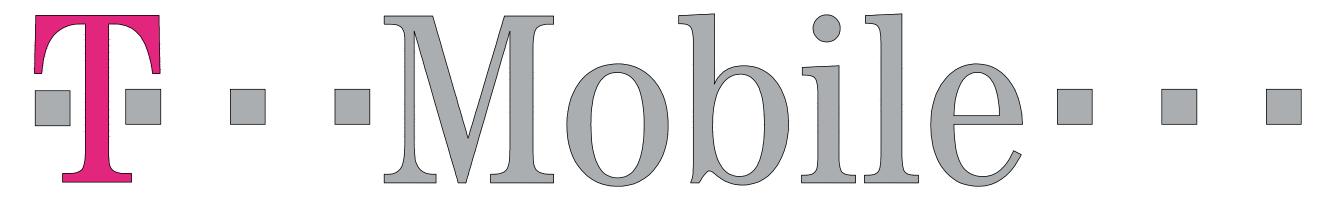
NOTE TO GENERAL CONTRACTOR





TOWER OWNER:

SITE NAME: N/A

SITE NUMBER: N/A



NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059

324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A COMMONWEALTH NB+C PROJECT #100838 345 GREENBRIER DRIVE CHARLOTTESVILLE, VA 2290 ALBEMARLE COUNTY

REVISIONS REVISED 2C UPDATES 2 10/05/22 REVISED 1 06/15/22 0 | 12/30/21 FINAL CDs PRELIMINARY CDs

REV DATE

Lic. No. 049978 DATE 05/19/23

DESCRIPTION

TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

TITLE SHEET

1 — **1**

SHENTEL KEEP PROJECT

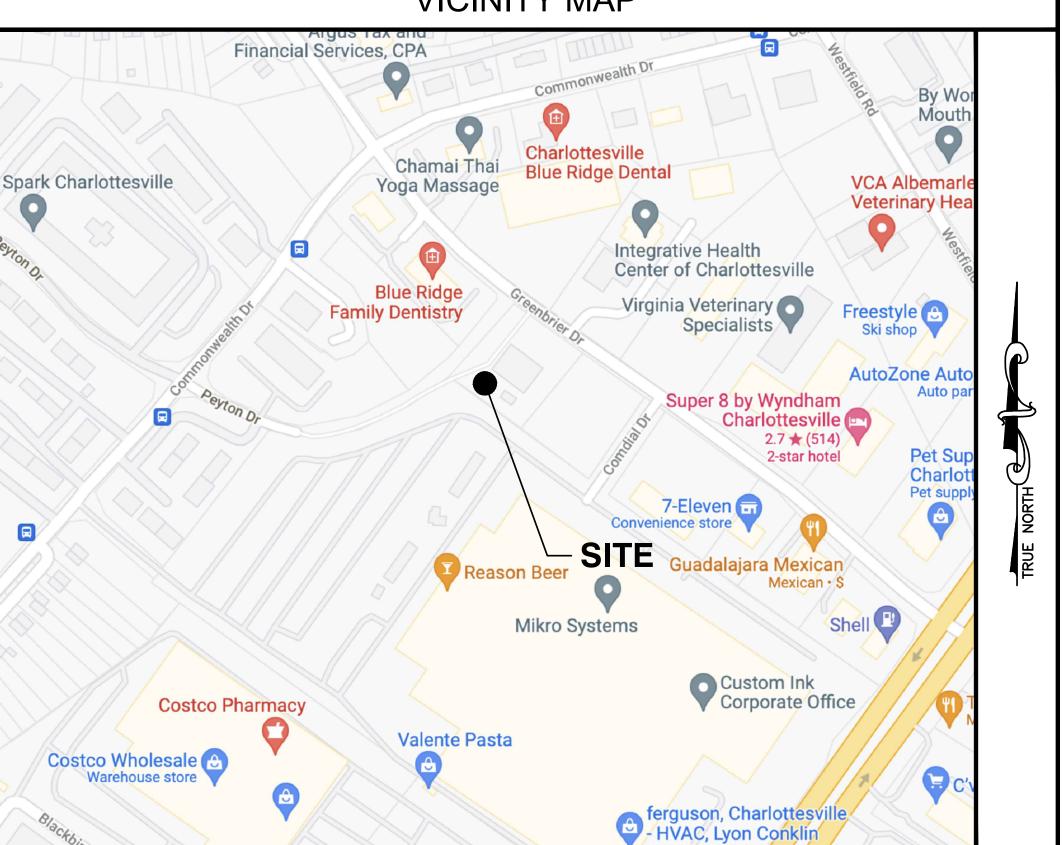
CONFIGURATION: 67E5A998E 6160 (RAN) / 67E5998E_1xAIR+10P (A&L)

T-MOBILE SITE NUMBER: VA72471A T-MOBILE SITE NAME: COMMONWEALTH

> 345 GREENBRIER DRIVE CHARLOTTESVILLE, VA 22901

ALBEMARLE COUNTY

VICINITY MAP



LONGITUDE (NAD 83):

38.07167636° -78.48807418°

SHENTEL SITE ID: 68376/WA68SH376

INSTALLATION OF (6) SITE PRO 1 CWT01-LL ANTENNA MOUNTS

9. INSTALLATION OF (3) NEW T-MOBILE ERICSSON 4480 B71+B85 RRUs

10. INSTALLATION OF (3) NEW T-MOBILE ERICSSON 4460 B25+B66 RRUs

11. INSTALLATION OF (4) NEW T-MOBILE 6x24 HYBRID CABLES

13. REMOVAL OF EXISTING SHENTEL EQUIPMENT CABINETS

11. REMOVAL OF EXISTING SHENTEL FIBER DISTRIBUTION BOX

13. INSTALLATION OF (2) NEW RP 6651 INSIDE NEW ENCLOSURE

15. REMOVAL OF (1) EXISTING SHENTEL 120/240V 200A 12 SPACE PPC

REMOVAL OF (3) EXISTING SHENTEL ANTENNAS

REMOVAL OF (3) EXISTING SECTOR PIPE MOUNTS

REMOVAL OF EXISTING SHENTEL COAX/FEEDLINES

REMOVAL OF (7) EXISTING SHENTEL RRUS

SHERWIN WILLIAMS SW7664 STEEL GRAY

ERICSSON B160 BATTERY CABINET

SHENTEL SITE NAME: COMMONWEALTH

SCOPE OF WORK

INSTALLATION OF (6) 2"Ø SCH 40 PIPE (2-3/8" O.D.) X 8' LONG MOUNTING PIPE

8. INSTALLATION OF (3) NEW T-MOBILE ERICSSON - AIR 6419 B41 ANTENNAS @

12. ALL PROPOSED EQUIPMENT TO BE PAINTED TO MATCH TOWER- COLOR IS

12. INSTALLATION OF (1) NEW T-MOBILE ERICSSON 6160 ENCLOSURE & (1) NEW

14. INSTALLATION OF (1) IXRE ROUTER & (2) PSU 4813 INSIDE NEW ENCLOSURE

16. INSTALLATION OF (1) NEW T-MOBILE 120/240V 200A 30 SPACE VERTIV PPC

7. INSTALLATION OF (3) NEW T-MOBILE COMMSCOPE - FFVV-65A-R2-V1 ANTENNAS @

JURISDICTION: ALBEMARLE COUNTY

ZONING DESIGNATION: C1 COMMERCIAL

PARCEL NUMBER: 061W0-03-00-00700

PARCEL AREA:

PARCEL OWNER:

HOUSTON, TX 77056

STRUCTURE TYPE: **SELF-SUPPORT TOWER**

STRUCTURE HEIGHT 100'-0" (AGL)

CONSTRUCTION TYPE:

USE GROUP:

SITE INFORMATION

LATITUDE (NAD 83):

GROUND ELEVATION: 501.72'± (AMSL)

0.65± ACRES

TRANS CONTINENTAL GAS CORP 2800 OLD POST OAK BLVD.

• 2018 INTERNATIONAL FIRE CODE (IFC)

2017 NATIONAL ELECTRICAL CODE

2018 NFPA 101, LIFE SAFETY CODE

AMERICAN CONCRETE INSTITUTE

2018 BUILDING CODE

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

ANSI/TIA-222-H

TIA 607

ANSI/T 311

CODE COMPLIANCE

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 CODES.

INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81

IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION

TELCORDIA GR-1275

MANUAL OF STEEL CONSTRUCTION 15TH EDITION
 2018 VIRGINIA CONSTRUCTION CODE

DO NOT SCALE DRAWINGS THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND

G-1

T-1

GN-1

Z-1

C-1

C-2

C-3

SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

WILLIAMS PIPELINE SERVICES COMPANY

DRAWING INDEX

TITLE SHEET

SITE PLAN

ELEVATION

GENERAL NOTES

COMPOUND PLAN

EQUIPMENT PLANS

ANTENNA SCHEDULE

ANTENNA MOUNT DETAILS

HYBRID COLOR CODES

HYBRID COLOR CODES

ELECTRICAL DETAILS

GROUNDING DETAILS

ANTENNA ORIENTATION PLANS

ANTENNA SPECIFICATIONS & DETAILS

EQUIPMENT SPECIFICATIONS & DETAILS

CABLING DETAILS & RF PLUMBING DIAGRAM

PROJECT TEAM

APPLICANT:

OFFICE: (757) 453-6907 FAX: (757) 589-0904

PROJECT MANAGEMENT FIRM: NETWORK BUILDING + CONSULTING, LLC.

GLEN ALLEN, VA 23059 (804) 548-4079

ENGINEERING FIRM: NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300

GLEN ALLEN, VA 23059 (804) 548-4079 JWOOD@NBCLLC.COM

T-MOBILE NORTHEAST LLC 324 MADISON MEWS NORFOLK, VA 23510

120 EASTSHORE DRIVE, SUITE 300

ELECTRICAL & GROUNDING NOTES

- 1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- 2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- 3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- 4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- 5. ELECTRICAL AND TELCO WIRING AT EXPOSED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC OR RIGID SCHEDULE 80 PVC FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) (AS PERMITTED BY CODE).
- 6. ELECTRICAL AND TELCO WIRING AT CONCEALED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING, OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC AS PERMITTED BY CODE).
- 7. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING, ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS (RGS) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- 8. BURIED CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT (RIGID SCHEDULE 40 PVC); DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT TRAFFIC, ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY TRAFFIC.
- 9. LIQUID—TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEEDED.
- 10. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE THHN OR THWN-2 THIN INSULATION.
- 11. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- 12. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- 13. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 14. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTING PROTECTION SHALL BE DONE IN ACCORDANCE WITH T-MOBILE CELL SITE GROUNDING STANDARDS.
- 15. GROUND CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- 16. INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- 17. ALL POWER AND GROUND CONNECTIONS TO BE CRIMP—STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY HARGER (OR APPROVED EQUAL) RATED FOR OPERATION AT NO LESS THAN 75°C OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 18. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- 19. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- 20. APPLY OXIDE INHIBITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.
- 21. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- 22. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE—OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.
- 23. CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.
- 24. THE T-MOBILE ELECTRICAL EQUIPMENT INCLUDING PANEL, SWITCH GEAR AND DISCONNECT ARE TO BE LABELED WITH ENGRAVED BAKELITE LABELS.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.

 MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- 5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
- 8. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
- 9. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
- 10. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
- 11. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
- 12. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
- 13. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- 14. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- 15. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- 16. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- 17. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- 18. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.

