

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.

T-Mobile



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

SHENTEL KEEP PROJECT

CONFIGURATION: 67E5D998E 6160 (NO GSM) (RAN) / 67E5998E_1xAIR+1OP+AAV PROJECT (A&L)

T-MOBILE SITE NUMBER: VA72520A
T-MOBILE SITE NAME: BELLAIR

20 DEER PATH LANE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

TOWER OWNER:
SHENTEL
SITE NUMBER: TWR-000485
SITE NAME: N/A

SHENTEL SITE ID: 68341/WA68SH341
SHENTEL SITE NAME: BELLAIR

SCOPE OF WORK

- TOWER:**
- REMOVAL OF (3) EXISTING SHENTEL ANTENNAS
 - INSTALLATION OF (3) NEW T-MOBILE COMMSCOPE FFVW-65A-R2-V1 ANTENNAS @ POSITION 1
 - INSTALLATION OF (3) NEW T-MOBILE ERICSSON AIR 6419 B41 ANTENNAS @ POSITION 2
 - REMOVAL OF (7) EXISTING SHENTEL RRUS
 - 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
 - REMOVAL OF EXISTING SHENTEL COAX/FEEDLINES
 - INSTALLATION OF (2) NEW T-MOBILE ANTENNA MOUNTS
 - PROPOSED EQUIPMENT TO BE PAINTED TO MATCH TOWER - COLOR IS SHERWIN WILLIAMS UMBRA BROWN 8W400B (INDUSTRIAL AND MARINE COATING)
- GROUND:**
- REMOVAL OF EXISTING SHENTEL EQUIPMENT CABINET
 - REMOVAL OF EXISTING SHENTEL FIBER DISTRIBUTION BOX
 - INSTALLATION OF (1) NEW T-MOBILE 3'-0" H-FRAME EXTENSION
 - INSTALLATION OF (1) NEW T-MOBILE ERICSSON 6160 ENCLOSURE & (1) NEW ERICSSON B160 BATTERY CABINET
 - INSTALLATION OF (3) NEW RP 6651 INSIDE NEW ENCLOSURE
 - INSTALLATION OF (1) IXRE ROUTER & (1) PSU 4813 INSIDE NEW ENCLOSURE
 - REMOVAL OF (1) EXISTING SHENTEL 120/240V 200A 24 SPACE PPC
 - INSTALLATION OF (1) NEW T-MOBILE 120/240V 200A 30 SPACE VERTIV PPC

SITE INFORMATION

LATITUDE (NAD 83): 38.03860092°
LONGITUDE (NAD 83): -78.52709961°

JURISDICTION: ALBEMARLE COUNTY

ZONING DESIGNATION: R1 - RESIDENTIAL

GROUND ELEVATION: 554.46'± (AMSL)

PARCEL NUMBER: 076C0-02-00-00200

PARCEL AREA: 1.39± ACRES

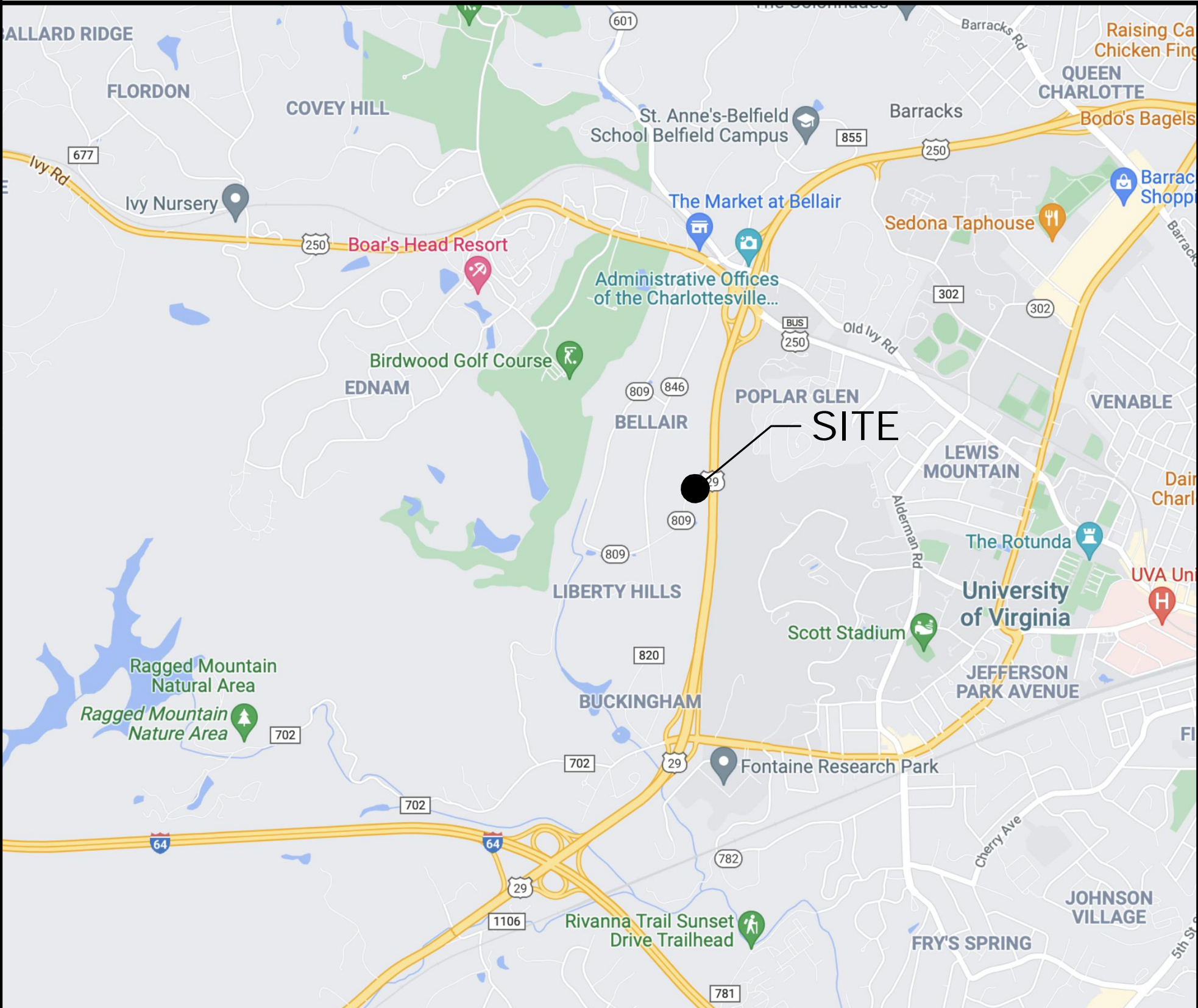
PARCEL OWNER: HOLMES, DAVID L OR CAROLYN C ASH LAWN
18 DEER PATH ROAD
CHARLOTTESVILLE, VA 22903

STRUCTURE TYPE: MONOPOLE

STRUCTURE HEIGHT: 99'-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

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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

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

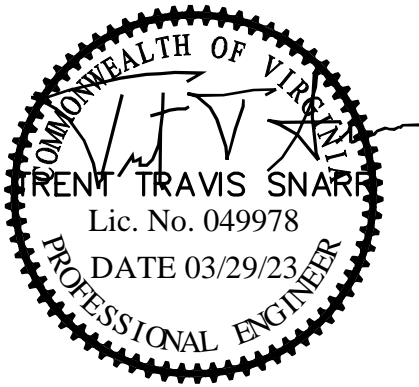
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VA72520A
BELLAIR
NB+C PROJECT #100838
20 DEER PATH LANE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

REVISIONS

5	03/29/23	REVISED	AMT
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0	05/24/22	FINAL CDs	JQG
A	11/10/21	PRELIMINARY CDs	CDE
REV	DATE	DESCRIPTION	BY

