



SMARTSKY SITE NUMBER: VA107A
SMARTSKY SITE NAME: FEATHERSTONE
SITE TYPE: MONOPOLE
TOWER HEIGHT: 98'-6"

CROWN CASTLE BU #: 842586
SITE ADDRESS:
COUNTY: ALBEMARLE
JURISDICTION: ALBEMARLE COUNTY

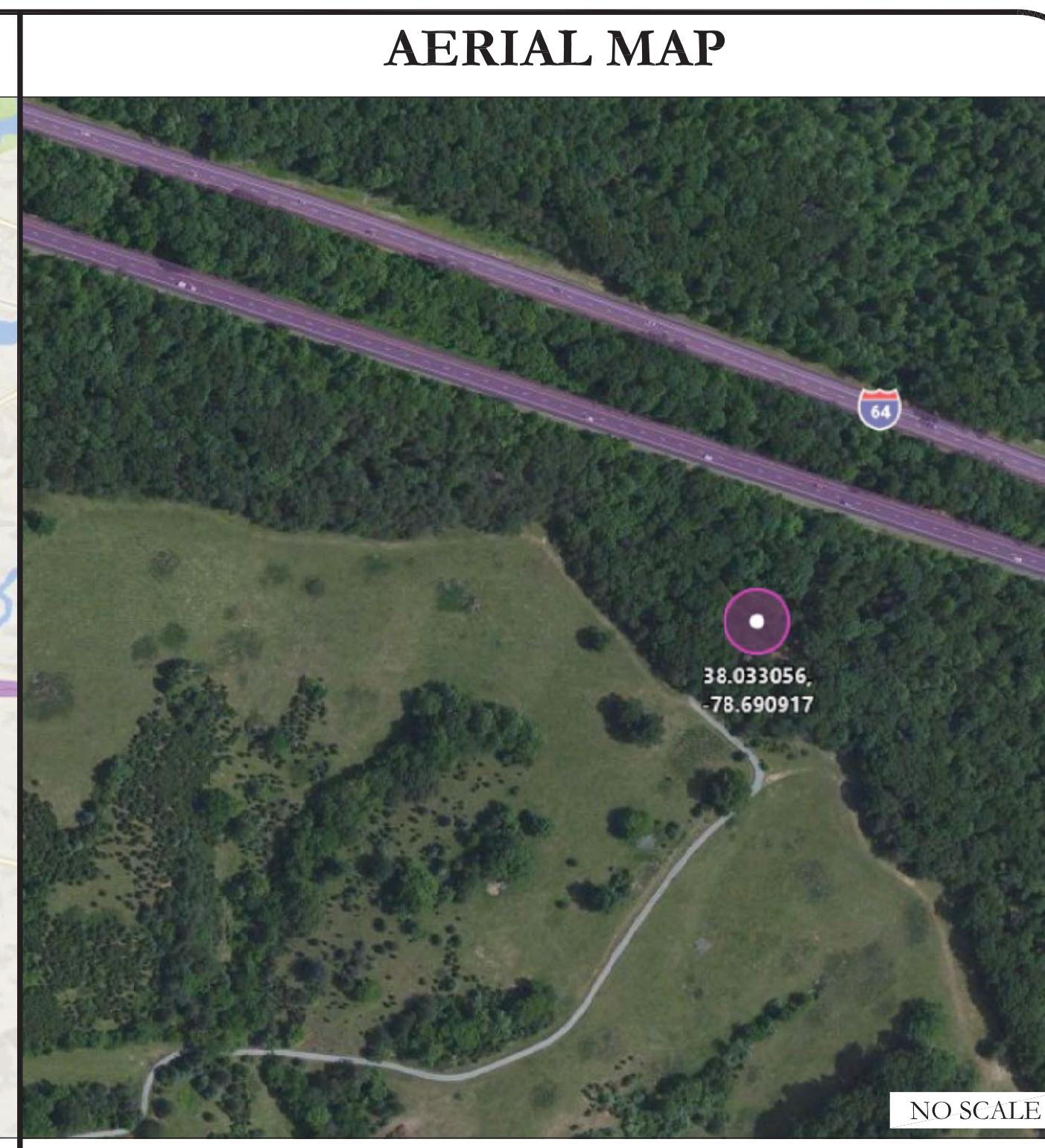
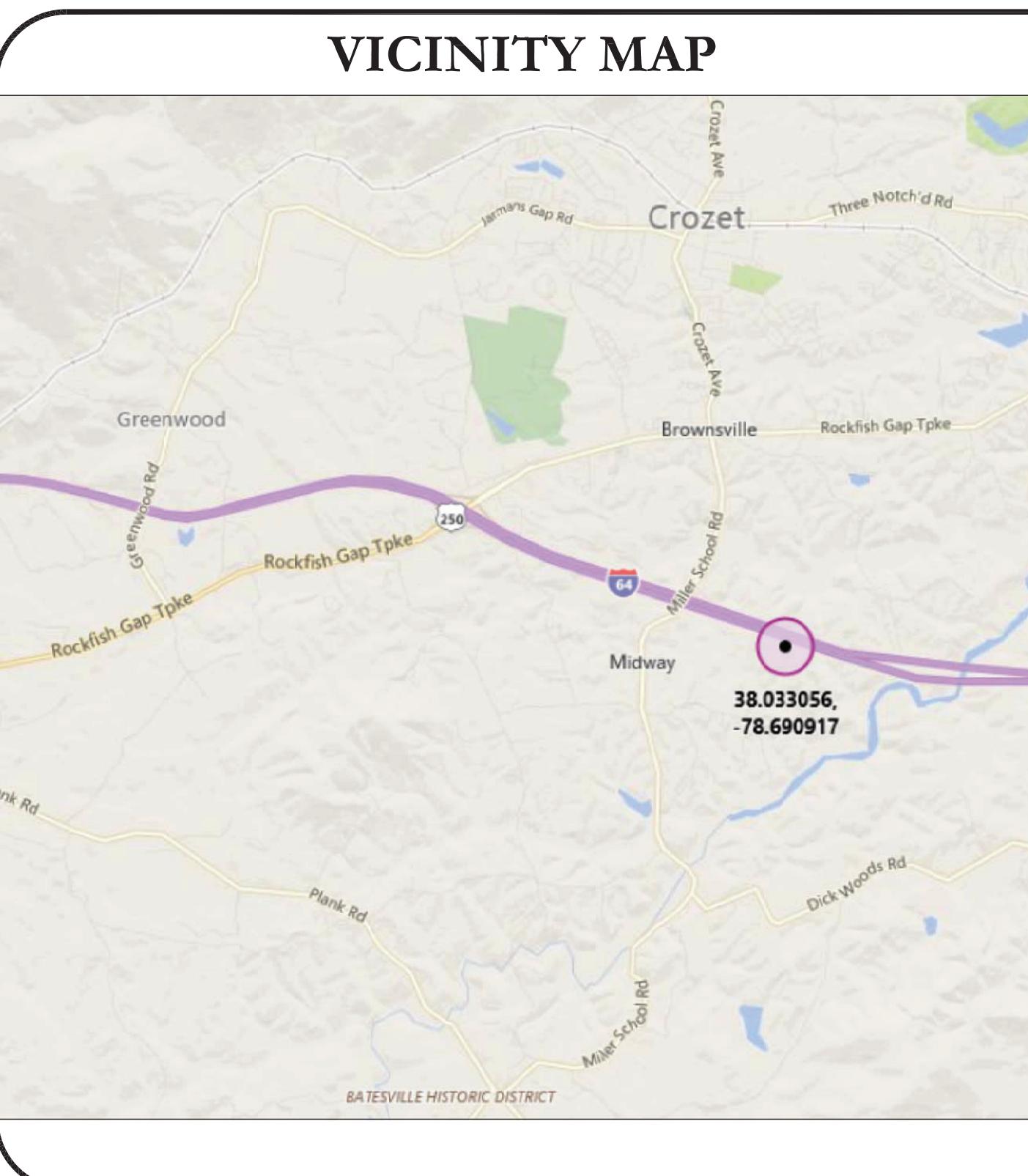
SMARTSKY FIRST TIME INSTALL

