE SITE. ANY VARIATION WHICH REQUIRES PHYSICAL CHANGE SHALL BE BROUGHT TO THE ATTENTION OF THE T-MOBILE PROJECT ENGINEER FOR FACILITIES/CONSTRUCTION.
- 24. THE CONTRACTOR SHALL GUARANTEE THE WORK PERFORMED ON THE PROJECT BY THE CONTRACTOR AND ANY OR ALL OF THE SUBCONTRACTORS WHO PERFORMED WORK FOR THE CONTRACTOR ON THIS PROJECT. THE GUARANTEE SHALL BE FOR A FULL YEAR FOLLOWING ISSUANCE OF THE FINAL PAYMENT OF RETAINAGE. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.

PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

155 ADDIE WEBB LANE DUNN, NC 28334-8776 (HARNETT COUNTY)

PLANS PREPARED BY:





O 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

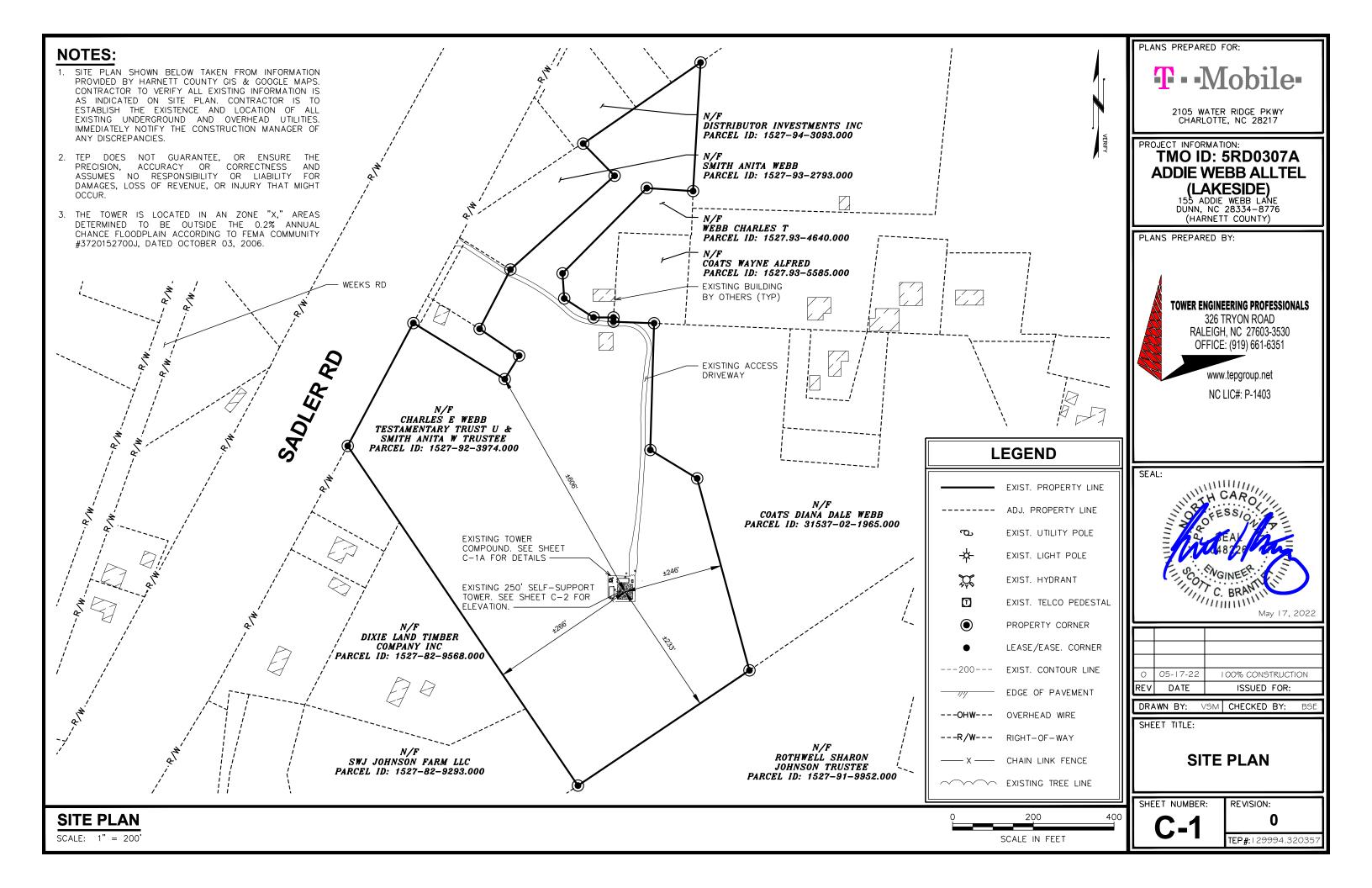
SHEET TITLE:

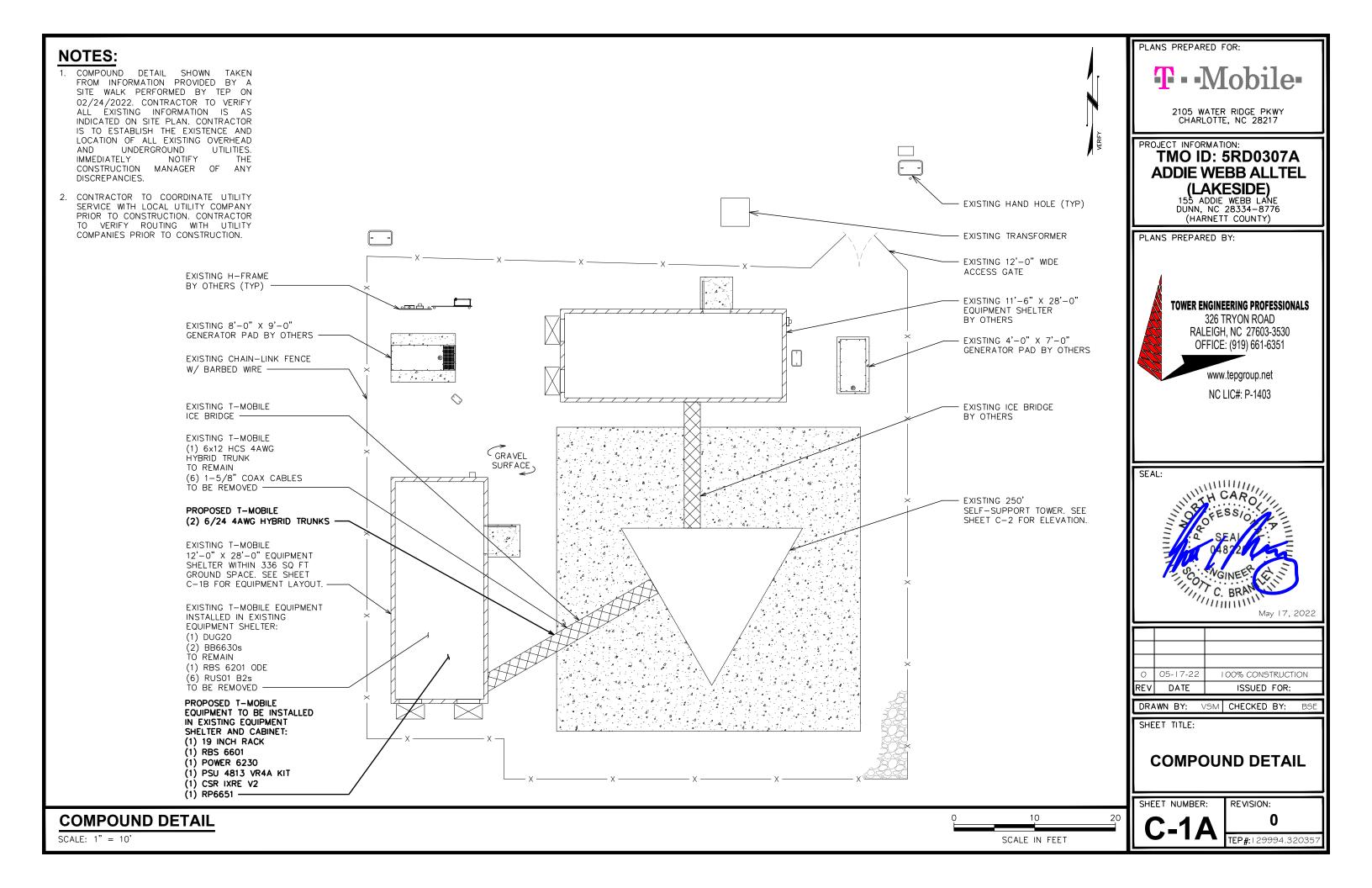
PROJECT NOTES

SHEET NUMBER:

N-1

REVISION:





LAYOUT DETAIL SHOWN BELOW TAKEN FROM SITE WALK PERFORMED BY TEP DATED 02/24/22. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLÁN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.