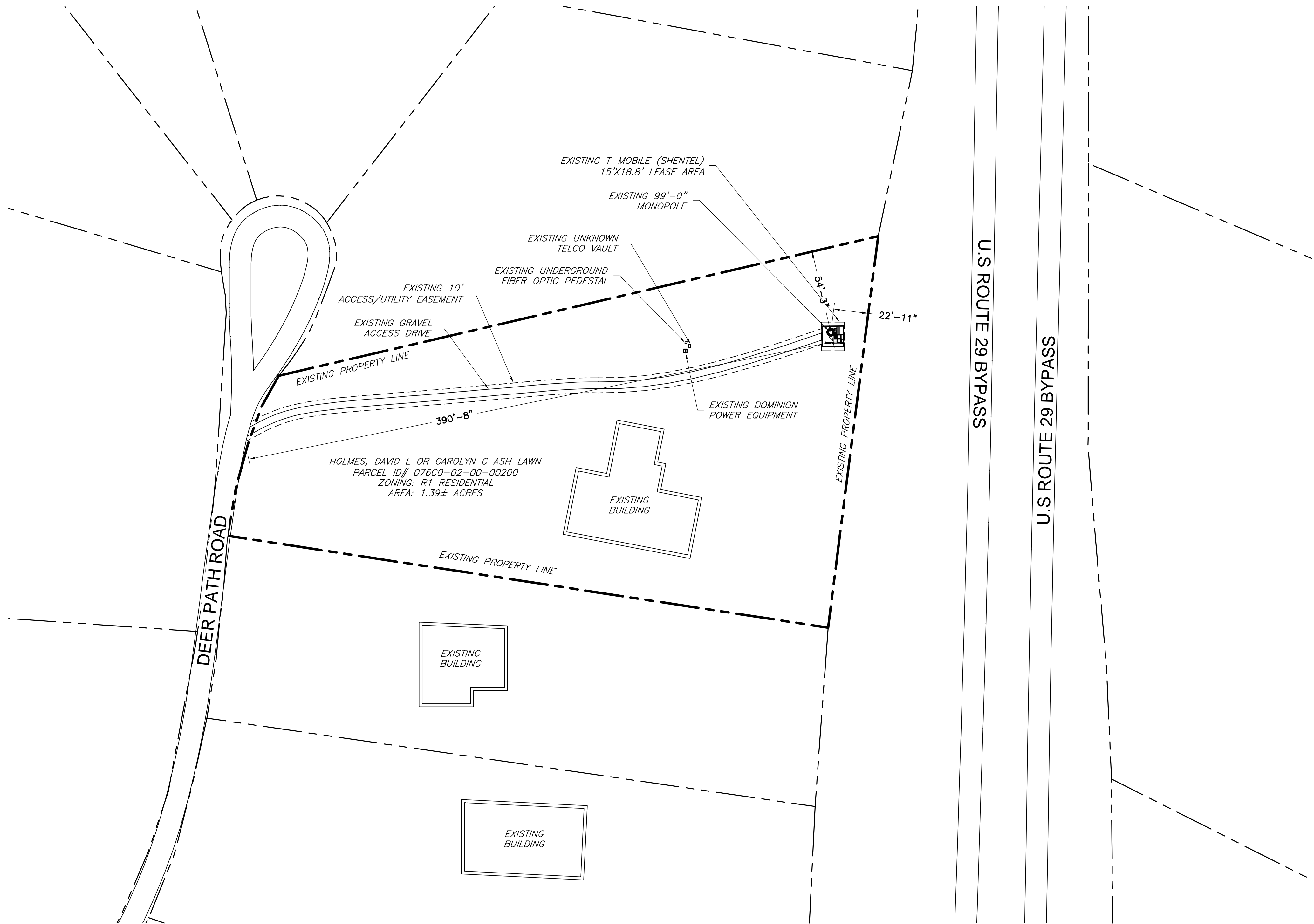


TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

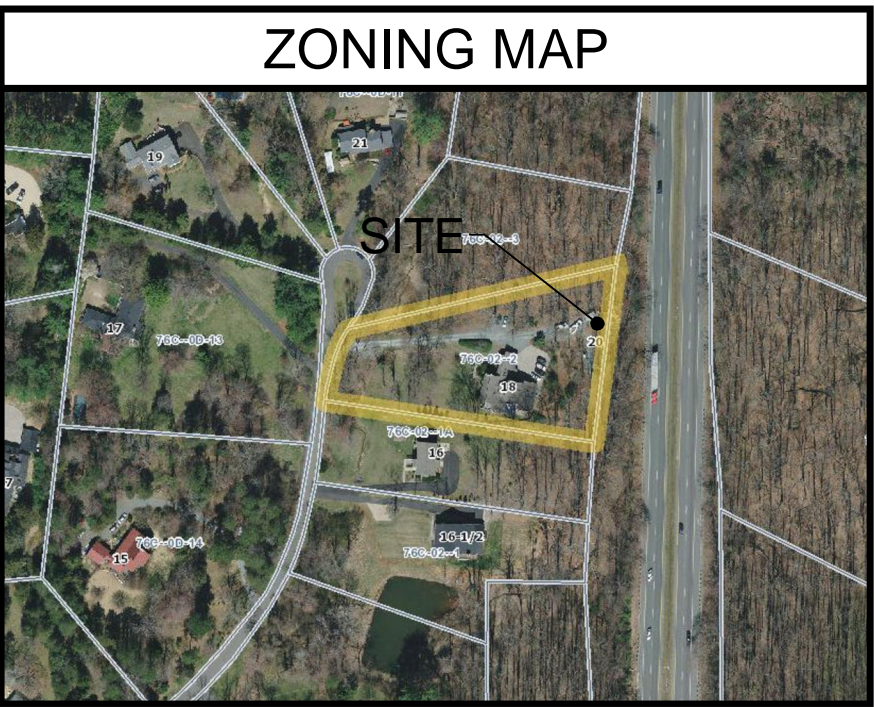
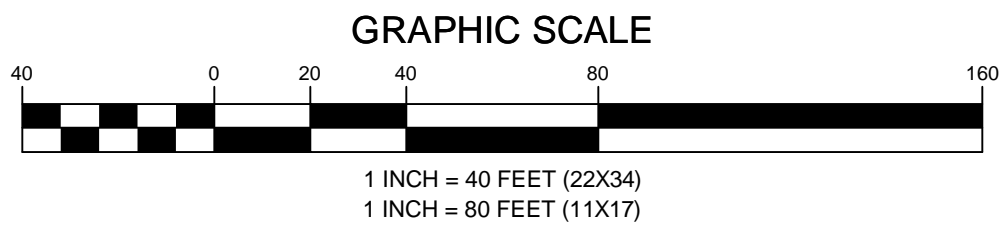
TITLE SHEET

T-1

ELECTRICAL & GROUNDING NOTES	GENERAL NOTES	STRUCTURAL NOTES	ENGINEER	<div><div><div>NB+C</div><div>TOTALLY COMMITTED.</div><div>NB+C ENGINEERING SERVICES, LLC. 120 EASTSHORE DRIVE, SUITE 300 GLEN ALLEN, VA 23059 (804) 548-4079</div></div></div>																																				
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			DESIGN RECORD	<div><div><div>REVISIONS</div><table><tr><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td>03/29/23</td><td>REVISED</td><td>AMT</td></tr><tr><td>4</td><td>11/03/22</td><td>REVISED</td><td>CCC</td></tr><tr><td>3</td><td>10/24/22</td><td>REVISED</td><td>CCC</td></tr><tr><td>2</td><td>06/30/22</td><td>AAV PROJECT</td><td>JQG</td></tr><tr><td>1</td><td>06/14/22</td><td>RFDS</td><td>JQG</td></tr><tr><td>0</td><td>05/24/22</td><td>FINAL CDs</td><td>JQG</td></tr><tr><td>A</td><td>11/10/21</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></div>					5	03/29/23	REVISED	AMT	4	11/03/22	REVISED	CCC	3	10/24/22	REVISED	CCC	2	06/30/22	AAV PROJECT	JQG	1	06/14/22	RFDS	JQG	0	05/24/22	FINAL CDs	JQG	A	11/10/21	PRELIMINARY CDs	CDE	REV	DATE	DESCRIPTION	BY
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PROFESSIONAL STAMP	<div><div><div><div><div>COMMONWEALTH OF VIRGINIA</div><div>TRENT TRAVIS SNARR</div><div>Lic. No. 049978</div><div>DATE 03/29/23</div><div>PROFESSIONAL ENGINEER</div></div></div></div></div>																																							
ENGINEER	<div><div><div>TRENT T. SNARR, P.E. VA PROFESSIONAL ENGINEER LIC. #49978</div></div></div>																																							
SHEET TITLE	<div><div><div>GENERAL NOTES</div></div></div>																																							
SHEET NUMBER	<div><div><div>GN-1</div></div></div>																																							



1 SITE PLAN
Z-1
SCALE: 1" = 40' (22X34)
SCALE: 1" = 80' (11X17)



LEGEND	
	PROPERTY LINE - SUBJECT PARCEL
	PROPERTY LINE - ABUTTERS
	EXISTING ROAD
	EXISTING FENCE
	PROPOSED EASEMENT
	PROPOSED LEASE AREA
	EXISTING BUILDING
	PROPOSED FENCE

ZONING INFORMATION		
JURISDICTION: ALBEMARLE COUNTY		
ZONING: R1		
DIMENSION	EXISTING ±	PROPOSED ±
FRONT YARD SETBACK:	390'-8"	-
SIDE YARD SETBACK:	54'-3"	-
REAR YARD SETBACK:	22'-11"	-
LOT AREA:	1.39± AC	
(ALL MEASUREMENTS ARE IN FEET ± UNLESS OTHERWISE NOTED)		
NOTES:		

- 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

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

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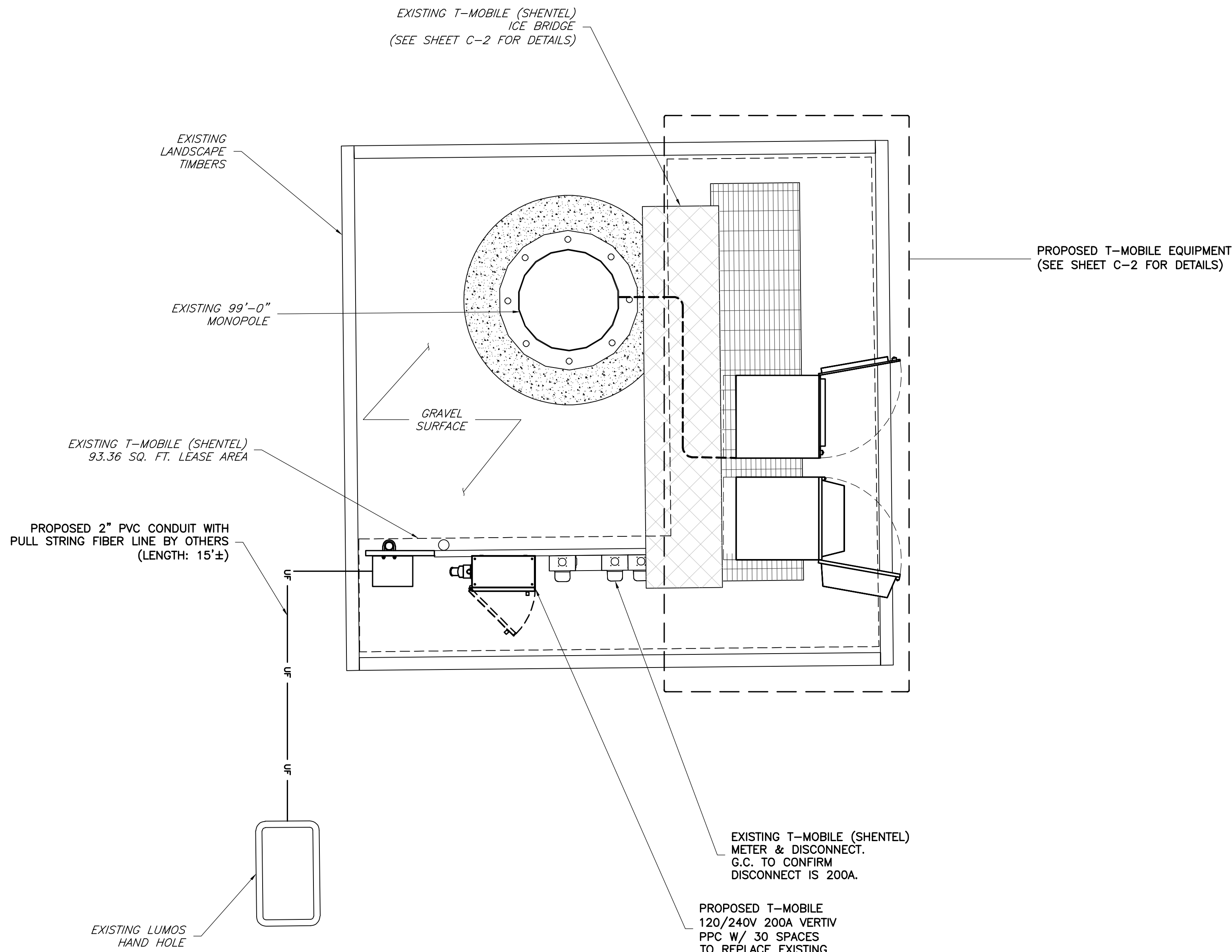
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VA PROFESSIONAL ENGINEER LIC. #49978