SITE INFORMATION	
CROWN CASTLE SITE NAME:	FEATHERSTONE
SITE ADDRESS:	5722 WYANT LANE CHARLOTTESVILLE, VA 22903
COUNTY:	ALBEMARLE
MAP/PARCEL #:	07200-00-00-02100
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	38° 1' 59.0"
LONGITUDE:	-78° 41' 27.3"
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	680.0 FT
CURRENT ZONING:	N/A
JURISDICTION:	ALBEMARLE COUNTY
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	VB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	LAWRENCE DAMON HOWELL ZURICHSTRASSE 94 8700 KUSNACHT SWITZERLAND
TOWER OWNER:	CCATT LLC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	SMARTSKY 4690 FIRST FLIGHT DRIVE CHARLOTTE, NC 28208
CROWN CASTLE APPLICATION ID:	368309
ELECTRIC PROVIDER:	DOMINION POWER (866) 366-4357
TELCO PROVIDER:	UNKNOWN

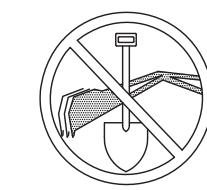
DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN & TOWER ELEVATION
C-2	ANTENNA PLANS AND SCHEMATIC
C-3	DETAILS
C-4	DETAILS
C-5	DETAILS
E-1	ELECTRICAL SCHEMATIC
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

PROJECT DESCRIPTION	
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE	
TOWER SCOPE OF WORK	
<ul style="list-style-type: none"> • INSTALL (2) SECTOR MOUNTS • INSTALL (6) PANEL ANTENNAS W/ SURGE PROTECTORS • INSTALL (6) RRHs • INSTALL (1) DISTRIBUTION PANEL • INSTALL (1) 7/8" HYBRID CABLE 	
GROUND SCOPE OF WORK	
<ul style="list-style-type: none"> • INSTALL NEW ICE BRIDGE • INSTALL (1) SMARTSKY UTILITY FRAME • INSTALL (1) SMARTSKY OUTDOOR CABINET ON A NEW 5'-0"x5'-0" CONCRETE PAD • INSTALL (1) GPS ANTENNA ON CABINET • INSTALL POWER & FIBER TO CABINET 	
DESIGN PACKAGE BASED ON THE APPLICATION	
ID: 368309	
REVISION: 3	
THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.	



APPLICABLE CODES/REFERENCE DOCUMENTS	
ALL WORK SHALL BE PERFORMED AND MATERIALS 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 THESE CODES:	REFERENCE DOCUMENTS:
CODE TYPE	CODE
BUILDING	2012 VA CONSTRUCTION CODE/2012 IBC W/ VA AMENDMENTS
MECHANICAL	2012 VA CONSTRUCTION CODE/2012 IMC W/ VA AMENDMENTS
ELECTRICAL	2012 VA CONSTRUCTION CODE/2011 NEC W/ VA AMENDMENTS
NOTES:	STRUCTURAL ANALYSIS: BY OTHERS
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT 800-788-7011 & CROWN CONSTRUCTION MANAGER	MOUNT ANALYSIS: BY OTHERS



CALL VIRGINIA ONE CALL
(800) 552-7001
CALL 3 WORKING DAYS
BEFORE YOU DIG!



