

NOTE TO GENERAL CONTRACTOR:
NO WORK IS TO BE PERFORMED ON THIS SITE WITHOUT REVIEW OF THE APPROVED STRUCTURAL ANALYSIS. IF ANY DISCREPANCIES ARE FOUND, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. AT NO TIME WILL ANY ADDITIONAL ANTENNAS BE INSTALLED WITHOUT WRITTEN CONSENT FROM TOWER/BUILDING ENGINEER.



NB+C

TOTALLY COMMITTED.

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

ENGINEER

APPLICANT

T-Mobile

T-MOBILE NORTHEAST LLC

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

SITE INFORMATION

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

DESIGN RECORD

REVISIONS			
5	05/19/23	REVISED	TWD
4	05/16/23	REVISED	CCC
3	10/19/22	2C UPDATES	LTA
2	10/05/22	REVISED	JQG
1	06/15/22	RFDS	LTA
0	12/30/21	FINAL CDs	JQG
A	11/29/21	PRELIMINARY CDs	CDE
REV	DATE	DESCRIPTION	BY

PROFESSIONAL STAMP



ENGINEER

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

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

SHENTEL SITE ID: 68376/WA68SH376
SHENTEL SITE NAME: COMMONWEALTH

345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

TOWER OWNER:
WILLIAMS PIPELINE SERVICES COMPANY
SITE NUMBER: N/A
SITE NAME: N/A

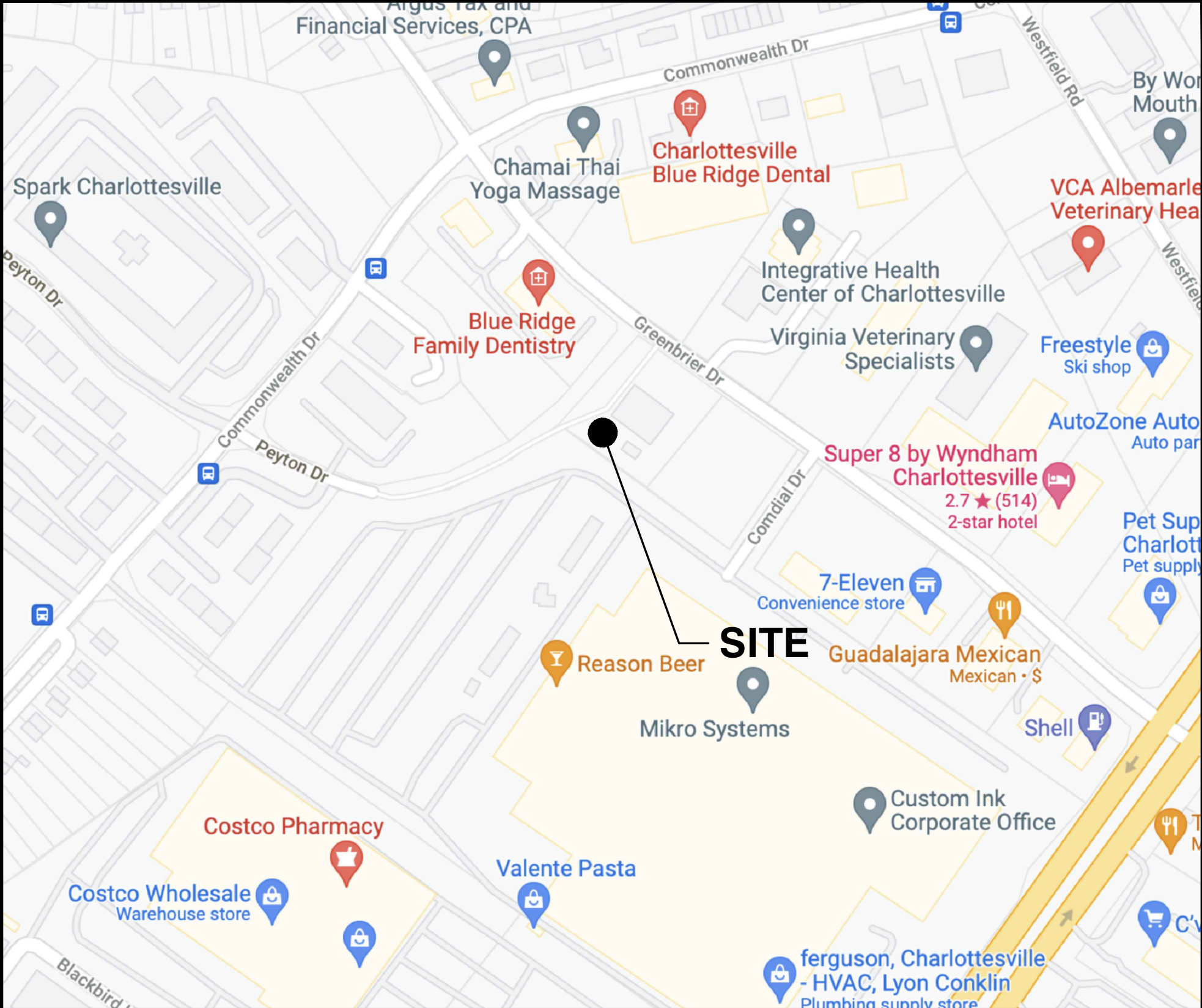
SCOPE OF WORK

- TOWER:
- REMOVAL OF (3) EXISTING SHENTEL ANTENNAS
 - REMOVAL OF (7) EXISTING SHENTEL RRUS
 - REMOVAL OF (3) EXISTING SECTOR PIPE MOUNTS
 - REMOVAL OF EXISTING SHENTEL COAX/FEEDLINES
 - INSTALLATION OF (6) SITE PRO 1 CWT01-LL ANTENNA MOUNTS
 - INSTALLATION OF (6) 2"Ø SCH 40 PIPE (2-3/8" O.D.) X 8' LONG MOUNTING PIPE
 - INSTALLATION OF (3) NEW T-MOBILE COMMScope - FFV-65A-R2-V1 ANTENNAS @ POSITION 1
 - INSTALLATION OF (3) NEW T-MOBILE ERICSSON - AIR 6419 B41 ANTENNAS @ POSITION 2
 - INSTALLATION OF (3) NEW T-MOBILE ERICSSON 4480 B71+B85 RRUs
 - INSTALLATION OF (3) NEW T-MOBILE ERICSSON 4460 B25+B66 RRUs
 - INSTALLATION OF (4) NEW T-MOBILE 6x24 HYBRID CABLES
 - ALL PROPOSED EQUIPMENT TO BE PAINTED TO MATCH TOWER- COLOR IS SHERWIN WILLIAMS SW7664 STEEL GRAY
- GROUND:
- REMOVAL OF EXISTING SHENTEL EQUIPMENT CABINETS
 - REMOVAL OF EXISTING SHENTEL FIBER DISTRIBUTION BOX
 - INSTALLATION OF (1) NEW T-MOBILE ERICSSON 6160 ENCLOSURE & (1) NEW ERICSSON B160 BATTERY CABINET
 - INSTALLATION OF (2) NEW RP 6651 INSIDE NEW ENCLOSURE
 - INSTALLATION OF (1) IXRE ROUTER & (2) PSU 4813 INSIDE NEW ENCLOSURE
 - REMOVAL OF (1) EXISTING SHENTEL 120/240V 200A 12 SPACE PPC
 - INSTALLATION OF (1) NEW T-MOBILE 120/240V 200A 30 SPACE VERTIV PPC

SITE INFORMATION

LATITUDE (NAD 83):	38.07167636°
LONGITUDE (NAD 83):	-78.48807418°
JURISDICTION:	ALBEMARLE COUNTY
ZONING DESIGNATION:	C1 COMMERCIAL
GROUND ELEVATION:	501.72± (AMSL)
PARCEL NUMBER:	061W0-03-00-00700
PARCEL AREA:	0.65± ACRES
PARCEL OWNER:	TRANS CONTINENTAL GAS CORP 2800 OLD POST OAK BLVD. HOUSTON, TX 77056
STRUCTURE TYPE:	SELF-SUPPORT TOWER
STRUCTURE HEIGHT:	100'-0" (AGL)
CONSTRUCTION TYPE:	IIB
USE GROUP:	U

VICINITY MAP



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.

- 2018 BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 NFPA 101, LIFE SAFETY CODE
- 2018 INTERNATIONAL FIRE CODE (IFC)
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 15TH EDITION
- ANSI/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELCORDIA GR-1275
- ANSI/T 311
- 2018 VIRGINIA CONSTRUCTION CODE

DRAWING INDEX

T-1	TITLE SHEET
GN-1	GENERAL NOTES
Z-1	SITE PLAN
C-1	COMPOUND PLAN
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A-2	ANTENNA SCHEDULE
A-3	ANTENNA SPECIFICATIONS & DETAILS
A-4	EQUIPMENT SPECIFICATIONS & DETAILS
A-5	ANTENNA MOUNT DETAILS
A-6	CABLING DETAILS & RF PLUMBING DIAGRAM
A-7	HYBRID COLOR CODES
A-8	HYBRID COLOR CODES
E-1	ELECTRICAL DETAILS
G-1	GROUNDING DETAILS

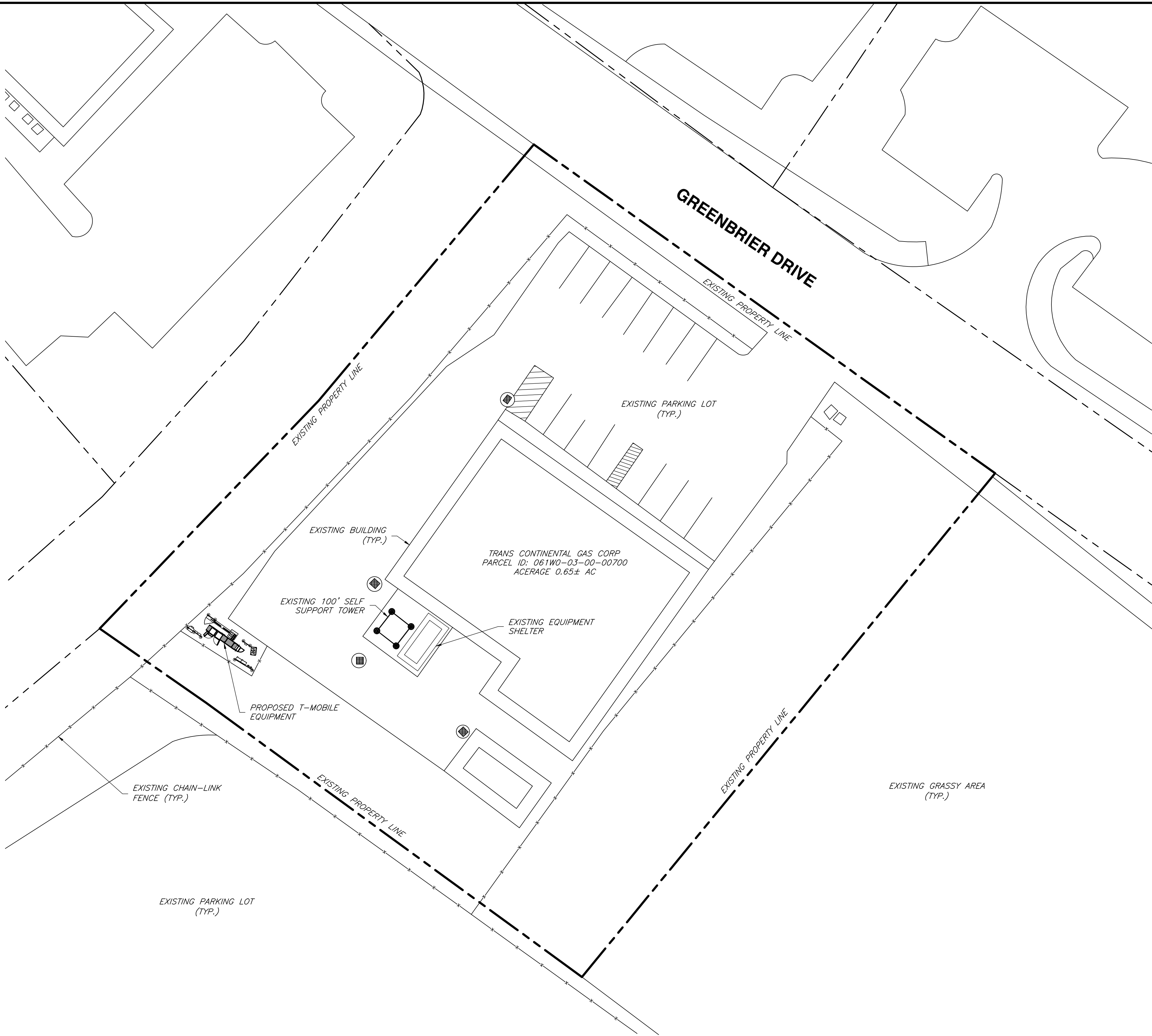
DO NOT SCALE DRAWINGS

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 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.

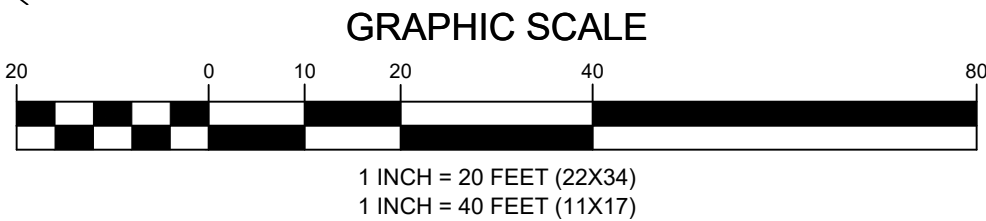
PROJECT TEAM

APPLICANT:	T-MOBILE NORTHEAST LLC 324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904
PROJECT MANAGEMENT FIRM:	NETWORK BUILDING + CONSULTING, LLC. 120 EASTSHORE DRIVE, SUITE 300 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

ELECTRICAL & GROUNDING NOTES	GENERAL NOTES	STRUCTURAL NOTES	ENGINEER	<div><div><div>NB+C</div><div>TOTALLY COMMITTED.</div><div>NB+C ENGINEERING SERVICES, LLC.<div>120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079</div></div></div></div>																																				
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			DESIGN RECORD	<div><div>REVISIONS</div><table><tr><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td>05/19/23</td><td>REVISED</td><td>TWD</td></tr><tr><td>4</td><td>05/16/23</td><td>REVISED</td><td>CCC</td></tr><tr><td>3</td><td>10/19/22</td><td>2C UPDATES</td><td>LTA</td></tr><tr><td>2</td><td>10/05/22</td><td>REVISED</td><td>JQG</td></tr><tr><td>1</td><td>06/15/22</td><td>RFDS</td><td>LTA</td></tr><tr><td>0</td><td>12/30/21</td><td>FINAL CDs</td><td>JQG</td></tr><tr><td>A</td><td>11/29/21</td><td>PRELIMINARY CDs</td><td>CDE</td></tr><tr><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td></tr></table></div>					5	05/19/23	REVISED	TWD	4	05/16/23	REVISED	CCC	3	10/19/22	2C UPDATES	LTA	2	10/05/22	REVISED	JQG	1	06/15/22	RFDS	LTA	0	12/30/21	FINAL CDs	JQG	A	11/29/21	PRELIMINARY CDs	CDE	REV	DATE	DESCRIPTION	BY
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PROFESSIONAL STAMP	<div><div><div><div><div></div><div>COMMONWEALTH OF VIRGINIA</div><div>TRENT T. SNARR</div><div>Lic. No. 049978</div><div>DATE 05/19/23</div><div>PROFESSIONAL ENGINEER</div></div></div></div></div>																																							
ENGINEER	<div><div>TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978</div></div>																																							
SHEET TITLE	<div><div>GENERAL NOTES</div></div>																																							
SHEET NUMBER	<div><div>GN-1</div></div>																																							



1 SITE PLAN
SCALE: 1" = 20' (22X34)
SCALE: 1" = 40' (11X17)



ZONING INFORMATION

JURISDICTION: ALBEMARLE COUNTY

ZONING: C-1 COMMERCIAL

DIMENSION	EXISTING ±	PROPOSED ±
FRONT YARD SETBACK:	174.10±	-
SIDE YARD SETBACK:	77.11±	-
REAR YARD SETBACK:	62.9±	-

LOT AREA: .65± AC

(ALL MEASUREMENTS ARE IN FEET ± UNLESS OTHERWISE NOTED)

NOTES:

LEGEND

	PROPERTY LINE - SUBJECT PARCEL
	PROPERTY LINE - ABUTTERS
	EXISTING ROAD
	EXISTING FENCE
	EXISTING EASEMENT
	EXISTING LEASE AREA
	EXISTING OVERHEAD UTILITIES

GENERAL NOTES

- THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION. THERE IS NO HANDICAP ACCESS REQUIRED.
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.