SITE PLAN

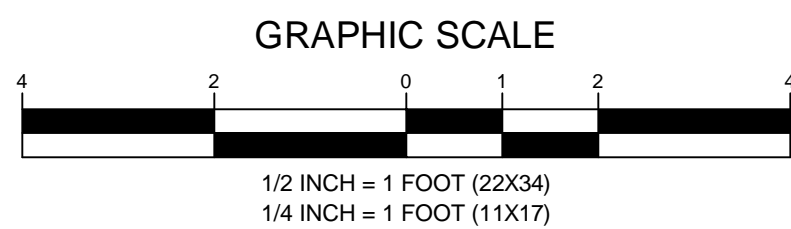
Z-1



1
C-1

COMPOUND PLAN

SCALE: 1/2" = 1' (22X34)
SCALE: 1/4" = 1' (11X17)



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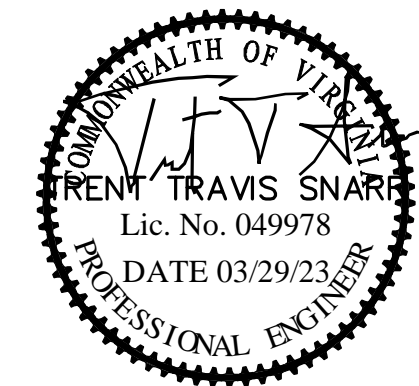
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PROFESSIONAL STAMP



ENGINEER

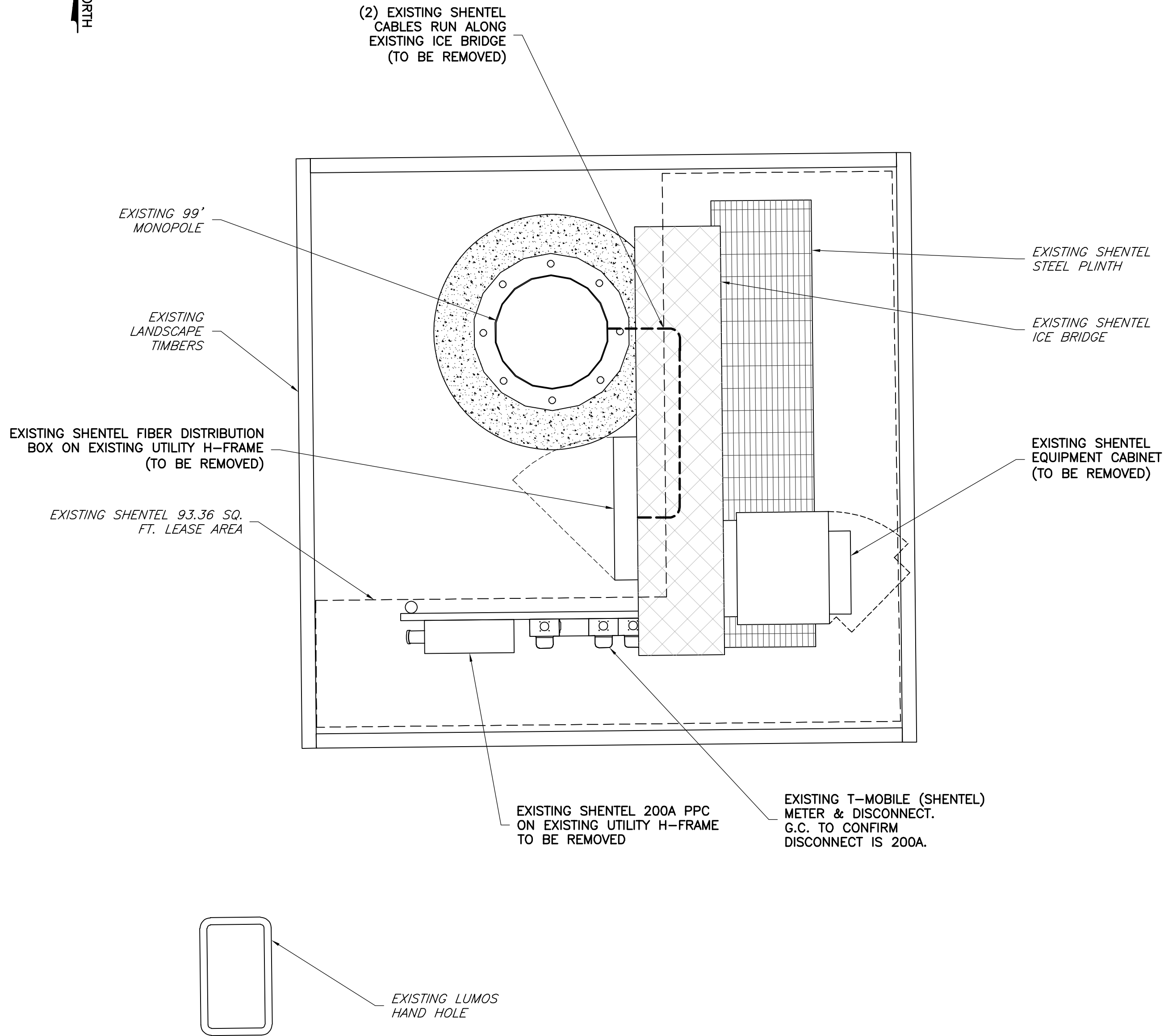
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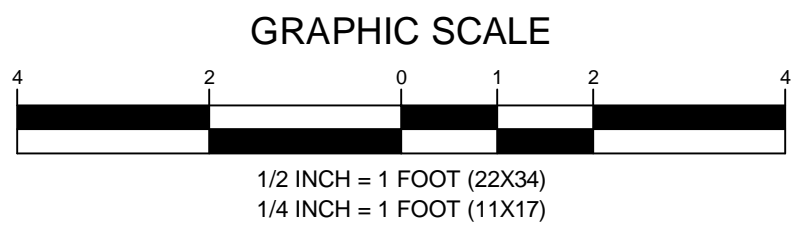
COMPOUND
PLAN

SHEET NUMBER

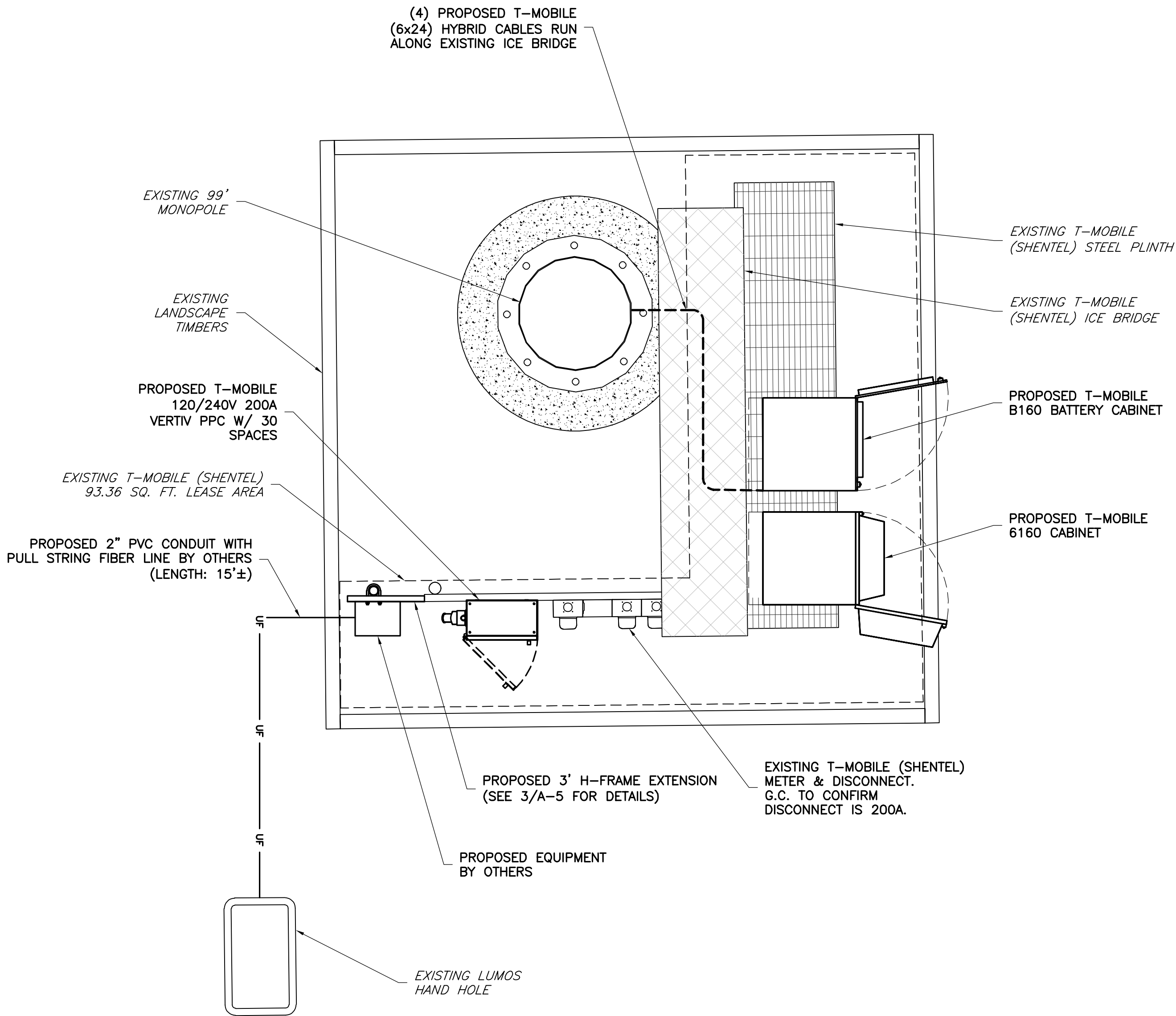
C-1



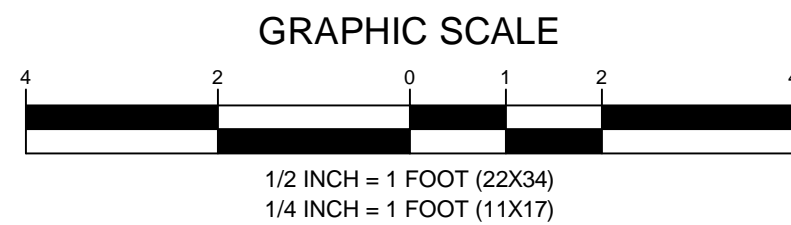
1
C-2
EXISTING EQUIPMENT PLAN
SCALE: 1/2" = 1' (22X34)
SCALE: 1/4" = 1' (11X17)



NOTE:
ANY AREAS OUTSIDE OF THE LEASED AREA THAT NEED CONDUITS WILL NEED THE ROUTES APPROVED BY SHENTEL PRIOR TO DIGGING. ANY AREA THAT DIGGING HAS BEEN DONE WILL HAVE THE SOIL KEPT OUT OF THE SITE GRAVEL. NEW FABRIC WILL BE PUT BACK IN AREAS THAT DIGGING WAS DONE PRIOR TO REPLACING GRAVEL. SITE WILL BE RETURNED TO CONDITIONS AS GOOD OR BETTER WHEN WORK HAS FINISHED.