4690 FIRST FLIGHT DRIVE
CHARLOTTE, NC 28208



3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277

SMARTSKY SITE NUMBER:
VA107A

BU #: 842586
FEATHERSTONE

5722 WYANT LANE
CHARLOTTESVILLE, VA 22903
EXISTING 98'-6" MONOPOLE

ISSUED FOR:				
REV	DATE	DRVN	DESCRIPTION	DES./QA
A	03/31/17	TB	PRELIMINARY	JM

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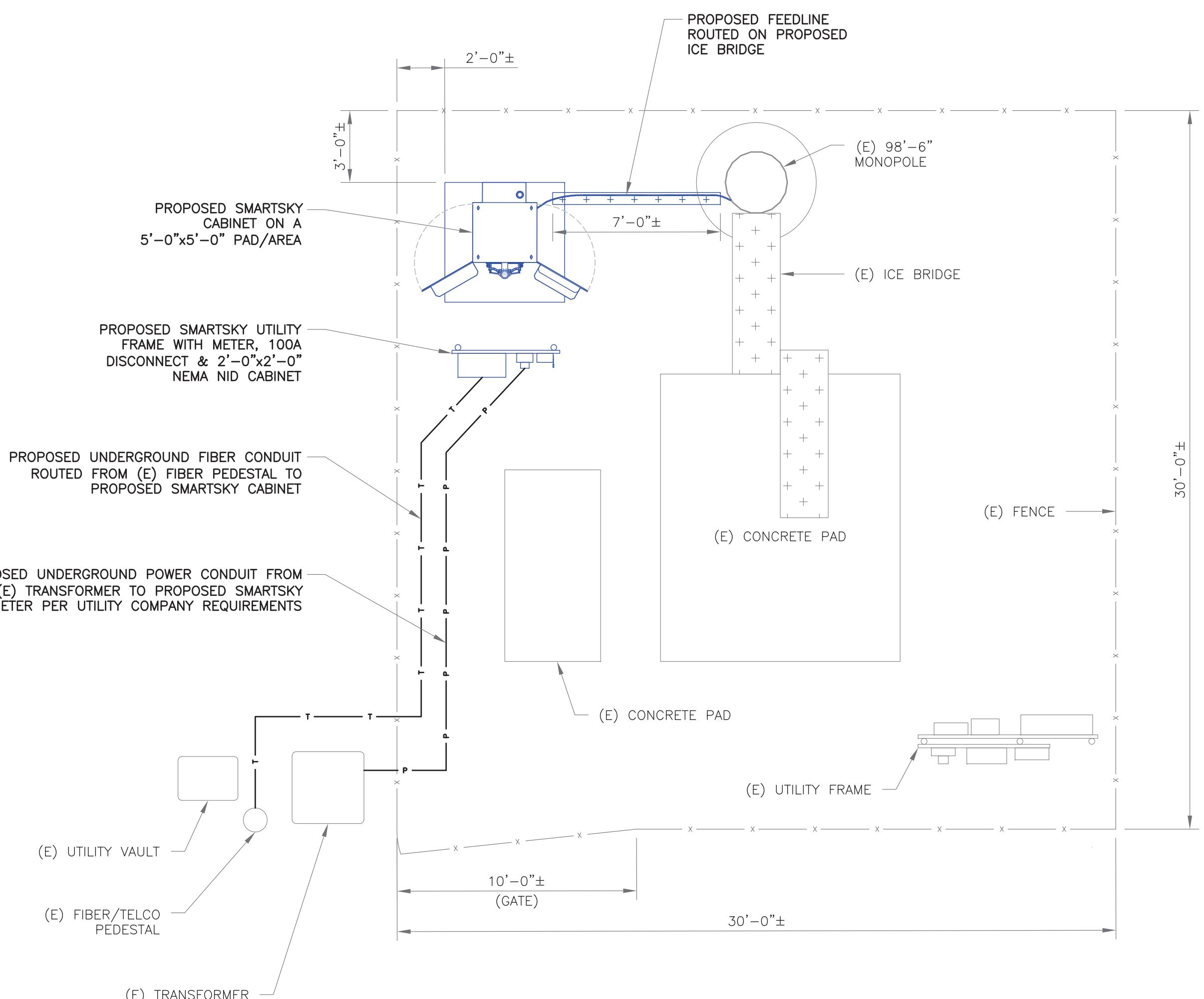
Andrew Joseph Fandozzi III, P.E.
Professional Engineer License: #053839
Crown Castle USA, Inc. COA #407005050

IT IS A VIOLATION OF LAW FOR ANY PERSON,
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SHEET NUMBER: T-1
REVISION: A

SITE PLAN NOTES:

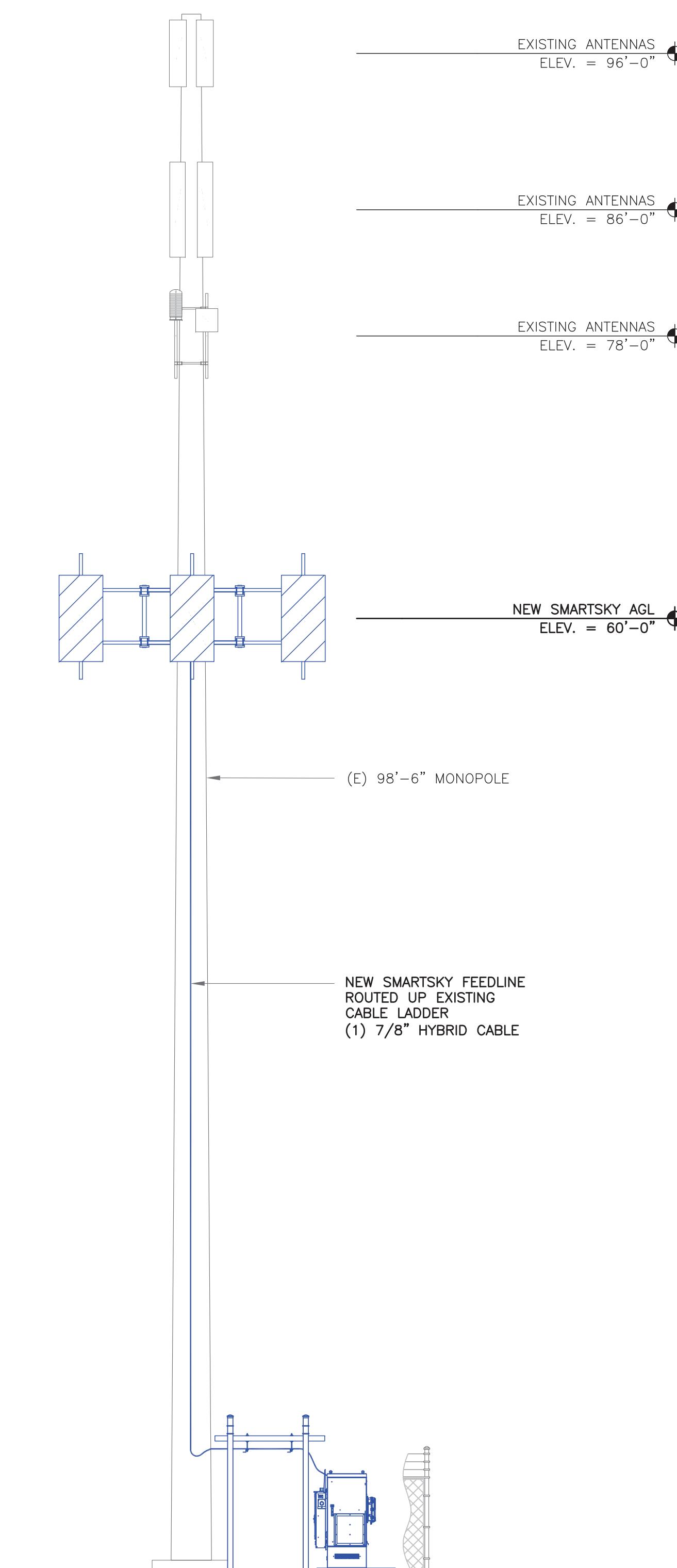
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE CROWN CASTLE SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CROWN CASTLE CONSTRUCTION MANAGER AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.
4. USE EXISTING WAVEGUIDE LADDER/MOUNT FOR VERTICAL CABLE RUN WHERE FEASIBLE. COAX ATTACHMENT TO THE TOWER CANNOT BE INSTALLED ON THE CLIMBING LADDER. QUICK TIES ARE NOT AN ACCEPTABLE METHOD OF COAX ATTACHMENT.
5. INSTALLATION OF ICE BRIDGE SHALL NOT OBSTRUCT GPS ANTENNA ON TOP OF CABINET.
6. PULL BOX(S) ARE REQUIRED WHEN THE EQUIVALENT OF FOUR 90 BENDS, INCLUDING THE BENDS LOCATED AT AN OUTLET OR FITTING, ARE USED BETWEEN PULL POINTS; 150 FT OF CONDUIT LENGTH IS EQUIVALENT TO AN ADDITIONAL 90 DEGREES.