ENGINEER

APPLICANT

SITE INFORMATION

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ENGINEER

SHEET TITLE

SHEET NUMBER

NB+C
TOTALLY COMMITTED.

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

T-Mobile

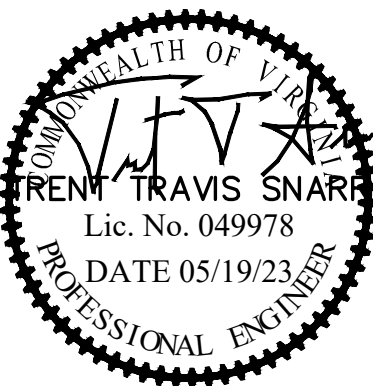
T-MOBILE NORTHEAST LLC

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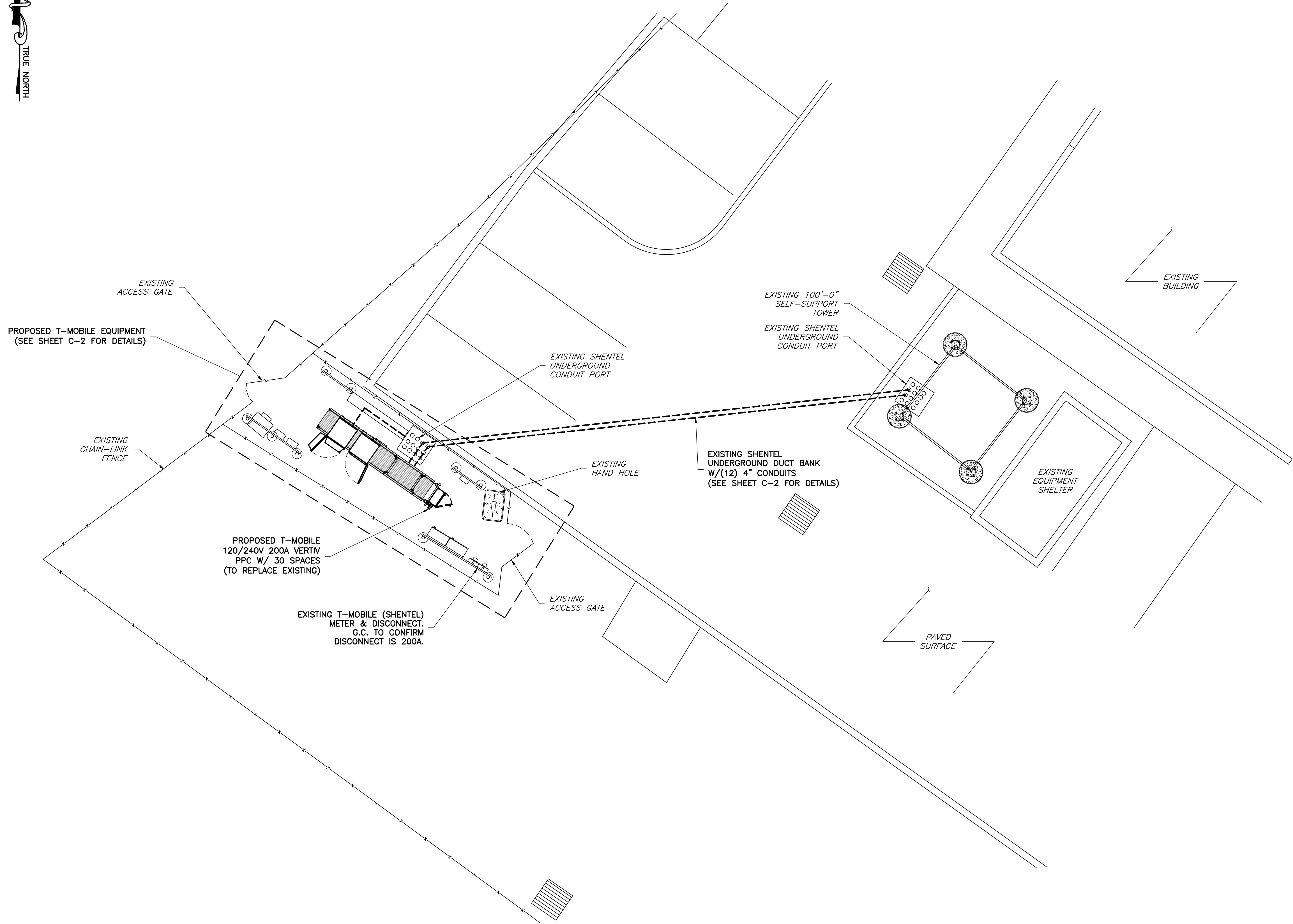
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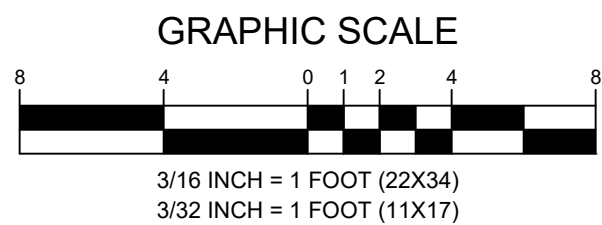
**SITE
PLAN**

Z-1



1
C-1

COMPOUND PLAN
SCALE: 3/16" = 1' (22X34)
SCALE: 3/32" = 1' (11X17)



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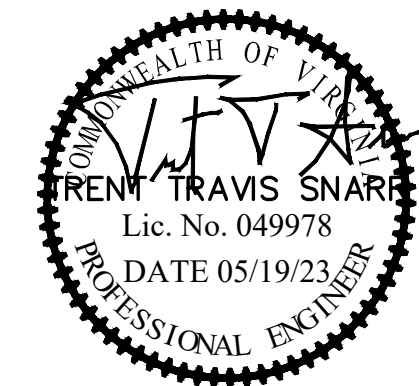
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PROFESSIONAL STAMP



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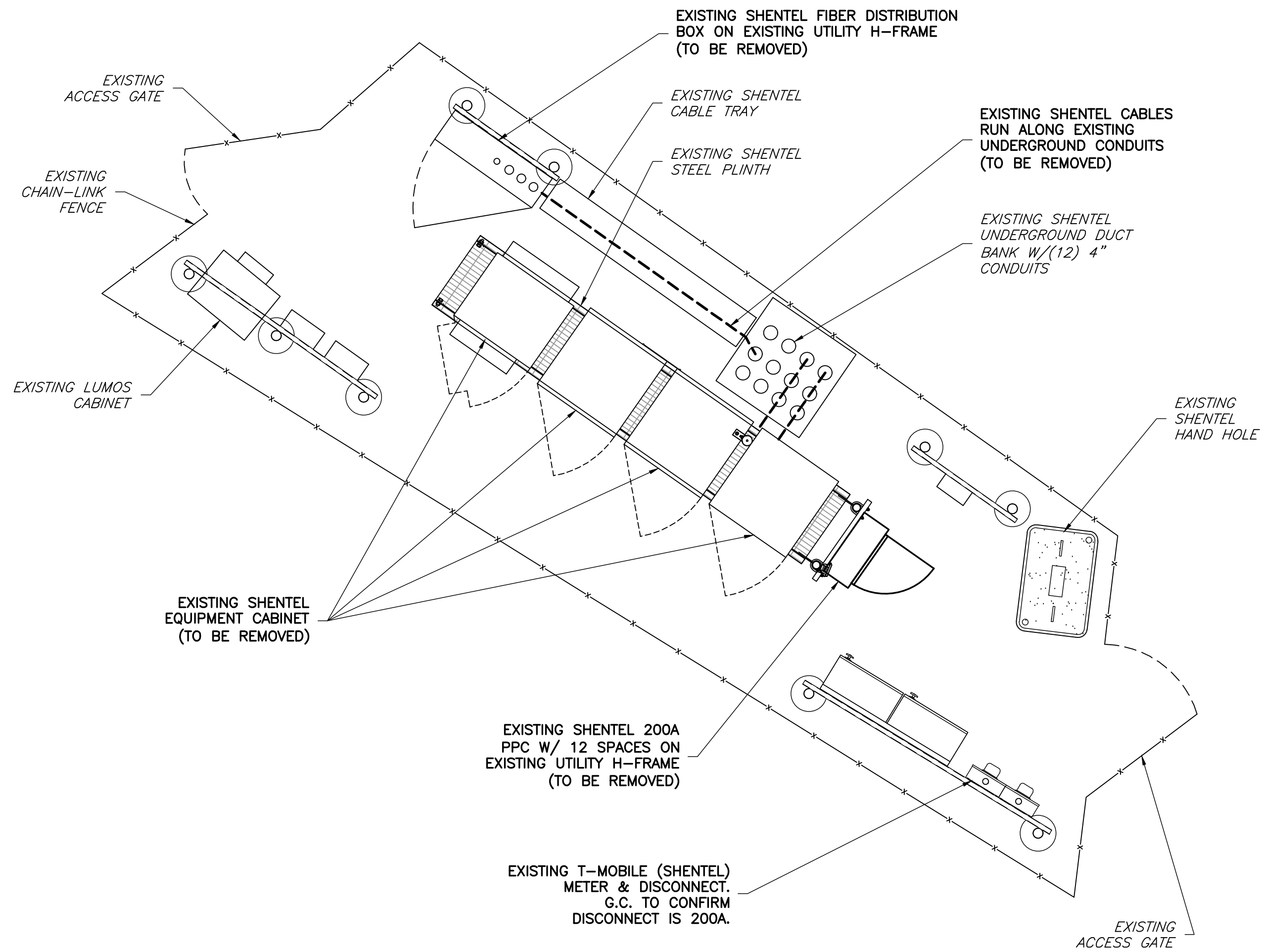
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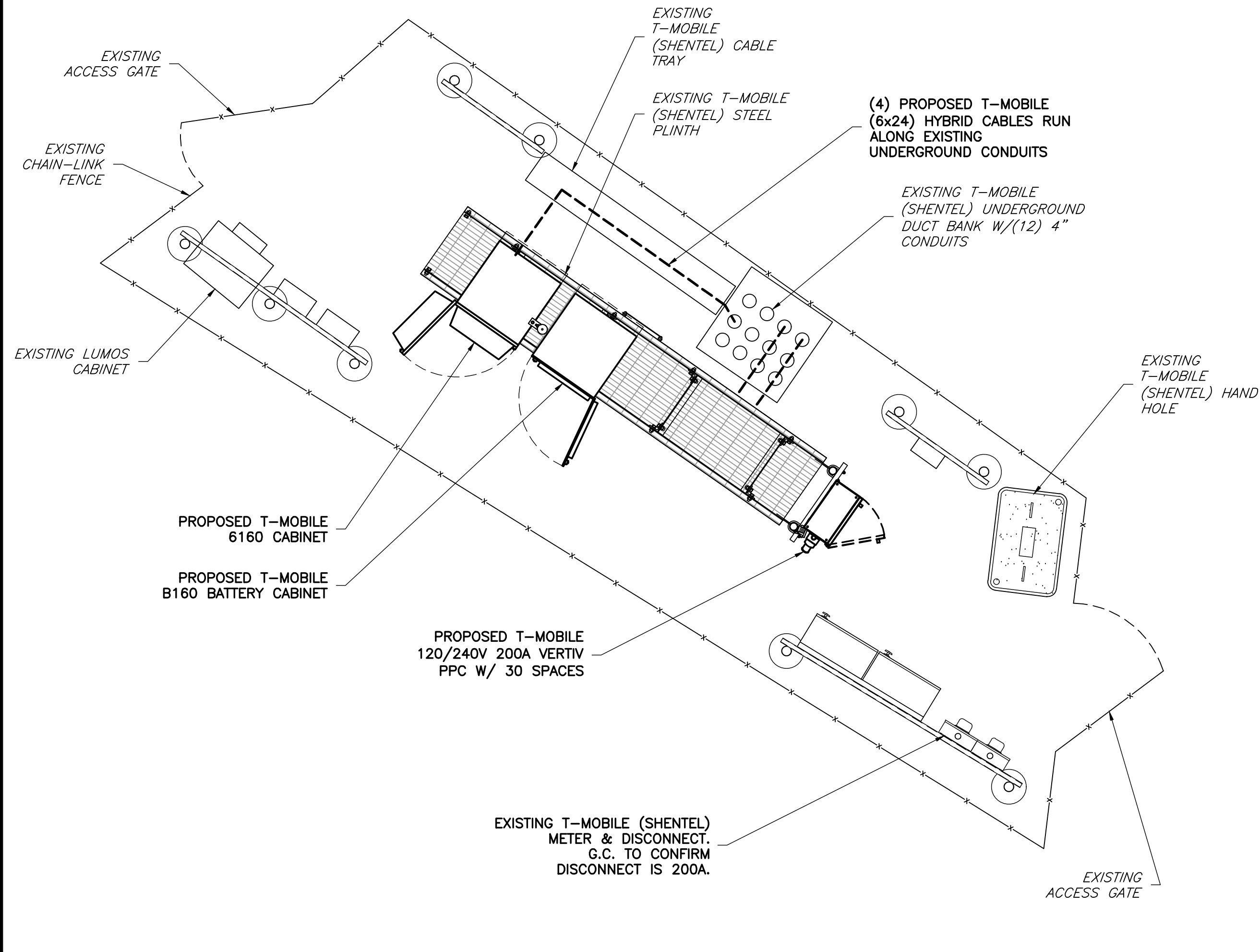
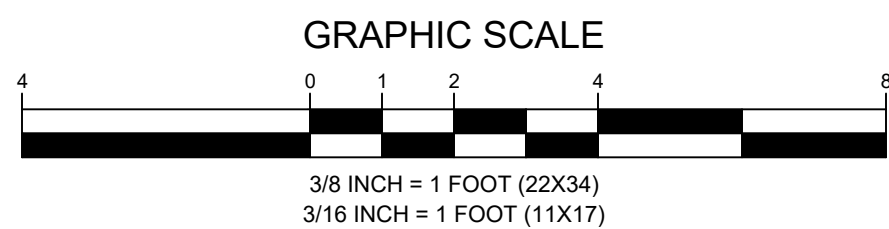
**COMPOUND
PLAN**

SHEET NUMBER

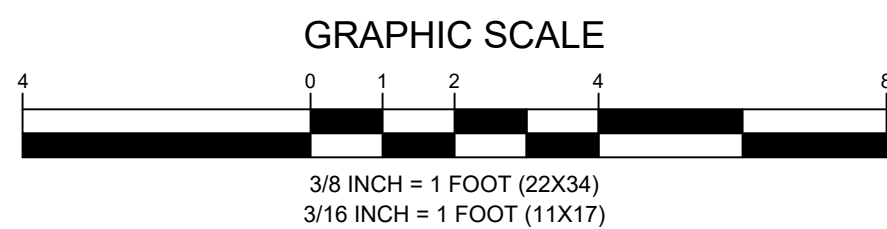
C-1



1
C-2
EXISTING EQUIPMENT PLAN
SCALE: 3/8" = 1' (22X34)
SCALE: 3/16" = 1' (11X17)



2
C-2
PROPOSED EQUIPMENT PLAN
SCALE: 3/8" = 1' (22X34)
SCALE: 3/16" = 1' (11X17)



- NOTES:
1. FINAL LOCATION OF PROPOSED EQUIPMENT CABINETS TO BE DETERMINED IN THE FIELD BY THE G.C.
 2. EXISTING 12 SPACE PPC DOES NOT HAVE ADEQUATE SPACE. AFTER CUT OVER, ALL REMAINING ACTIVE CIRCUITS TO BE MIGRATED TO PROPOSED PPC & EXISTING PPC TO BE REMOVED.