2
C-2
PROPOSED EQUIPMENT PLAN
SCALE: 1/2" = 1' (22X34)
SCALE: 1/4" = 1' (11X17)



NOTE:
1. FINAL LOCATION OF PROPOSED EQUIPMENT CABINETS TO BE DETERMINED IN THE FIELD BY THE G.C.
2. PROPOSED EQUIPMENT CABINETS TO BE PAINTED TO MATCH.

ENGINEER

APPLICANT

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SHEET NUMBER

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GLEN ALLEN, VA 23059
(804) 548-4079

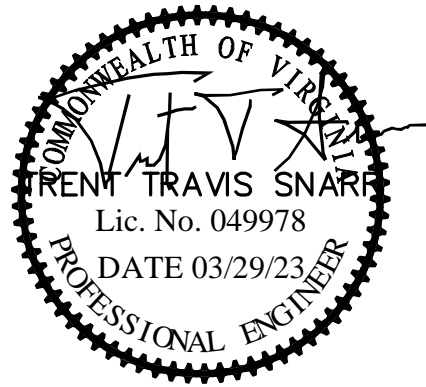
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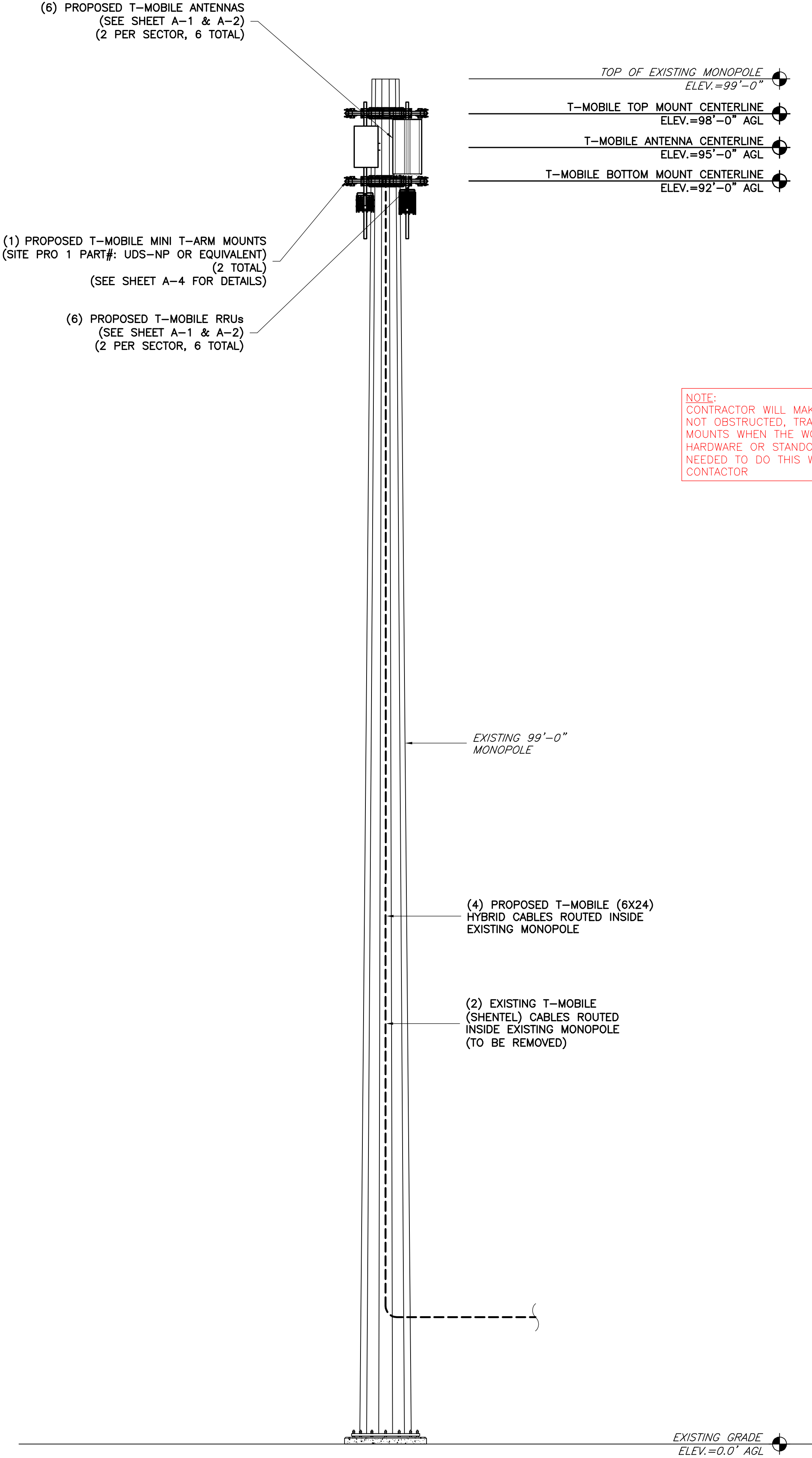
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VA PROFESSIONAL ENGINEER LIC. #49978

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.

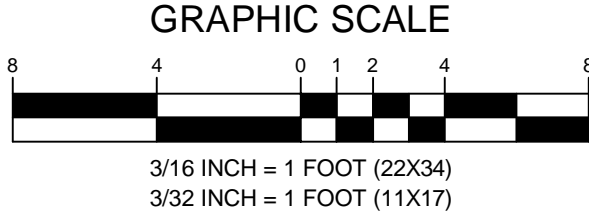


1

ELEVATION

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

C-3



ENGINEER

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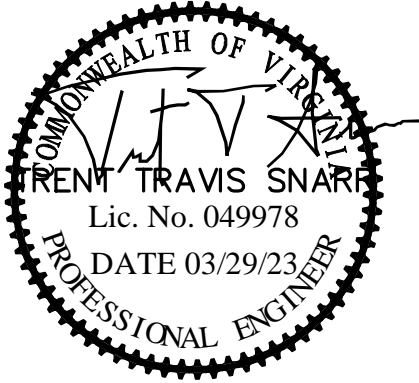
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PROFESSIONAL STAMP



ENGINEER

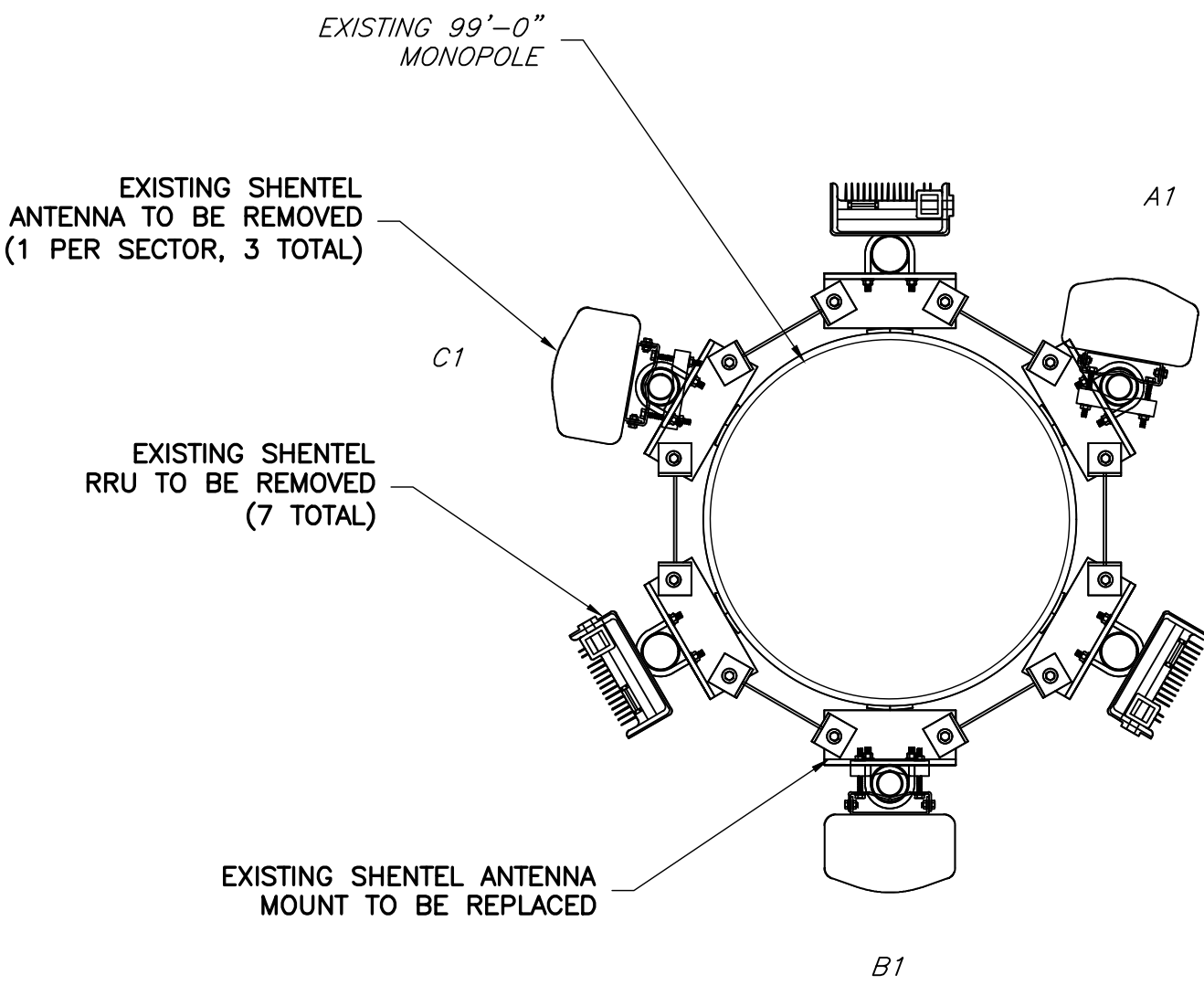
TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