STRUCTURAL NOTES

HIGH STRENGTH BOLTS

- 1. THE STRUCTURAL STEEL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANCHOR BOLT LOCATIONS, ELEVATION OF TOP OF CONCRETE AND BEARING PLATES, ALIGNMENT ETC. PRIOR TO START OF STEEL ERECTION.
- THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS SHALL GOVERN:

 A. AISC "ALLOWABLE STRESS DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
 B. AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
 C. AWS "D1.1 STRUCTURAL WELDING CODE STEEL".
- 3. MATERIAL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

STRUCTURAL WIDE FLANGE & M SHAPES A992 OR A572 FY = 50KSI

OTHER STRUCTURAL SHAPES AND PLATES A36, FY = 36 KSI STRUCTURAL TUBING A500, GRADE B

FY = 46 KSI A325

THREADED RODS A354, GRADE BC
ANCHOR BOLTS A325 OR A354 BC
PIPE (HANDRAIL) SCH 40 PIPE

- 4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC REQUIREMENTS.
- 5. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED. ALL HOLES IN BEARING PLATES SHALL BE DRILLED.
- 6. ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.
- 7. EPOXY ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 8. ALL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD PER AISC SPECIFICATIONS USING STANDARD HOLES.
- 9. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND FIT PRIOR TO FABRICATION.

VEE B



NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079

T-MOBILE NORTHEAST LLC

324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 2290
ALBEMARLE COUNTY

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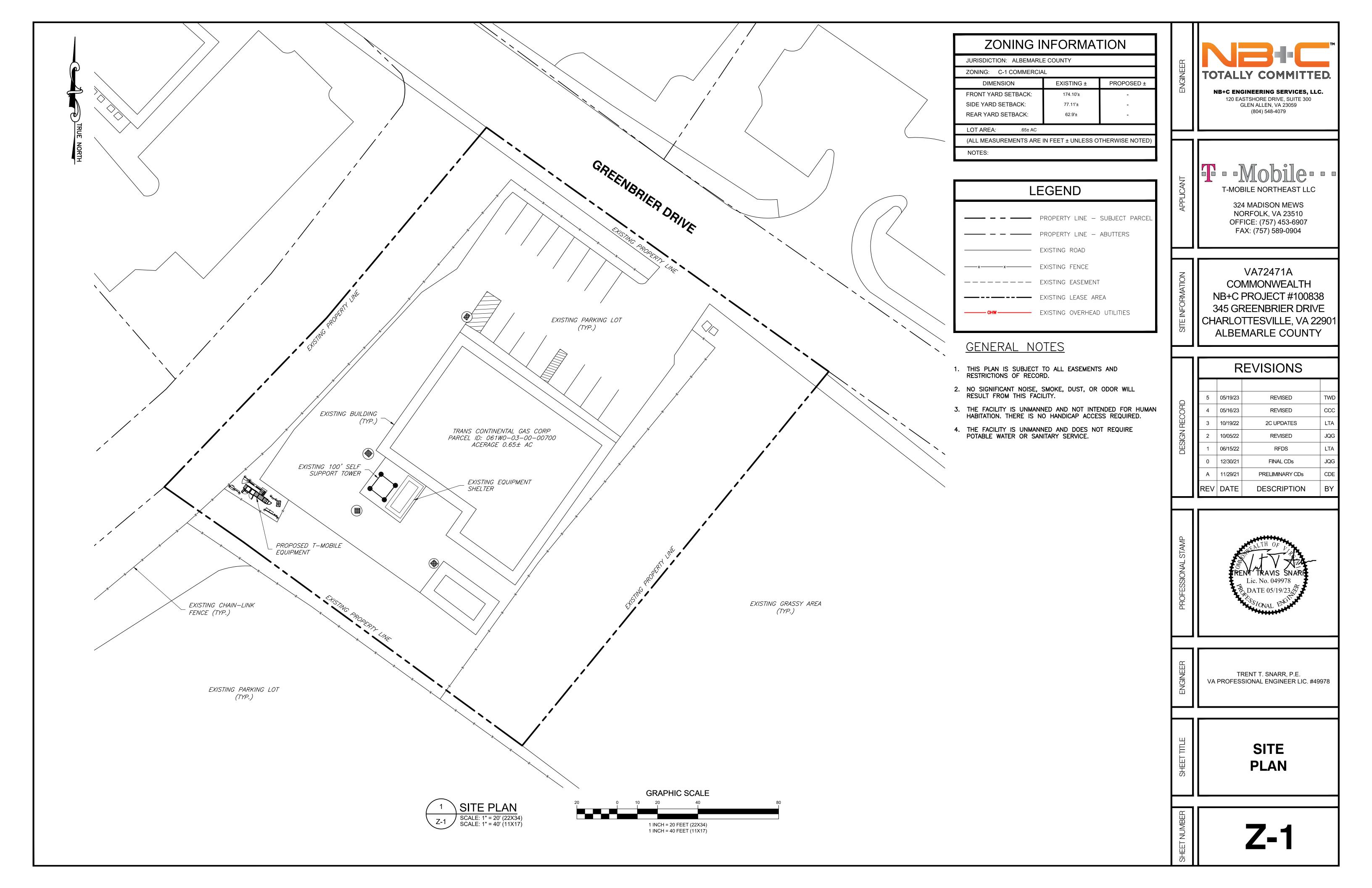
TRENT TRAVIS SNARR Lic. No. 049978 DATE 05/19/23

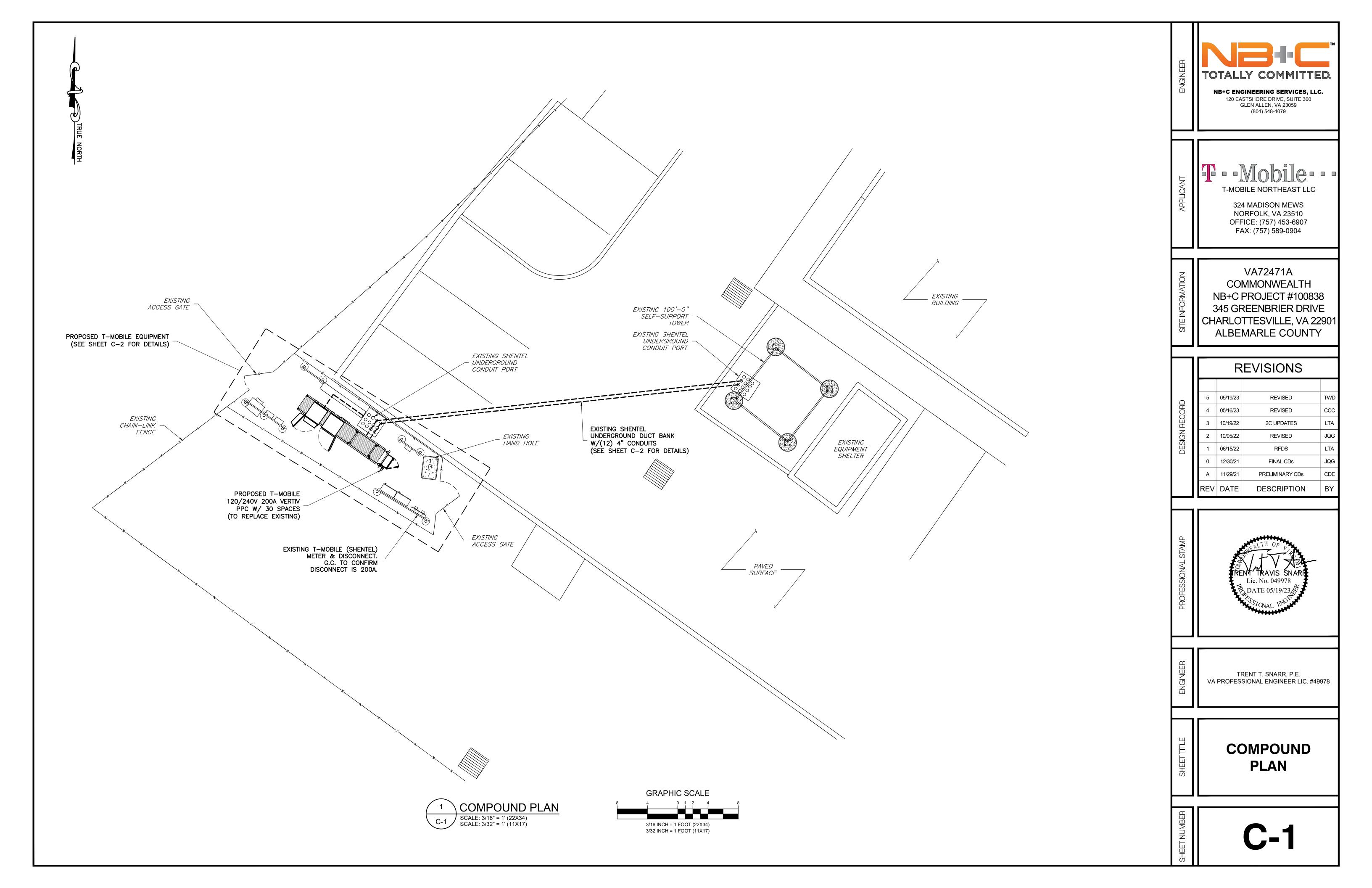
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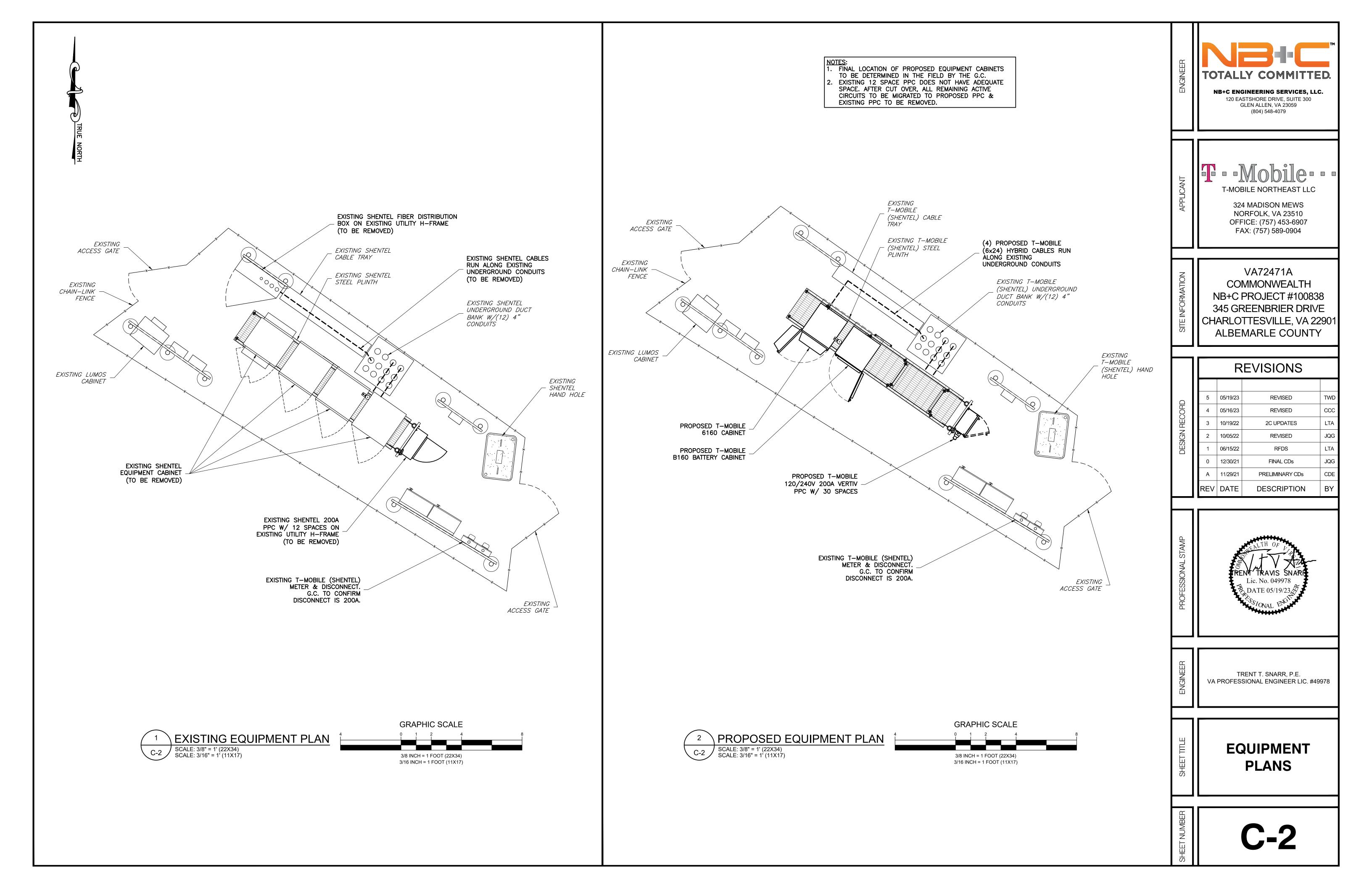
GENERAL NOTES