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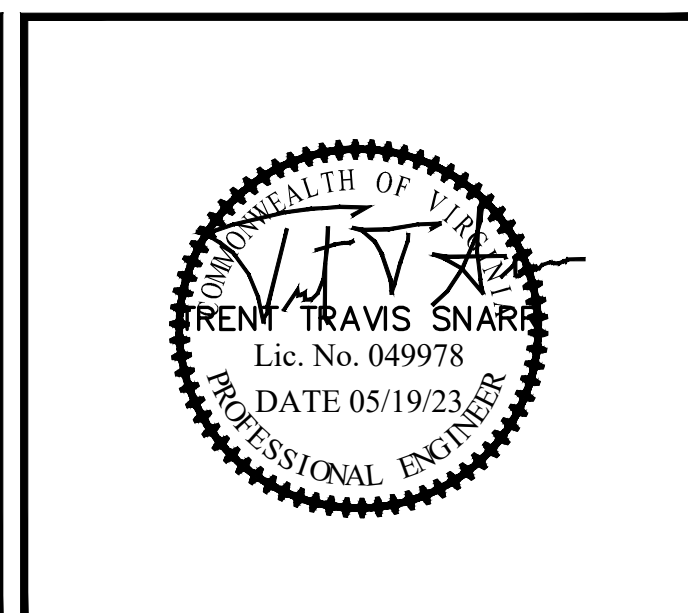
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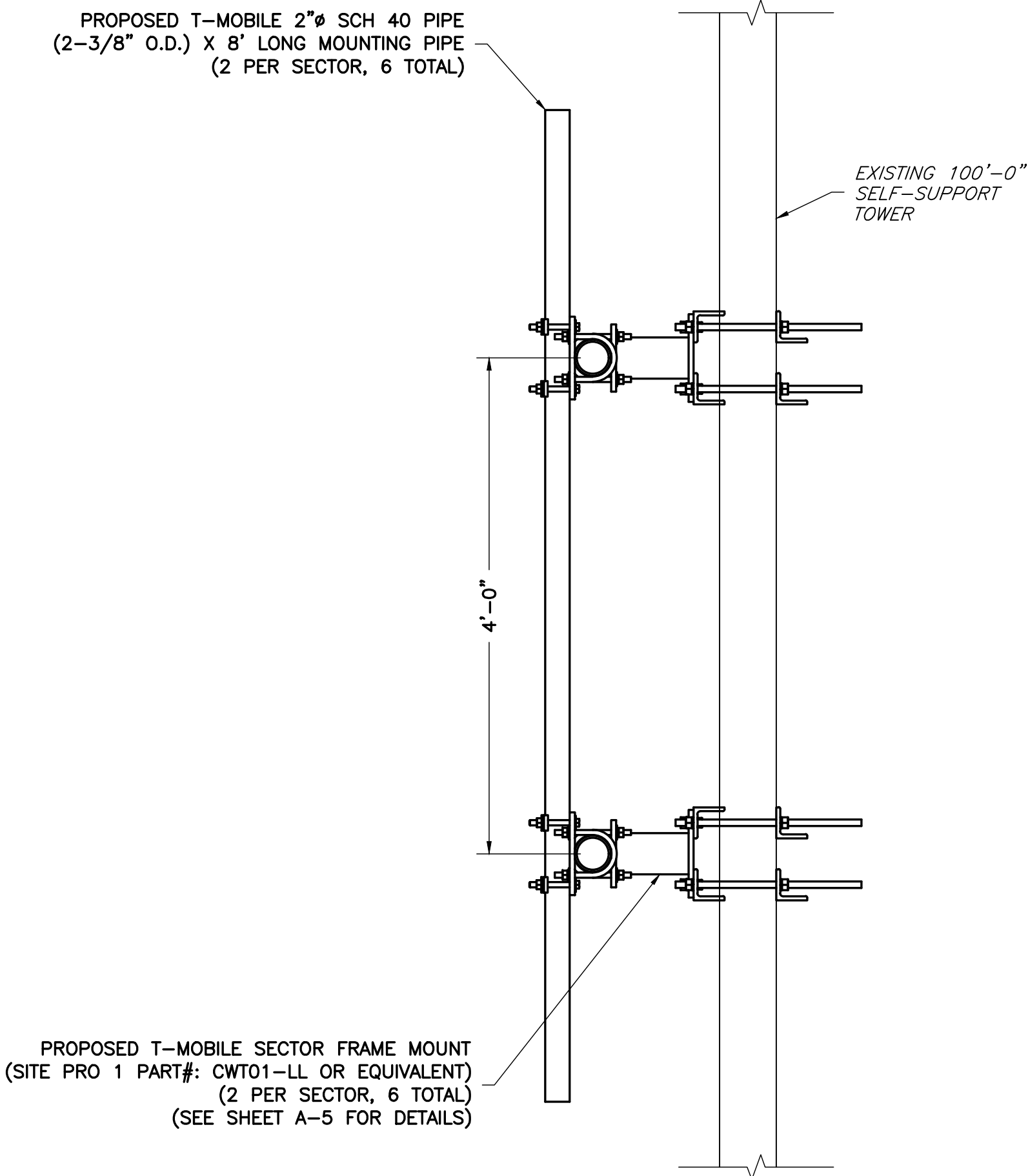
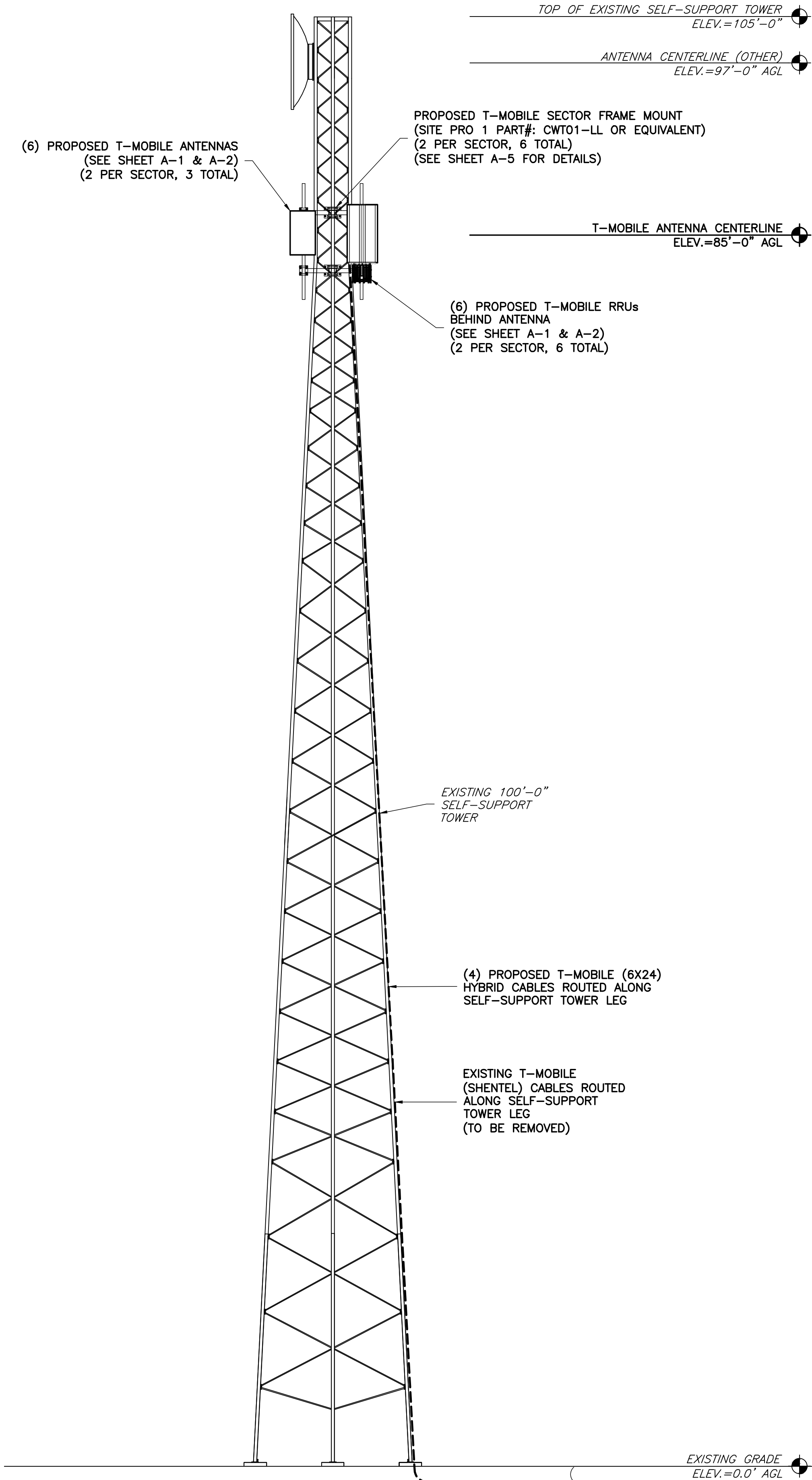
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**EQUIPMENT
PLANS**

C-2

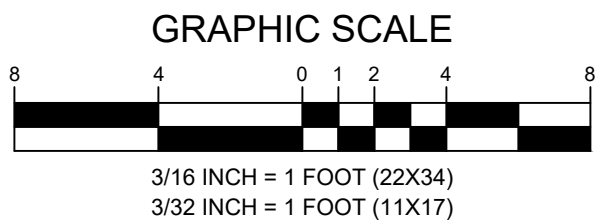
GENERAL ANTENNA NOTES

1. ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR IS TO COORDINATE AND VERIFY THE PROPOSED DOWNTILTS WITH SPRINT MANAGER PRIOR TO CONSTRUCTION.
2. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'. (EXISTING GRADE)
3. CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.
4. CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
5. ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
6. COLOR TAPE MARKINGS MUST BE 3/4" WIDE AND UV RESISTANT, SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE.
7. CONTRACTOR SHALL COORDINATE COLOR CODINGS IN THE FIELD WITH SPRINT REPRESENTATIVE.

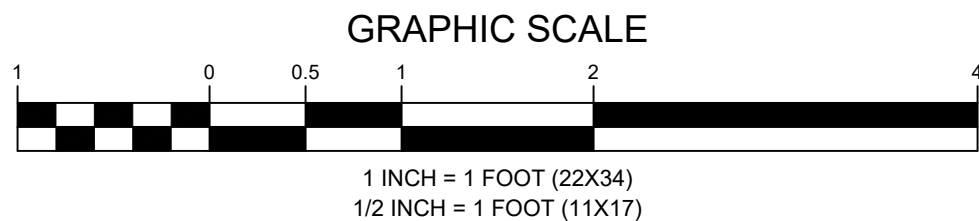


Know what's below.
Call before you dig.

1 ELEVATION
SCALE: 3/16" = 1' (22X34)
SCALE: 3/32" = 1' (11X17)



2 MOUNT ELEVATION
SCALE: 1" = 1' (22X34)
SCALE: 1/2" = 1' (11X17)



ENGINEER



APPLICANT



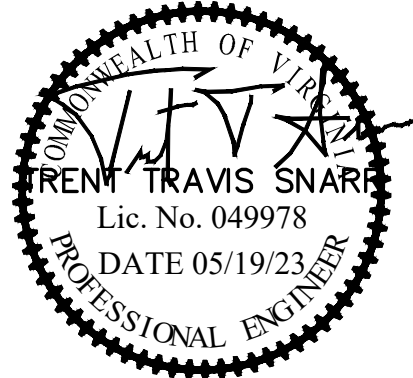
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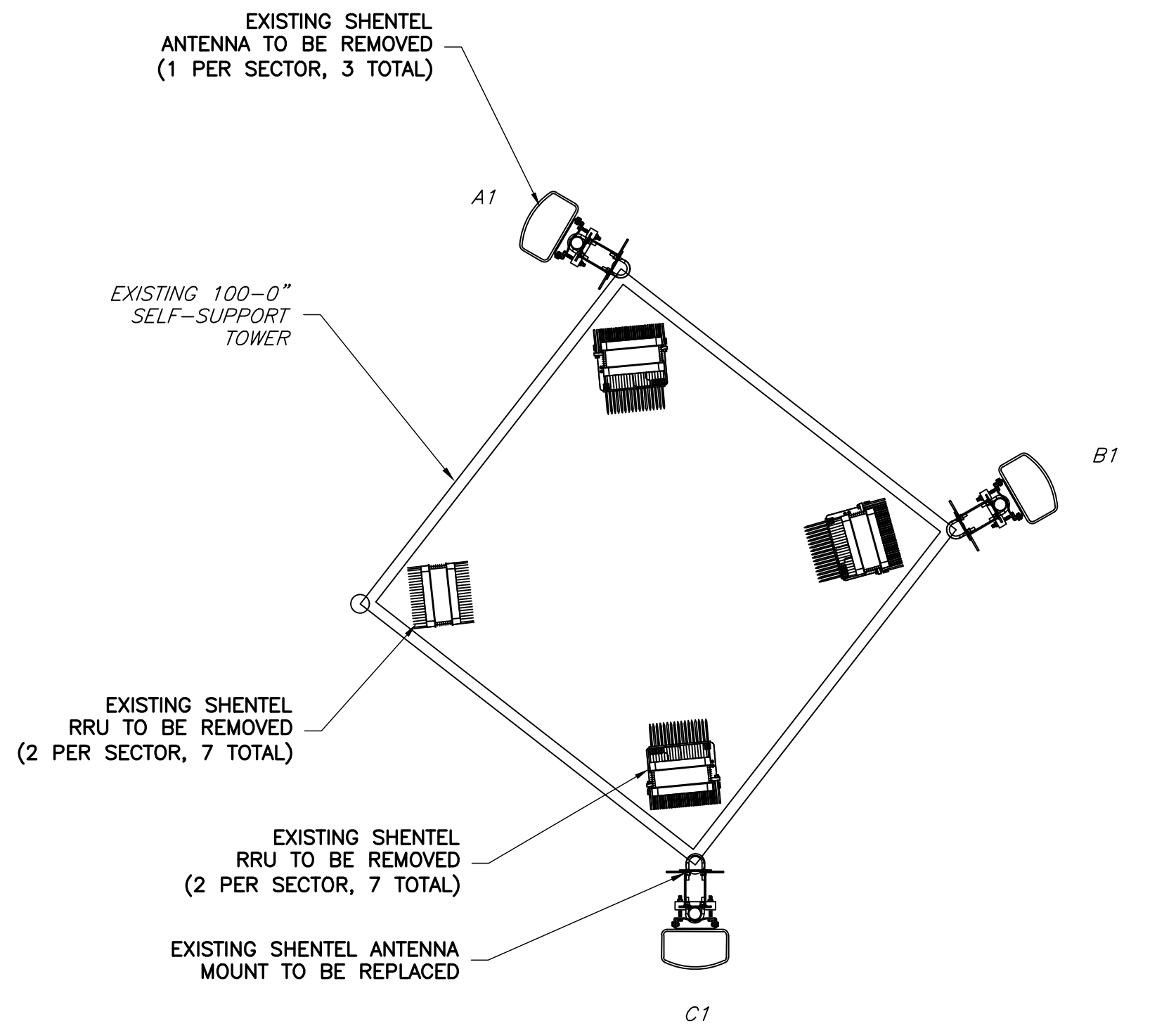
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SHEET TITLE