1 SITE PLAN

SCALE: 4 3 2 1 0 4 1/4"=1'-0" (FULL SIZE)

1/8"=1'-0" (11x17)

HEIGHT OF STRUCTURE
ELEV. = 98'-6"EXISTING ANTENNAS
ELEV. = 96'-0"EXISTING ANTENNAS
ELEV. = 86'-0"EXISTING ANTENNAS
ELEV. = 78'-0"ACROSS FLATS (1'-10")
ELEV. = 60'-0"NEW SMARTSKY AGL
ELEV. = 60'-0"2 TOWER ELEVATION
SCALE: NOT TO SCALESMARTSKY
NETWORKS4690 FIRST FLIGHT DRIVE
CHARLOTTE, NC 282083530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277SMARTSKY SITE NUMBER:
VA107ABU #: 84258
FEATHERSTONE5722 WYANT LANE
CHARLOTTESVILLE, VA 22903

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SHEET NUMBER: C-1 REVISION: A

RF SCHEDULE & B.O.M.									
ITEM	MANUFACTURER	PART NUMBER	SUPPLIER	QUANTITY	LENGTH	RAD CENTER	AZIMUTH (TRUE NORTH)	MECH UP-TILT	COMMENTS
PANEL ANTENNA	CCI ANTENNAS	BFA8F-A5A	CUSTOMER	6	N/A	60'-0"	15°/45°/75°/105°/135°/165°	4.5° UP-TILT	—
RRH	HARRIS	RRH	CUSTOMER	6	N/A	60'-0"	N/A	—	—
DISTRIBUTION PANEL (1390)	RAYCAP	RHCDC-1390-PF-48	CUSTOMER	1	N/A	60'-0"	N/A	—	—
RRH DC SURGE SUPPRESSOR (3441)	RAYCAP	RHCDC-3441-P-48-NA	CUSTOMER	6	N/A	60'-0"	N/A	—	INLINE DC SURGE SUPPRESSION
HYBRID CABLE (FIBER & POWER)	EUCA HYBRID	78-12C6-24MM5	CUSTOMER	1	120'-0"±	60'-0"	N/A	—	—
FIBER JUMPER (1390 TO RRH)	EUPEN	HF2M900LCFA-A/A	CUSTOMER	6	29' (SEE NOTE 2)	60'-0"	N/A	—	2 FIBERS MULTI-MODE, LC/UPC
DC JUMPER (3441 TO RRH)	CHOGORI	1IZ00116061701	CUSTOMER	6	15' (SEE NOTE 2)	60'-0"	N/A	—	2x14 AWG CONDUCTORS (B/W)
DC JUMPER (1390 TO 3441)	EUPEN	HP206	CUSTOMER	6	75' (SEE NOTE 2)	N/A	N/A	—	SPOOL OF 75' CUT TO LENGTH ON SITE

1. BASED ON APPROVED CROWN CASTLE APPLICATION DATED 01/26/2017. CONFIRM WITH CROWN CASTLE CONSTRUCTION MANAGER FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS.
2. JUMPER AND DC POWER CABLE LENGTH SHOWN REFERS TO SHORTEST PRECUT LENGTH THAT WILL REACH RRH/INLINE SURGE SUPPRESSOR.
3. THE ANTENNAS LISTED IN THIS B.O.M. ARE ONLY USED TO REPRESENT A BASIS OF DESIGN DIMENSIONS FOR THE ANTENNA AND MOUNT ORIENTATION PER THE APPLICATION. THE CUSTOMER WILL PROVIDE ANTENNA MODELS AFTER PRELIMINARY DRAWINGS ARE SUBMITTED.
4. EXCESS COAX TO BE COILED.