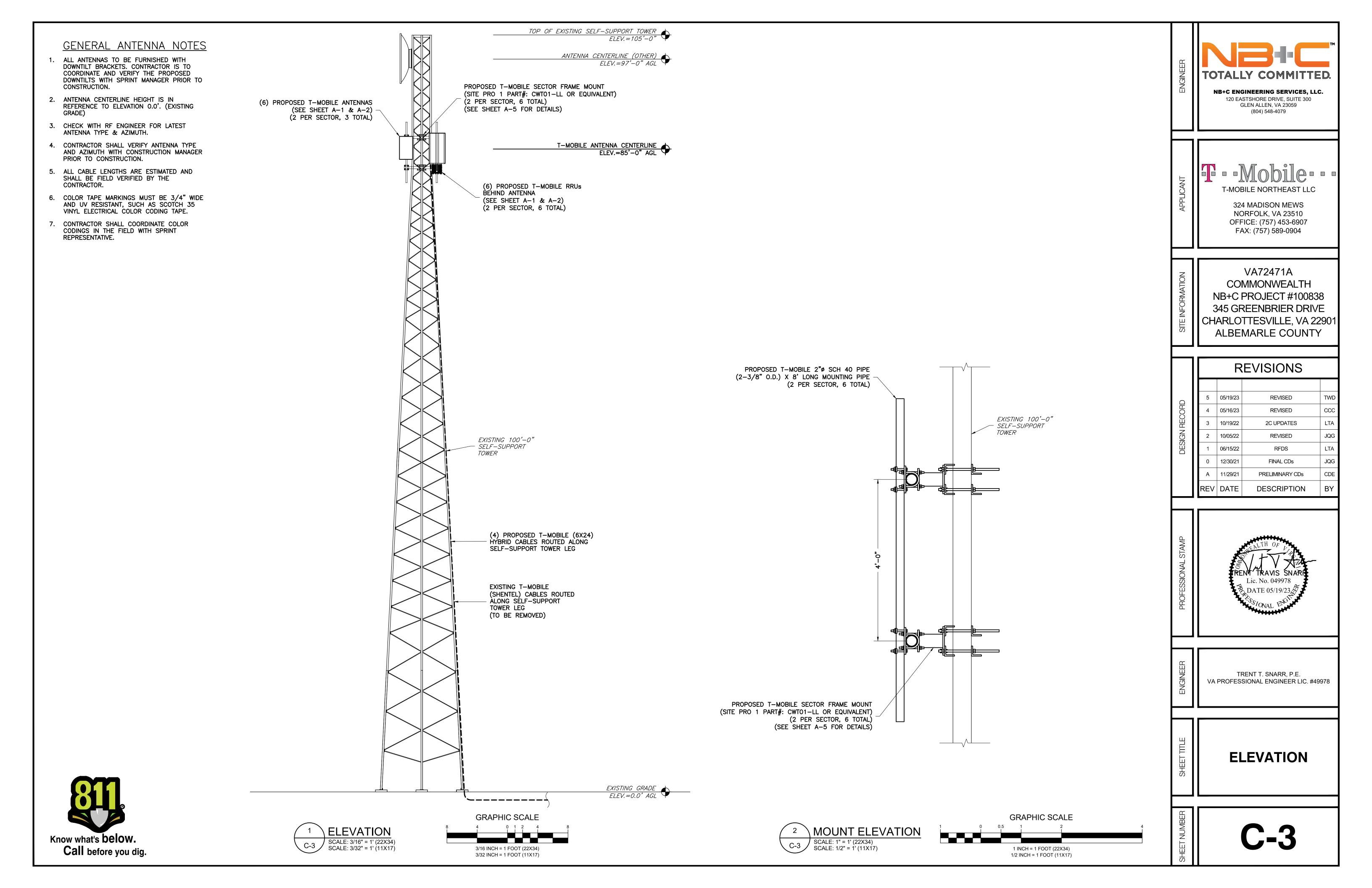
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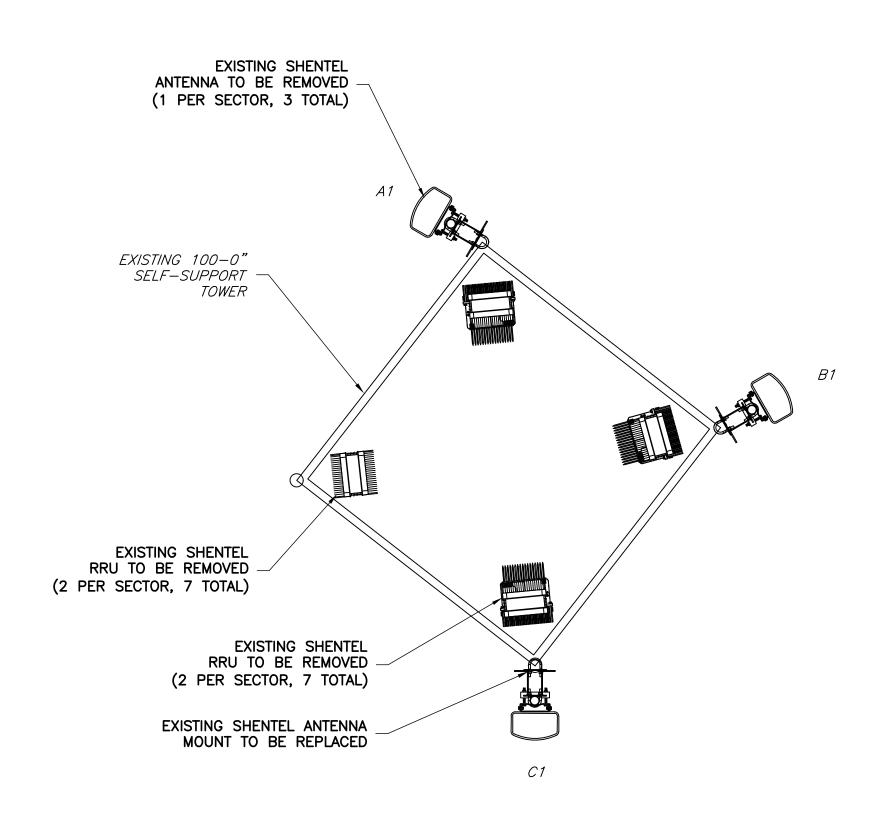
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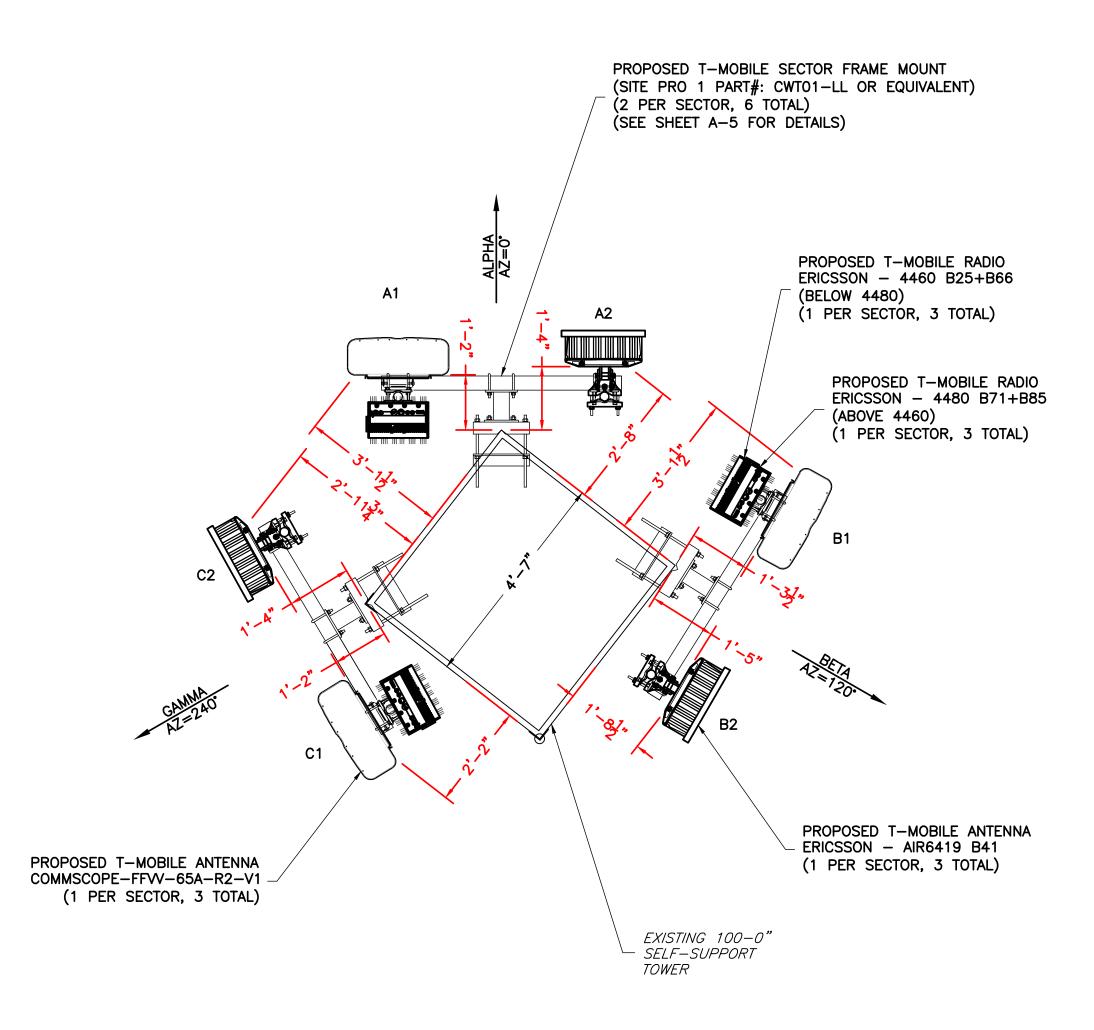


1 EXISTING ANTENNA ORIENTATION PLAN
NOT TO SCALE

PROPOSED ANTENNA ORIENTATION PLAN

NOT TO SCALE

APPROX
TRUE NORTH



TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079

T-MOBILE NORTHEAST LLC

324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 22907
ALBEMARLE COUNTY

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RENT TRAVIS SNARF Lic. No. 049978 DATE 05/19/23

TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

ANTENNA ORIENTATION PLANS

A-

ALL EXISTING SHENTEL ANTENNAS, RADIOS, TMA'S, DIPLEXERS, AND CABLES WILL BE REMOVED FROM THE SITE.