ELEVATION

SHEET NUMBER

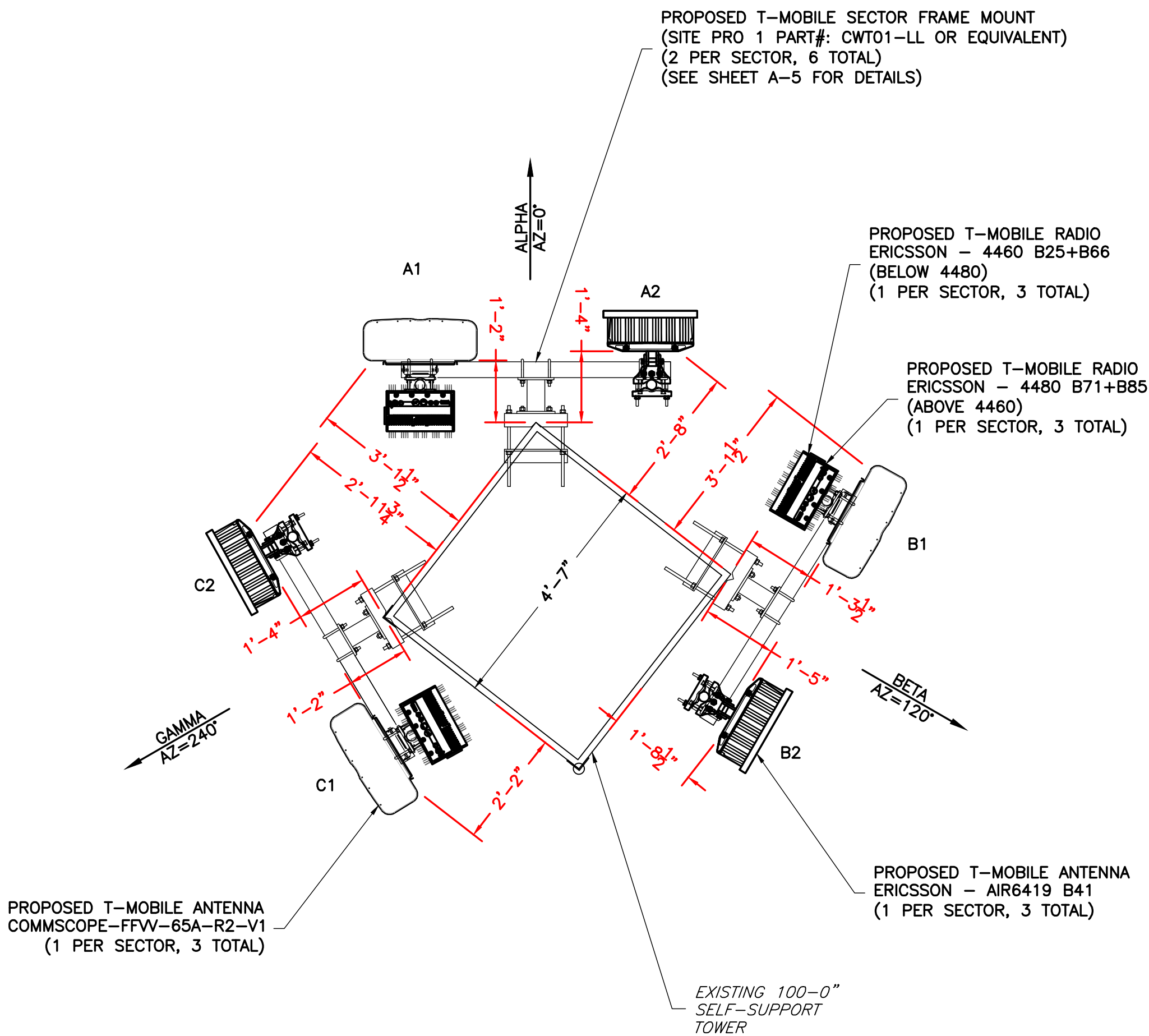
C-3



1
A-1
EXISTING ANTENNA ORIENTATION PLAN
NOT TO SCALE

APPROX
TRUE NORTH

ALL EXISTING SHENTEL ANTENNAS, RADIOS, TMA'S, DIPLEXERS,
AND CABLES WILL BE REMOVED FROM THE SITE.
(MICROWAVE EQUIPMENT IS EXCLUDED FROM THIS REQUIREMENT)



2
A-1
PROPOSED ANTENNA ORIENTATION PLAN
NOT TO SCALE

APPROX
TRUE NORTH

ENGINEER

APPLICANT

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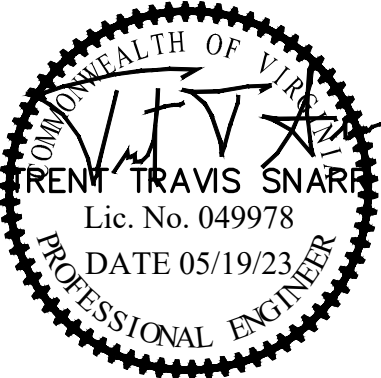
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**ANTENNA
ORIENTATION
PLANS**

A-1

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	FFW-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 (SHARED WITH ALL SECTORS)	170.00'
A2	PROPOSED	ERICSSON	AIR6419 B41	34.50"x20.00"x8.00"	85.00'	0°	4°/4°	0°	-	-		
B1	PROPOSED	COMMScope	FFW-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	-	(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	FFW-65A-R2-V1	48.19"x25.20"x9.25"	85.00'	240°	6°/6°/4°/4°	0°	(1) PROPOSED 4480 B71+B85 (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.

1

A-2

ANTENNA CONFIGURATION SCHEDULE

NOT TO SCALE

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER

NB+C[™]
TOTALLY COMMITTED.

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

T-Mobile
T-MOBILE NORTHEAST LLC

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

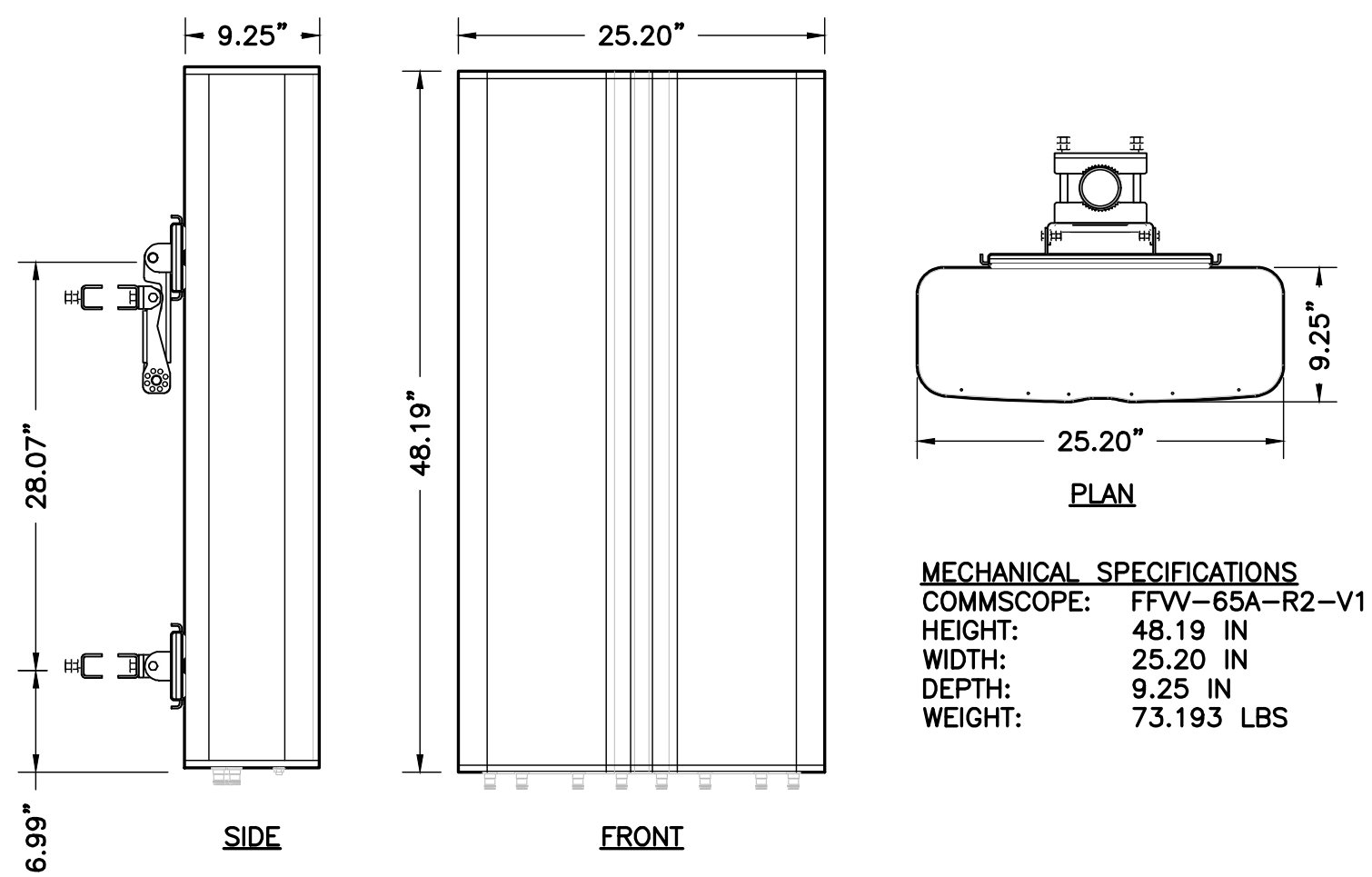
VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

REVISIONS			
5	05/19/23	REVISED	TWD
4	05/16/23	REVISED	CCC
3	10/19/22	2C UPDATES	LTA
2	10/05/22	REVISED	JQG
1	06/15/22	RFDS	LTA
0	12/30/21	FINAL CDS	JQG
A	11/29/21	PRELIMINARY CDS	CDE
REV	DATE	DESCRIPTION	BY

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

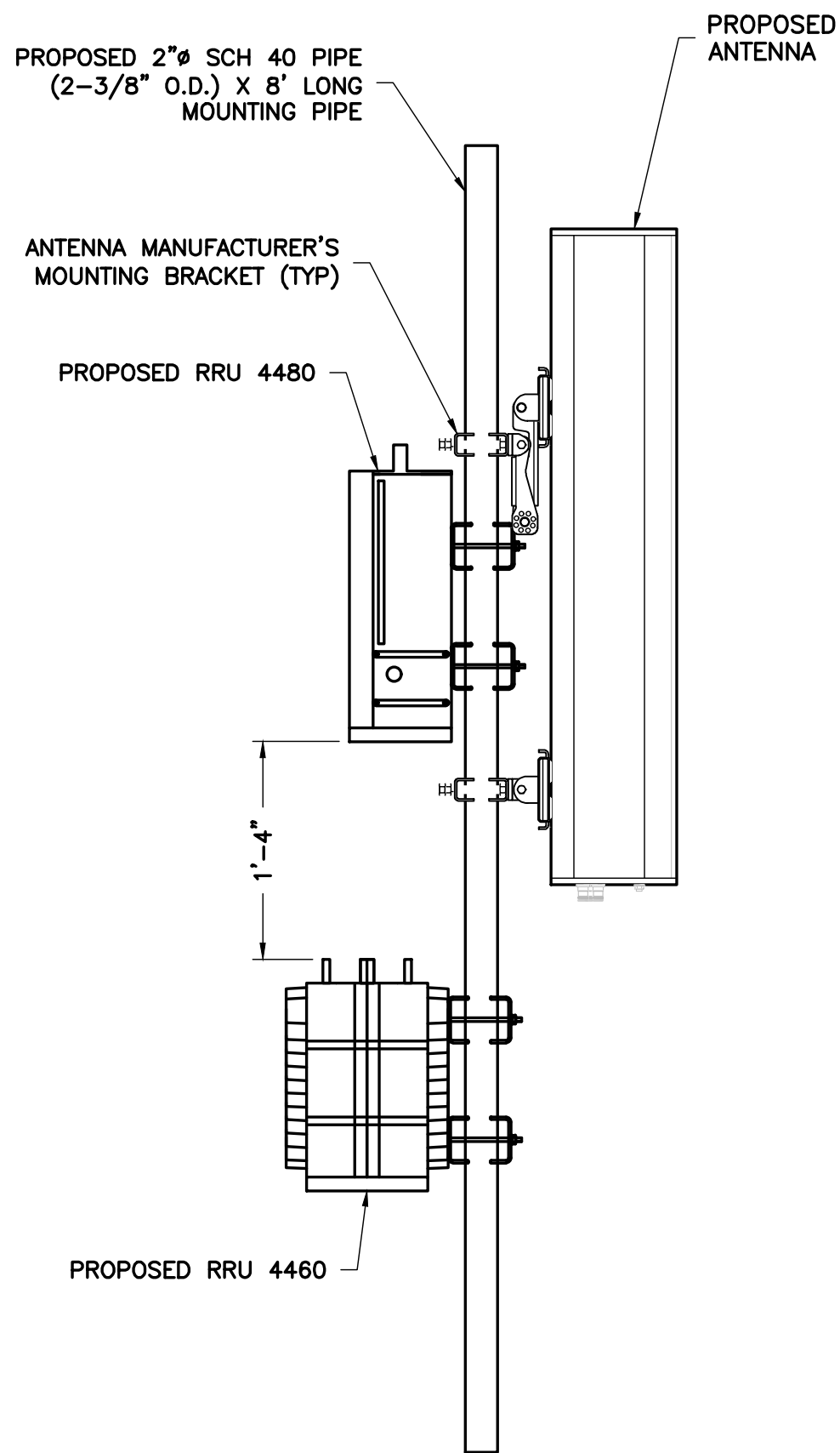
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A-2