SHEET TITLE

ELEVATION

SHEET NUMBER

C-3



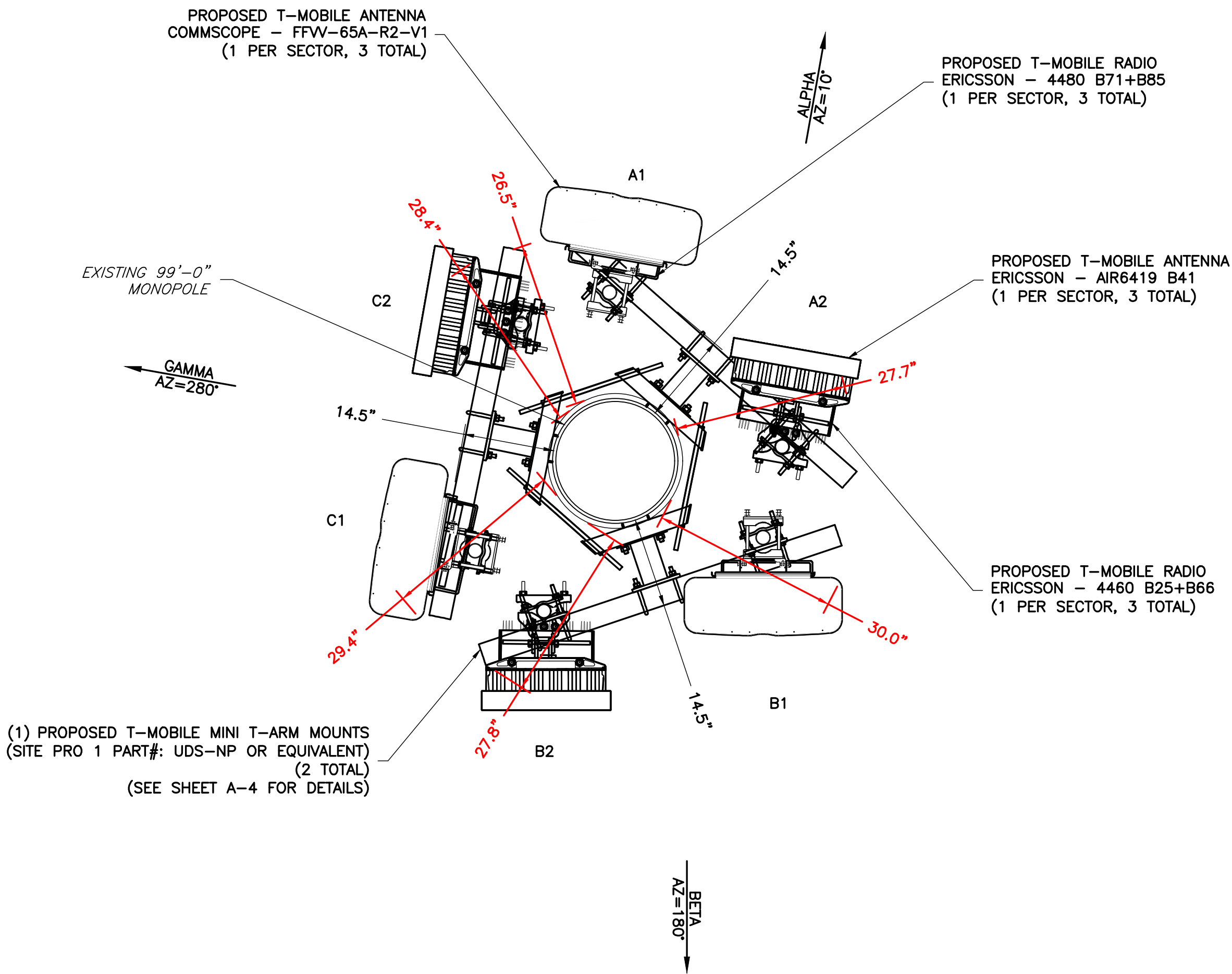
1
A-1

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

NOTE:
CONTRACTOR TO MAKE SURE THE SAFETY CLIMB
IS NOT DAMAGED WHEN SWAPPING THE MOUNTS.
CONTRACTOR WILL MAKE SURE THE CABLE IS
NOT AGAINST THE MOUNTS OR MOUNT HARDWARE.

ENGINEER

APPLICANT

SITE INFORMATION

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ENGINEER

SHEET TITLE

SHEET NUMBER

NB+CTM
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NB+C ENGINEERING SERVICES, LLC.
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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"	95.00'	10°	6°/6°/4°/4°	0°	(1) PROPOSED 4480 B71+B85 (1) PROPOSED 4460 B25+B66	-	(1) PROPOSED (6x24) HYBRID CABLE (1) PROPOSED (6x24) HYBRID FLEX CABLE (SHARED WITH ALL SECTORS)	130.00'
A2	PROPOSED	ERICSSON	AIR6419 B41	34.50"x20.00"x8.0"	95.00'	10°	4°/4°	0°	-	-		
B1	PROPOSED	COMMSCOPE	FFW-65A-R2-V1	48.19"x25.20"x9.25"	95.00'	180°	6°/6°/4°/4°	0°	(1) PROPOSED 4480 B71+B85 (1) PROPOSED 4460 B25+B66	-	(1) PROPOSED (6x24) HYBRID CABLE	130.00'
B2	PROPOSED	ERICSSON	AIR6419 B41	34.50"x20.00"x8.0"	95.00'	180°	4°/4°	0°	-	-		
C1	PROPOSED	COMMSCOPE	FFW-65A-R2-V1	48.19"x25.20"x9.25"	95.00'	280°	6°/6°/4°/4°	0°	(1) PROPOSED 4480 B71+B85 (1) PROPOSED 4460 B25+B66	-	(1) PROPOSED (6x24) HYBRID CABLE	130.00'
C2	PROPOSED	ERICSSON	AIR6419 B41	34.50"x20.00"x8.0"	95.00'	280°	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

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

VA72520A
BELLAIR
NB+C PROJECT #100838
20 DEER PATH LANE
CHARLOTTESVILLE, VA 22901
ALBEMARLE COUNTY

DESIGN RECORD

REVISIONS

5	03/29/23	REVISED	AMT
4	11/03/22	REVISED	CCC
3	10/24/22	REVISED	CCC
2	06/30/22	AAV PROJECT	JQG
1	06/14/22	RFDS	JQG
0	05/24/22	FINAL CDs	JQG
A	11/10/21	PRELIMINARY CDs	CDE
REV	DATE	DESCRIPTION	BY

PROFESSIONAL STAMP

COMMONWEALTH OF VIRGINIA

TRENT TRAVIS SNARR

Lic. No. 049978

DATE 03/29/23

PROFESSIONAL ENGINEER

ENGINEER

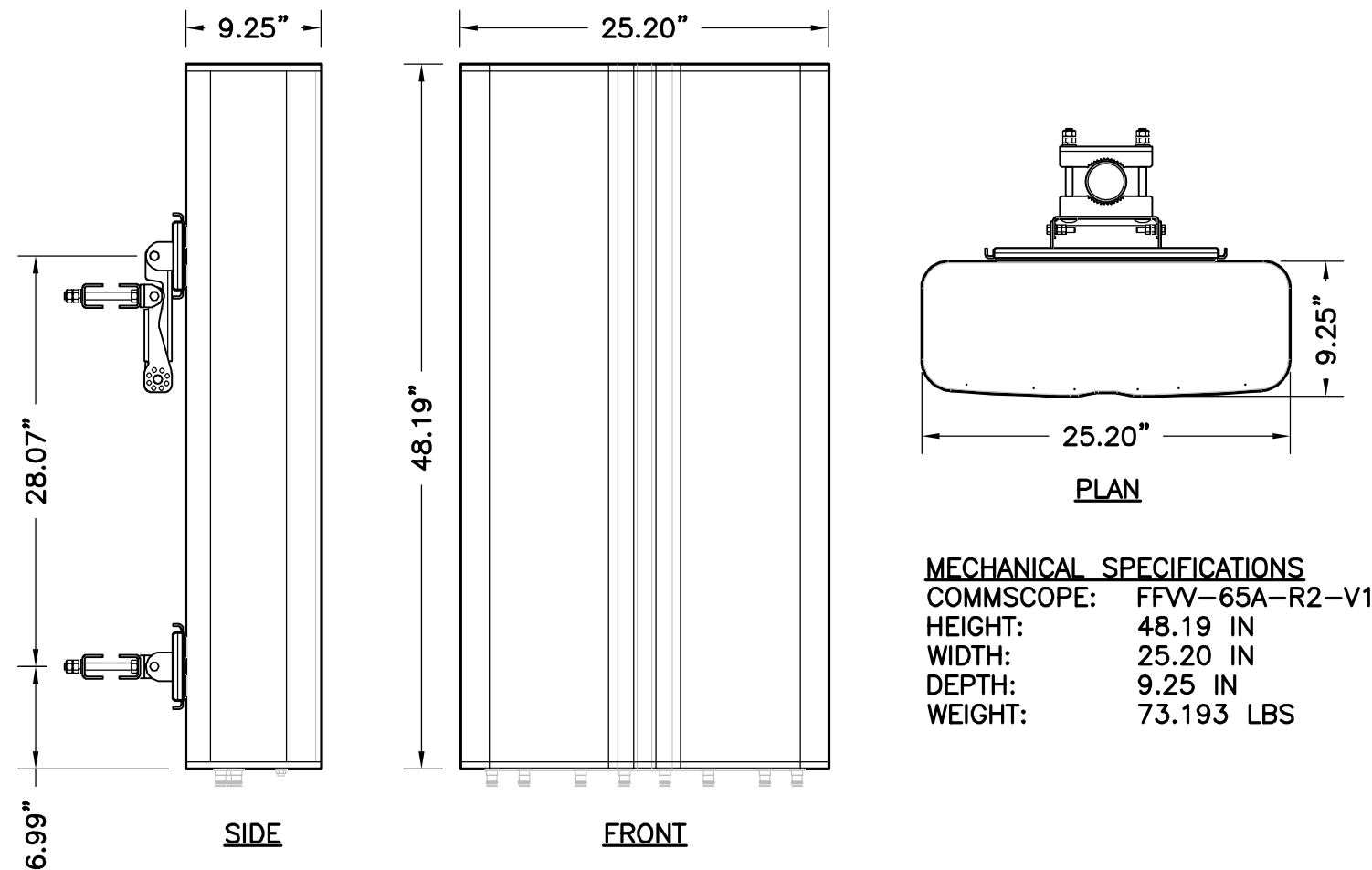
TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