EXISTING T-MOBILE 200A CAM LOK GEN CONNECTOR TO RFMAIN

EXISTING T-MOBILE AC PANEL TO REMAIN

EXISTING T-MOBILE TELCO BOARD TO REMAIN

EXISTING T-MOBILE RBS 6201 CABINET TO BE REMOVED

> EXISTING T-MOBILE EQUIPMENT INSTALLED INSIDE EXISTING RBS

- 6201 ODE CABINET: (1) DUG20
- (2) BB6630s TO REMAIN
- (1) RBS 6201 ODE (6) RUS01 B2s
- TO BE REMOVED

EXISTING T-MOBILE 12'-0" X 28'-0" EQUIPMENT SHELTER WITHIN 336 SQ FT GROUND SPACE

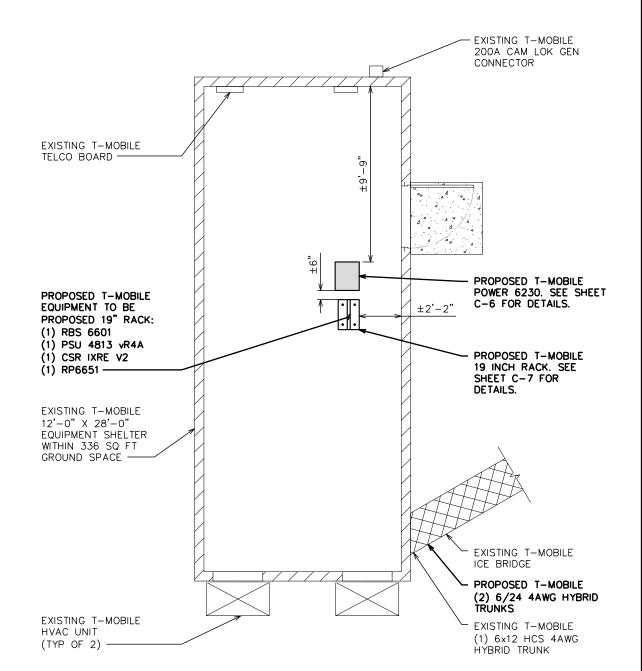
> EXISTING T-MOBILE ICE BRIDGE TO REMAIN EXISTING T-MOBILE (1) 6×12 HCS 4AWG

HYBRID TRUNK TO REMAIN EXISTING T-MOBILE (6) 1-5/8" COAX HVAC UNIT TO REMAIN CÁBLES (TYP OF 2) -TO BE REMOVED

EXISTING EQUIPMENT LAYOUT SCALE: $\frac{3}{16}$ " = 1'-0"

NOTES:

- LAYOUT DETAIL SHOWN BELOW TAKEN FROM SITE WALK PERFORMED BY TEP DATED 2/22/22. CONTRACTOR TO VERIFY ALL EXISTING INFORMATION IS AS INDICATED ON SITE PLAN. CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND LOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES. IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
- 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 GROUNDED TO MAIN GROUND BAR. SEE G-1 FOR GROUNDING NOTES.
- CONTRACTOR TO FOLLOW THE LATEST VERSION OF T-MOBILE REGIONAL CONSTRUCTION STANDARDS. CONTACT T-MOBILE FOR DETAILS.
- CONTRACTOR TO ROUTE NEW POWER AND FIBER CONDUIT AROUND EDGE OF PAD TO MINIMIZE TRIP HAZARDS. SEE SHEET E-4 FOR ELECTRICAL ROUTING PLAN.



PLANS PREPARED FOR:

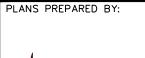
T - Mobile

2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776 (HARNETT COUNTY)



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

> www.tepgroup.net NC LIC#: P-1403



05-17-22 100% CONSTRUCTION ISSUED FOR: REV DATE

DRAWN BY: VSM CHECKED BY:

SHEET TITLE:

COMPOUND DETAIL

SHEET NUMBER:

SCALE IN FEET

REVISION:

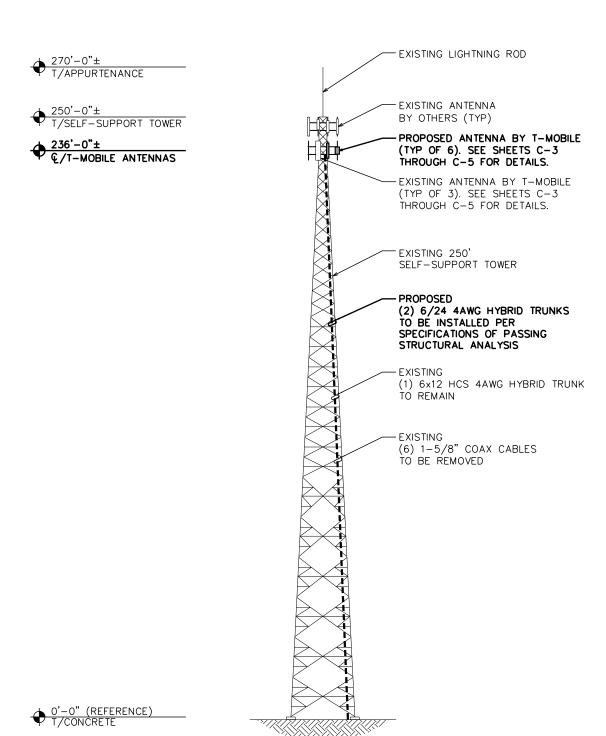
0 TEP#:129994.320

PROPOSED EQUIPMENT LAYOUT

SCALE IN FEET

SCALE: $\frac{3}{16}$ " = 1'-0"

- PROPOSED CABLES TO BE ROUTED PER SPECIFICATIONS OF PASSING STRUCTURAL ANALYSIS.
- 2. THE TOWER DRAWING IS ONLY A GRAPHIC REPRESENTATION OF THE STRUCTURE. THE ACTUAL TOWER IN THE FIELD MAY VARY.
- 3. CONTRACTOR TO VERIFY PROPOSED LOADING AND ANY LOADING TO BE REMOVED WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT T-MOBILE OR TOWER OWNER IMMEDIATELY IN THE EVENT OF ANY DISCREPANCIES.



PLANS PREPARED FOR: T - Mobile

2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

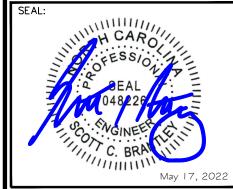
PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL

(LAKESIDE) 155 ADDIE WEBB LANE DUNN, NC 28334-8776 (HARNETT COUNTY)

PLANS PREPARED BY:





REV	DATE	ISSUED FOR:
0	05-17-22	100% CONSTRUCTION

DRAWN BY: VSM CHECKED BY:

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:

REVISION:

0 TEP#: | 29994.3203

SCALE: 1" = 40'

TOWER ELEVATION

40 SCALE IN FEET

- TEP DID NOT CONFIRM THE EXISTING ANTENNA CONFIGURATION OR MOUNT CONFIGURATION.
- 2. ANTENNA POSITIONING SHOWN BELOW PER RFDS POSITIONING. ANTENNA LOCATIONS IN FIELD MAY VARY.



EXISTING T-ARM MOUNT TO REMAIN (TYP OF 3) -EXISTING KRY 112 489/2 TMA TO BE REMOVED (TYP OF 3). SEE C-4 SHEET FOR EXISTING CAMPA

EXISTING 250' SELF-SUPPORT TOWER -C1 **%**/

EXISTING APXVAARR24_43-U-NA20 ANTENNA TO REMAIN (TYP OF 3). SEE C-4SHEET FOR EXISTING ANTENNA SCHEDULE.