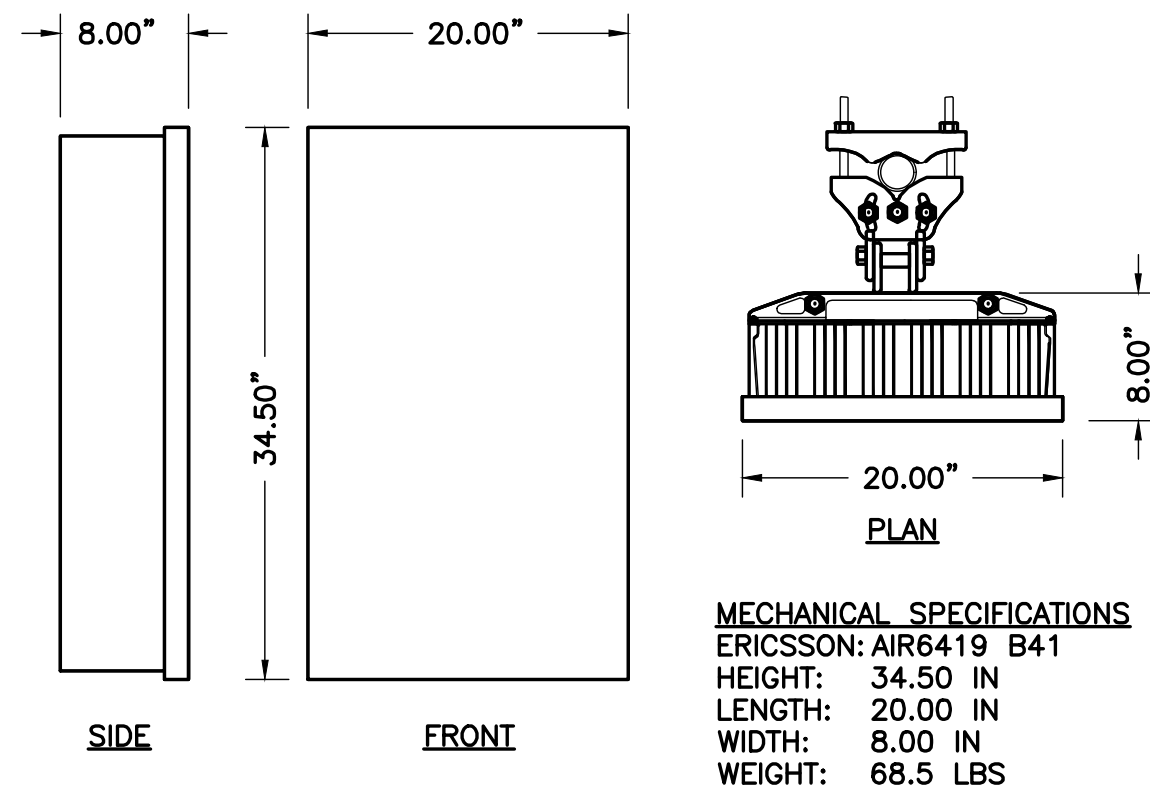
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COMMSCOPE PANEL ANTENNA
NOT TO SCALE



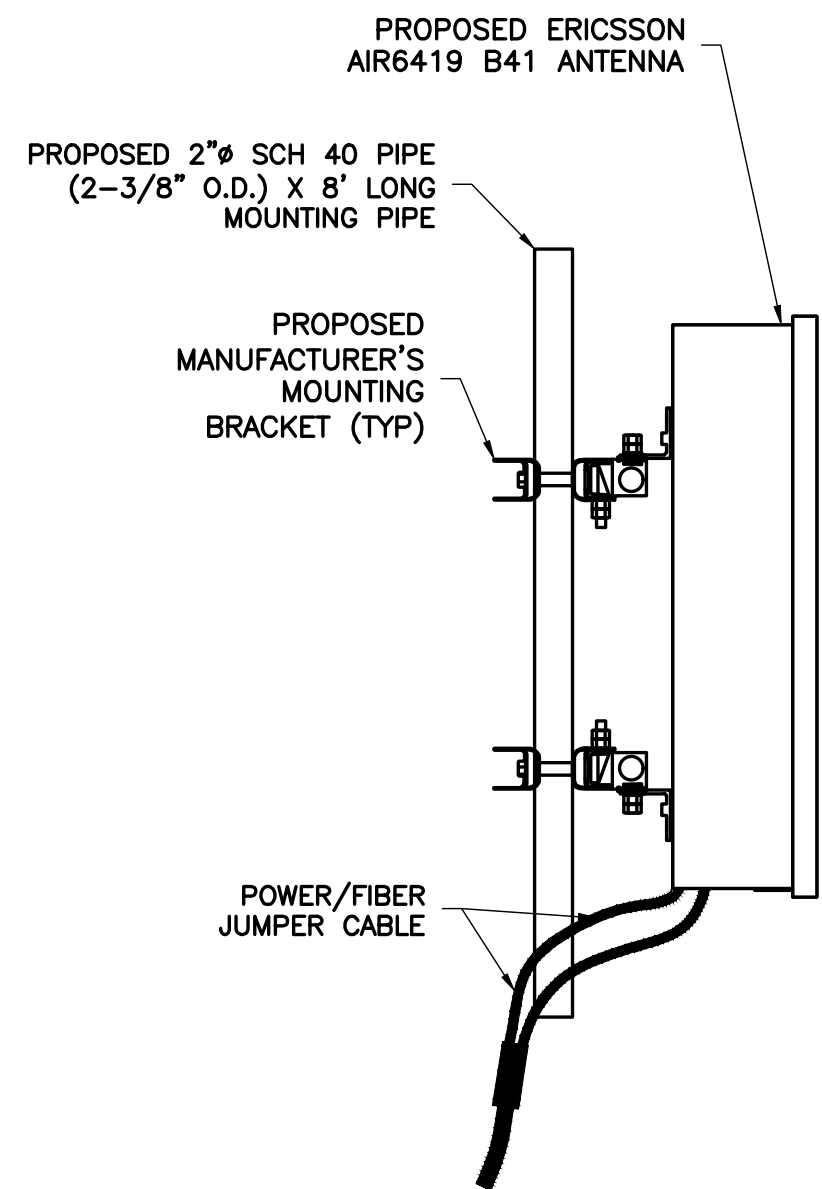
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A-3

ANTENNA MOUNTING DETAIL
NOT TO SCALE



3
A-3

ERICSSON PANEL ANTENNA
NOT TO SCALE



4
A-3

ANTENNA MOUNTING DETAIL
NOT TO SCALE

ENGINEER

NB+C
TOTALLY COMMITTED.

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

APPLICANT

T-Mobile

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

SITE INFORMATION

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

DESIGN RECORD

REVISIONS			
REV	DATE	DESCRIPTION	BY
5	05/19/23	REVISED	TWD
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1	06/15/22	RFDS	LTA
0	12/30/21	FINAL CDs	JQG
A	11/29/21	PRELIMINARY CDs	CDE

PROFESSIONAL STAMP



ENGINEER

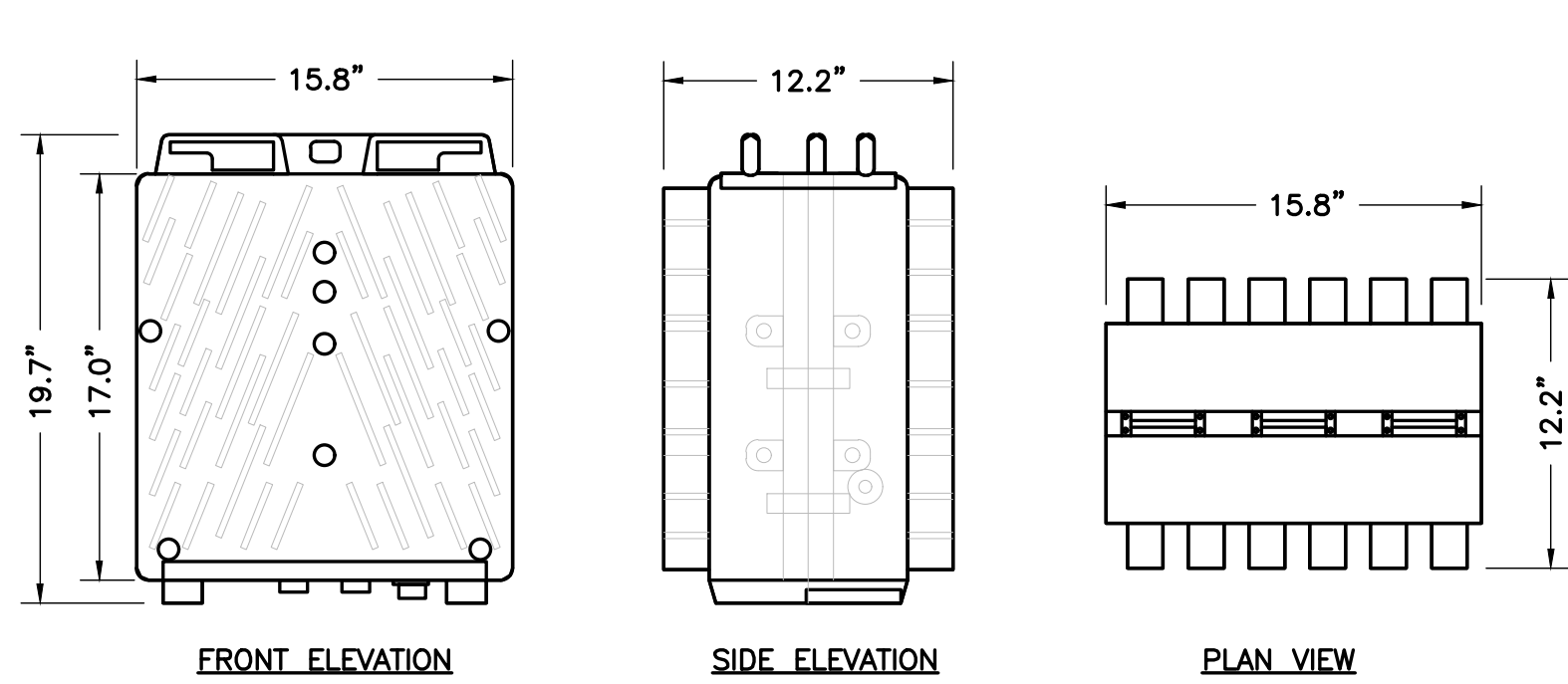
TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

SHEET TITLE

ANTENNA
SPECIFICATIONS
& DETAILS

SHEET NUMBER

A-3

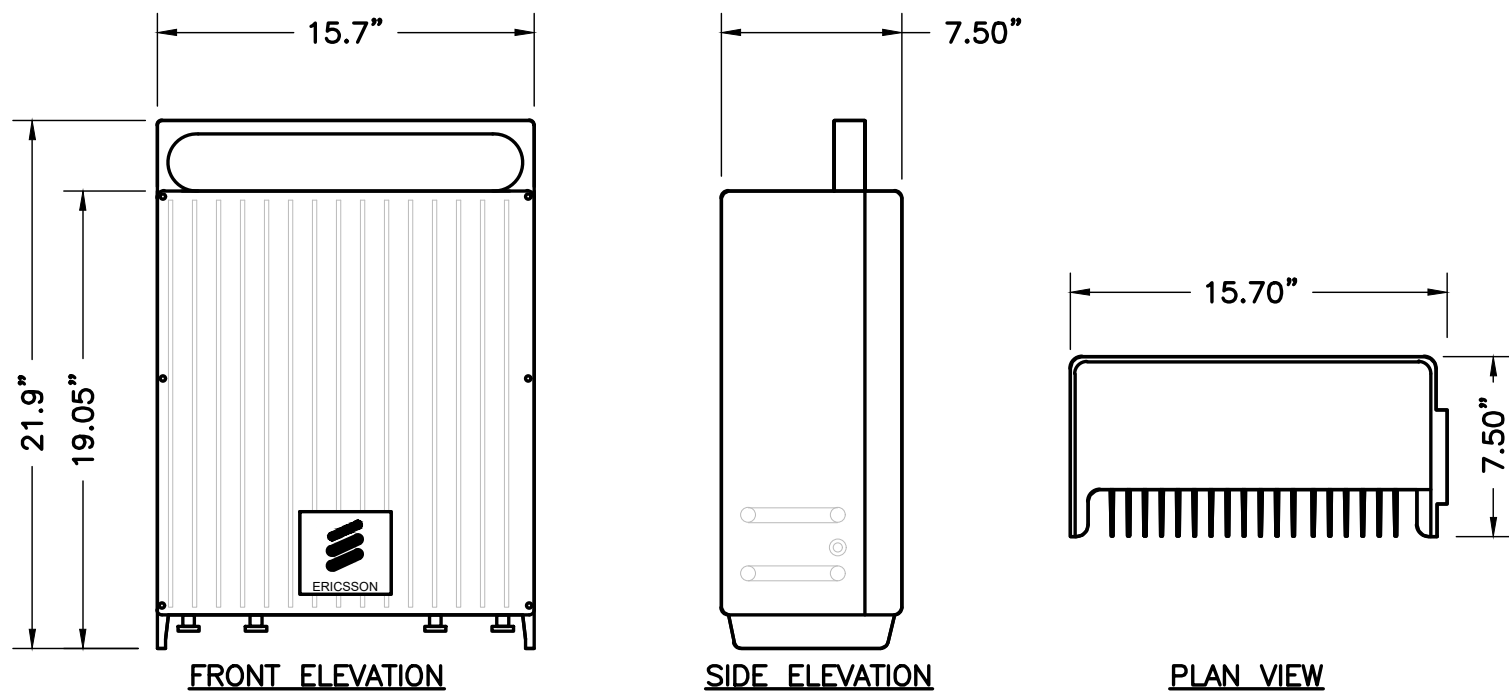


SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4460 B25+B66	19.7"	15.8"	12.2"	109.00 LBS

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

1
A-4
NTS

ERICSSON REMOTE RADIO UNIT (RRU)

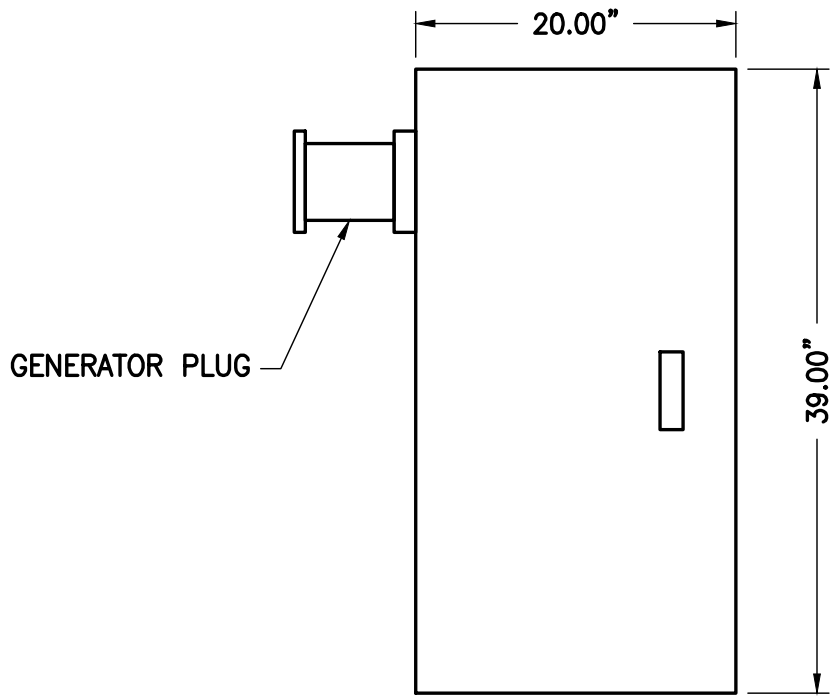


SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4480 B71+B85	21.9"	15.7"	7.50"	81.00 LBS