SHEET TITLE

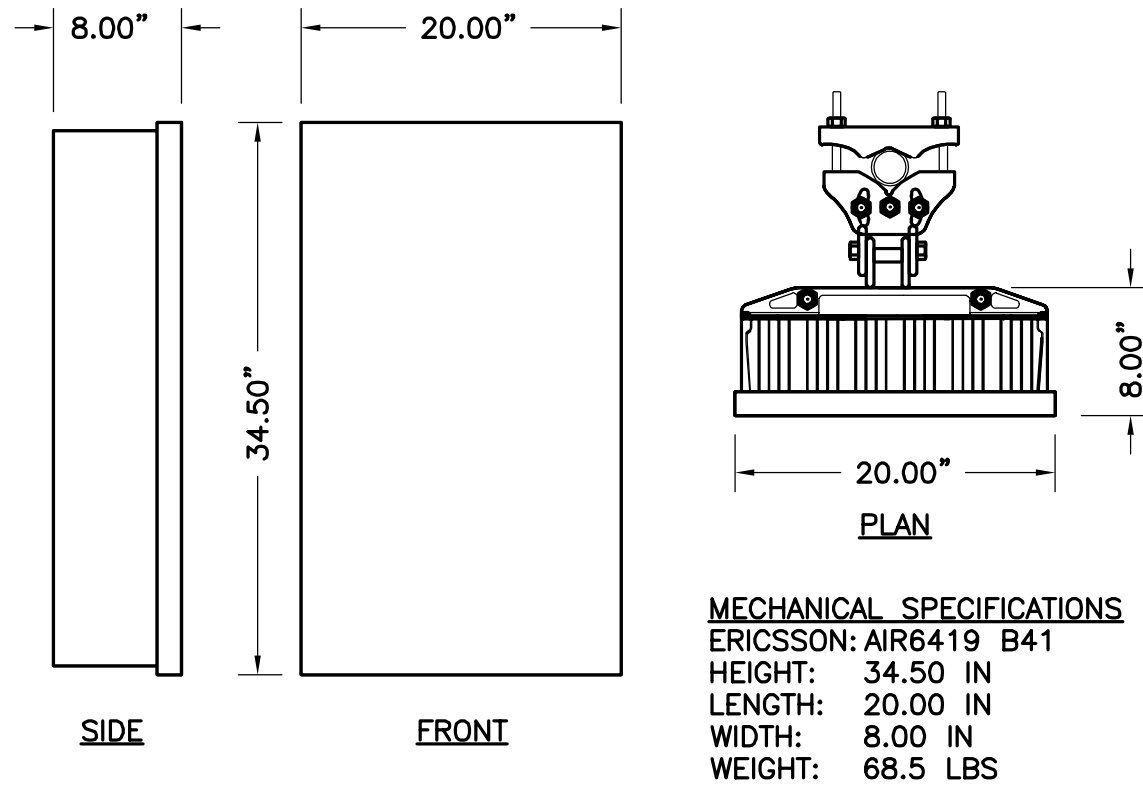
ANTENNA
SCHEDULE

SHEET NUMBER

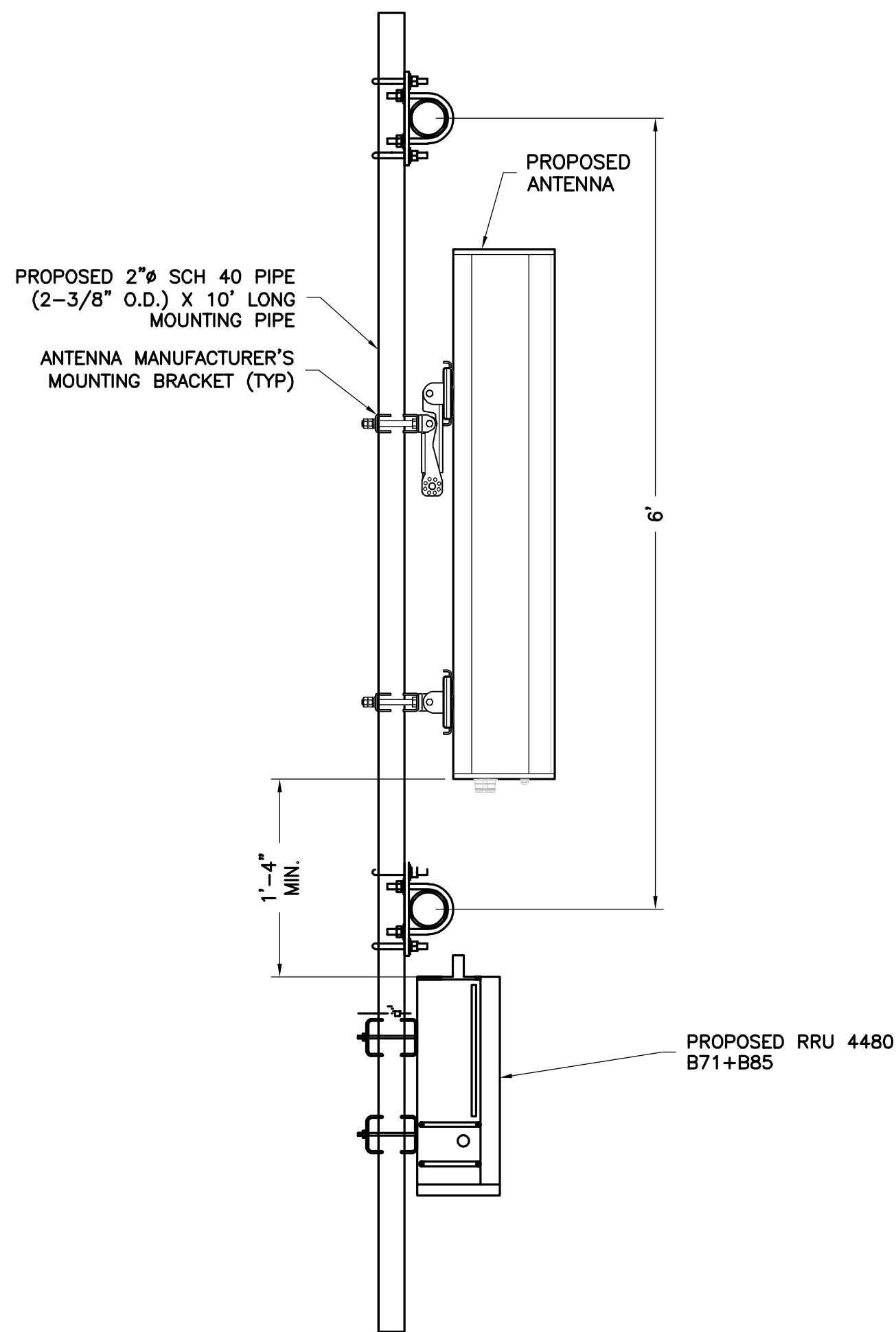
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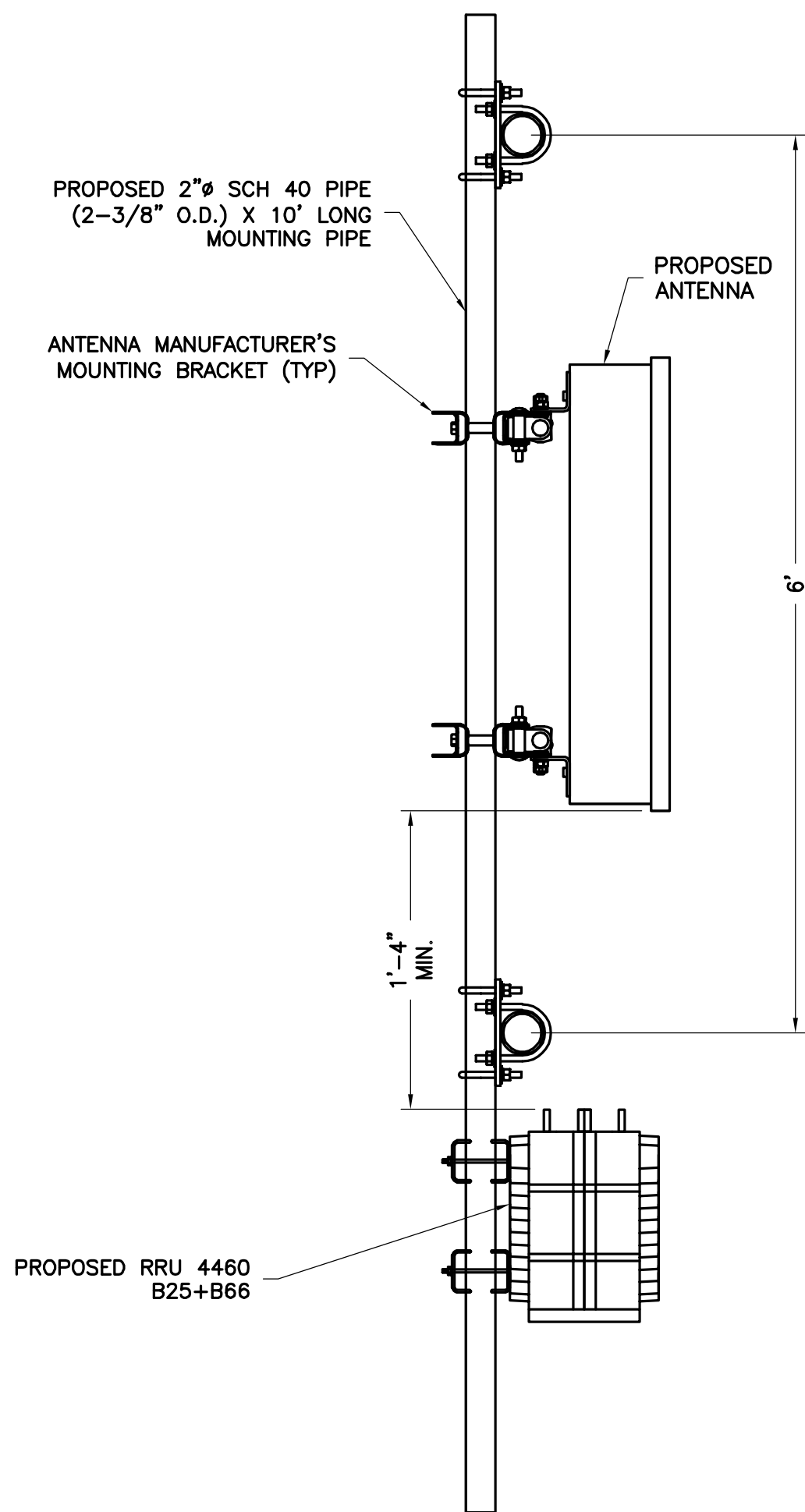
1
A-3
COMMSCOPE PANEL ANTENNA
NOT TO SCALE



2
A-3
ERICSSON PANEL ANTENNA
NOT TO SCALE



3
A-3
ANTENNA MOUNTING DETAIL
NOT TO SCALE



4
A-3
ANTENNA MOUNTING DETAIL
NOT TO SCALE

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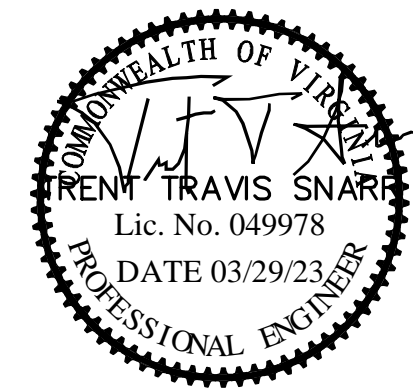
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VA72520A
BELLAIR
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DESIGN RECORD

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0	05/24/22	FINAL CDs	JQG
A	11/10/21	PRELIMINARY CDs	CDE