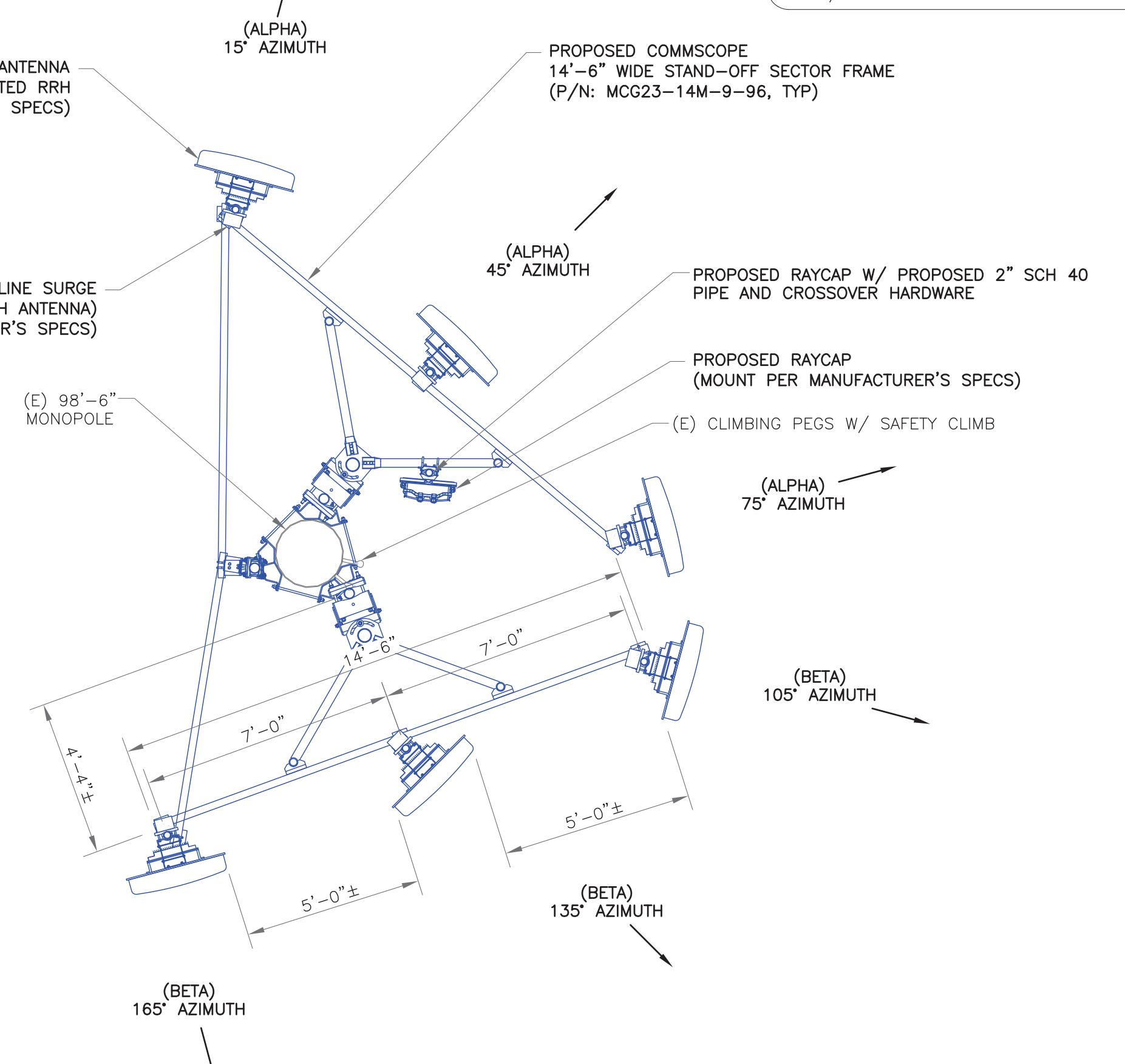
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VA107A

BU #: 84258
FEATHERSTONE

5722 WYANT LANE
CHARLOTTESVILLE, VA 22903

EXISTING 98'-6" MONOPOLE

INSTALLER NOTE:
DIRECT TOWER MOUNTED EQUIPMENT MUST NOT TRAP OR INTERFERE W/ CLIMBING PEGS/STEPS AND SAFETY CLIMB.



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SHEET NUMBER: C-2
REVISION: A

2 PROPOSED ANTENNA MOUNTING DETAIL
SCALE: NOT TO SCALE

3 PROPOSED ANTENNA LAYOUT
SCALE: NOT TO SCALE