(MICROWAVE EQUIPMENT IS EXCLUDED FROM THIS REQUIREMENT)

	ANTENNA SCHEDULE														
SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA DIMENSIONS (HxWxD)	RAD CENTER	AZIMUTH	ELEC DOWNTILT	MECH DOWNTILT	RRU QUANTITY & MODEL	TMA/DIPLEXER QUANTITY & MODEL	CABLE QUANTITY & TYPE	CABLE LENGTH			
A1	PROPOSED	COMMSCOPE	FFVV-65A-R2-V1	48.19"x25.20"x9.25"	85.00'	0°	6°/6°/4°/4°	0*	(1) PROPOSED 4480 B71+B85 (1) PROPOSED 4460 B25+B66	-	(2) PROPOSED (6x24) HYBRID FLEX CABLE	.==:			
A2	PROPOSED	ERICSSON	AIR6419 B41	34.50"x20.00"x8.00"	85.00'	0°	4°/4°	0*	_	_	(SHARED WITH ALL SECTORS)	170.00'			
B1	PROPOSED	COMMSCOPE	FFVV-65A-R2-V1	48.19"x25.20"x9.25"	85.00'	120°	6°/6°/4°/4	0,	(1) PROPOSED 4480 B71+B85 (1) PROPOSED 4460 B25+B66	<u> </u>	(1) PROPOSED (6x24) HYBRID CABLE	170.00'			
B2	PROPOSED	ERICSSON	AIR6419 B41	34.50"x20.00"x8.00"	85.00'	120°	4*/4*	0•	_	_					
C1	PROPOSED	COMMSCOPE	FFVV-65A-R2-V1	48.19"x25.20"x9.25"	85.00'	240°	6./6./4./4.	0,	(1) PROPOSED 4480 B71+B85	<u>/////////////////////////////////////</u>					
									(1) PROPOSED 4460 B25+B66		(1) PROPOSED (6x24) HYBRID CABLE	170.00'			
C2	PROPOSED	ERICSSON	AIR6419 B41	34.50"x20.00"x8.00"	85.00'	240°	4./4.	0•	-	_					

NOTES:
1. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

ANTENNA CONFIGURATION SCHEDULE

NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079

T-MOBILE NORTHEAST LLC

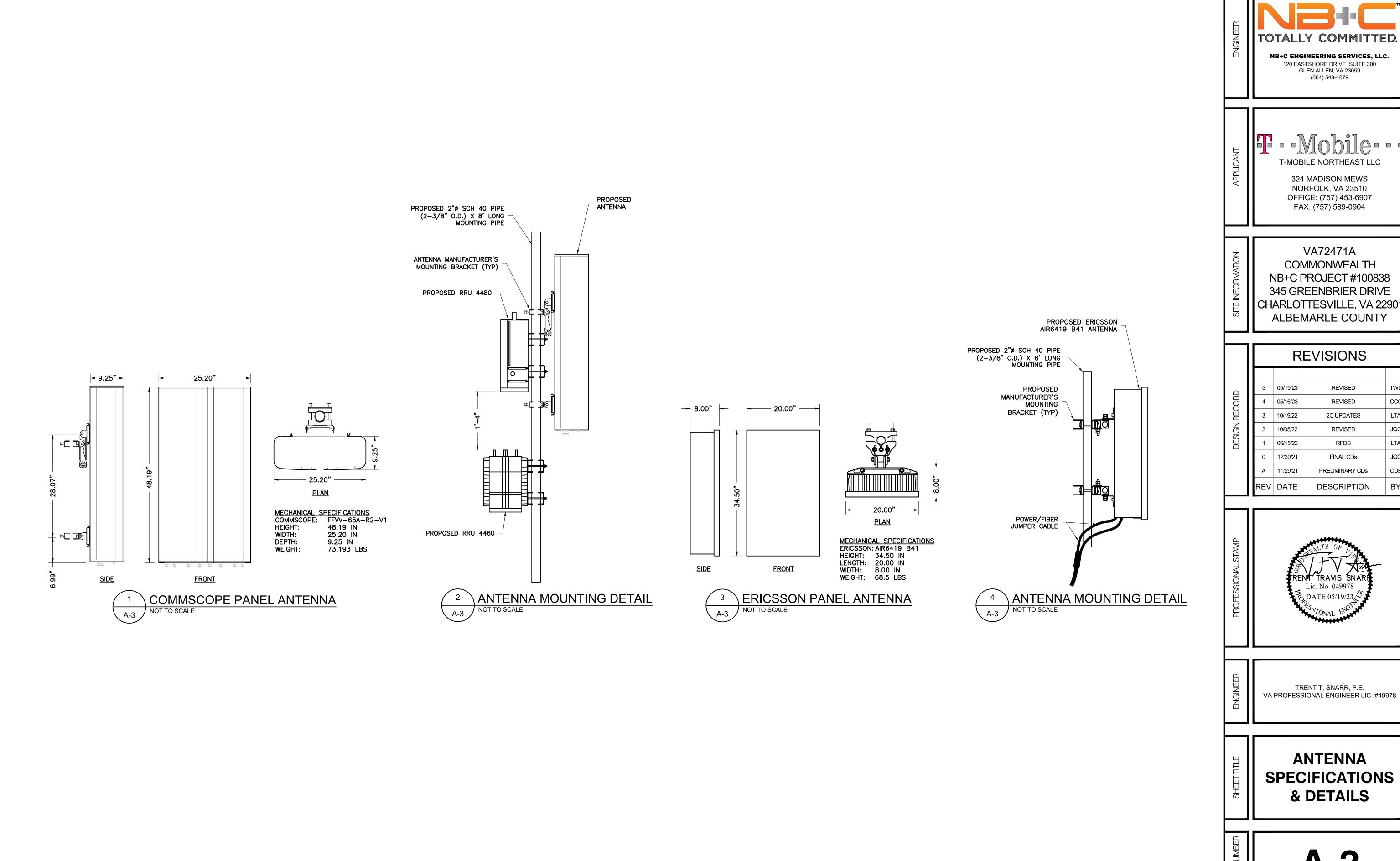
324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A COMMONWEALTH NB+C PROJECT #100838 345 GREENBRIER DRIVE CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY

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TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

ANTENNA SCHEDULE



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T-MOBILE NORTHEAST LLC

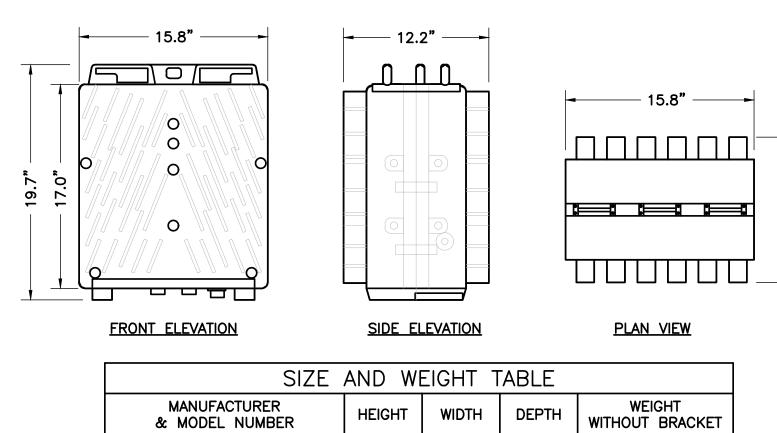
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TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

ANTENNA SPECIFICATIONS & DETAILS



NOTE:
DO NOT PAINT THE RRU. RRU SOLAR SHIELD CAN BE PAINTED PER MANUFACTURER'S METHOD OF PROCEDURE.

1 ERICSSON REMOTE RADIO UNIT (RRU)

19.7" 15.8"

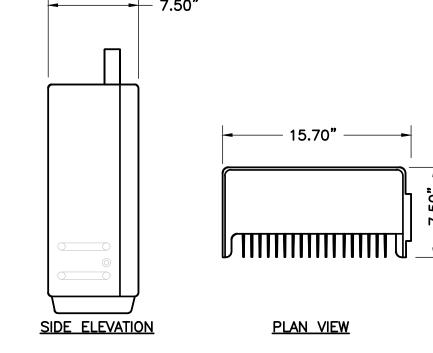
12.2"

109.00 LBS

ERICSSON 4460 B25+B66

3

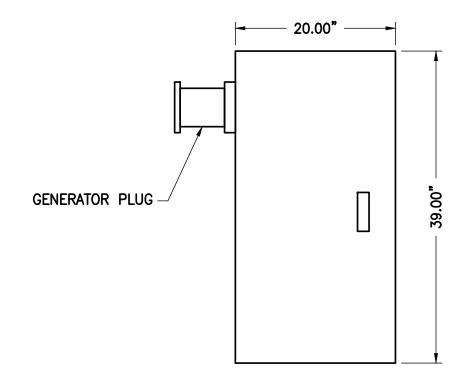
FRONT ELEVATION



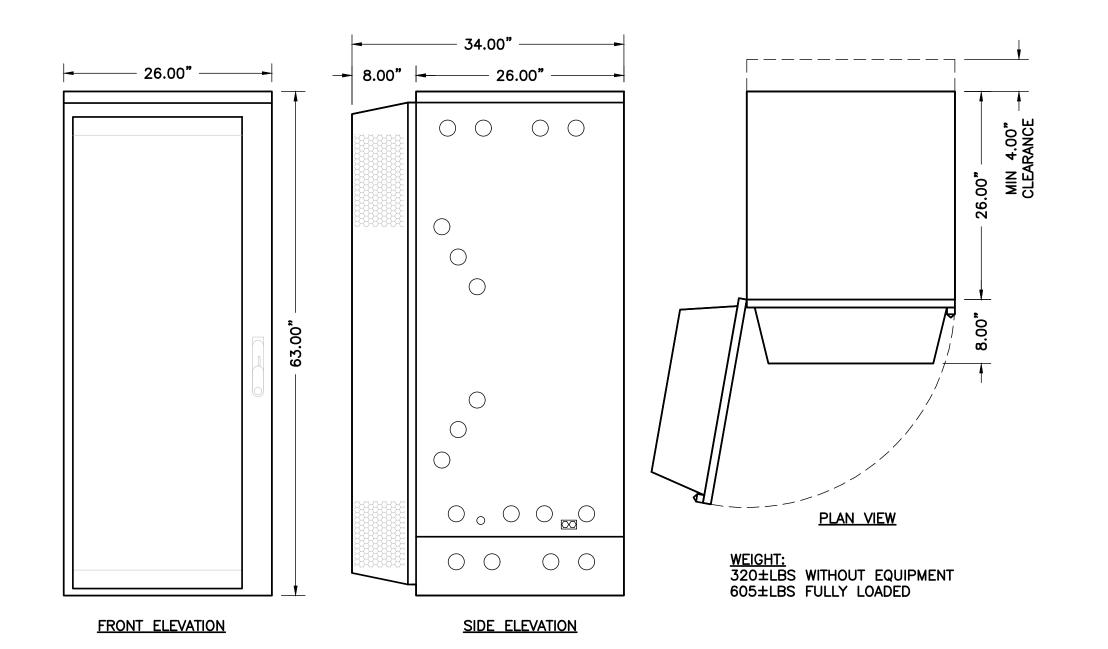
SIZE AND WEIGHT TABLE											
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET							
ERICSSON 4480 B71+B85	21.9"	15.7"	7.50"	81.00 LBS							

NOTE:
DO NOT PAINT THE RRU. RRU SOLAR SHIELD CAN BE PAINTED PER MANUFACTURER'S METHOD OF PROCEDURE.