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

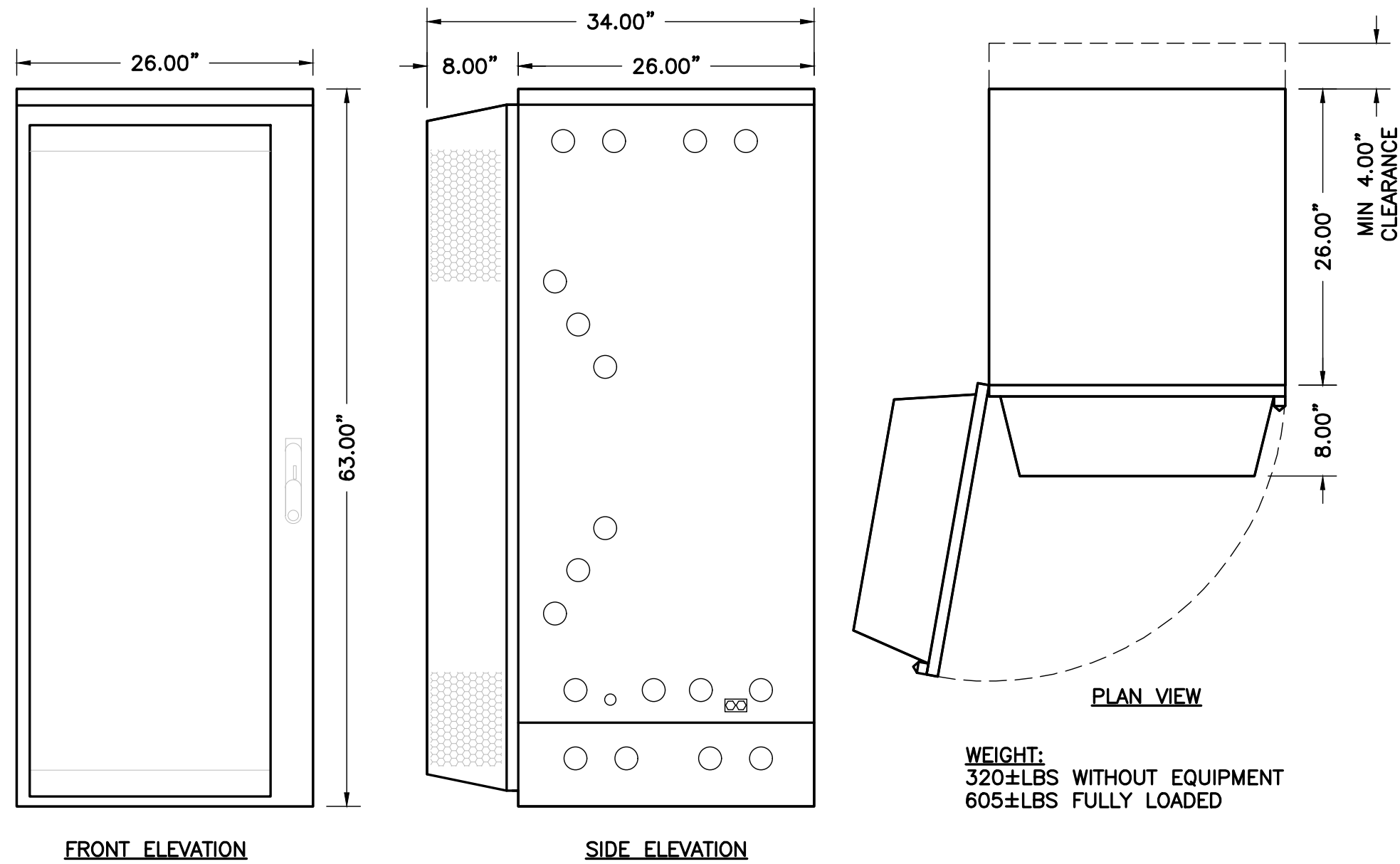
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A-4
NTS

ERICSSON REMOTE RADIO UNIT (RRU)



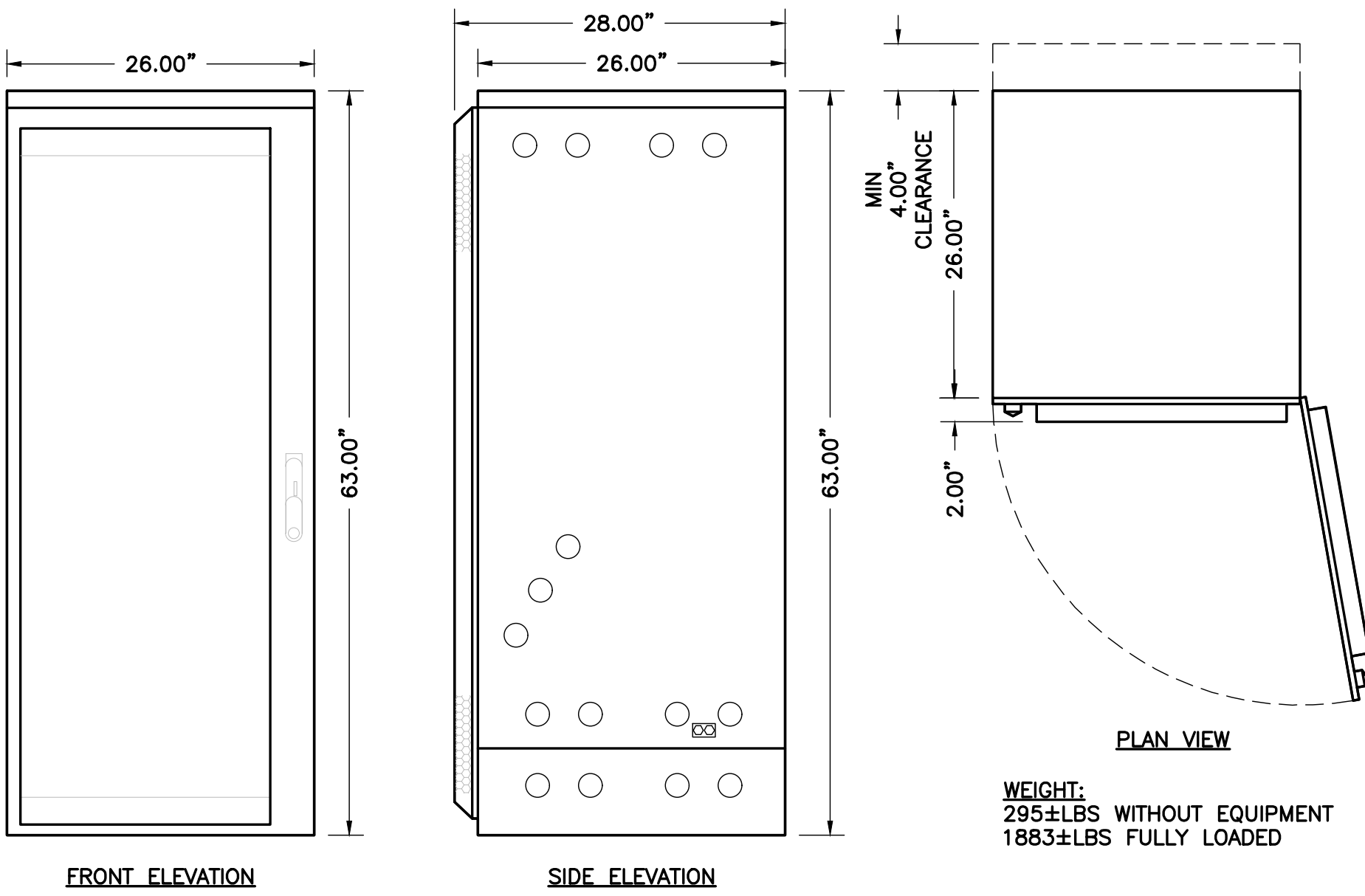
5
A-4
NTS

VERTIV PPC UNIT DETAIL



4
A-4
NOT TO SCALE

6160 ENCLOSURE CABINET



5
A-4
NOT TO SCALE

B160 BATTERY CABINET

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

SHEET NUMBER

NB+C
TOTALLY COMMITTED.

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

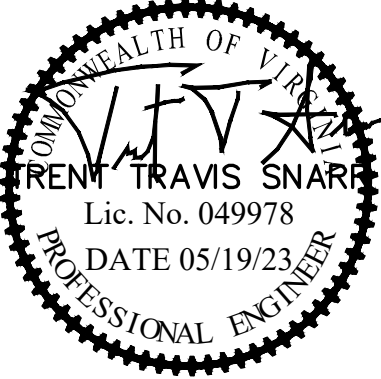
T-Mobile

T-MOBILE NORTHEAST LLC

324 MADISON MEWS
NORFOLK, VA 23510
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VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

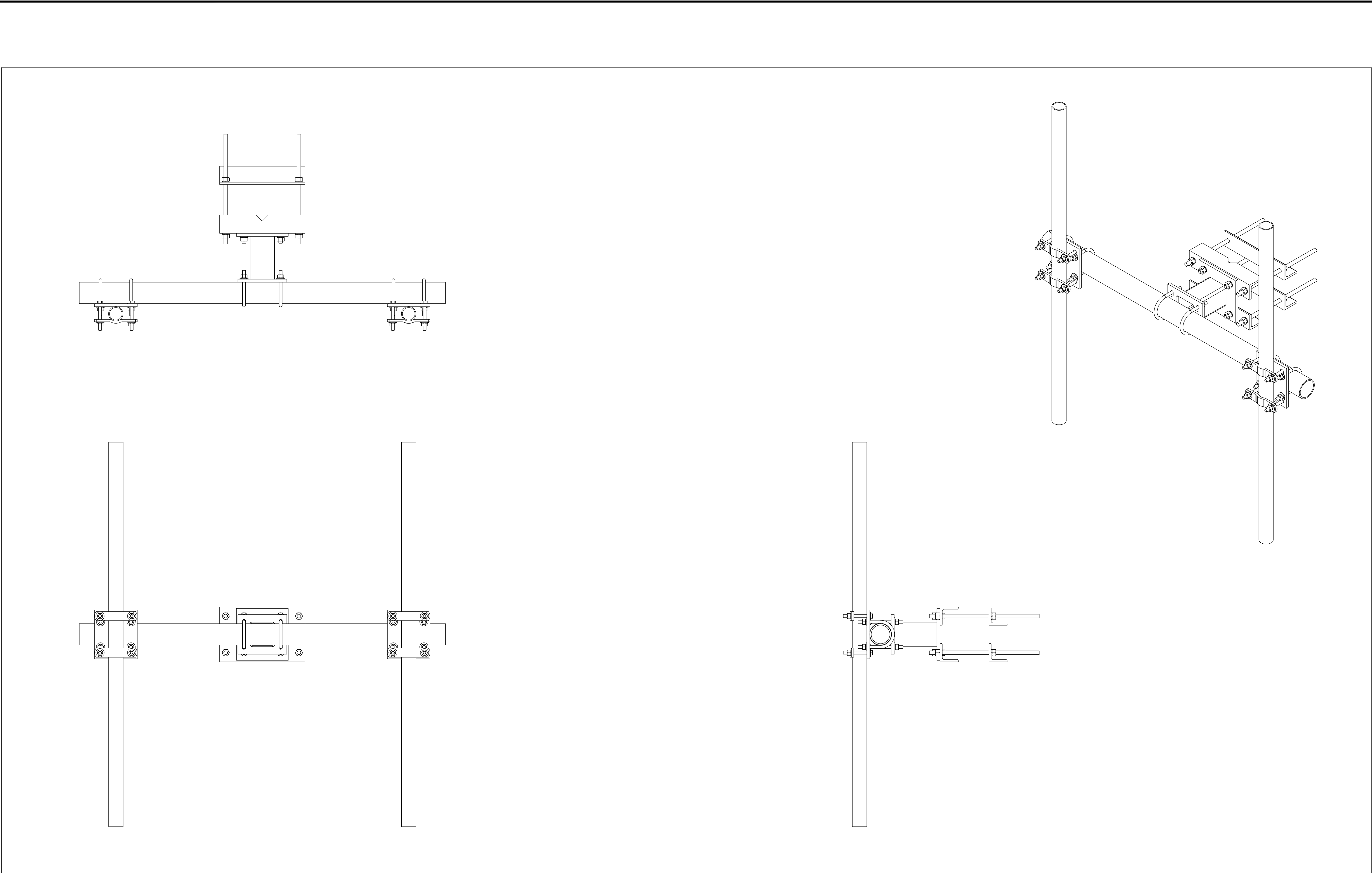
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REV	DATE	DESCRIPTION	BY
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4	05/16/23	REVISED	CCC
3	10/19/22	2C UPDATES	LTA
2	10/05/22	REVISED	JQG
1	06/15/22	RFDS	LTA
0	12/30/21	FINAL CDs	JQG
A	11/29/21	PRELIMINARY CDs	CDE



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

EQUIPMENT SPECIFICATIONS & DETAILS

A-4





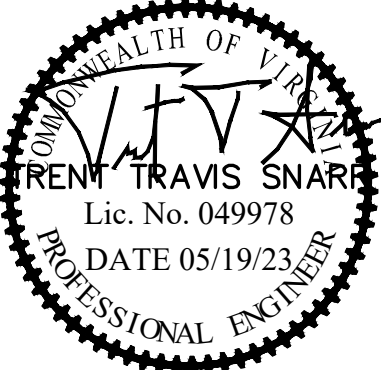
"THIS DRAWING, INCLUDING RELATED PARTS, DESIGNS AND SPECIFICATIONS, IS THE EXCLUSIVE PROPERTY OF SITE PRO 1 AND PROVIDED SOLELY FOR THE PURPOSE OF SPECIFYING AND DEPICTING SITE PRO 1 PARTS ON PROPOSAL DRAWINGS, BIDS AND SITE PLANS. ANY OTHER USE OF THESE MATERIALS IS EXPRESSLY PROHIBITED.

THIS ELECTRONIC FILE MAY NOT BE DISTRIBUTED, TRANSMITTED OR STORED IN ANY RETRIEVAL SYSTEM WITHOUT THE EXPRESS WRITTEN CONSENT OF SITE PRO 1."

DUAL ANTENNA MOUNT ASSEMBLY
FOR ROUND LEGS 2-1/2" TO 10-3/4"
16-1/2" STANDOFF

CWT01-LL



ENGINEER	<div><p>TOTALLY COMMITTED.</p><p>NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079</p></div>																																				
APPLICANT	<div><p>T-MOBILE NORTHEAST LLC</p><p>324 MADISON MEWS NORFOLK, VA 23510 OFFICE: (757) 453-6907 FAX: (757) 589-0904</p></div>																																				
SITE INFORMATION	<p>VA72471A COMMONWEALTH NB+C PROJECT #100838 345 GREENBRIER DRIVE CHARLOTTESVILLE, VA 22901 ALBEMARLE COUNTY</p>																																				
DESIGN RECORD	<table><tr><th colspan="4">REVISIONS</th></tr><tr><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td>5</td><td>05/19/23</td><td>REVISED</td><td>TWD</td></tr><tr><td>4</td><td>05/16/23</td><td>REVISED</td><td>CCC</td></tr><tr><td>3</td><td>10/19/22</td><td>2C UPDATES</td><td>LTA</td></tr><tr><td>2</td><td>10/05/22</td><td>REVISED</td><td>JQG</td></tr><tr><td>1</td><td>06/15/22</td><td>RFDS</td><td>LTA</td></tr><tr><td>0</td><td>12/30/21</td><td>FINAL CDs</td><td>JQG</td></tr><tr><td>A</td><td>11/29/21</td><td>PRELIMINARY CDs</td><td>CDE</td></tr></table>	REVISIONS				REV	DATE	DESCRIPTION	BY	5	05/19/23	REVISED	TWD	4	05/16/23	REVISED	CCC	3	10/19/22	2C UPDATES	LTA	2	10/05/22	REVISED	JQG	1	06/15/22	RFDS	LTA	0	12/30/21	FINAL CDs	JQG	A	11/29/21	PRELIMINARY CDs	CDE
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PROFESSIONAL STAMP	<div></div>																																				
ENGINEER	<p>TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978</p>																																				
SHEET TITLE	<p>ANTENNA MOUNT DETAILS</p>																																				
SHEET NUMBER	<p>A-5</p>																																				

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.