ANTENNA SCHEDULE. -

NOTES:

EXISTING T-ARM

MOUNT (TYP OF 3) -

ANTENNA (TYP OF 3). SEE SHEET C-5 FOR

PROPOSED ANTENNA

EXISTING RADIO 4449

APXVAARR24_43-U-NA20

ANTENNA (TYP OF 3)

B71+B85 RRU

(TYP OF 3) -

EXISTING

SCHEDULE.

PROPOSED
APXVLL19P_43-C-A20
TANA (TYP OF 3).

- TEP DID NOT CONFIRM THE EXISTING ANTENNA CONFIGURATION OR MOUNT CONFIGURATION. CONTRACTOR TO CONFIRM MOUNT IS SUFFICIENT FOR PROPOSED LESSEE EQUIPMENT (I.E. CONFIRM MOUNT PIPE IS OF SUFFICIENT LENGTH). TEP DID NOT ANALYZE THE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LOADING.
- 2. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR TO ENSURE CLIMBING PATH AND SAFETY CLIMB IS UNOBSTRUCTED AT COMPLETION OF WORK.
- 4. ANTENNA POSITIONING SHOWN BELOW PER RFDS POSITIONING. ANTENNA LOCATIONS IN FIELD MAY VARY.



PLANS PREPARED FOR: T - Mobile-

2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

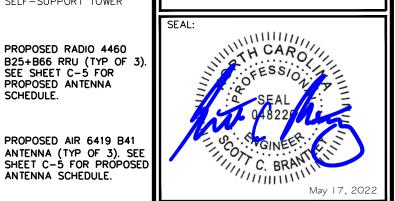
TMO ID: 5RD0307A ADDIE WEBB ALLTEL

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776 (HARNETT COUNTY)

PLANS PREPARED BY:



NC LIC#: P-1403



05-17-22 100% CONSTRUCTION ISSUED FOR: DATE

DRAWN BY: VSM CHECKED BY:

SHEET TITLE:

ANTENNA PLAN

EXISTING ANTENNA PLAN AT 236'-0"

SCALE IN FEET

EXISTING

APXV18-206517S-C-A20

ANTENNA TO BE REMOVED

(TYP OF 3). SEE C-4

SHEET FOR EXISTING

ANTENNA SCHEDULE.

EXISTING RADIO 4449

(TYP OF 3). SEE C-4

SHEET FOR EXISTING

ANTENNA SCHEDULE.

B71+B85 RRU TO REMAIN

PROPOSED ANTENNA PLAN AT 236'-0"

SCALE IN FEET

EXISTING 250' SELF-SUPPORT TOWER

PROPOSED RADIO 4460

SEE SHEET C-5 FOR

PROPOSED ANTENNA

ANTENNA SCHEDULE.

SCHEDULE.

B25+B66 RRU (TYP OF 3).

PROPOSED AIR 6419 B41

SHEET NUMBER:

REVISION: 0

THE EXISTING ANTENNA SCHEDULE IS BASED ON THE T-MOBILE ISSUED RFDS, LOCATIONS IN FIELD MAY VARY. NOTIFY T-MOBILE IMMEDIATELY OF ANY DISCREPANCIES.

EXISTING ANTENNA/CABLE SCHEDULE 67D04G_1DP+1OP SITE CONFIGURATION

POS.	SECTOR	MANUFACTURER (MODEL#)	MOUNTING HEIGHT	AZIMUTH (TN)	MECH. TILT	FEEDLINE SIZE	FEEDLINE LENGTH	EQUIPMENT [MODEL #]
A1	ALPHA	-		-	-			-
A2	ALPHA	*RFS APXV18-206517S-C-A20		30°	0°			*(1) ERICSSON TMA [KRY 112 489/2]
А3	ALPHA	RFS APXVAARR24_43-U-NA20		30°	0°			(1) ERICSSON RRU [RADIO 4449 B71+B85]
A4	ALPHA	-		-	-			-
B1	ВЕТА	-	· Ç @ 236'−0"	-	-	(1) 6X12 HCS	100m 256'	-
B2	ВЕТА	*RFS APXV18-206517S-C-A20		200°	0°	4AWG HYBRID TRUNK		*(1) ERICSSON TMA [KRY 112 489/2]
В3	ВЕТА	RFS APXVAARR24_43-U-NA20		200°	0°	*(6) 1-5/8"		(1) ERICSSON RRU [RADIO 4449 B71+B85]
В4	ВЕТА	-		-	-	COAX CABLE		-
C1	GAMMA	-		-	-			-
C2	GAMMA	*RFS APXV18-206517S-C-A20		300°	0°			*(1) ERICSSON TMA [KRY 112 489/2]
С3	GAMMA	RFS APXVAARR24_43-U-NA20		300°	0°			(1) ERICSSON RRU [RADIO 4449 B71+B85]
C4	GAMMA	-		_	_			-

*NOTE: EXISTING EQUIPMENT TO BE REMOVED



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION: TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:





0	05-17-22	100% CONSTRUCTION
REV	DATE	ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

SHEET TITLE:

EXISTING ANTENNA & CABLE SCHEDULE

SHEET NUMBER:

REVISION:

C-4

TEP#: | 29994.32035

SCALE: N.T.

- 1. CONTRACTOR TO REFERENCE T-MOBILE ISSUED RFDS AND GIVE PRECEDENCE TO INFORMATION PROVIDED IN RFDS OVER INFORMATION PROVIDED IN THIS TABLE.
- 2. CONTRACTOR TO VERIFY PROPOSED LOADING WITH PASSING STRUCTURAL ANALYSIS PRIOR TO CONSTRUCTION AND CONTACT T-MOBILE IN THE EVENT OF ANY DISCREPANCIES.
- 3. IF STRUCTURAL ANALYSIS AND RFDS DO NOT MATCH CONTRACTOR IS TO CONTACT T-MOBILE IMMEDIATELY.
- 4. 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.
- 5. THE CONTRACTOR SHALL TEST THE OPTICAL FIBER AFTER INSTALLATION IN ACCORDANCE WITH T-MOBILE STANDARDS AND SUPPLY THE RESULTS TO T-MOBILE.
- 6. ALL EXISTING AND PROPOSED ANTENNA CABLES SHALL BE COLOR CODED PER T-MOBILE MARKET STANDARDS.
- 7. REFER TO EQUIPMENT MANUFACTURER'S SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION.

PROPOSED EQUIPMENT IN BOLD

PROPOSED ANTENNA/CABLE SCHEDULE: 67D5998E_1XAIR+1OP+1QP SITE CONFIGURATION

POS.	SECTOR	MANUFACTURER (MODEL #)	MOUNTING HEIGHT	AZIMUTH (TN)	MECH. TILT	FEEDLINE SIZE	FEEDLINE LENGTH	EQUIPMENT [MODEL#]
A1	ALPHA	ERICSSON AIR6419 B41		30°	0•			-
A2	ALPHA	RFS APXVLL19P_43-C-A20		30°	0.			(1) ERICSSON RRU [RADIO 4460 B25+B66]
А3	ALPHA	RFS APXVAARR24_43-U-NA20		30°	0°			(1) ERICSSON RRU [RADIO 4449 B71+B85]
Α4	ALPHA	-		_	-			-
B1	ВЕТА	ERICSSON AIR6419 B41		200°	0.	(1) 6x12 HCS	100m	-
B2	ВЕТА	RFS APXVLL19P_43-C-A20	© © 236'−0"	200°	0.	4AWG HYBRID TRUNK	100m	(1) ERICSSON RRU [RADIO 4460 B25+B66]
В3	ВЕТА	RFS APXVAARR24_43-U-NA20	Ψ Ψ 236 -0	200°	0°	(2) 6/24 4AWG		(1) ERICSSON RRU [RADIO 4449 B71+B85]
B4	ВЕТА	-		-	-	HYBRID TRUNKS		-
C1	GAMMA	ERICSSON AIR6419 B41		300°	0.			-
C2	GAMMA	RFS APXVLL19P_43-C-A20		300°	0.			(1) ERICSSON RRU [RADIO 4460 B25+B66]
С3	GAMMA	RFS APXVAARR24_43-U-NA20		300°	0°			(1) ERICSSON RRU [RADIO 4449 B71+B85]
C4	GAMMA			_	_			-

PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

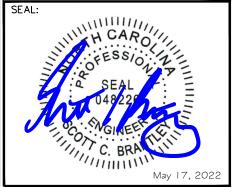
PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:





0	05-17-22	100% CONSTRUCTION
REV	DATE	ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

SHEET TITLE:

PROPOSED ANTENNA & CABLE SCHEDULE

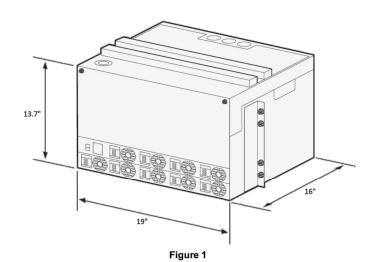
SHEET NUMBER:

BER: REVISION:

C-5

TEP#: | 29994.3203

INFORMATION SHOWN PROVIDED BY T-MOBILE.
CONTRACTOR TO REFERENCE CABINET MANUFACTURER'S
SPECIFICATIONS FOR FURTHER DETAILS.