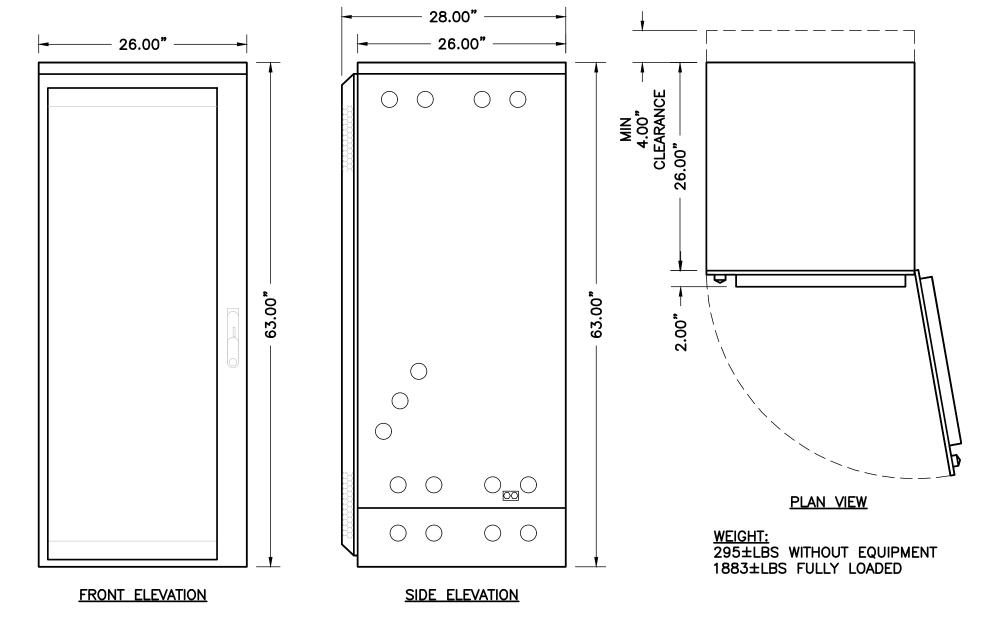




5 VERTIV PPC UNIT DETAIL
NTS



6160 ENCLOSURE CABINET



5 B160 BATTERY CABINET

A-4 NOT TO SCALE

TOTALL

NB+C ENGI

120 FAST

NB+C ENGINEERING SERVICES, LLC.

120 EASTSHORE DRIVE, SUITE 300
GLEN ALLEN, VA 23059
(804) 548-4079

T-MOBILE NORTHEAST LLC

324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 2290
ALBEMARLE COUNTY

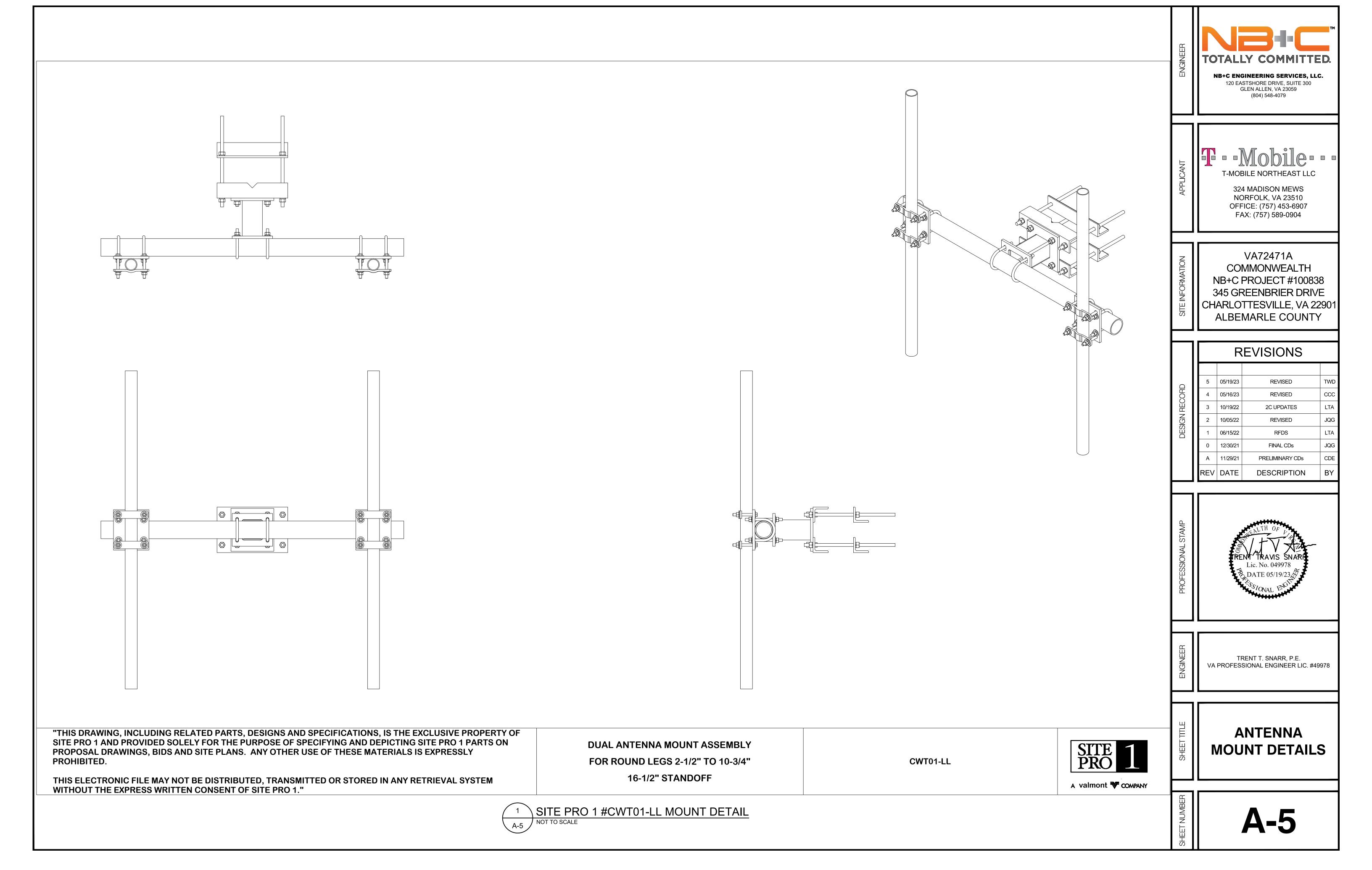
_				
		R	EVISIONS	
	5	05/19/23	REVISED	TWD
)ORI	4	05/16/23	REVISED	ccc
REC	3	10/19/22	2C UPDATES	LTA
DESIGN RECORD	2	10/05/22	REVISED	JQG
DES	1	06/15/22	RFDS	LTA
	0	12/30/21	FINAL CDs	JQG
	Α	11/29/21	PRELIMINARY CDs	CDE
	REV	DATE	DESCRIPTION	BY
			·	

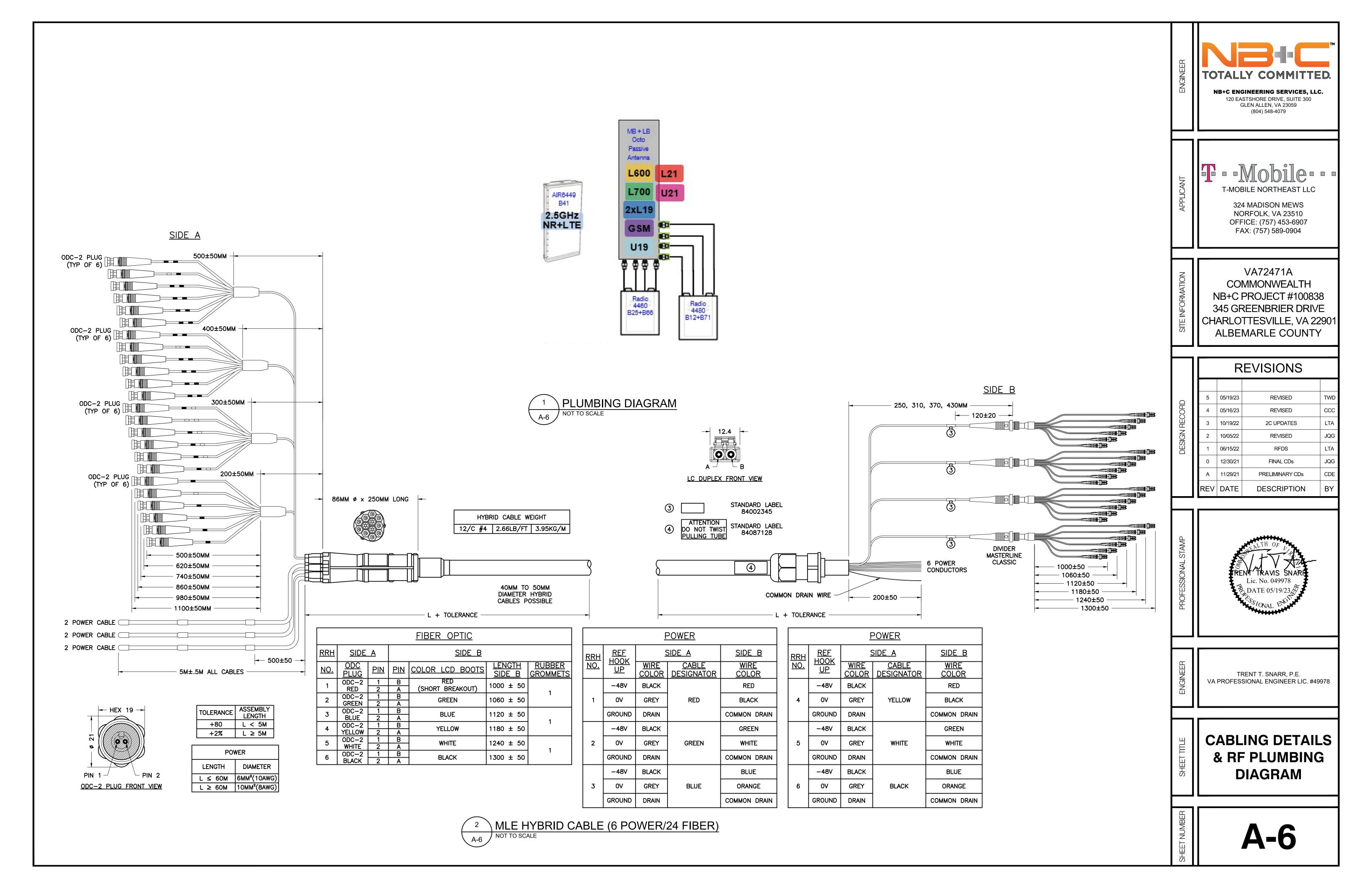
į	STALTH OF L	
	ENT TRAVIS SNARF Lic. No. 049978 DATE 05/19/23	
	DATE 05/19/23	

TDENT T CNADD DE
TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

EQUIPMENT
SPECIFICATIONS
& DETAILS

A-4





NOTES:

1. CABLE INFORMATION IS SHOWN FOR ONLY (12) OF (24) FIBER PAIRS PER CABLE. REMAINING (12) PAIRS ARE SPARES WITH IDENTICAL COLOR CODES.