PROFESSIONAL STAMP



ENGINEER

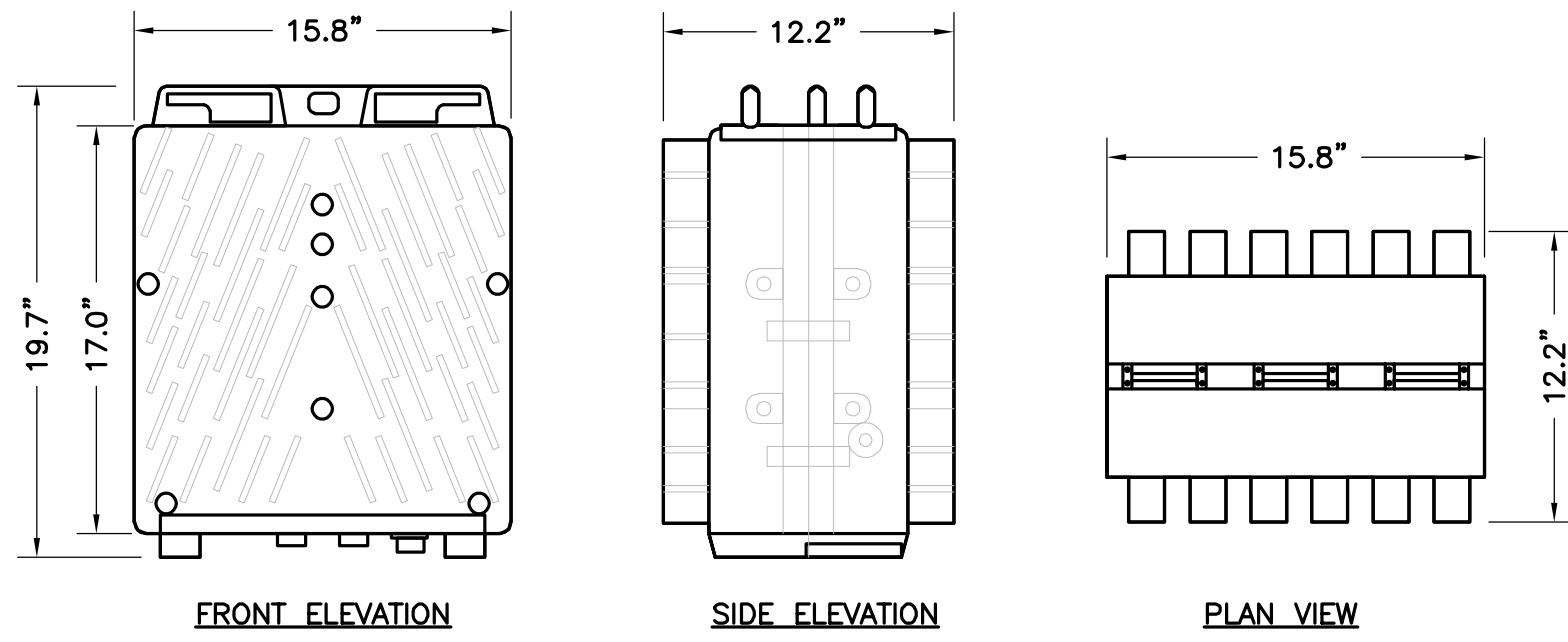
TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

SHEET TITLE

ANTENNA
SPECIFICATIONS
& DETAILS

SHEET NUMBER

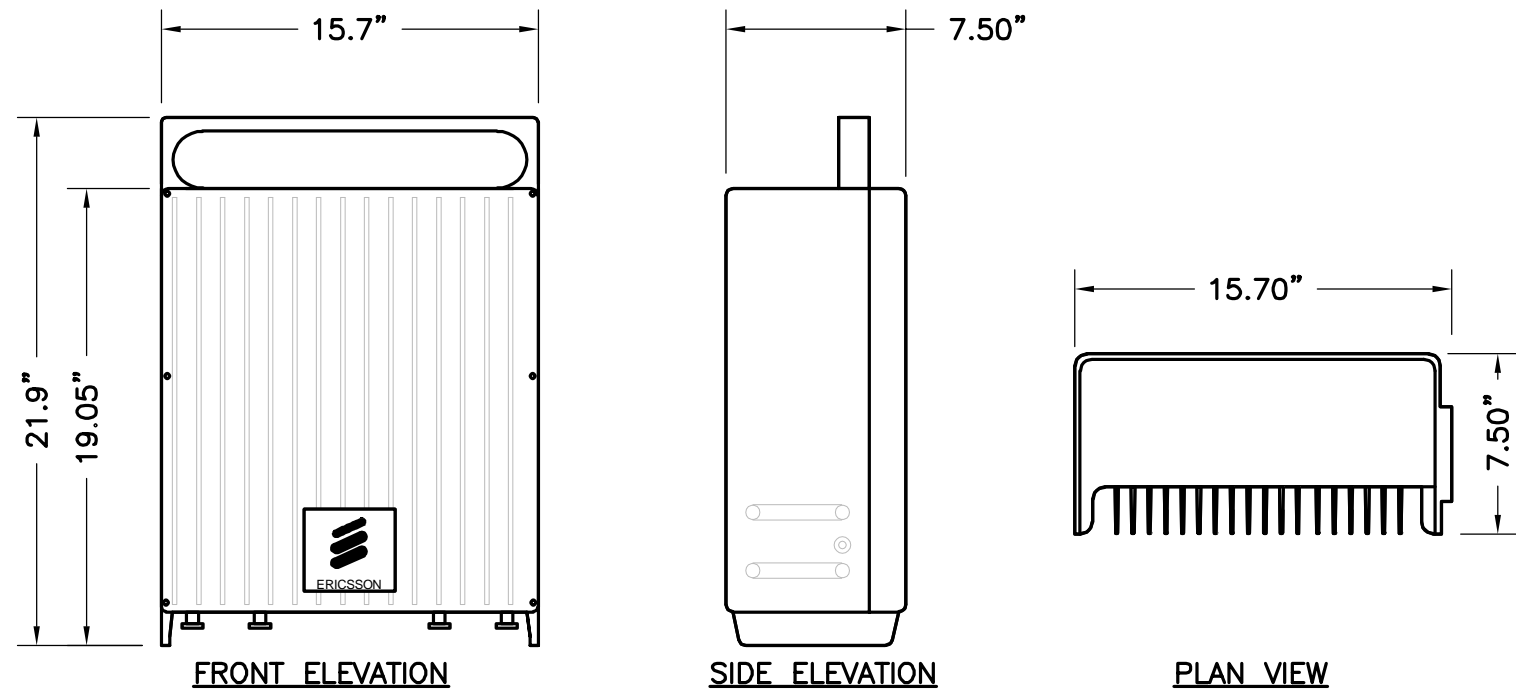
A-3



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.

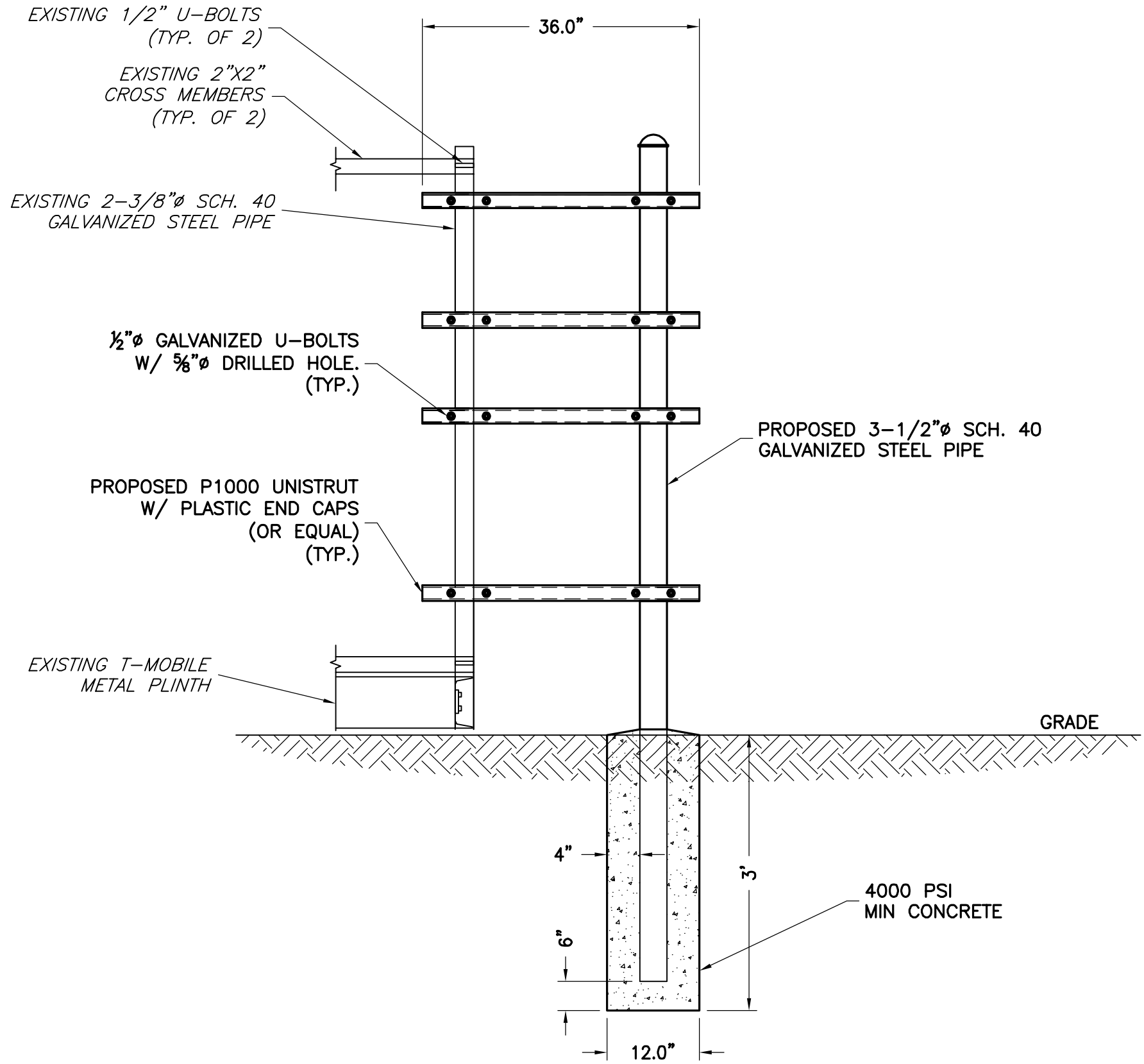
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A-4
ERICSSON REMOTE RADIO UNIT (RRU)
NTS