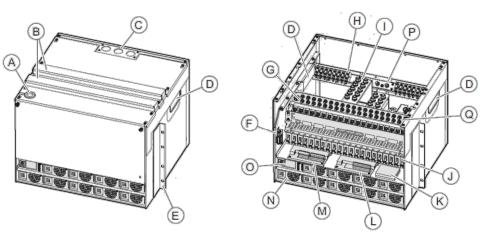
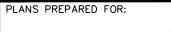


Figure 2

Feature	Unit
A Alarm circuit breaker cable, temperature sensor, SCU pow	
B Cable routing	
C AC cable interface	
D	Battery cable inlet
E	Adaptor bracket for wall mounting kit
F	RTN alarm
G	0 V bus bar DC connection
Н	AC input
I	0 V/RTN for battery cables
J	DC distribution circuit breaker
K	DC SPD
L	Extended interface board (EIB)
M	Interface board (IB2)
N	Rectifier
0	Power controller unit (PCU)
Р	AC grounding
Q -48 VDC distribution	

The general specifications for the 6230 DC power system are as follows:

Weight	52.8 lbs.						
Dimensions (H x W x D)	13.7" x 19" x 16"						
Mounting position	On top of battery rack						
Color	Gray, NCS 2002-B (RAL 7035)						
Power System	1						
Input voltage	3W+N+PE: 346/200-415/240 VAC						
. •	2W+N+PE: 208/120-220/127 VAC						
	1W+N+PE: 200-250 VAC						
	Range 85 – 300 VAC						
Line frequency	45 – 65 Hz						
Maximum input current	155 A (load and batteries)						
	103 A (load only)						
Input power	<33 kW						
Output load (-48 VDC)	24 kW						
Total capacity (-48 VDC)	31.5 kW						
DC Output voltage	Nominal: -48 VDC; Range: -42.3 to -57.6 VDC						
DC Output power	24 kW to load, 7.5 kW to batteries						
AC SPD	Class 2 / Type 2						
PSU slots	9						
Rectifier efficiency	96%						
Priority load disconnect	8 circuit breakers						
Low voltage disconnect 1	6 circuit breakers						
Low voltage disconnect 2	6 circuit breakers						
Avail Circuit breaker ratings	3A, 5A, 10A, 15A, 20A, 25A, 30A, 40A, 50A, 60A, 80A, 100A, 200A						
Battery interface	2 circuit breakers						
Battery circuit breaker rating	125 A 2 pol (200 A)						
PSU capacity	3500 watts						
Operating Environmental							
Operation	-40°C to +55°C; 0-90% non-condensing relative humidity						
Transportation	-40°C to +70°C; 0-90% non-condensing relative humidity						
•							
Storage	-40°C to +55°C; 0-90% non-condensing relative humidity						
Acoustic Noise							
Max @ +45°F ambient	< 65 dB						
Remote Management							
External alarms	32						
Fault management	Following alarms are sent to ENM:						
	- Battery temperature sensors missing/faulty						
	- AC mains failure per rectifier						
	- Rectifier over temperature alarm						
	- Battery circuit breaker trip						
	- Load circuit breaker trip						
	- Rectifier failure						
	- Battery not possible to charge						
	- External alarms						
	- LVD/BLVD disconnect						
Performance Management	Following data is sent to ENM:						
	- System voltage						
	- System current						
	- System power						
	- Total delivered energy						
	- Battery temperature						
	- Battery voltage						
	- Battery current						
	- Battery state of charge						
	- Rectifier output voltage						
	- Rectifier output voltage						
	- Rectifier input voltage						
	- Rectifier input voltage - Rectifier run time						
Configuration Management	Following parameters can be set remotely from ENM						
oomiguration wanagement	- Float charge voltage						
	- Elevated charge voltage - Battery disconnect voltage						
	- Load disconnect voltage						
	- Temperature compensation						
	- Battery capacity						
	- Alarm limits for all analogue values						
	- Rectifier current limit						
	- Rectifier current firmt - Battery temperature sensors						
	- Compensation factor						
	- Charging algorithm, float, temp comp, boost, equalization						
Inventory Management	Inventory record in Cabinet Controller can be fetched remotely						
	- Cabinet controller						
	- Power controller						
	- Rectifiers						
	- Cabinet						
	- Battery test record						





2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:





O RFV	05-17-22 DATE	100% CONSTRUCTION ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSI

SHEET TITLE:

CABINET DETAILS

SHEET NUMBER:

REVISION:

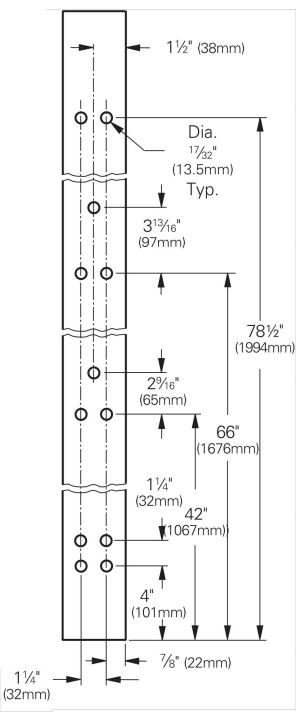
TEP#:129994.320357

ERICSSON POWER 6230 DETAILS

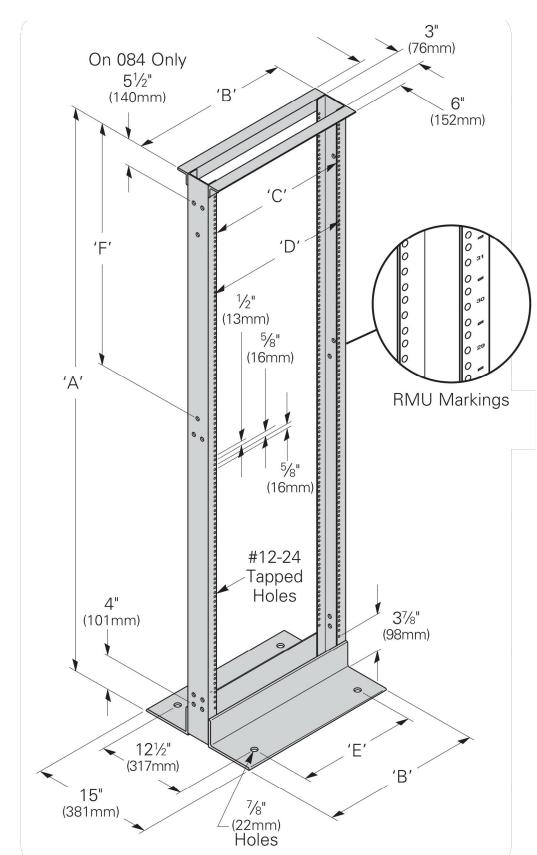
SCALE: N.T.

INFORMATION SHOWN PROVIDED BY T-MOBILE.
CONTRACTOR TO REFERENCE CABINET MANUFACTURER'S
SPECIFICATIONS FOR FURTHER DETAILS.