2. THE 4TH HYBRID CABLE IS NOT SHOWN BELOW. IT WILL BE DEDICATED TO THE PROPOSED AIR6449 UNITS. COLOR CODES WILL MATCH THE TABLES BELOW.

				Sh	entel I	Keep Hy	brid P	lumbing (4) 6x24	Hybrids			
TRUNK	PAIR#	AIR/RRU END			RBS END		RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	RBS END FIBER LABELS	SECTOR		
COLOR CODE	PAIR#	0	DC	PIN	PIN	LC B	ООТ	KADIO (TECHNOLOGI)	AIN, KKO LIND COLOK CODE	NDS LIND FIBER LABELS	SECTOR	
	1	RED		1	В	RED		Radio 4460 B25+B66 (G19	RED 1 + LC Boot Color	ALPHA B2 G19 CPRI1	ALPHA	
	_	ILLD		2	Α	MED		CPRI1)	NED I : Le Boot colo!	ALPHA DZ GIJ CP NII	, , , , , , , , , , , , , , , , , , , ,	
	2	GREEN		1	В	GREEN		Radio 4460 B25+B66 (L19	RED 1 + LC Boot Color	ALPHA B25 L19 CPRI2	ALPHA	
				2	Α	0		CPRI2)		ACITIA DES ETS CITAL		
	3	BLUE		1	В	BLUE		Radio 4460 B25+B66 (L21	RED 1 + LC Boot Color	ALPHA B66 L21 CPRI3	ALPHA	
		(COLOR)		2	Α			CPRI3)		7,21,117,200,222,01,110		
	4 YEI	YELLOW		1	В	YELLOW		Radio 4460 B25+B66 (L21	RED 1 + LC Boot Color	ALPHA B66 L21 CPRI4	ALPHA	
				2	Α			CPRI4)				
	5	WHITE		1	В	WHITE	Radio 4460 B25+B66 (G19	YELLOW 1 + LC Boot Color	BETA B2 G19 CPRI1	BETA		
				2	Α			CPRI1)				
	6	BLACK	BLACK		1	В	BLACK		Radio 4460 B25+B66 (L19	YELLOW 1 + LC Boot Color	BETA B25 L19 CPRI2	BETA
				2	Α			CPRI2)			<u> </u>	
Ш	7	RED	WHITE	1	В	RED	WHITE	Radio 4460 B25+B66 (L21	YELLOW 1 + LC Boot Color	BETA B66 L21 CPRI3	BETA	
\simeq				2	A			CPRI3)				
	8	GREEN	WHITE	1	В	GREEN	WHITE	Radio 4460 B25+B66 (L21 CPRI4)	YELLOW 1 + LC Boot Color	BETA B66 L21 CPRI4	BETA	
				2	A B			Radio 4460 B25+B66 (G19			+	
	9	BLUE	WHITE	2	A	BLUE	WHITE	CPRI1)	BLUE 1 + LC Boot Color	GAMMA B2 G19 CPRI1	GAMMA	
				1	В			Radio 4460 B25+B66 (L19			+	
	10	YELLOW	WHITE	2	A	YELLOW	WHITE	CPRI2)	BLUE 1 + LC Boot Color	GAMMA B25 L19 CPRI2	GAMMA	
				1	В			Radio 4460 B25+B66 (L21			<u> </u>	
	11	WHITE	WHITE	2	A	WHITE	WHITE	CPRI3)	BLUE 1 + LC Boot Color	GAMMA B66 L21 CPRI3	GAMMA	
	42	DI A CI	MUUTE	1	В	DI A CIK	\\ (1) UTT	Radio 4460 B25+B66 (L21	DUIE A LICE VOL		64444	
	12	BLACK	WHITE	2	A	BLACK	WHITE	CPRI4)	BLUE 1 + LC Boot Color	GAMMA B66 L21 CPRI4	GAMMA	

TRUNK	PAIR#	F	AIR/RRU EN	D		RBS END		RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	RBS END FIBER LABELS	SECTOR
COLOR CODE	PAIK#	0	DC	PIN	PIN	LC B	ООТ	RADIO (TECHNOLOGY)	AIN, KKO END COLOK CODE	NOS EIND FIBER LABELS	SECTOR
	1	RED		1	В	RED		Radio 4480 B71+B85A	RED 2 + LC Boot Color	Alpha L700/L600 CPRI1	ALPHA
		, LLD		2	Α	MED		CPRI1	NED 2 : LE BOOK COIO!	Alpha L700/L000 CFMI	ALITIA
	2	GREEN		1	В	GREEN		Radio 4480 B71+B85A	RED 2 + LC Boot Color	Alpha N600 CPRI2	ALPHA
				2	Α	2000000000		CPRI2		7 II priu 14000 er 1412	7 127 177
	3	BLUE		1	В	BLUE		Radio 4480 B71+B85A	YELLOW 2 + LC Boot Color	Beta L700/L600 CPRI1	BETA
				2	Α			CPRI1			
	4	YELLOW		1	В	YELLOW		Radio 4480 B71+B85A	YELLOW 2 + LC Boot Color	Beta N600 CPRI2	BETA
				2	Α			CPRI2			
	5	WHITE		1	В	WHITE		Radio 4480 B71+B85A	BLUE 2 + LC Boot Color	Gamma L700/L600 CPRI1	GAMMA
~ I				2	A			CPRI1			
) 2	6 B	6 BLACK		1	В	BLACK		Radio 4480 B71+B85A	BLUE 2 + LC Boot Color	Gamma N600 CPRI2	GAMMA
				2	A			CPRI2			
RE	7	RED	WHITE	1	В	RED	WHITE				
4				2 1	A B						
	8	GREEN	WHITE	2	A	GREEN	WHITE				
		200701200		1	В	200000					
	9	BLUE	WHITE	2	A	BLUE	WHITE				
	10	VELLOW		1	В	VELLOW					
	10	YELLOW	WHITE	2	A	YELLOW	WHITE				
	11	WHITE	WHITE	1	В	WHITE	WHITE				
	11	VVIIIE	VVIIIE	2	Α	VVIIIE	WHILE				
	12	BLACK	WHITE	1	В	BLACK	WHITE				
	12	BLACK	WHILE	2	Α	BLACK	VVIIIE				

TRUNK	DAID #	,	AIR/RRU EN	D		RBS END		PADIO (TECUNOLOCV)	AID /DDITEND COLOD CODE	RBS END FIBER LABELS	SECTOR
COLOR CODE	PAIR#	0	DC	PIN	PIN		ООТ	RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	KDS EIND FIDER LABELS	SECTOR
	1	RED		1	В	RED		Radio 4460 B25+B66 (G19	RED 3 + LC Boot Color	DELTA B2 G19 CPRI1	DELTA
		.,		2	Α			CPRI1)	1120 011 20 0001 00101	DELIA DE GIS GI MI	522.71
	2	GREEN		1	В	GREEN		Radio 4460 B25+B66 (L19	RED 3 + LC Boot Color	DELTA B25 L19 CPRI2	DELTA
				2	Α			CPRI2)			
	3	BLUE		1	В	BLUE		Radio 4460 B25+B66 (L21	YELLOW 3 + LC Boot Color	DELTA B66 L21 CPRI3	DELTA
	,			2	Α			CPRI3)			
	4	YELLOW		1	В	YELLOW		Radio 4460 B25+B66 (L21	YELLOW 3 + LC Boot Color	DELTA B66 L21 CPRI4	DELTA
				2	Α			CPRI4)			
	5	WHITE		1	В	WHITE		Radio 4480 B71+B85A	BLUE 3 + LC Boot Color	DELTA L700/L600 CPRI1	DELTA
00				2	A			CPRI1			
3	6	BLACK		1	В	BLACK		Radio 4480 B71+B85A	BLUE 3 + LC Boot Color	DELTA N600 CPRI2	DELTA
				2	A			CPRI2			
RE	7	RED	WHITE	1	В	RED	WHITE				
<u>~</u>				2	A						
	8	GREEN	WHITE	1	В	GREEN	WHITE				
				2	A						
	9	BLUE	WHITE	2	B A	BLUE	WHITE				
				1	В						
	10	YELLOW	WHITE	2	A	YELLOW	WHITE				
				1	В						
	11	WHITE	WHITE	2	A	WHITE	WHITE				
				1	В						
	12	BLACK	WHITE	2	A	BLACK	WHITE				

	DC Power													
PAIR#	REF HOOKUP	PIN LETTER	AIR/RF	RU END	RADIO (TECHNOLOGY)	SECTOR	SPD LABELS							
1	-48	Α	BLACK	RED	Radio 4460 B66aA	ALPHA	Alpha 4460 P1							
	OV	В	RED	,,,,,,	Nadio 4400 BoodA	ALITIA	Alpha 440011							
2	-48	Α	BLACK	GREEN	Radio 4460 B25	ALPHA	Alpha 4460 P2							
	OV	В	RED	CHEZIT	Nadio 4400 B23	ALITIA								
3	-48	Α	BLACK	BLUE	Radio 4460 B66aA	BETA	Beta 4460 P1							
	OV	В	RED	5000	Radio 4400 Boody	DEIA	5014 440011							
4	-48	Α	BLACK	YELLOW	Radio 4460 B25	BETA	Beta 4460 P2							
•	OV	В	RED	122011	Nadio 4400 B25	DETA	DC18 440012							
5	-48	Α	BLACK	WHITE	Radio 4460 B66aA	GAMMA	Gamma 4460 P1							
	OV	В	RED	*******	Naulo 4400 Dodak	JAMMA	Gaiiiiia 4400 F1							
6	-48	Α	BLACK	BLACK	Radio 4460 B25	GAMMA	Gamma 4460 P2							
J	OV	В	RED	BLACK	Naulu 4400 B25	GAIVIIVIA	Gaillilla 4400 PZ							

PAIR#	REF HOOKUP	PIN LETTER	AIR/RF	RU END	RADIO	SECTOR	SPD LABELS
1	-48	A	BLACK	RED	Dadia 4400	ALDUIA	Alaba 4400
1	OV	В	RED	KED	Radio 4480	ALPHA	Alpha 4480
2	-48	Α	BLACK	GREEN			
2	OV	В	RED	GILLIN			
3	-48	Α	BLACK	BLUE	Radio 4480	BETA	Beta 4480
3	OV	В	RED	DLOL	Nau10 4460	DETA	Beta 4460
4	-48	Α	BLACK	YELLOW			
7	OV	В	RED	TELEOW			
5	-48	Α	BLACK	WHITE	Radio 4480	GAMMA	Gamma 4480
	OV	В	RED	********	114410 4400	GAMINA	Garrilla 4400
6	-48	Α	BLACK	BLACK			
J	OV	В	RED	BBACK			