Shentel Keep Hybrid Plumbing (4) 6x24 Hybrids										
TRUNK COLOR CODE	PAIR #	AIR/RRU END		RBS END		RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	RBS END FIBER LABELS		SECTOR
		ODC	PIN	PIN	LC BOOT					
RED 1	1	RED	1	B	RED	Radio 4460 B25+B66 (G19 CPRI1)	RED 1 + LC Boot Color	ALPHA B2 G19 CPRI1		ALPHA
			2	A						
	2	GREEN	1	B	GREEN	Radio 4460 B25+B66 (L19 CPRI2)	RED 1 + LC Boot Color	ALPHA B25 L19 CPRI2		ALPHA
			2	A						
	3	BLUE	1	B	BLUE	Radio 4460 B25+B66 (L21 CPRI3)	RED 1 + LC Boot Color	ALPHA B66 L21 CPRI3		ALPHA
			2	A						
	4	YELLOW	1	B	YELLOW	Radio 4460 B25+B66 (L21 CPRI4)	RED 1 + LC Boot Color	ALPHA B66 L21 CPRI4		ALPHA
			2	A						
	5	WHITE	1	B	WHITE	Radio 4460 B25+B66 (G19 CPRI1)	YELLOW 1 + LC Boot Color	BETA B2 G19 CPRI1		BETA
			2	A						
	6	BLACK	1	B	BLACK	Radio 4460 B25+B66 (L19 CPRI2)	YELLOW 1 + LC Boot Color	BETA B25 L19 CPRI2		BETA
			2	A						
RED 2	7	RED	WHITE	1	B	Radio 4460 B25+B66 (L21 CPRI3)	YELLOW 1 + LC Boot Color	BETA B66 L21 CPRI3		BETA
				2	A					
	8	GREEN	WHITE	1	B	Radio 4460 B25+B66 (L21 CPRI4)	YELLOW 1 + LC Boot Color	BETA B66 L21 CPRI4		BETA
				2	A					
	9	BLUE	WHITE	1	B	Radio 4460 B25+B66 (G19 CPRI1)	BLUE 1 + LC Boot Color	GAMMA B2 G19 CPRI1		GAMMA
				2	A					
	10	YELLOW	WHITE	1	B	Radio 4460 B25+B66 (L19 CPRI2)	BLUE 1 + LC Boot Color	GAMMA B25 L19 CPRI2		GAMMA
				2	A					
	11	WHITE	WHITE	1	B	Radio 4460 B25+B66 (L21 CPRI3)	BLUE 1 + LC Boot Color	GAMMA B66 L21 CPRI3		GAMMA
				2	A					
	12	BLACK	WHITE	1	B	Radio 4460 B25+B66 (L21 CPRI4)	BLUE 1 + LC Boot Color	GAMMA B66 L21 CPRI4		GAMMA
				2	A					

TRUNK COLOR CODE	PAIR #	AIR/RRU END		RBS END		RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	RBS END FIBER LABELS		SECTOR
		ODC	PIN	PIN	LC BOOT					
RED 2	1	RED	1	B	RED	Radio 4480 B71+B85A CPRI1	RED 2 + LC Boot Color	Alpha L700/L600 CPRI1		ALPHA
			2	A						
	2	GREEN	1	B	GREEN	Radio 4480 B71+B85A CPRI2	RED 2 + LC Boot Color	Alpha N600 CPRI2		ALPHA
			2	A						
	3	BLUE	1	B	BLUE	Radio 4480 B71+B85A CPRI1	YELLOW 2 + LC Boot Color	Beta L700/L600 CPRI1		BETA
			2	A						
	4	YELLOW	1	B	YELLOW	Radio 4480 B71+B85A CPRI2	YELLOW 2 + LC Boot Color	Beta N600 CPRI2		BETA
			2	A						
	5	WHITE	1	B	WHITE	Radio 4480 B71+B85A CPRI1	BLUE 2 + LC Boot Color	Gamma L700/L600 CPRI1		GAMMA
			2	A						
	6	BLACK	1	B	BLACK	Radio 4480 B71+B85A CPRI2	BLUE 2 + LC Boot Color	Gamma N600 CPRI2		GAMMA
			2	A						

TRUNK COLOR CODE	PAIR #	AIR/RRU END		RBS END		RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	RBS END FIBER LABELS		SECTOR
		ODC	PIN	PIN	LC BOOT					
RED 3	1	RED	1	B	RED	Radio 4460 B25+B66 (G19 CPRI1)	RED 3 + LC Boot Color	DELTA B2 G19 CPRI1		DELTA
			2	A						
	2	GREEN	1	B	GREEN	Radio 4460 B25+B66 (L19 CPRI2)	RED 3 + LC Boot Color	DELTA B25 L19 CPRI2		DELTA
			2	A						
	3	BLUE	1	B	BLUE	Radio 4460 B25+B66 (L21 CPRI3)	YELLOW 3 + LC Boot Color	DELTA B66 L21 CPRI3		DELTA
			2	A						
	4	YELLOW	1	B	YELLOW	Radio 4460 B25+B66 (L21 CPRI4)	YELLOW 3 + LC Boot Color	DELTA B66 L21 CPRI4		DELTA
			2	A						
	5	WHITE	1	B	WHITE	Radio 4480 B71+B85A CPRI1	BLUE 3 + LC Boot Color	DELTA L700/L600 CPRI1		DELTA
			2	A						
	6	BLACK	1	B	BLACK	Radio 4480 B71+B85A CPRI2	BLUE 3 + LC Boot Color	DELTA N600 CPRI2		DELTA
			2	A						

DC Power							
PAIR #	REF HOOKUP	PIN LETTER	AIR/RRU END		RADIO (TECHNOLOGY)	SECTOR	SPD LABELS
1	-48	A	BLACK	RED	Radio 4460 B66aA	ALPHA	Alpha 4460 P1
	OV	B	RED				
2	-48	A	BLACK	GREEN	Radio 4460 B25	ALPHA	Alpha 4460 P2
	OV	B	RED				
3	-48	A	BLACK	BLUE	Radio 4460 B66aA	BETA	Beta 4460 P1
	OV	B	RED				
4	-48	A	BLACK	YELLOW	Radio 4460 B25	BETA	Beta 4460 P2
	OV	B	RED				
5	-48	A	BLACK	WHITE	Radio 4460 B66aA	GAMMA	Gamma 4460 P1
	OV	B	RED				
6	-48	A	BLACK	BLACK	Radio 4460 B25	GAMMA	Gamma 4460 P2
	OV	B	RED				

PAIR #	REF HOOKUP	PIN LETTER	AIR/RRU END		RADIO	SECTOR	SPD LABELS
1	-48	A	BLACK	RED	Radio 4480	ALPHA	Alpha 4480
	OV	B	RED				
2	-48	A	BLACK	GREEN			
	OV	B	RED				
3	-48	A	BLACK	BLUE	Radio 4480	BETA	Beta 4480
	OV	B	RED				
4	-48	A	BLACK	YELLOW			
	OV	B	RED				
5	-48	A	BLACK	WHITE	Radio 4480	GAMMA	Gamma 4480
	OV	B	RED				
6	-48	A	BLACK	BLACK			
	OV	B	RED				

PAIR #	REF HOOKUP	PIN LETTER	AIR/RRU END		RADIO	SECTOR	SPD LABELS
1	-48	A	BLACK	RED	Radio 4460	ALPHA	Delta 4460 P1
	OV	B	RED				
2	-48	A	BLACK	GREEN	Radio 4460	BETA	Delta 4460 P2
	OV	B	RED				
3	-48	A	BLACK	BLUE	Radio 4460	GAMMA	Delta 4480
	OV	B	RED				
4	-48	A	BLACK	YELLOW			
	OV	B	RED				
5	-48	A	BLACK	WHITE			
	OV	B	RED				
6	-48	A	BLACK	BLACK			
	OV	B	RED				

Alpha RF Jumper Color Code							
Radio 4460				Radio 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

Gamma RF Jumper Color Code							
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

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

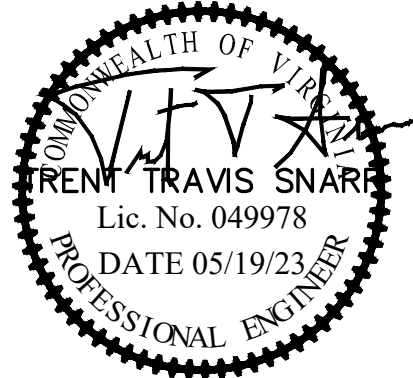
SHEET NUMBER

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NB+C ENGINEERING SERVICES, LLC.
120 EASTSHORE DRIVE, SUITE 300
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VA72471A
COMMONWEALTH
NB+C PROJECT #100838
345 GREENBRIER DRIVE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

REVISIONS			
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REV	DATE	DESCRIPTION	BY



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

**HYBRID COLOR
CODES**

A-7

Shentel Keep Hybrid Plumbing (4) 6x24 Hybrids											
TRUNK COLOR CODE	PAIR #	AIR/RRU END		RBS END		RADIO (TECHNOLOGY)	AIR/RRU END COLOR CODE	RBS END FIBER LABELS	SECTOR		
		ODC	PIN	PIN	LC BOOT						
RED 4	1	RED		1 2	B A	RED		AIR 6449 (L41 CPRI 1)	RED 1 + LC Boot Color	ALPHA L41 CPRI1	ALPHA
	2	GREEN		1 2	B A	GREEN		AIR 6449 (L41 CPRI 2)	RED 1 + LC Boot Color	ALPHA L41 CPRI2	ALPHA
	3	BLUE		1 2	B A	BLUE		AIR 6449 (N41 CPRI 3)	RED 1 + LC Boot Color	ALPHA N41 CPRI3	ALPHA
	4	YELLOW		1 2	B A	YELLOW		AIR 6449 (N41 CPRI 4)	RED 1 + LC Boot Color	ALPHA N41 CPRI4	ALPHA
	5	WHITE		1 2	B A	WHITE		AIR 6449 (L41 CPRI 1)	YELLOW 1 + LC Boot Color	BETA L41 CPRI1	BETA
	6	BLACK		1 2	B A	BLACK		AIR 6449 (L41 CPRI 2)	YELLOW 1 + LC Boot Color	BETA L41 CPRI2	BETA
	7	RED	WHITE	1 2	B A	RED	WHITE	AIR 6449 (N41 CPRI 3)	YELLOW 1 + LC Boot Color	BETA N41 CPRI3	BETA
	8	GREEN	WHITE	1 2	B A	GREEN	WHITE	AIR 6449 (N41 CPRI 4)	YELLOW 1 + LC Boot Color	BETA N41 CPRI4	BETA
	9	BLUE	WHITE	1 2	B A	BLUE	WHITE	AIR 6449 (L41 CPRI 1)	BLUE 1 + LC Boot Color	GAMMA L41 CPRI1	GAMMA
	10	YELLOW	WHITE	1 2	B A	YELLOW	WHITE	AIR 6449 (L41 CPRI 2)	BLUE 1 + LC Boot Color	GAMMA L41 CPRI2	GAMMA
	11	WHITE	WHITE	1 2	B A	WHITE	WHITE	AIR 6449 (N41 CPRI 3)	BLUE 1 + LC Boot Color	GAMMA N41 CPRI3	GAMMA
	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/RRU END		RADIO (TECHNOLOGY)	SECTOR	SPD LABELS
1	-48	A	BLACK	RED	AIR 6449	ALPHA	Alpha L/N41
	OV	B	RED				
2	-48	A	BLACK	GREEN	AIR 6449	BETA	Beta L/N41
	OV	B	RED				
3	-48	A	BLACK	BLUE	AIR 6449	Gamma	Gamma L/N41
	OV	B	RED				
4	-48	A	BLACK	YELLOW			
	OV	B	RED				
5	-48	A	BLACK	WHITE			
	OV	B	RED				
6	-48	A	BLACK	BLACK			
	OV	B	RED				

ENGINEER

NB+C

TOTALLY COMMITTED.

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

APPLICANT

T-Mobile

T-MOBILE NORTHEAST LLC

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

SITE INFORMATION

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

DESIGN RECORD

REVISIONS

5	05/19/23	REVISED	TWD
4	05/16/23	REVISED	CCC
3	10/19/22	2C UPDATES	LTA
2	10/05/22	REVISED	JQG
1	06/15/22	RFDS	LTA
0	12/30/21	FINAL CDs	JQG
A	11/29/21	PRELIMINARY CDs	CDE
REV	DATE	DESCRIPTION	BY

PROFESSIONAL STAMP

COMMONWEALTH OF VIRGINIA

TRENT TRAVIS SNARR

Lic. No. 049978

DATE 05/19/23

PROFESSIONAL ENGINEER

ENGINEER

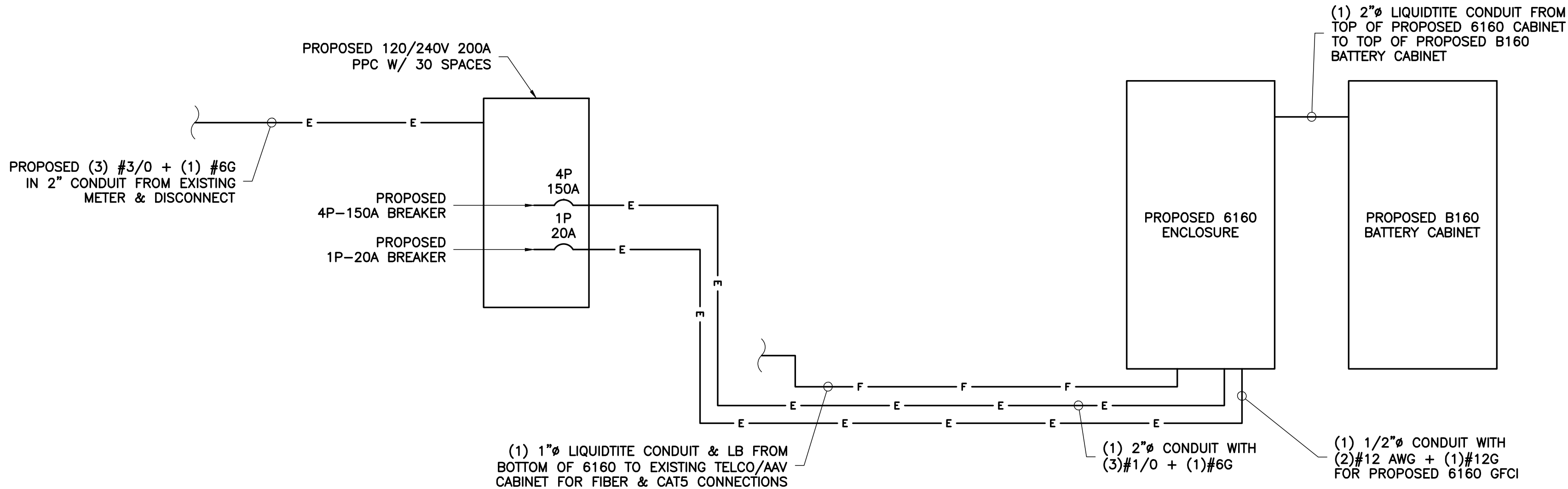
TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