Junction Hole Pattern for 84" tall rails







PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:



NC LIC#: P-1403

SEAL:

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O 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

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CABINET DETAILS

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ERICSSON 19" RACK DETAILS

SCALE: N.T.S

ELECTRICAL NOTES:

SCOPE

 PROVIDE LABOR, MATERIALS, INSPECTION, AND TESTING TO PROVIDE CODE COMPLIANCE FOR ELECTRIC, TELEPHONE, AND GROUNDING/LIGHTNING SYSTEMS.

CODES

- 1. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND CODES. THESE INCLUDE BUT ARE NOT LIMITED TO THE LATEST ADOPTED EDITIONS OF:
 - A. THE NATIONAL ELECTRICAL SAFETY CODE
 B. THE NATIONAL ELECTRIC CODE NFPA—70
- D. LOCAL AND STATE AMENDMENTS
 E. THE INTERNATIONAL ELECTRIC CODE —
 IEC (WHERE APPLICABLE)
- C. REGULATIONS OF THE SERVING UTILITY COMPANY
- 2. PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR
- 3. AFTER COMPLETION AND FINAL INSPECTION OF THE WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF COMPLETION AND APPROVAL.

1. UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST THE EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. THE TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE:

- 1. IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND WITHOUT EXPENSE TO THE OWNER.
- 2. THE WARRANTEE CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

UTILITY CO-ORDINATION:

1. CONTRACTOR SHALL COORDINATE WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH THE SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE:

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH THE CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS SECTION WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING THE WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING, PATCHING AND EXCAVATION:

- COORDINATION OF SLEEVES, CHASES, ETC., BETWEEN SUBCONTRACTORS WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
- 2. NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE ELECTRICAL WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING.
- 3. SEAL PENETRATIONS THROUGH RATED WALLS, FLOORS, ETC., WITH APPROVED METHOD AS LISTED BY UL.

RACEWAYS / CONDUITS GENERAL:

- 1. CONDUCTORS SHALL BE INSTALLED IN LISTED RACEWAYS. CONDUIT SHALL BE RIGID STEEL, EMT, SCH40 PVC, OR SCH80PVC AS INDICATED ON THE DRAWINGS. THE RACEWAY SYSTEM SHALL BE COMPLETE COMPLETE BEFORE INSTALLING CONDUCTORS.
- 2. EXTERIOR RACEWAYS AND GROUNDING SLEEVES SHALL BE SEALED AT POINTS OF ENTRANCE AND EXIT. THE RACEWAY SYSTEM SHALL BE BONDED PER NEC.

EXTERIOR CONDUIT:

- 1. EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.
- 2. WHERE INSTALLED ON EXTERIOR STRUCTURES OR EXPOSED TO DAMAGE, THE CONDUIT SHALL BE RIGID STEEL.
- 3. UNDERGROUND CONDUITS SHALL BE RIGID STEEL, SCH40 PVC, OR SCH80 PVC AS INDICATED ON THE DRAWINGS.
- 4. BURIAL DEPTH OF CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION, BUT SHALL NOT BE LESS THAN THE FROST DEPTH AT THE SITE.
- 5. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY ROUTES BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND/OR BUILDING OWNER.

INTERIOR CONDUIT:

- 1. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE PVC OR EMT.
- 2. CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
- 3. PROVIDE SUPPORTS FOR CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.

EQUIPMENT:

- 1. DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
- 2. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK. CONTRACTOR WILL VERIFY THAT EXISTING CIRCUIT BREAKERS ARE RATED FOR MORE THAN AVAILABLE FAULT CURRENT AND REPLACE AS NECESSARY.
- 3. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY.

CONDUCTORS:

- 1. FURNISH AND INSTALL CONDUCTORS SPECIFIED IN THE DRAWINGS. CONDUCTORS SHALL BE COPPER AND SHALL HAVE TYPE THWN (MIN) (75° C) INSULATION, RATED FOR 600 VOLTS.
- 2. THE USE OF ALUMINUM CONDUCTORS SHALL BE LIMITED TO THE SERVICE FEEDERS INSTALLED BY THE UTILITY.
- 3. CONDUCTORS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:
 - A. MINIMUM WIRE SIZE SHALL BE #12 AWG.
 - B. CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND #12 MAY BE SOLID OR STRANDED.
 - C. CONNECTION FOR #10 AWG #12 AWG SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.
 - D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
- 3. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS.

UL COMPLIANCE:

1. ELECTRICAL MATERIALS, DEVICES, CONDUCTORS, APPLIANCES, AND EQUIPMENT SHALL BE LABELED/LISTED BY UL OR ACCEPTED BY JURISDICTION (I.E., LOCAL COUNTY OR STATE) APPROVED THIRD PARTY TESTING AGENCY.

GROUNDING:

GRD

PNL

GROUND

KILOWATTS

PHASE

PANEL

ISOLATED GROUND BAR

NATIONAL ELECTRIC CODE

INTERIOR GROUND RING (HALO)

- PERSONAL COMMUNICATION SYSTEM

- 1. ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED AT A SINGLE POINT.
- 2. PROVIDE GROUND CONDUCTOR IN RACEWAYS PER NEC.
- 3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 "LIGHTNING PROTECTION" AS A MINIMUM.
- 4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, RADIO EQUIPMENT MANUFACTURERS, AND MOTOROLA R56 (AS APPLICABLE).

ABBREVIATIONS AND LEGEND

PNLBD - PANELBOARD AMPERE ABOVE FINISHED GRADE PVC RIGID NON-METALLIC CONDUIT ATS AUTOMATIC TRANSFER SWITCH RGS RIGID GALVANIZED STEEL CONDUIT AWG AMERICAN WIRE GAUGE SW SWITCH BARE COPPER WIRE TGB TOWER GROUND BAR BCW UNDERWRITERS LABORATORIES BELOW FINISHED GRADE UL BRFAKFR - CONDUIT WATTS CKT CIRCUIT XFMR - TRANSFORMER DISC DISCONNECT XMTR - TRANSMITTER FGR EXTERNAL GROUND RING ELECTRIC METALLIC TUBING - FLEXIBLE STEEL CONDUIT FSC GEN GENERATOR GPS GLOBAL POSITIONING SYSTEM

■ E UNDERGROUND ELECTRICAL CONDUIT

T UNDERGROUND TELEPHONE CONDUIT

KILOWATT—HOUR METER

UNDERGROUND BONDING AND
GROUNDING CONDUCTOR.

Ø GROUND ROD

CADWELD

GROUND ROD WITH INSPECTION WELL

PLANS PREPARED FOR:

T - Mobile-

2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

155 ADDIE WEBB LANE DUNN, NC 28334-8776 (HARNETT COUNTY)

PLANS PREPARED BY:





O 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

SHEET TITLE:

ELECTRICAL NOTES

SHEET NUMBER:

REVISION:

ONE-LINE DIAGRAM NOTES:

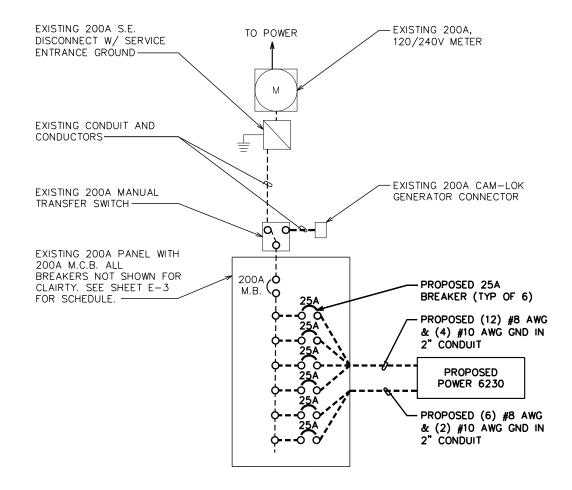
- 1. ELECTRICAL SERVICE IS: 200A, 120/240V, 1ø, 3W,
- 2. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.