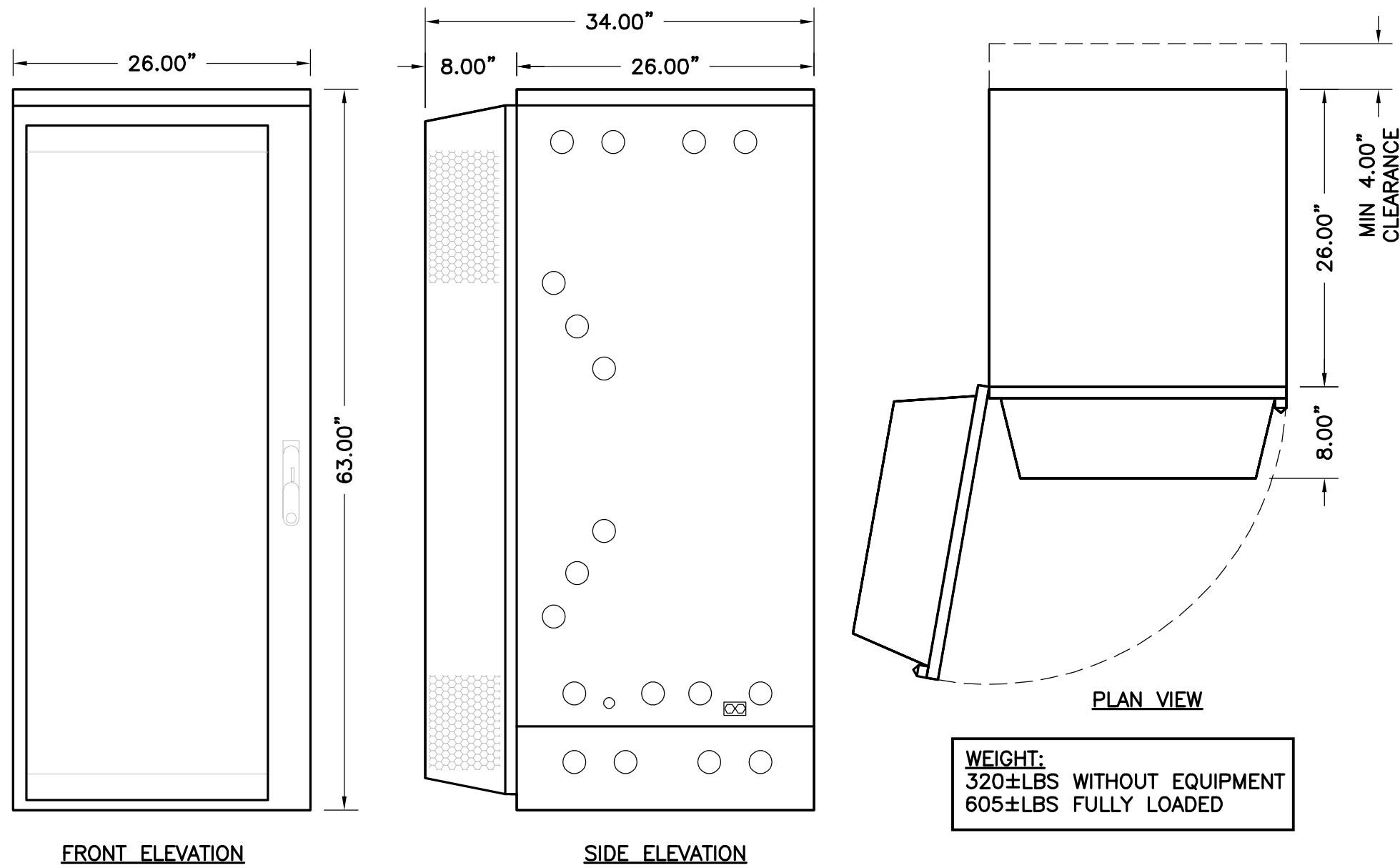
SIZE AND WEIGHT TABLE				
MANUFACTURER & MODEL NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT WITHOUT BRACKET
ERICSSON 4480 B71+B85	21.9"	15.7"	7.50"	81.00 LBS

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

2
A-4
ERICSSON REMOTE RADIO UNIT (RRU)
NTS

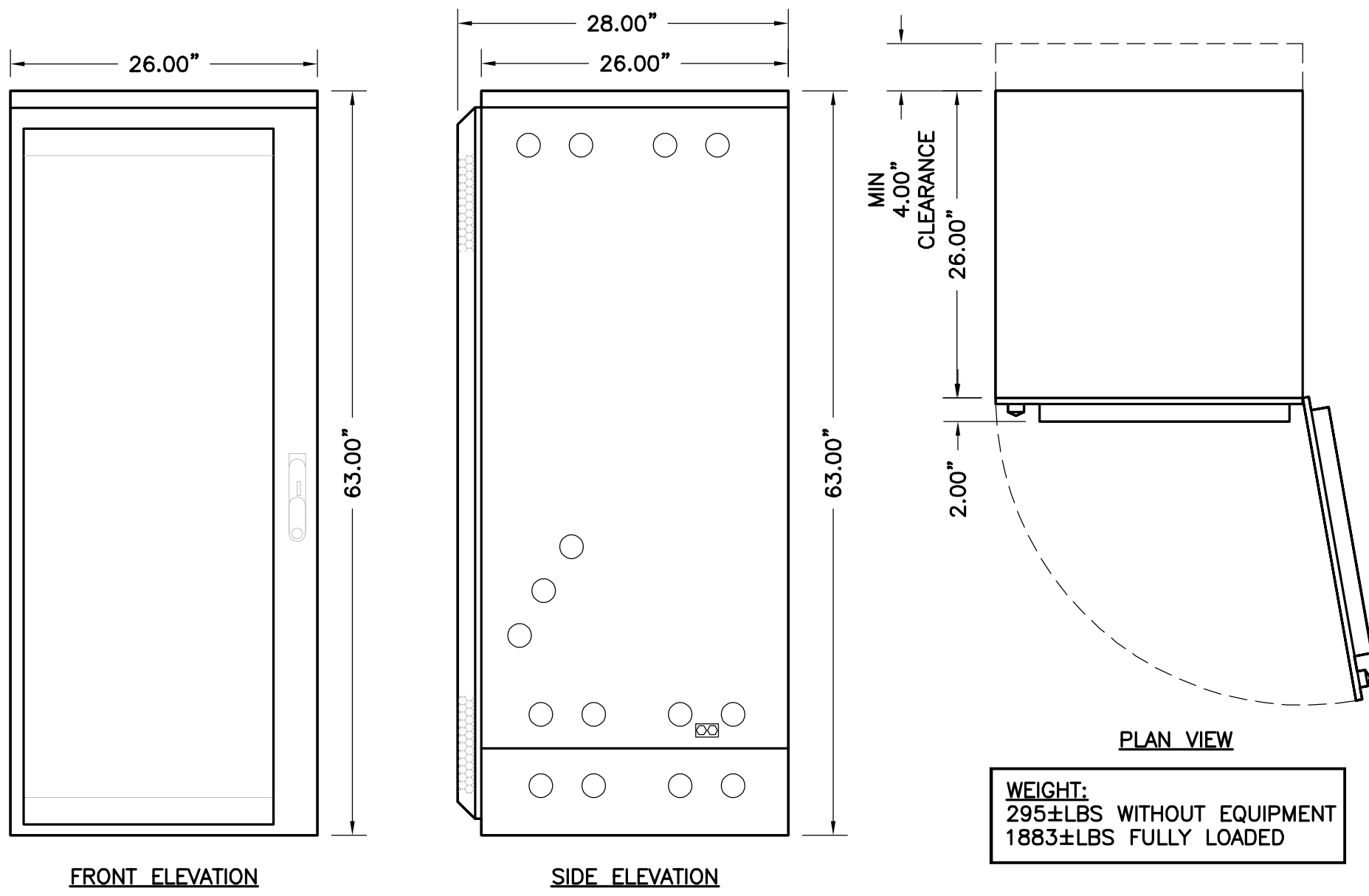


3
A-4
H-FRAME EXPANSION DETAIL
NTS



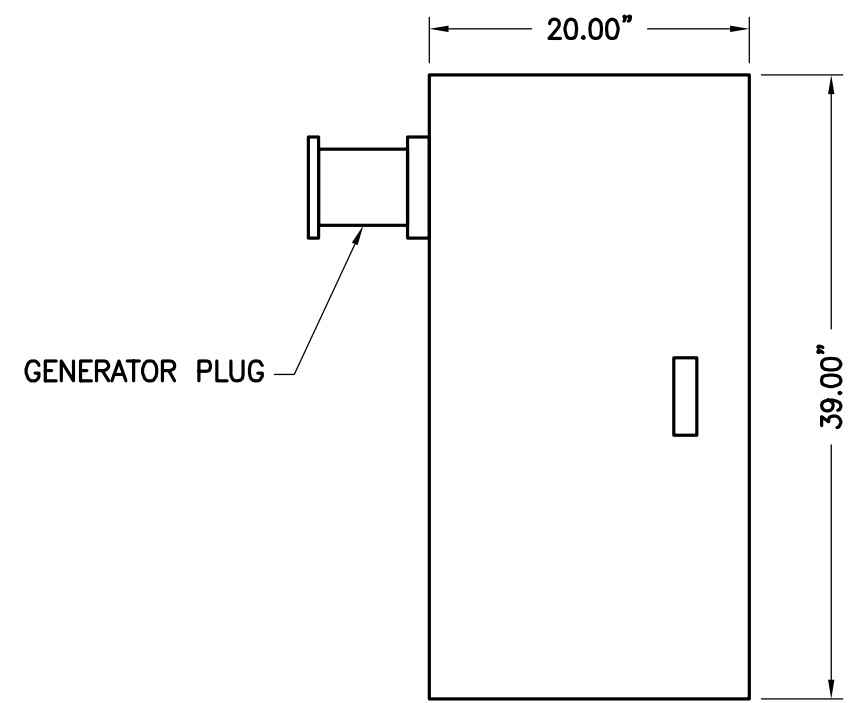
WEIGHT:
320±LBS WITHOUT EQUIPMENT
605±LBS FULLY LOADED

4
A-4
6160 ENCLOSURE CABINET
NOT TO SCALE



WEIGHT:
295±LBS WITHOUT EQUIPMENT
1883±LBS FULLY LOADED

5
A-4
B160 BATTERY CABINET
NOT TO SCALE



6
A-4
VERTIV PPC UNIT DETAIL
NTS

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

SHEET TITLE

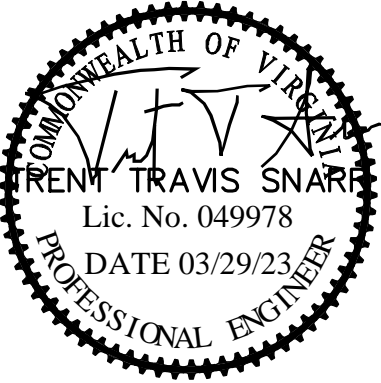
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TRENT T. SNARR, P.E.
VA PROFESSIONAL ENGINEER LIC. #49978

EQUIPMENT
SPECIFICATIONS
& DETAILS

A-4