PAIR#	REF HOOKUP	PIN LETTER	AIR/RRU END		RADIO	SECTOR	SPD LABELS
1	-48	Α	BLACK	RED	Radio 4460	ALPHA	Delta 4460 P1
-	OV	В	RED	KLD	Nau10 4400	ALPHA	Della 4400 PI
2	-48	Α	BLACK	GREEN	Radio 4460	BETA	Delta 4460 P2
2	OV	В	RED)	Nau10 4400	DLIA	Delta 4400 FZ
3	-48	Α	BLACK	BLUE	Radio 4460	GAMMA	Delta 4480
	OV	В	RED	5	Nau10 4400	OAMINA	Delta 4400
4	-48	Α	BLACK	YELLOW			
	OV	В	RED	TELEOW			
5	-48	Α	BLACK	WHITE			
	OV	В	RED	********			
6	-48	Α	BLACK	BLACK			
J	OV	В	RED	DLACK			

	Alpha RF Jumper Color Code										
	Radi	o 4460		Radi	o 4480						
port 1	port 2	port 3	port 4	port 1	port 2	port 3	port 4				
RED 1	RED 2	RED 3	RED 4	RED 5	RED 6	RED 7	RED 8				

	Beta RF Jumper Color Code										
Radio 4460 Radio 4480											
port 1 port 2	port 3	port 4	port 1	port 2	port 3	port 4					
YELLOW 1 YELLOW 2	YELLOW 3	YELLOW 4	YELLOW 5	YELLOW 6	YELLOW 7	YELLOW 8					

	G	amma	RF Jum	nper Co	lor Co	de					
Radio 4460 Radio 4480											
port 1	port 2	port 3	port 4	port 1	port 2	port 3	port 4				
BLUE 1	BLUE 2	BLUE 3	BLUE 4	BLUE 5	BLUE 6	BLUE 7	BLUE 8				

Delta RF Jumper Color Code											
Radio 4460 Radio 4480											
port 1	port 2	port 3	port 4	port 1	port 2	port 3	port 4				
GREEN 1	GREEN 2	GREEN 3	GREEN 4	GREEN 5	GREEN 6	GREEN 7	GREEN 8				



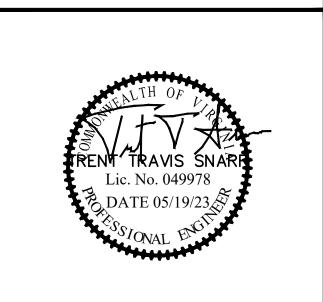
NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079

T-MOBILE NORTHEAST LLC

324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

			R	EVISIONS	
\cap		5	05/19/23	REVISED	TWD
CORI		4	05/16/23	REVISED	ccc
RE(3	10/19/22	2C UPDATES	LTA
DESIGN RECORD		2	10/05/22	REVISED	JQG
DES		1	06/15/22	RFDS	LTA
		0	12/30/21	FINAL CDs	JQG
		Α	11/29/21	PRELIMINARY CDs	CDE
	R	EV	DATE	DESCRIPTION	BY



ENGINEER	TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

HYBRID COLOR CODES

A-7

				Sh	entel k	(eep Hy	brid P	lumbing (4) 6x24	Hybrids		
TRUNK COLOR	PAIR#	A	AIR/RRU ENI	D		RBS END		RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	RBS END FIBER LABELS	SECTOR
CODE	PAIN#	10	DC	PIN	PIN	LC B	ООТ	KADIO (TECHNOLOGI)	AIN/ KNO END COLOR CODE	NDS EIND FIDER LADELS	SECTOR
	1	RED		1	В	RED		AIR 6449 (L41 CPRI 1)	RED 1 + LC Boot Color	ALPHA L41 CPRI1	ALPHA
				2	Α			, ,			
	2	GREEN		1	В	GREEN		AIR 6449 (L41 CPRI 2)	RED 1 + LC Boot Color	ALPHA L41 CPRI2	ALPHA
				2	A			, ,			
	3	BLUE		1	В	BLUE		AIR 6449 (N41 CPRI 3)	RED 1 + LC Boot Color	ALPHA N41 CPRI3	ALPHA
				2	A						
	4	YELLOW		2	B A	YELLOW		AIR 6449 (N41 CPRI 4)	RED 1 + LC Boot Color	ALPHA N41 CPRI4	ALPHA
	_			1	В				Name of the second		
	5	WHITE		2	Α	WHITE		AIR 6449 (L41 CPRI 1)	YELLOW 1 + LC Boot Color	BETA L41 CPRI1	BETA
4		DI A CI/		1	В	DI ACK		AID (440 (144 CDD) 2)	VELLOW 1 . LC Doob Color	DETA LAA CDDIO	DETA
	6	BLACK		2	Α	BLACK		AIR 6449 (L41 CPRI 2)	YELLOW 1 + LC Boot Color	BETA L41 CPRI2	BETA
ED	7	RED	WHITE	1	В	RED	WHITE	AIR 6449 (N41 CPRI 3)	YELLOW 1 + LC Boot Color	BETA N41 CPRI3	BETA
\simeq	,	ILLD	VVIIII	2	Α	IVED	VVIIII L	AIN 0443 (N41 CI NI 3)	TELEGAN I TEC BOOK COIOI	DETAIN TELLING	DEIX
	8	GREEN	WHITE	1	В	GREEN	WHITE	AIR 6449 (N41 CPRI 4)	YELLOW 1 + LC Boot Color	BETA N41 CPRI4	BETA
				2	A			,			
	9	BLUE	WHITE	2	B A	BLUE	WHITE	AIR 6449 (L41 CPRI 1)	BLUE 1 + LC Boot Color	GAMMA L41 CPRI1	GAMMA
				1	В						
	10	YELLOW	WHITE	2	A	YELLOW	WHITE	AIR 6449 (L41 CPRI 2)	BLUE 1 + LC Boot Color	GAMMA L41 CPRI2	GAMMA
	11	WHITE	WHITE	1	В	WHITE	WHITE	AID 6440 (N41 CDDI 2)	BLUE 1 + LC Boot Color	CANANA NA1 CDDI2	GAMMA
	11	VVIIIE	VVHIIE	2	А	VVHILE	WHILE	AIR 6449 (N41 CPRI 3)	BLUE 1 + LC BOOL COIOF	GAMMA N41 CPRI3	GAIVIIVIA
	12	BLACK	WHITE	1 2	B A	BLACK	WHITE	AIR 6449 (N41 CPRI 4)	BLUE 1 + LC Boot Color	GAMMA N41 CPRI4	GAMMA

	DC Power												
PAIR#	REF HOOKUP	PIN LETTER	AIR/RF	RU END	RADIO (TECHNOLOGY)	SECTOR	SPD LABELS						
1	-48	Α	BLACK	RED	AIR 6449	ALPHA	Alpha L/N41						
Τ.	OV	В	RED	KLD	AII 0443	ALITIA							
2	-48	Α	BLACK	GREEN	AIR 6449	BETA	Beta L/N41						
	OV	В	RED	GILLIN	7111 04-13	DLIA	Deta L/N+1						
3	-48	Α	BLACK	BLUE	AIR 6449	Gamma	Gamma L/N41						
3	OV	В	RED	DLOL	AIN 0443	Gairiilla	Gaillilla L/1141						
4	-48	Α	BLACK	YELLOW									
4	OV	В	RED	TELLOVV									
5	-48	Α	BLACK	WHITE									
	OV	В	RED	VVIIIIE									
6	-48	Α	BLACK	BLACK									
U	OV	В	RED	DLACK									



NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079

T-MOBILE NORTHEAST LLC

324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 22907
ALBEMARLE COUNTY

		REVISIONS						
	5	05/19/23	REVISED	TWD				
NOS I	4	05/16/23	REVISED	ccc				
DESIGN RECORD	3	10/19/22	2C UPDATES	LTA				
N <u>D</u>	2	10/05/22	REVISED	JQG				
DES	1	06/15/22	RFDS	LTA				
	0	12/30/21	FINAL CDs	JQG				
	А	11/29/21	PRELIMINARY CDs	CDE				
	REV	DATE	DESCRIPTION	BY				

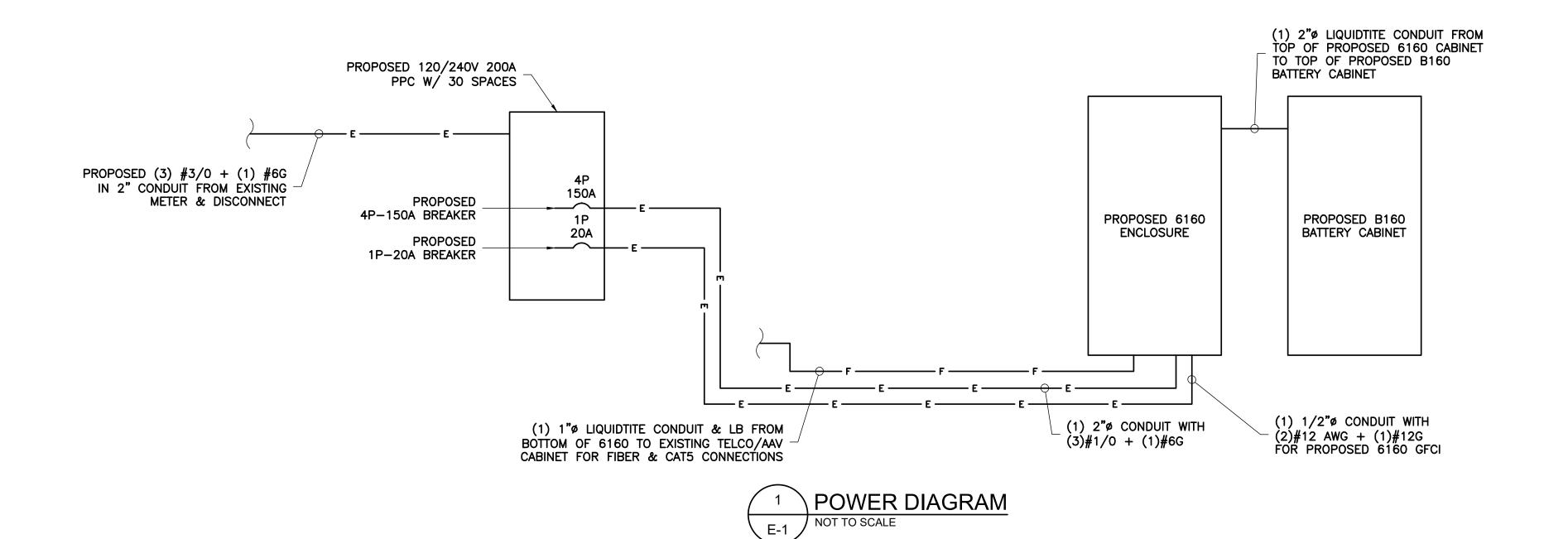
TRENT TRAVIS SNARR Lic. No. 049978 DATE 05/19/23

TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

> HYBRID COLOR CODES

A-8





NOTE:
PANEL SCHEDULE IS SHOWN WITH PROPOSED CIRCUITS ONLY. AFTER CUT OVER, ALL REMAINING ACTIVE CIRCUITS TO BE MIGRATED TO PROPOSED PPC & EXISTING PPC TO BE REMOVED.