UTILITY NOTES:

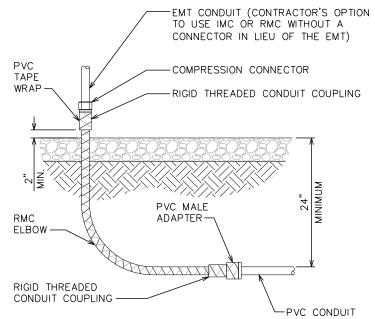
- 1. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.
- 2. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.
- 3. ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.
- 4. ALL EQUIPMENT WILL HAVE A MINIMUM AIC OF 10 KA. CONTRACTOR TO DETERMINE AVAILABLE FAULT CURRENT BEFORE ENERGIZING EQUIPMENT. THE AMOUNT OF AVAILABLE FAULT CURRENT SHALL BE MARKED ON THE SERVICE EQUIPMENT PER NEC 110 24
- 5. CONTRACTOR SHALL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.
- 6. CONTRACTOR TO VERIFY EXISTING CONDUIT(S) SIZE(S) PRIOR TO CONSTRUCTION AND MAY REUSE EXISTING CONDUIT(S) IF THEY MEET THE MINIMUM REQUIREMENTS PER NEC CODE.
- 7. GROUNDING ELECTRODE CONDUCTOR SIZE FOR SINGLE 200A SERVICE ONLY. IF METER SHARES A COMMON NEUTRAL/GROUND POINT, CONTRACTOR SHALL INSTALL (1) 3/0 COPPER GEC INSTEAD.

UL NOTE:

ELECTRICAL MATERIALS, DEVICES, CONDUCTORS, APPLIANCES AND EQUIPMENT SHALL BE LABELED/LISTED BY UL OR ACCEPTED BY JURISDICTION (I.E.: LOCAL COUNTY OR STATE) APPROVED THIRD PARTY TESTING AGENCY



ALL METAL CONDUIT INSTALLED IN DIRECT CONTACT WITH THE EARTH SHALL BE CONSIDERED TO BE INSTALLED IN A SEVERELY CORROSIVE ENVIRONMENT AND IS REQUIRED TO HAVE SUPPLEMENTAL PROTECTION AGAINST CORROSION (NEC ARTICLE 342.10(B) & 344.10(B)(1)). THIS PROTECTION SHALL EITHER BE AN APPROVED MANUFACTURER INSTALLED PROTECTIVE COATING ON THE CONDUIT OR SHALL BE (2) LAYERS OF 10 MIL PVC PIPE WRAP TAPE INSTALLED USING OPPOSING SPIRAL WRAPS. ON VERTICAL PIPE THE OUTSIDE LAYER OF TAPE SHALL BE WRAPPED SO AS TO PROVIDE SHEDDING OF WATER (I.E., TAPE SHOULD WRAP IN AN UPWARD DIRECTION WITH LOWER WRAP BEING BENEATH THE WRAP ABOVE). SPIRAL WRAPS SHALL HAVE A MINIMUM OF 1/2" OVERLAP WITH THE PRECEDING TAPE WRAP. ANY OTHER METHODS OF CORROSION PROTECTION SHALL REQUIRE APPROVAL BY THE ENGINEER OF RECORD PRIOR TO BEING USED.

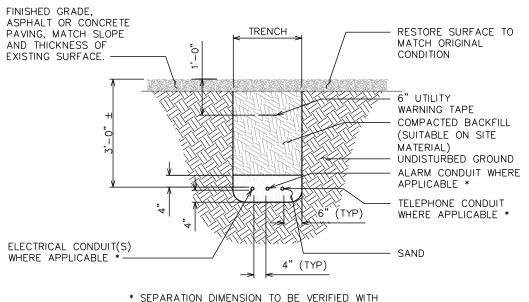


UNDERGROUND CONDUIT STUB UP DETAIL

SCALE: N.T.S.

TRENCHING NOTES:

- 1. ACTUAL SEPARATION OF CONDUITS TO BE DETERMINED BY SITE SPECIFIC REQUIREMENTS.
- 2. UNDERGROUND CONDUIT TRENCH TO BE LOCATED AS CLOSE TO COMPOUND FENCE AS POSSIBLE WITHOUT COMPROMISING THE INTEGRITY OF THE FENCE.
- 3. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
- 4. PROVIDED RGS CONDUIT AND ELBOWS AT STUB-UP LOCATIONS (I.E. SERVICE POLES, EQUIPMENT, ETC.)
- 5. PROVIDE RGS CONDUIT FOR INSTALLATIONS BELOW PARKING LOTS AND ROADWAYS.



* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

UNDERGROUND CONDUIT(S) TRENCHING DETAIL

SCALE: N.T.S.

PLANS PREPARED FOR:

T-Mobile-

2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:





O 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

SHEET TITLE:

ONE-LINE DIAGRAM & ELECTRICAL DETAILS

SHEET NUMBER:

REVISION:

TEP#:129994.320357

ONE-LINE DIAGRAM

SCALE: N.T.S.

LOAD CALCULATIONS TAKEN FROM INFORMATION PROVIDED BY T-MOBILE & CALCULATED USING THE T-MOBILE LOAD ANALYSIS TOOL. CONTRACTOR TO VERIFY LOADS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO CONSTRUCTION.

EXISTING 200A M.C.B, 240/120 VAC, 1Ø, 3W PANEL SCHEDULE VOLT AMPERES (WATTS) VOLT AMPERES (WATTS) PHASE LOAD SERVED TRIP CKT CKT TRIP LOAD SERVED L1 L1 L2 L2 3816 3816 ACH #2 ACH 1 3816 4 3816 6 5196 0 *RBS 6201 *RECTIFIER #1 (OFF) 20 100 5196 0 10 0 0 *RECTIFIER #3 (OFF) 20 *RECTIFIER #4 (OFF) 20 Ω 12 0 14 0 *RECTIFIER #6 (OFF) *RECTIFIER #7 (OFF) 20 20 15 0 16 0 17 0 18 0 20 *RECTIFIER #5 (OFF) 20 *RECTIFIER #8 (OFF) В 19 20 0 0 SPARE 21 22 0 SPARE 23 24 SPARE SPARE 25 В SPARE 26 SPARE 27 28 SPARE SPARE SPARE 29 30 SPARE 31 32 SPARE В 33 SPARE 34 SPARE 35 36 SPARE SPARE RECEPTACLES 37 38 180 20 15 500 INTERIOR LIGHTS RECEPTACLES 39 15 180 20 40 500 EXTERIOR LIGHTS SMOKE DET. 200 20 41 42 20 180 RECEPTACLES, EXT. VOLT AMPS 4196 3996 9692 9512 VOLT AMPS 13888 L1 VOLT AMPERES 13508 L2 VOLT AMPERES MAX VOLT AMPERES 13888 115.7 MAX AMPS 144.7 MAX AMPS x 125%

*NOTE - EXISTING BREAKER TO BE REMOVED

**NOTE - CONTRACTOR TO CONFIRM THAT THE LOADING ON BREAKER IS ACCURATE PRIOR TO CONSTRUCTION.

NOTE:

LOAD CALCULATIONS TAKEN FROM INFORMATION PROVIDED BY T-MOBILE & CALCULATED USING THE T-MOBILE LOAD ANALYSIS TOOL. CONTRACTOR TO VERIFY LOADS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO CONSTRUCTION.