SHEET TITLE

HYBRID COLOR
CODES

SHEET NUMBER

A-8



1
E-1

POWER DIAGRAM
NOT TO SCALE

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		PHASE: 1 WIRE: 3 BRANCH CB: 30			
C K T	CIRCUIT DESCRIPTION	WATTAGE		POLE	B R K	LOAD PER PHASE		B R K	POLE	WATTAGE		CIRCUIT DESCRIPTION	C K T
		C	NC			A	B			NC	C		
1	TVSS	0	0	2	60	0				0	0		2
3		0	0				0		0	0		4	
5	*6160	2248	0	4	150	2248				0	0		6
7		2248	0				2248		0	0		8	
9		2248	0			2248		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				0	0		30
						TOTAL LOADS PER PHASE							
						4676	4496						
						SUBTOTAL CONTINUOUS		125% TOTAL CONTINUOUS (VA)		11240			
						8992		100% TOTAL NON-CONTINUOUS (VA)		180			
						SUBTOTAL NON-CONTINUOUS		TOTAL AMPS		47.58			
						180		TOTAL CONNECTED LOAD (KVA)		11.42			
								SPARE CAPACITY (A)		152.42			
NOTES													
*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													

2
E-1

PROPOSED PANEL SCHEDULE
NOT TO SCALE

ENGINEER

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REV	DATE	DESCRIPTION	BY

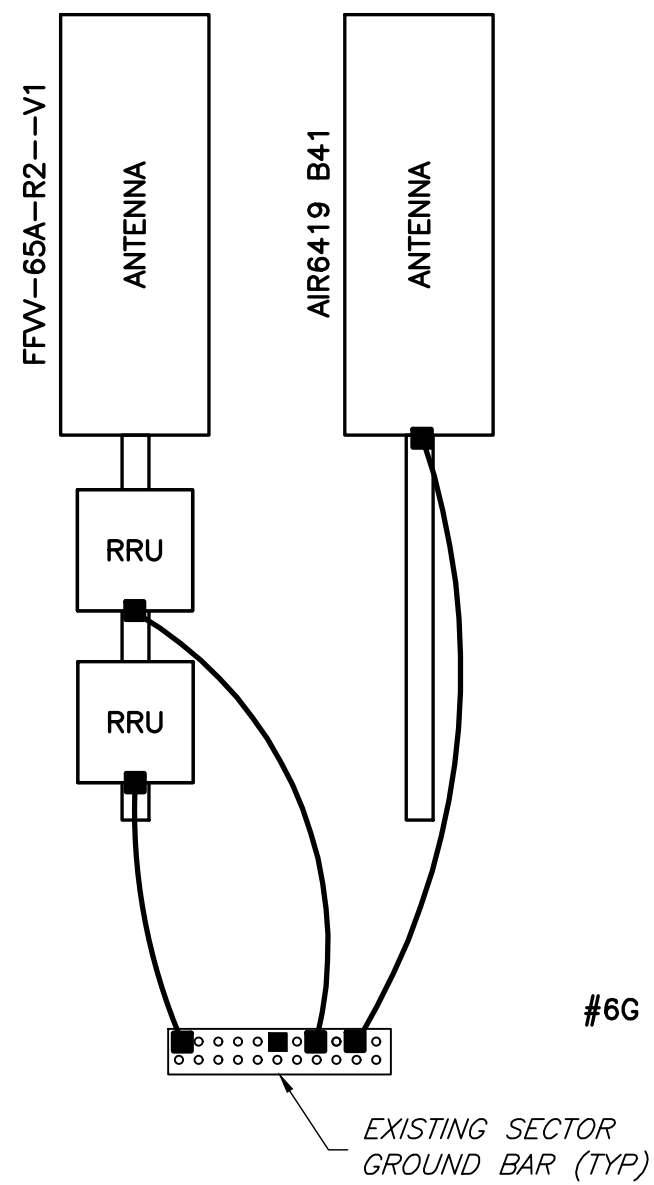


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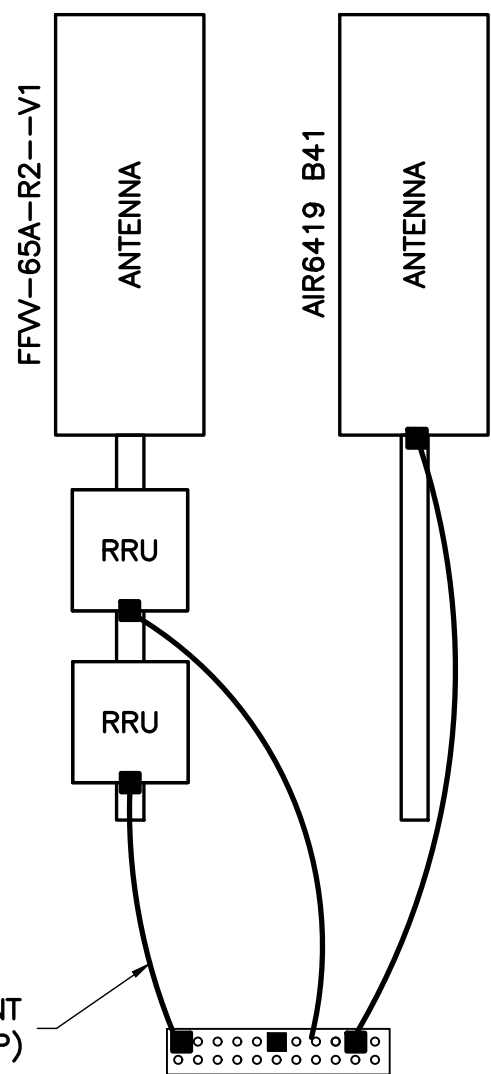
**ELECTRICAL
DETAILS**

E-1

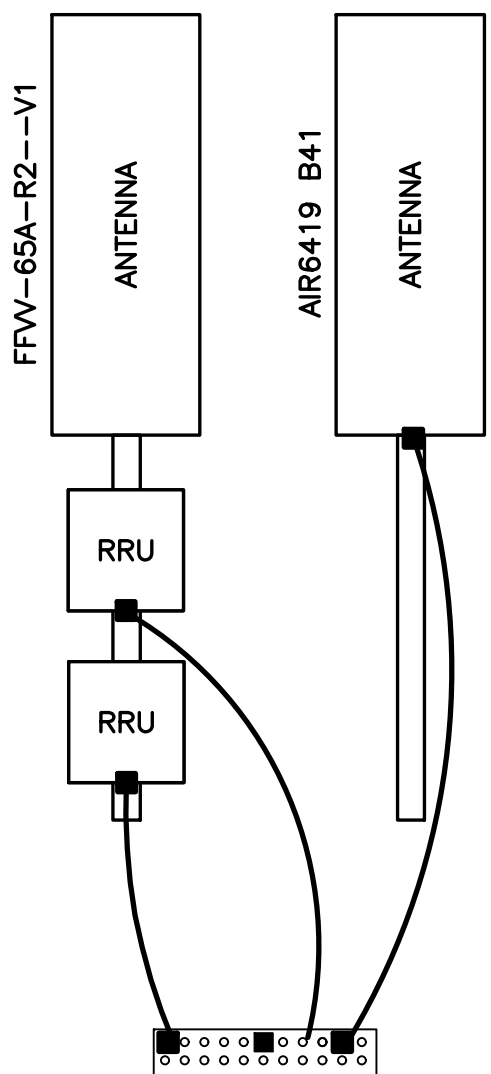
ALPHA



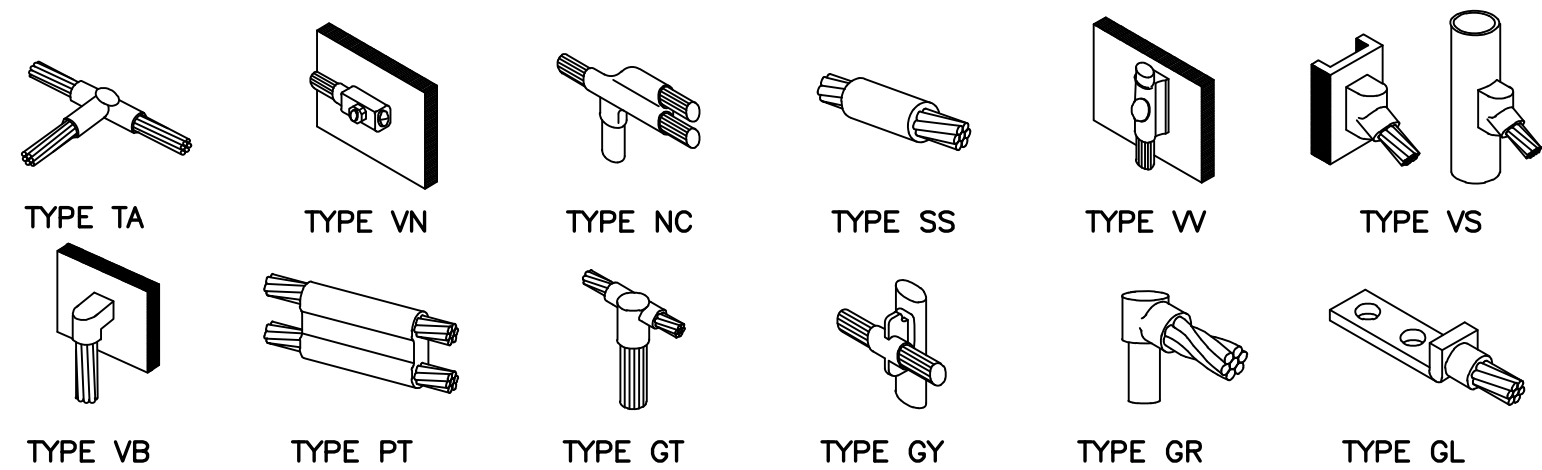
BETA



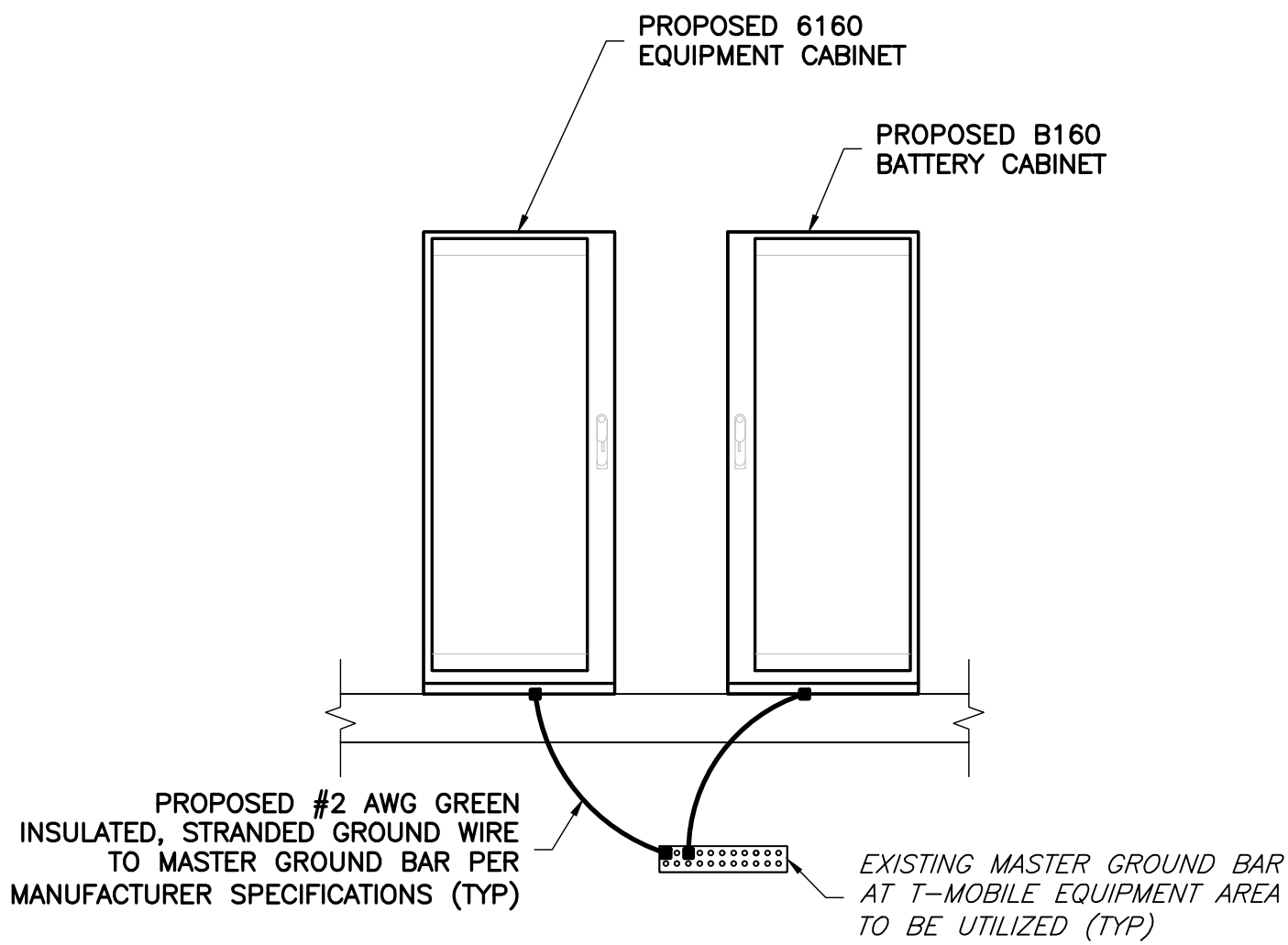
GAMMA



1 ANTENNA GROUNDING DETAIL
G-1 NTS



2 GROUNDING CONNECTION DETAILS
G-1 NOT TO SCALE



3 CABINET GROUNDING DIAGRAM
G-1 NOT TO SCALE

GROUNDING LEGEND

- MECHANICAL COMPRESSION CONNECTION
- CADWELD CONNECTION
- EXOTHERMIC WELD CONNECTION
- PROPOSED GROUND WIRING
- EXISTING GROUND WIRING

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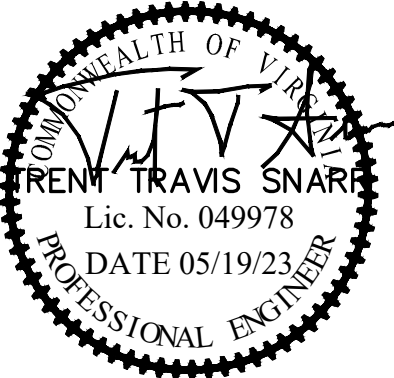
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SHEET TITLE

GROUNDING
DETAILS

SHEET NUMBER

G-1