							PPC	PANEL	_						
MAIN BREAKER RATING (A): 200				SYSTEM VOLTAGE (V):				240 F		ŀ	PHASE: 1 WIRE: 3 BRANCH CB: 30				
C		WAT	TAGE	E POLE				D PER HASE		B R	POLE -	WATTAGE		CIRCUIT DESCRIPTION	C
T	ONCON BESONII HON	С	NC		R K		А	В		K		NC	С	- CINCOIT DESCRIPTION	
1	TVSS	0	0	2	60		0					0	0		2
3		0	0		2 60			0				0	0		4
5		2248	0				2248					0	0		6
7	*6160	2248 0 2248 0 4 150 2248 0	4	150			2248				0	0		8	
9							0	0		10					
11		2248	0					2248				0	0		12
13	**6160 GFCI	0	180	1	20		180					0	0		14
15		0	0					0				0	0		16
17		0	0				0					0	0		18
19		0	0					0				0	0		20
21		0	0				0					0	0		22
23		0	0					0				0	0		24
25		0	0				0					0	0		26
27	,	0	0					0				0	0		28
29		0	0				0	1.01.00				0	0		30
								LOADS PHASE							
NOTES					4676	4496									
*INSTALL (1) NEW 4P-150A BREAKER FOR PROPOSED 6160 **INSTALL (1) NEW 1P-20A BREAKER FOR PROPOSED 6160 GFCI ***WATTAGE SHOWN FOR PROPOSED EQUIPMENT CABINET(S) ARE BASED ON THE CONNECTED EQUIPMENT PER THE LATEST RFDS					SUBTOTAL CONTINUOUS				125% TOTAL CONTINUOUS (VA)			11240 180			
					8992 SUBTOTAL NON-CONTINUOUS			100% TOTAL NON-CONTINUOUS (VA)							
								TOTAL AMPS				47.58			
					1	80		TOTAL CONNECTED LOAD (KVA)			D (KVA)	11.42			
										SPARE	CAPACITY	(A)	152.42		

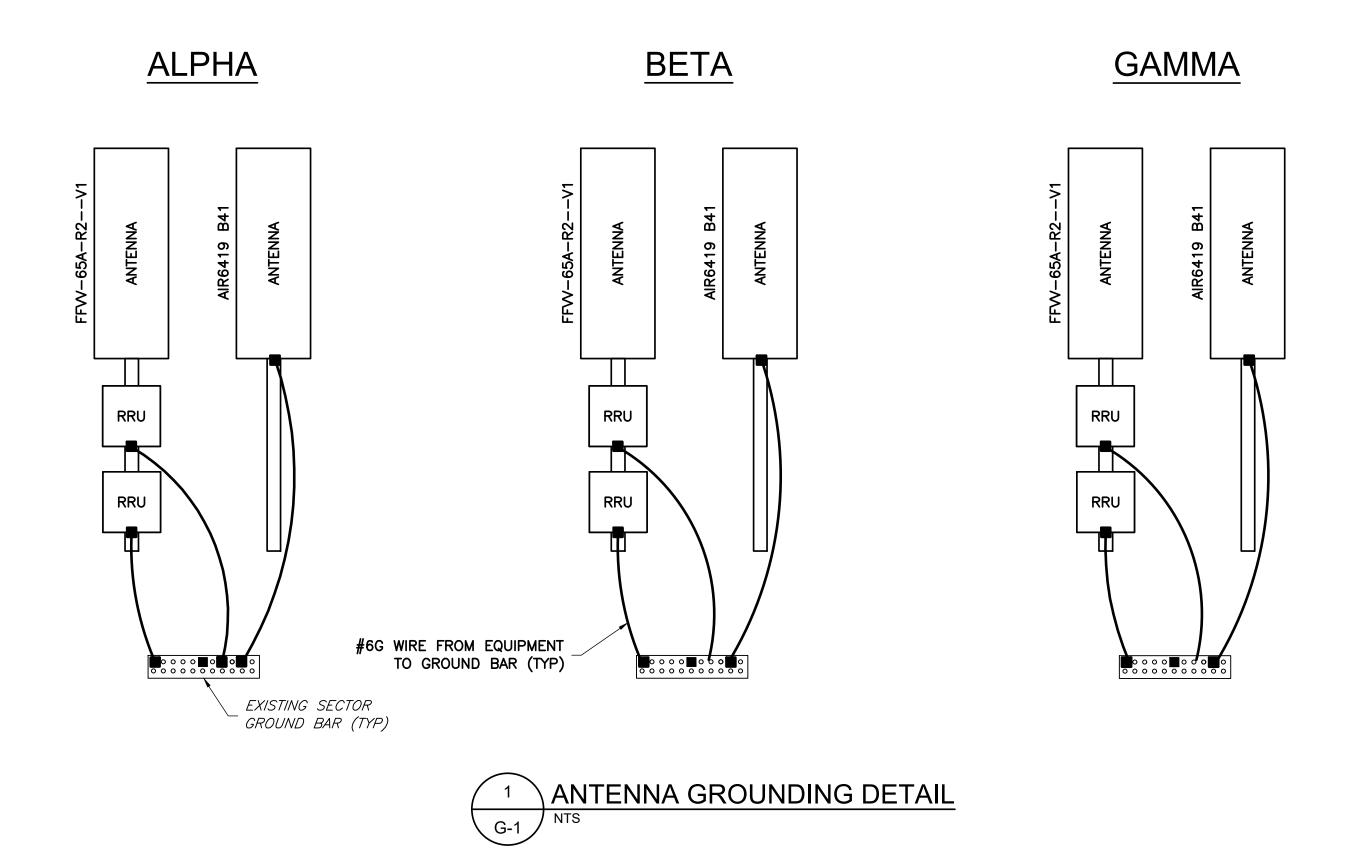


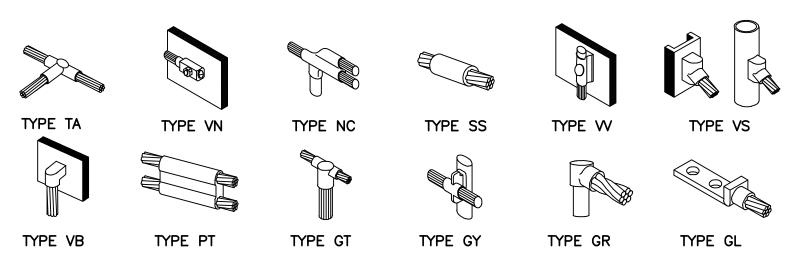
ENGINEER		IB+C ENG 120 EAS	Y COMMITT INEERING SERVICES, L STSHORE DRIVE, SUITE 300 LEN ALLEN, VA 23059 (804) 548-4079							
APPLICANT		T-MOB 324 NO OFFI	MODILE ILE NORTHEAST LLC MADISON MEWS RFOLK, VA 23510 CE: (757) 453-6907 X: (757) 589-0904							
SITE INFORMATION	CH.	VA72471A COMMONWEALTH NB+C PROJECT #100838 345 GREENBRIER DRIVE CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY								
	REVISIONS									
		RI	EVISIONS							
		RI	EVISIONS							
Q	5	05/19/23	EVISIONS	TWD						
CORD	5 4			TWD						
V RECORD	4 3	05/19/23 05/16/23 10/19/22	REVISED REVISED 2C UPDATES	CCC						
ESIGN RECORD	4 3 2	05/19/23 05/16/23 10/19/22 10/05/22	REVISED REVISED 2C UPDATES REVISED	CCC LTA JQG						
DESIGN RECORD	4 3 2	05/19/23 05/16/23 10/19/22 10/05/22 06/15/22	REVISED REVISED 2C UPDATES REVISED RFDS	CCC LTA JQG LTA						
DESIGN RECORD	4 3 2	05/19/23 05/16/23 10/19/22 10/05/22 06/15/22 12/30/21	REVISED REVISED 2C UPDATES REVISED RFDS FINAL CDs	CCC LTA JQG LTA JQG						
DESIGN RECORD	4 3 2 1	05/19/23 05/16/23 10/19/22 10/05/22 06/15/22 12/30/21 11/29/21	REVISED REVISED 2C UPDATES REVISED RFDS	CCC LTA JQG LTA						
-STAMP	4 3 2 1 0 A	05/19/23 05/16/23 10/19/22 10/05/22 06/15/22 12/30/21 11/29/21	REVISED REVISED 2C UPDATES REVISED RFDS FINAL CDS PRELIMINARY CDS DESCRIPTION	CCC LTA JQG LTA JQG CDE						
	4 3 2 1 0 A	05/19/23 05/16/23 10/19/22 10/05/22 12/30/21 11/29/21 DATE	REVISED REVISED 2C UPDATES REVISED RFDS FINAL CDS PRELIMINARY CDS DESCRIPTION	CCC LTA JQG LTA JQG CDE						

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ı	TRENT T. SNARR, P.E.
	VA PROFESSIONAL ENGINEER LIC. #49978

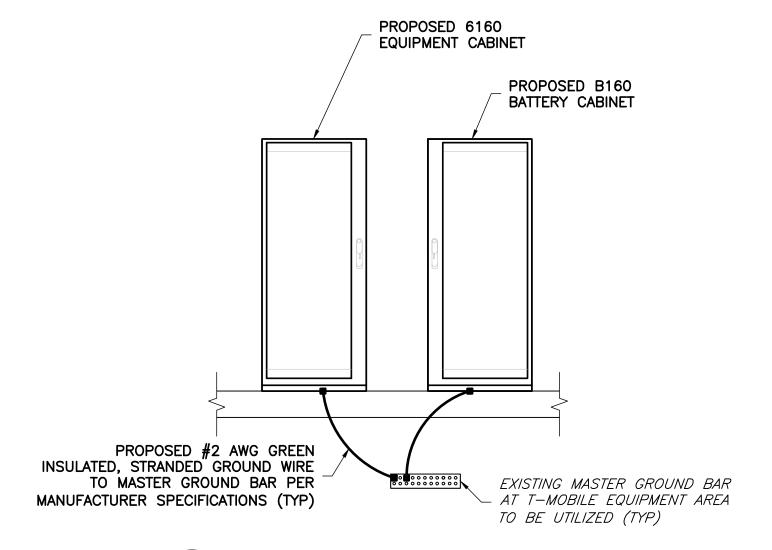
SHEET TITLE	ELECTRICAL
SHEEL	DETAILS

		1









3 CABINET GROUNDING DIAGRAM
NOT TO SCALE

GROUNDING LEGEND

MECHANICAL COMPRESSION CONNECTION
 △ CADWELD CONNECTION
 ● EXOTHERMIC WELD CONNECTION
 → PROPOSED GROUND WIRING

PROPOSED GROUND WIRING

----- EXISTING GROUND WIRING

TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978

GROUNDING DETAILS

G-1

NB+C ENGINEERING SERVICES, LLC.

120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079

T-MOBILE NORTHEAST LLC

324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904

VA72471A

COMMONWEALTH

NB+C PROJECT #100838

345 GREENBRIER DRIVE

CHARLOTTESVILLE, VA 2290

ALBEMARLE COUNTY

REVISIONS

REVISED

REVISED

2C UPDATES

REVISED

RFDS

FINAL CDs

PRELIMINARY CDs

DESCRIPTION

LTA

JQG

LTA

JQG

5 05/19/23

3 10/19/22

2 10/05/22

1 06/15/22

0 12/30/21

REV DATE

11/29/21