PROPOSED 200A M.C.B, 240/120 VAC, 1Ø, 3W PANEL SCHEDULE												
LOAD SERVED		MPERES TTS) L2	TRIP	CKT PHA		HAS	ASE CKT		TRIP	VOLT AMPERES (WATTS)		LOAD SERVED
	3816	LZ		1		A	l _	2		3816	LZ	
ACH 1	3010	3816	60	3		В	\prod	4	60	3610	3816	ACH #2
SPARE	_	3010	_	5	f_{λ}^{\dagger}	A	f_{\perp}	6		1920	3010	
SPARE		_	_	7	f'	В	\prod	8	25	1320	1920	POWER 6230 #1
SPARE	_		_	9		A	f_{\perp}	10		1920	1320	
SPARE		_		11		В	TŢ`	12	25	1320	1920	POWER 6230 #2
SPARE	_		_	13		Α	$\int_{-\infty}^{\infty}$	14		1920	.525	
SPARE		_	_	15		В		16	25	1020	1920	POWER 6230 #3
SPARE	_		=	17		Α	ť	18		1920	1020	
SPARE		_	_	19		В		20	25	1020	1920	POWER 6230 #4
SPARE	_		_	21		Α	$\int_{-\infty}^{\infty}$	22		1920		
SPARE		_	_	23		В		24	25		1920	POWER 6230 #5
SPARE	-		_	25		В		26		1920		POWER 6230 #6
SPARE		-	_	27		Α		28	25		1920	
SPARE	-		-	29		В		30	_			SPARE
SPARE		-	-	31		Α		32	_		_	SPARE
SPARE	_		-	33		В		34	-	-		SPARE
SPARE		-	-	35		Α	$\downarrow \frown$	36	-		-	SPARE
RECEPTACLES	180		20	37		В	$ \setminus $	38	15	500		INTERIOR LIGHTS
RECEPTACLES		180	20	39	$ \wedge $	Α	$\downarrow \frown$	40	15		500	EXTERIOR LIGHTS
SMOKE DET.	200		20	41		Α	\triangle	42	20	180		RECEPTACLES, EX
VOLT AMPS	4196	3996								14096	12188	VOLT AMPS
	L1	VOLT A	MPERES	182	292		161	184	L2 VOL	T AMPER	ES	
					18	829	2		MAX VO	DLT AMPE	ERES	
				152.4					MAX AMPS			
					1	90.5	5		MAX AN	/IPS x 12	25%	

*NOTE - PROPOSED BREAKERS & LOADS IN BOLD. CONTRACTOR TO CONFIRM PROPOSED BREAKER SIZES AND LOCATIONS WITH T-MOBILE CM PRIOR TO CONSTRUCTION.

**NOTE - CONTRACTOR TO CONFIRM THAT THE LOADING ON BREAKER IS ACCURATE PRIOR TO CONSTRUCTION.

PLANS PREPARED FOR:

T - Mobile-

2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

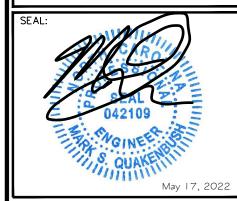
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SHEET TITLE:

PANEL SCHEDULES

SHEET NUMBER:

REVISION:

TEP#:129994.320357

EXISTING PANEL SCHEDULE

PROPOSED PANEL SCHEDULE

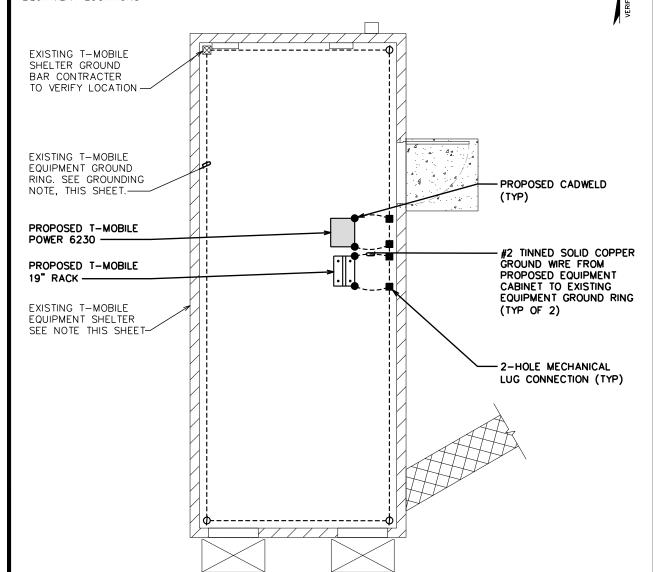
SCALE: N.T.S.

GROUNDING NOTES:

- CONTRACTOR TO VERIFY EXISTENCE AND LOCATION OF EXISTING SITE GROUND SYSTEM.
- 2. CONTRACTOR SHALL VERIFY THAT GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 AWG BARE TINNED COPPER WIRE. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 30" BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 10'-0" CENTERS (PROVIDE AND INSTALL AS REQUIRED. REQUIRED PER PLAN BELOW).
- GROUNDING CONDUCTORS SHALL BE OF EQUAL LENGTH, MATERIAL, AND BONDING TECHNIQUE.
- CONTRACTOR SHALL ENSURE GROUND RING IS WITHIN 12 TO 36 INCHES OF THE EQUIPMENT PAD. PROVIDE AND INSTALL GROUNDING CONNECTIONS SHOWN BELOW AS NEEDED PER EXISTING SITE GROUNDING SYSTEM. CONTRACTOR SHALL VERIFY ALL EXISTING SITE GROUNDING CONDITIONS BEFORE STARTING WORK OR PURCHASING EQUIPMENT.
- 5. ALL DOWN CONDUCTORS MUST GO DOWN.



TYPICAL GROUNDING PLAN SHOWN IS FOR SCHEMATIC PURPOSES ONLY AND DOES NOT REFLECT EXISTING OR PROPOSED EQUIPMENT LOCATIONS



NOTE:

CONTRACTOR TO REFERENCE SHEET C1-B FOR EXACT LOCATION AND ORIENTATION OF EQUIPMENT PAD



PLANS PREPARED FOR:

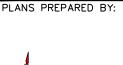


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TMO ID: 5RD0307A ADDIE WEBB ALLTEL

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776 (HARNETT COUNTY)



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

www.tepgroup.net

NC LIC#: P-1403



05-17-22 100% CONSTRUCTION ISSUED FOR: DATE

DRAWN BY: VSM CHECKED BY:

SHEET TITLE:

ROUTING PLAN & EQUIPMENT GROUNDING PLAN

SHEET NUMBER:

REVISION: 0

TEP#:129994.3203

ELECTRICAL ROUTING PLAN SCALE: $\frac{3}{16}$ " = 1'-0"

EQUIPMENT GROUNDING PLAN

SCALE IN FEET

PROPOSED 2" PVC CONDUIT FOR POWER

T-MOBILE AC PANEL TO PROPOSED **POWER 6230**

FROM EXISTING

SCALE IN FEET

T-MOBILE GROUNDING NOTES:

ALL GROUNDS MUST ROUTE DOWNHILL FOR ENTIRE DURATION OF ROUTE

ICE BRIDGE/ EQUIPMENT POST:

#2 SOLID COPPER TINNED, EXOTHERMICALLY WELDED TO GROUND RING (BOTH ENDS), FINAL WELD COLD GALVANIZED, IN ½" NON-METALLIC SEAL TIGHT CONDUIT, SEALED WITH SILICONE, ANCHORED TO PAD/PLATFORM TO AVOID TRIP HAZARD USING HAMMER SET ANCHORS.

PEDESTALS, PLINTHS, SSC CABINET, FCOA CABINETS:

- 1. #2 SOLID COPPER TINNED, 2 HOLE LUG WITH FLAT AND LOCK WASHER AT EQUIPMENT; EXOTHERMICALLY WELDED TO GROUND RING, FINAL WELD COLD GALVANIZED, IN ½" NON-METALLIC SEAL TIGHT CONDUIT, SEALED WITH SILICONE, ANCHORED TO PAD TO AVOID TRIP HAZARD USING HAMMER SET ANCHORS. EACH PART REQUIRES A SEPARATE DOWNLEAD, NO DAISY CHAINS.
- 2. ALL COMPONENTS INSIDE FCOA CABINETS REQUIRE A DEDICATED GROUND.

COVP's:

#6 THHN STRANDED (GREEN JACKET), CONNECTED AT EQUIPMENT SIDE USING OVP TERMINAL BLOCK CONNECTION; MECHANICALLY CONNECTED TO GROUND REFERENCE AT MASTER BUSS BAR USING 2 HOLE LUG WITH FLAT AND LOCK WASHER, IN ½" NON-METALLIC SEAL TIGHT CONDUIT, SEALED WITH SILICONE, AND ANCHORED TO PAD/PLATFORM TO AVOID TRIP HAZARD.

ANTENNA/ COVP/ RRU MAST PIPES:

- 1. ALL VERTICAL MAST PIPES: #2 SOLID COPPER TINNED, EXOTHERMICALLY WELDED TO TOP OF PIPE (PIPE, DOWN MOLD), FINAL WELD COLD GALVANIZED, BONDED TO TOP BUSS BAR WITH 2 HOLE COPPER COMPRESSION LUG, FLAT AND LOCK WASHER.
- 2. EXISTING/REUSED PIPES: #2 SOLID COPPER TINNED, BONDED WITH COLD WATER CLAMP TO TOP OF PIPE, BONDED TO TOP BUSS WITH 2 HOLE COPPER COMPRESSION LUG, FLAT AND LOCK WASHER

AIR TERMINALS:

TO BE INSTALLED, ONLY IF REQUIRED

TMA's. DIPLEXERS AND TRIPLEXERS:

- 1. #6 THHN, WITH PROPER COPPER COMPRESSION LUG, FLATS AND LOCK WASHERS
- 2. ALL GROUND LUGS ON TMA MUST BE GROUNDED WITH SEPARATE DOWNLEAD TO BUSS BAR (NO DAISY CHAINS)

ELEVATED STEEL PLATFORMS WITH LUNAR FEET:

#2 SOLID COPPER TINNED, EXOTHERMICALLY WELDED (FLAT PLATE MOLD) TO OUTSIDE PERIMETER BEAMS IN FOUR (4) PLACES, FINAL WELD COLD GALVANIZED, BONDED DIRECTLY TO SUBGRADE GROUND RING.

STEEL CANOPY (STEEL PLATFORM OR CONCRETE PAD):

- #2 SOLID COPPER TINNED, EXOTHERMICALLY WELDED (PIPE, DOWN MOLD) TO BOTTOM OF ALL VERTICAL SUPPORT POSTS, TYPICALLY FOUR (4) PIPES, FINAL WELD COLD GALVANIZED, BONDED DIRECTLY TO SUBGRADE GROUND RING.
- 2. #2 SOLID COPPER TINNED, EXOTHERMICALLY WELDED (PIPE, UP MOLD) TO TOP OF ALL VERTICAL SUPPORT POSTS, TYPICALLY FOUR (4) PIPES, FINAL WELD COLD GALVANIZED, BONDED UP TO CANOPY GRIP-STRUT USING 2 HOLE COPPER COMPRESSION LUG, FLAT AND LOCK WASHER.

RRU

#6 THHN, WITH PROPER COPPER COMPRESSION LUG, ANTI-OXIDANT TO SECTOR BUSS BAR

FSBE ALARM BOX:

#6 THHN WITH ONE HOLE LUG BONDED TO PREVIOUSLY GROUNDED FCOA, PLINTH OR BUSS BAR.

SURGE SUPPRESSORS:

#6 THHN TO PREVIOUSLY GROUNDED BUSS BAR USING PROPER LUGS

FYGA/FYGB BRACKET:

- 1. #6 THHN TO PREVIOUSLY GROUNDED BUSS BAR USING PROPER LUGS
- 2. THROUGH BOLTS WITH FLAT, LOCK ON BRACKET

BUSS BARS:

- PLATFORM / PAD BUSS BAR SHOULD BE MINIMUM 12" TINNED COPPER WITH INSULATORS, AND SHOULD HAVE TWO (2) EXOTHERMICALLY WELDED DOWN LEADS DIRECTLY TO GROUND RING USING #2 SOLID COPPER TINNED WIRE.
- 2. SECTOR BUSS BAR SHOULD BE PROPERLY SIZED TO ACCOMMODATE NECESSARY GROUNDING FOR EQUIPMENT ON EACH MOUNT, AND MAY BE SOLID COPPER (TINNED NOT REQUIRED). DO NOT USE INSULATORS ON SECTOR BUSS BARS ATTACH DIRECTLY TO TOWER MOUNT STEEL.

GENERAL:

- NO GROUND KITS ON HYBRID TRUNKS (TOP OR BOTTOM)
- NO GROUND KITS ON MICROWAVE IF CABLES (TOP OR BOTTOM)
- MICROWAVE SURGE SUPPRESSORS ARE NOT TO BE INSTALLED UPSTAIRS ON TOWER, DOWNSTAIRS ONLY (BULKHEAD PREFERRED)
- MICROWAVE ODU MUST BE GROUNDED TO TOWER TOP SECTOR OR COLLECTOR BUSS BAR
- ALL TMA'S AND DIPLEXERS MUST BE GROUNDED TO BUSS BAR. NO DAISY CHAIN ON TWIN/DUAL TMA
- ALL LUGS SHOULD BE PROPERLY SIZED FOR CONDUCTOR, BURNDY TINNED COPPER COMPRESSION STYLE
 - 1. INDOOR (OR INSIDE CABINET) SHOULD HAVE WINDOW
 - 2. OUTDOOR SHOULD NOT HAVE WINDOW

PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

PROJECT INFORMATION:

TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
DUNN, NC 28334-8776
(HARNETT COUNTY)

PLANS PREPARED BY:



NC LIC#: P-1403

SEAL:

SEAL

O42109

QUAKE

O 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

SHEET TITLE:

TMO GROUNDING NOTES

SHEET NUMBER:

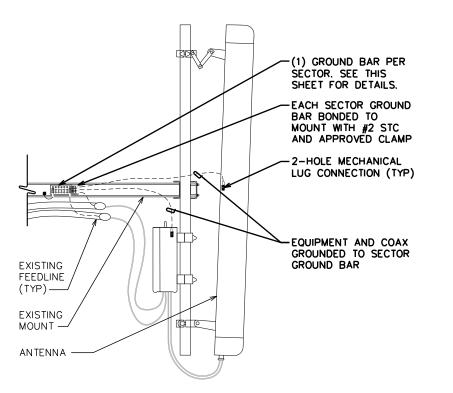
G-1

REVISION:

TEP#:129994.320357

May 17, 2022

DRAWING SHOWN BELOW FOR SCHEMATIC PURPOSES ONLY



PLANS PREPARED FOR:



2105 WATER RIDGE PKWY CHARLOTTE, NC 28217

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TMO ID: 5RD0307A ADDIE WEBB ALLTEL (LAKESIDE)

(LAKESIDE)
155 ADDIE WEBB LANE
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PLANS PREPARED BY:

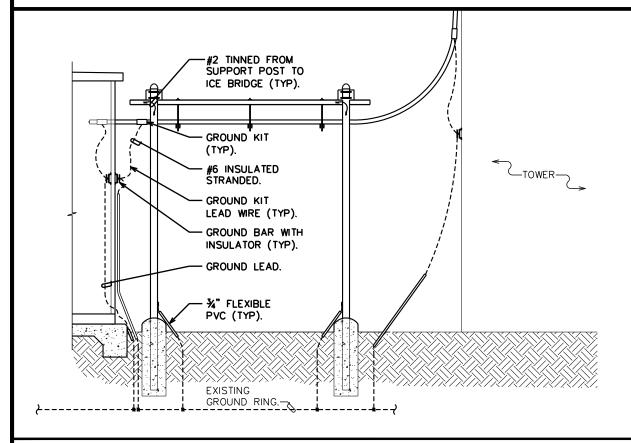


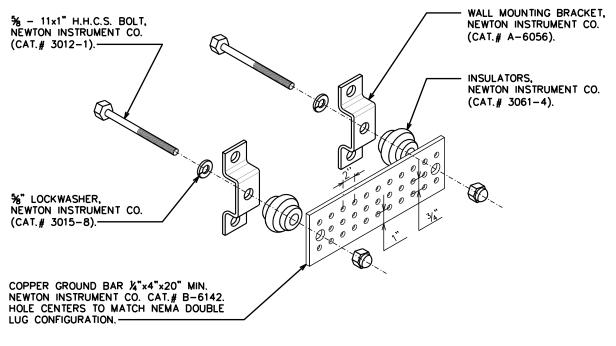
www.topgroup.no

NC LIC#: P-1403

ANTENNA & EQUIPMENT GROUNDING DETAIL

SCALE: N.T.S.





NOTE:

GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED AS WELL AS PROVIDE 50% SPARE CAPACITY

ICE BRIDGE/COAX/GROUNDING BAR ELEVATION

SCALE: N.T.S.

STANDARD GROUND BAR DETAILS

SCALE: N.T.S.



O 05-17-22 100% CONSTRUCTION
REV DATE ISSUED FOR:

DRAWN BY: VSM CHECKED BY: BSE

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

REVISION:

G-2

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